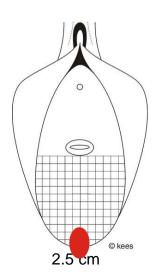
pt 001	katsina m cut-thru tra	0		rvf 1020
s s f j (katsin	a)	female	27 yr	31.05.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PVI (5 alive), sphincter ani rupture with 2.5 cm <u>longitudinal</u> anorectum trauma type IIb , stool_flatus incontinence for 59 days that started im mediately following last labor of < 1 day, at home <u>live</u> male, married 14 yr ago pre(menarche 5 mth later), not living at husband, no menstruation, no drop foot R (grade 5) and L (grade 5), no vvf, no yankan gishiri, no h/c eclampsia; normal ap diameter/ wide pubic arch 95°, ar pos, operated 1x (jibia), never leaking urine a/f 0 cm, i/v 11 cm			
operation:	anorectum closure and sphincte	r ani_perine	al body re	construction
duration:	30 min (step-by-step teaching)	hea	ling 95%	continence 95%
anesthesia:	spinal L4/L5 with 3 ml bupivacai	ne 0.5%		

incision at pvw edge with freshening of sphincter ani ends, minimal sharp dissection, <u>longitudinal</u> anorectum closure with adaptation_rhaphy of internal sphincter over 3 cm up to anocutaneous junction (with repositioning of anterior anus) by double layer of in verting interrupted/continuous serafit, inner ring of external sphincter adapted, end-toend external sphincter ani reconstruction by 2x serafit, perineal body repair with (in) direct re-union of transversus perinei muscles and (in)direct posterior re-union of bulbo cavernosus muscles by 2x serafit, perineum well adapted with anus in anatomic position, check on hemostasis

foley ch 18; free urine flow, euo/bw 13 cm, good elevation, euo/b 2 cm



pt 002	fixation sutur	katsina mdg r es thru superior pubi	c bone periost	vvf 8070
mhk (répr	iger) ferr	nale	18 yr	31.05.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	stress incontinen yr which started s	stocele_3° cervix prola ce, something coming o pontaneously following ale, married 6 yr ago pro	out of vagina_leaking obstructed <u>first</u> labor	g urine for 3 for 1 day, in

with husband, normal menstruation, drop foot R (grade 5) and L (grade 5), no vvf/rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/ wide pubic arch 95°, ar pos, no decubitus ulcer cervix euo/c 7 cm **never** leaking urine **narrow** urethra_euo in anat pos **no** objective stress incontinence (also not after reduction) euo/bw 14 cm, poor elevation, euo/b 1.5 cm 154.5 cm

operation: cervix suspension at L

duration: 15 min (**step-by-step teaching**) healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

small avw incision avw ruga fold with transverse extension up to cervix, sharp dissection to create wound area/surface, paravesical space free, fixation of cervix (with adherent pc fascia) onto L superior pubic bone/pc_ilc_iom/atf/atl by 2x seralon, euo/b 2.2 cm, **no** urine thru euo on rest/cough/pressure, foley ch 18, check on hemostasis; free clear urine flow, euo/bw 14 cm, good elastic anterior elevation at L, no rotational descent at all, euo/b 2.2 cm (**re-urethralization**) good cervix fixation normal bladder capacity (longitudinal diameter 14-2.2 = 12 cm) good position of uv-junction **against** middle third of symphysis narrow 2 cm good-quality urethra_euo in anatomic position

s n k (katsina) female 29 yr

kees waaldijk surgeon:

assistant: kabir lawal

PVIII (7 alive), sphincter ani rupture with 3 cm longitudinal anorectum diagnosis: trauma, stool_flatus incontinence for 2 yr which started immediately follow ing 7th labor for 1 day, at home live female, married 16 vr ago post(menar che 1 mth earlier), still living with husband, normal menstruation, drop foot R (grade 5) and L (grade 5), no vvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/wide pubic arch 90°, ar pos, no s/o operation a/f 0 cm. i/v 12 cm never leaking urine 157.0 cm

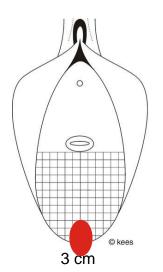
operation: anorectum closure and sphincter ani_perineal body reconstruction

duration: 30 min (step-by-step teaching) healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

incision at pvw edge with freshening of sphincter ani ends, minimal sharp dissection, tension-free longitudinal anorectum closure with adaptation_rhaphy of internal sphincter over 3.5 cm up to anocutaneous junction (with repositioning of anterior anus) by double layer of inverting interrupted/continuous serafit, inner ring of external sphincter adapted, end-to-end external sphincter ani reconstruction by 2x serafit, perineal body repair with (in)direct re-union of transversus perinei muscles and (in)direct posterior re-union of bulbocavernosus muscles by 2x serafit, perineum well adapted with anus in anatomic position, check on hemostasis

foley ch 18; free urine flow, euo/bw 18 cm, good elevation, euo/b 2 cm



RR preanesthesia: 160/100 mm Hg 5': 150/90 10': 140/80 postoperation: 130/80

pt 004 katsina mdg vvf 8071 anteriolateral R trauma: second obstetric fistula				
h a d (katsin	a)	female	28 yr	01.06.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	within healed avw trauma/pcf defect, leaking urine for 1 yr that started in mediately following obstructed last labor for 2 days, in hospital sb male married 16 yr ago pre(menarche 1 yr), not living with husband, norma menstruation, no h/o drop foot R (grade 5) and L (grade 5), no rvf, no ya kan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos cervix mobile, successful vvf-repair delivery II (b/r_), 5x1.5 cm pcf defect with cystocele ++, atf/atl + pc_ilcm loss at R			yr that started im hospital sb male, husband, normal 5), no rvf, no yan arch 85°, ar pos,
operation:	uvvf-repair with transverse pcf re	pair/bilateral fi	xation	
duration:	25 min	healin	g 95%	continence 90%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%		

transverse incision thru/fistula_pcf defect edge, sharp dissection, tension-free transver se pc fascia repair/ by single layer of inverting serafit with bilateral fixation onto para urethra_euo atf/symphysis, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, anterior elevation, euo/b 1.6 cm normal bladder capacity (longitudinal diameter 12-1.6 = 10.5 cm) poor position of uv-junction **against** caudad third of symphysis **no** longer cystocele normal-width 1.5 cm good-quality urethra_euo in anatomic position



pt 005

katsina mdg anterior trauma

m h d (katsina)	female	15 yr	01.06.11
		•	

surgeon: dr sadiya nasir/kees waaldijk

assistant: kabir lawal

- diagnosis: PI (0 alive), <u>+</u> 1 cm 0 urethrovesicovaginal fistula type **IIAa** midline, **leak ing urine for 78 days** which started immediately following cs bco obstruc ted labor for 1 day, sb female, married 1 yr ago post(menarche 1 yr ear lier), not living with husband, no menstruation, drop foot R (grade 4) and L (grade 3), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter /pubic arch 85°, ar pos, cervix mobile **wide open** urethra_euo euo/f 2 cm, f/c 2 cm, i/v 11 cm 149.0 cm
- operation: uvvf-repair

duration: 40 min (**personal supervision**) healing 85% continence 90%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

episiotomy L, transverse incision thru/at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, ballooning of foley ch 18, transverse avw/avw_ cervix adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 10 cm, good anterior elevation, euo/b 2.0 cm normal bladder capacity (longitudinal diameter 10-2.0 = 8 cm) acceptable position of uv-junction **against** middle/caudad third of symphysis

normal-width 2 cm medium-quality urethra_euo in anatomic position



h s s (katsina) female 28 yr 01.06.11

surgeon: dr idris a halliru

assistant: kabir lawal

diagnosis: PIV (3 alive), <u>+</u> 3x2 cm transverse urethrovesicovaginal fistula type **IIAa**, leaking urine for 3 mth which started immediately following obstructed last labor for 2 days, in hospital sb male, married 15 yr ago pre(menarche 4 mth later), not living with husband, no menstruation, drop foot R (grade 4) and L (grade 4), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix mobile euo/f 2 cm, f/c 4 cm, i/v 12 cm

operation: bilateral ureters, uvvf-repair + transverse pcf repair/bilateral fixation

duration: 35 min healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

bilateral ureter catheterization for 20 cm, incision at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit with transverse fascia repair/bilateral fixation, **no** urine thru suture line/euo on rest/cough/ pressure, triple fixation of foley ch 18, transverse avw adaptation by 3x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 11 cm, good anterior eleva tion, euo/b 2 cm

normal bladder capacity (longitudinal diameter 11-2 = 9 cm)

acceptable position of uv-junction **against** middle/caudad third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



h t d (katsina)

katsina mdg anteriolateral trauma R

42 yr

surgeon: dr idris a halliru

assistant: gambo lawal

- diagnosis: PXIV (9 alive), <u>+</u> 2 cm 0 urethrovesicovaginal fistula type I at R, **leaking urine for 76 days** which started immediately following obstructed last labor for 1 day, in hospital sb female, married 30 yr ago pre(menar che 1 yr later), <u>still</u> living with husband, no menstruation, drop foot R (grade 4) and L (grade 4), no rvf, no yankan gishiri, no h/o eclampsia; nor mal ap diameter/pubic arch 85°, ar pos, cervix fixed midline euo/f 5 cm, f/c 1 cm, i/v 12 cm
- operation: catheterization R ureter and vvf-repair

duration:25 minhealing 95%continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

catheterization R ureter for 20 cm, incision at fistula edge, sharp dissection, tension-free transverse bladder closure by single layer of inverting serafit, **no** urine thru suture line/ euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, moderate anterior elevation, euo/b 3 cm

normal bladder capacity (longitudinal diameter 12-3 = 9 cm)

good position of uv-junction **against** middle third of symphysis

normal-width 3 cm good-quality urethra_euo in anatomic position



pt 008+9

katsina mdg anterior + iatrogenic trauma

- h u s (kaduna) female 20 yr 01.06.11
- surgeon: dr said ahmad/dr idris a halliru
- assistant: gambo lawal
- diagnosis: PII (1 alive), **multiple two** <u>+</u> 1 cm 0 urethrovesicovaginal fistula type **IIAa** midline and <u>+</u> 0.5 cm 0 cs-vcvf slightly at R, leaking urine for 3 yr which started immediately following cs bco obstructed last labor of 7days, sb female, married 8 yr ago pre(menarche 1 yr later), not living with hus band, no menstrua tion since, drop foot R (grade 4-5) and L (grade 4-5), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix (?stump?) retracted euo/f 2 cm, f/f 3 cm, f/c 0 cm, i/v 12 cm
- operation: uvvf-repair + cs-vcvf-repair
- duration: 65 min healing 90% continence 90%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru/at uvvf edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, transverse incision thru cs-vcvf, sharp dissection, tension-free transverse bladder closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon transverse avw/cervix adaptation by 2y everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 2 cm

normal bladder capacity (longitudinal diameter 11-2 = 9 cm)

acceptable position of uv-junction **against** middle/caudad third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



pt 010	0 katsina mdg anterior trauma; nb postpoliomyelitis syndrome R leg			vvf 004 leg
a i z (katsina)	female	28 yr	01.06.11
surgeon:	dr said ahmad			
assistant:	gambo lawal			
diagnosis:				owing cs bco last o post(menarche ation, drop foot R clampsia; normal
operation:	complicated uvvf-repair + bilate	ral fascia	fixation	
duration:	60 min	ł	nealing 85%	continence 95%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%		

transverse incision thru/at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit with bilateral fixation of pc fascia, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.5 cm normal bladder capacity (longitudinal diameter 12-2.5 = 9.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position **complicated bco postpoliomyelitis syndrome**



pt 011	katsina mdg	vvf 8073
	fixation sutures thru superior pubic bone periost	

d i g m (rép niger) female 48 yr 02.06.11

surgeon: kees waaldijk

assistant: kabir lawal

diagnosis: PVII (5 alive), cystocele_3° cervix prolapse_rectocele without genuine stress incontinence, something coming out of vagina_leaking urine for 10 yr which started spontaneously following obstructed last labor for 1 day, at home <u>live</u> male, married 35 yr ago post(menarche 3 mth earlier), <u>still</u> living with husband, menopause 5 yr ago, drop foot R (grade 5) and L (grade 5), no vvf/rvf, no yankan gishiri, no eclampsia; normal ap diameter/ wide pubic arch 95°, ar pos, small decubitus ulcer posterior cervix euo/c 9 cm **never** leaking urine **narrow** urethra_euo in anat pos **no** objective stress incontinence (also not after reduction) euo/bw 17 cm, poor elevation, euo/b 1.5 cm, i/v 11 cm 155.0 cm

operation: cervix suspension at L

duration: 30 min (**step-by-step teaching**) healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

small avw incision avw ruga fold with transverse extension up to cervix, sharp dissection to create wound area/surface, paravesical space free, fixation of cervix (with adherent pc fascia) onto L superior pubic bone/pc_ilc_iom/atf/atl by 2x seralon, euo/b 2.4 cm, **no** urine thru euo on rest/cough/pressure, foley ch 18, check on hemostasis; free clear urine flow, euo/bw 17 cm, good elastic anterior elevation at L, slight rotational descent at R, euo/b 2.4 cm (**re-urethralization**) good cervix fixation **increased** bladder capacity (longitudinal diameter 17-2.4 = 14.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position

pt	01	2
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katsina mdg iatrogenic trauma

02.06.11

h y b (rép niger) female 69 yr

assistant: kabir lawal

diagnosis: P0, **mutilated** <u>+</u> 1 cm urethrovesicovaginal fistula type **IIBa**, leaking urine for 20 yr (probably far longer) which started immediately following <u>vankan</u> <u>gishiri by wanzami bco cystocele, native medicine</u>, married 57 yr ago pre(menarche 1 yr later), still living with husband, menopause 25 yr ago, drop foot R (grade 5) and L (grade 5), no rvf; ?ap diameter?normal /pubic arch 85°, ar pos, cervix not identified RE/ streak uterus probably congenital vagina agenesis, abd op + 1x repair (b/r_) **lying/she_wanzami/aska/tissue removed (-ectomy)** euo/f 0 cm, f/v 2 cm, i/v 2.5 cm **ba hanya ko kadan** 166.0 cm

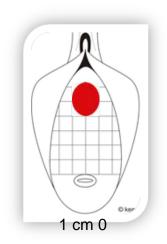
operation: "continent urethra/fascia/avw reconstruction"

duration: 25 min

healing 85% continence 50%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

wide H incision around fistula, sharp dissection, sharp mobilization of (para)urethra tissue, tension-free <u>longitudinal</u> urethra rhaphy/reconstruction over 2.5 cm by single layer of inverting interrupted serafit, bilateral fixation of pc fascia onto paraurethra_euo atf/symphysis by 2x serafit each side, euo/b 2.2 cm, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, avw reconstruction by avw advance ment flap by 2-point fixation onto para_euo atf by 1x everting seralon each side, check on hemostasis; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.2 cm normal bladder capacity (longitudinal diameter 12-2.2 = 10 cm) good position uv-junction **against** middle third symphysis normal-width 2 cm poor-quality urethra_euo in anatomic position the **problem: fibrosis/scar tissue +++**



RR preanesthesia: 160/100 mm Hg 5': 140/90 10': 130/80 postoperation: 130/80

23 yr

surgeon: dr idris ahmed/kees waaldijk

assistant: kabir lawal

- diagnosis: PII (all alive), <u>+</u> 1 cm 0 urethrovesicovaginal fistula type **IIAa** at midline, leaking urine for 11 mth which started immediately following obstructed last labor for 1 day, at home <u>live</u> male, married 10 yr ago pre(menarche 4 mth later), not living with husband, normal menstruation, no (h/o) drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no h/o eclampsia; nor mal ap diameter/pubic arch 85°, ar pos, cervix mobile euo/f 2.5 cm, f/c 2 .5cm, i/v 12 cm
- operation: uvvf-repair + bilateral pcf fixation

duration: 40 min (**personal supervision**) healing 85% continence 90%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

small episiotomy L, transverse incision thru/at fistula edge, sharp dissection, now 2 cm 0 bladder_urethra defect, tension-free transverse bladder/urethra closure by single layer of inverting serafit with bilateral fixation of pc fascia onto paraurethra atf by 1x serafit each side, **no** urine thru suture line/euo on rest/cough/pressure, ballooning of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.0 cm normal bladder capacity (longitudinal diameter 12-2 = 10 cm) acceptable position of uv-junction **against** middle/caudad third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



katsina m	lda		vvf 8076
anteriobilatera	l trauma	r∨f	cath 1333
a)	female	37 yr	31.01.11
dr nasir garba/kees waaldijk			
kabir lawal			
PXI (9 alive), \pm 0.5 cm 0 urethrovesicovaginal fistula midline type IIAb within healed 5x1 cm avw trauma/pcf defect with urethra block, leaking urine for 6 mth which started immediately following obstructed last labor for < 1day, in hospital sb female, married 24 yr ago post(menarche 1 mth partier), still bring with bushand, no menatruation, drep fast P (grade 5)			
	anteriobilatera dr nasir garba/kees waaldijk kabir lawal PXI (9 alive), <u>+</u> 0.5 cm 0 urethro within healed 5x1 cm avw traum urine for 6 mth which started imm for < 1day, in hospital sb female,	dr nasir garba/kees waaldijk kabir lawal PXI (9 alive), <u>+</u> 0.5 cm 0 urethrovesicovagir within healed 5x1 cm avw trauma/pcf defect urine for 6 mth which started immediately fol for < 1day, in hospital sb female, married 24 y	anteriobilateral trauma rvf female 37 yr dr nasir garba/kees waaldijk kabir lawal PXI (9 alive), <u>+</u> 0.5 cm 0 urethrovesicovaginal fistula mid within healed 5x1 cm avw trauma/pcf defect with urethra urine for 6 mth which started immediately following obstru

earlier), <u>still</u> living with husband, no menstruction, drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar slightly pos bilaterally, **no** saddle anesthesia, **no** stool/flatus incontinence, anus closed, cervix mobile, transverse 5x1 cm pcf defect, bilateral atf/atl + pc_ilcm trauma euo/f 2 cm, ab/au 1 cm, f/c 3 cm, i/v 12 cm

operation: 1/2 circumferential uvvf-repair + bilateral pcf refixation

duration: 30 min (**personal supervision**) healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru/at fistula thru avw trauma, sharp dissection, tension-free 1/2 circumferential uvvf-repair by end-to-end vesicourethrostomy by single layer of inverting serafit, transverse repair/bilateral fixation of pc fascia onto paraurethra_euo atf/symphysis by 2x serafit each side, **no** urine thru suture line/euo on rest/cough/pres sure, ballooning of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 2.8 cm normal bladder capacity (longitudinal diameter 11-2.8 = 8 cm) good position of uv-junction **fixed against** middle third of symphysis normal-width 3 cm good-quality urethra_euo in anatomic position



pt 015	katsina mdg total circumferential trauma			vvf 005 rvf
b i y (katsina	ı)	female	30 yr	02.06.11
surgeon:	dr idris a halliru			
assistant:	gambo lawal			
diagnosis:	PIX (4 alive), <u>+</u> 4 cm 0 urethrovesicovaginal fistula with circumferential defect type IIBb , " healing " <u>+</u> 0.5 cm proximal rectovaginal fistula Ia midline fixed to cervix, leaking urine/passing flatus pv and incontinence for 50 days which started immediately following obstructed last labor for 1 days, in hospital sb female, married 16 yr ago post(menarche 1 yr earlier), living with husband, no menstruation, drop foot R (grade 4-5) and L (grade 4-5), no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar neg with saddle anesthesia , anus closed, flatus incontinence , bilateral atf/atl + pc_ilc_iscm loss, cervix mobile euo/f 0.5 cm, f/c 3 cm, ab/au 2 cm, i/v 11 cm 149.0 cm			stula la midli continence ast labor for narche 1 yr ade 4-5) and p diameter/ osed, flatus
operation:	circumferential uvvf-repair + bila	teral pcf refix	ation as first s	tage
duration:	45 min	heal	ing 90% contir	nence 20%
anesthesia:	spinal L4/L5 with 3 ml bupivacai	ne 0.5%		

incision at fistula edge, sharp circumferential dissection, advancement/caudad fixation of anterior bladder onto symphysis/urethra, tension-free circumferential uvvf-repair by end-to-end vesicourethrostomy by single layer of inverting serafit, bilateral fixation of pc fascia onto paraurethra_euo atf/symphysis by 2x serafit each side, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 0.5 cm

normal bladder capacity (longitudinal diameter 12-0.5 = 11.5 cm poor position of uv-junction **fixed against** caudad third of symphysis normal-width 0.5 cm poor-quality urethra_euo in anatomic position



RR preanesthesia: 130/90 mm Hg 5': 130/80 10': 130/80 postoperation: 130/8ß

pt 016	katsina total circumferen			VVF 8077/7945 cath 1303 rvf
r u m (katsin	a)	female	17 yr	03.06.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PI (0 alive), total post IIAb intrinsi urine whilst lying/sitting/standing/ early circumferential repair 22.10 struation, drop foot R (grade 5 ag rvf, no yankan gishiri, no h/o ecla 85°, AR pos, no longer stool_flatu iscm loss R > L, healed proxima open urethra_euo posteriorly pu euo/bw 14 cm, good elevation, e	/walking + no s .10, not living y gainst 4) and L ampsia; norma us incontinenc I pvw/cervix tr lled inside	spontar with hus (grade al AP di e, bilate auma	eous miction after sband, normal men 4 against 2-3), no ameter/pubic arch eral atf/atl + pc_ilc_ euo/c 4 cm
operation:	urethralization by bilateral pcf ref	ixation		
		h a a l'a		

duration:20 min (step-by-step teaching)healing 95% continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

gv/ **no** leakage urine level in accord with respiration

re-episiotomy L, transverse incision thru op scar, sharp dissection, bilateral fixation of pc fascia onto intact paraurethra_euo atf/symphysis by 2x serafit each side with normalization of distal urethra_euo, euo/b 1.4 cm, **no** urine thru euo on rest/cough/pres sure, triple fixation of foley ch 18, transverse avw adap tation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 14 cm, good anterior elevation, euo/b 1.4 cm (**urethralization**)

normal bladder capacity (longitudinal diameter 14-1.4 = 12.5 cm) poor position of uv-junction **fixed against** caudad third of symphysis normal-width 1.5 cm medium-quality urethra_euo in anatomic position it will normalize under physiologic stress

katsina anterior trauma

surgeon: dr sunday eneme adaji/kees waaldijk

assistant: kabir lawal

- diagnosis: PI (alive), retracted <u>+</u> 0.2 cm 0 urethrovesicovaginal fistula type **IIAa** at tip of healed 2.5 cm proximal ^ avw trauma, leaking urine for 4 mth which started immediately following obstructed labor for 5 days, in hospital <u>live</u> male, married 1 yr ago pre(menarche 1 mth later), not living at husband, no menstruation, drop foot R (grade 4) and L (grade 4), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix mobile euo/f 2.5 cm, f/c 2.5 cm, i/v 12 cm
- operation: uvvf-repair

duration: 40 min (**personal supervision**) healing 95% continence 90%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

small episiotomy L, "large" transverse incision thru/at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 2.3 cm normal bladder capacity (longitudinal diameter 13-2.3 = 10.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position



pt 019 katsina vvf 8 total circumferential trauma cath 1				
r a b (jigawa)	female	15 yr	03.06.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PI (0 alive), <u>+</u> 3 cm 0 urethrovesic almost circumferential defect (0.3 lapse, leaking urine of 4 mth that labor of 2 days, in hospital (1 (menarche 1 yr later), not living at (grade 4) and L (grade 4), heal trauma (never tusa pv), no rvf, n ap diameter/wide pubic arch 90	3 cm anterior started imme day) sb fem t husband, no ed 1 cm 0 p o yankan gis	rly intact)/bla diately follow ale, married o menstruation roximal midli shiri, eclamps	dder base pro ving obstructed 3 yr ago pre on, drop foot R ine pvw/cervix sia no; normal

pc_ilcm trauma, transverse 5x2 cm pcf defect, cervix mobile

bilateral ureters, 4/5 circumferential uvvf-repair + bilateral pcf refixation

euo/f 2 cm, f/c 2 cm, i/v 12 cm

30 min (step-by-step teaching)

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

small episiotomy L, bilateral ureter catheterization for 20 cm, transverse incision thru/at fistula edge, sharp 4/5 circumferential dissection, tension-free 4/5 circumferential uvvfrepair by end-to-end vesicourethrostomy by single layer of inverting serafit, bilateral fixation of pc fascia onto paraurethra_euo atf/symphysis by 2x serafit each side, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw/avw_cervix adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.7 cm normal bladder capacity (longitudinal diameter 12-1.7 = 10.5 cm) poor position of uv-junction **fixed against** caudad third of symphysis normal-width 1.5 cm good-quality urethra_euo in anatomic position



operation:

duration:

RR preanesthesia: 120/70 mm Hg 5': 120/70 10': 120/70 postoperation: 120/79

ref

148.0 cm

healing 95% continence 95%

pt 020	katsina mdg anterior trauma			vvf 006
s u m (rép n	iger)	female	33 yr	03.06.11
surgeon:	dr said ahmad			
assistant:	gambo lawal			
diagnosis:	PVI (4 alive), <u>+</u> 1 cm 0 vesicovag for 6 yr which started immediat			•

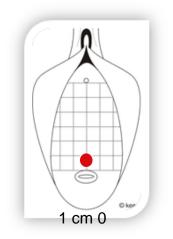
- for 6 yr which started immediately following obstructed <u>4th</u> labor for 2 days, in hospital sb male, married 20 yr ago pre(menarche 3 mth later), <u>still</u> living with husband, normal menstruation, drop foot R (grade 4-5) and L (grade 4-5), no rvf, yankan no gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix mobile euo/f 5 cm, f/c 0.5 cm, i/v 11 cm
- operation: uvvf-repair

duration: 45 min healing 85% continence 90%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru/at fistula edge, sharp dissection, tension-free <u>longitudinal</u> blad der closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/ cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 11 cm, good anteri or elevation, euo/b 2.5 cm

normal bladder capacity (longitudinal diameter 11-2.5 = 8.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm urethra_euo in anatomic position



pt 021	katsina mdg total circumferential trauma + iatrogenic			
b i m (katsina	a)	female	25 yr	03.06.11
surgeon:	dr said ahmad			
assistant:	gambo lawal			
diagnosis:	PVI (3 alive), multiple two	+ 3 cm 0 urethrove	sicovaginal f	istula type IIAb

- with circumferential defect and \pm 1 cm 0 cs-vcvf, \pm 1 cm proximal rectovaginal fistula type **Ib** midline with rectum stricture, leaking urine/pas sing stools pv for 6 mth which started immediately following cs bco obstructed last labor for 2 days, sb male, married 13 yr ago pre(menarche 1 yr later), not living with husband, no menstruation, drop foot R (grade 2-3) and L (grade 4), no yankan gishiri, eclampsia yes; normal ap diameter/ pubic arch 85°, ar pos, "cervix" not identified but fixed/retracted midline euo/f 3 cm, f/f 2 cm, f/c 0 cm, a/f 10 cm, f/"c" 1 cm, i/v 11 cm 151.0 cm
- operation: cs-vcvf-repair first stage + rvf-repair
- duration: 75 min

healing **both** 75% continence

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru/at fistula edge, sharp dissection, tension-free transverse bladder closure by single layer of inverting serafit, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon; euo/bw 12 cm bladder capacity (longitudinal diameter 12-

disruption of rectum stricture, incision at rvf edge, sharp dissection, tension-free trans verse rectum closure by single layer of inverting serafit, transverse pvw adaptation by 2x everting seralon, check on hemostasis

for circum uvvf-repair as second stage



pt 022	ot 022 katsina mdg total circumferential trauma + iatrogenic				
b i m (katsina	a)	female	25 yr	03.06.11	
surgeon:	dr said ahmad				
assistant:	gambo lawal				

- diagnosis: PVI (3 alive), **multiple two** \pm 3 cm 0 urethrovesicovaginal fistula type **IIAb** with circumferential defect and \pm 1 cm 0 cs-vcvf, \pm 1 cm proximal rectovaginal fistula type **Ib** midline with rectum stricture, leaking urine/pas sing stools pv for 6 mth which started immediately following cs bco obstructed last labor for 2 days, sb male, married 13 yr ago pre(menarche 1 yr later), not living with husband, no menstruation, drop foot R (grade 2-3) and L (grade 4), no yankan gishiri, eclampsia yes; normal ap diameter/ pubic arch 85°, ar pos, "cervix" not identified but fixed/retracted midline euo/f 3 cm, f/f 2 cm, f/c 0 cm, a/f 10 cm, f/"c" 1 cm, i/v 11 cm 151.0 cm
- operation: cs-vcvf-repair first stage + rvf-repair
- duration: 75 min

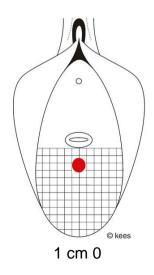
healing **both** 75% continence **s** 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru/at fistula edge, sharp dissection, tension-free transverse bladder closure by single layer of inverting serafit, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon; euo/bw 12 cm bladder capacity (longitudinal diameter 12-

blunt disruption of rectum stricture, incision at rvf edge, sharp dissection, tension-free transverse rectum closure by single layer of inverting serafit, transverse pvw adaptation by 2x everting seralon, check on hemostasis

for circum uvvf-repair as second stage



pt 023 pt	katsina mdg vv second obstetric fistula vvf anterior trauma			
a m b (kano))	female	31 yr	03.06.11
surgeon:	dr said ahmad/dr abdulmajid			
assistant:	gambo lawal			
diagnosis:	PV (0 alive), <u>+</u> 0.5 cm 0 vesicocervicovaginal fistula midline I, leakin urine for 19 mth which started immediately following obstructed last labor for < 1 day, <u>live</u> female who <u>died</u> months later, married 18 yr ago pre(me arche 1 mth later), <u>still</u> living at husband, normal menstruation, no (h/c drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no h/c eclampsia; normal ap diameter/pubic arch 85°, ar pos, anterior cervi loss/retracted operated 1x (kano) + successful cs-vcvf-repair delivery euo/f 6 cm, f/"c" 0 cm, i/v 12 cm cystocele ++ 145.0 cm			
operation:	vcvf-repair			
duration:	50 min	heal	ing 85%	continence 90%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru/at fistula edge, sharp dissection, tension-free bladder closure by 2x inverting serafit purse string, **no** urine thru suture line/euo on rest/cough/pressure, fixation foley ch 18, transverse avw/cervix adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, poor anterior elevation, euo/b 1.5 cm normal bladder capacity (longitudinal diameter 12-1.5 = 10.5 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 1.5 cm good-quality urethra_euo in anatomic position

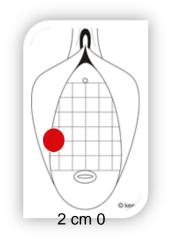


katsina mdg anteriolateral R trauma

- n u d (rép niger) female 33 yr 03.06.11
- surgeon: dr idris a halliru
- assistant: gambo lawal
- diagnosis: PVIII (6 alive), **mutilated** <u>+</u> 2 cm 0 urethrovesicovaginal fistula type **IIAa** at R, leaking urine for 2 yr which started immediately following cs bco obstructed last labor for 7 days, in hospital (2 days) sb male, married 20 yr ago post(menarche 3 mth earlier), <u>still</u> living with husband, normal menstruation, drop foot R (grade 4) and L (grade 4), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix fixed towards i spine R, operated 2x (zinder) euo/f 3 cm, f/c 2 cm, i/v 12 cm
- operation: complicated uvvf-repair
- duration: 25 min healing 90% continence 75%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

incision at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/ pressure, fixation foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2 cm normal bladder capacity (longitudinal diameter 12-2 = 10 cm) acceptable position of uv-junction **against** middle/caudad third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



pt 025 katsina rvf 1022 cut-thru + iatrogenic trauma; superficially it looks normal sphincter ends at 10 & 14 hr with anorectum mucosa prolapse

I a k (niger state)

female 19 yr 04.06.11

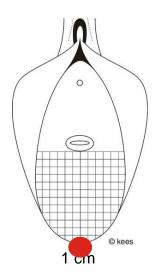
- surgeon: kees waaldijk
- assistant: kabir lawal
- diagnosis: PII (all alive), **mutilated** sphincter ani rupture with 1 cm <u>longitudinal</u> ano rectum trauma type **IIb**, stool_flatus incontinence for 7 mth which started immediately following obstructed last labor of 7 days, at home <u>live</u> female, married 6 yr ago pre(menarche 2 mth later), <u>still</u> living with husband, nor mal menstruation, no (h/o) drop foot R (grade 5) and L (grade 5), no vvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/**wide** pubic arch 95°, ar pos, operated 3x (2x zurmi + 1x b/r_acquire) a/f 0 cm, i/v 12 cm never leaking urine 146.0 cm

operation: anorectum closure and sphincter ani_perineal body reconstruction

duration: 30 min (**step-by-step teaching**) healing 85% continence 95%

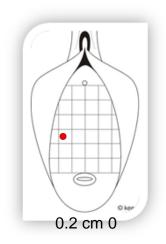
anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

<u>longitudinal</u> incision/median episiotomy thru **mutilated** perineum (introitus stenosis) up to anorectum edge, scar tissue ++, minimal dissection with freshening of sphincter ani ends, <u>longitudinal</u> anorectum closure with adaptation_rhaphy of internal sphincter over 1 cm up to anocutaneous junction (with repositioning of anterior anus) by 1x inverting serafit, inner ring of external sphincter adapted, end-to-end external sphincter ani recon struction by 3x serafit, perineal body repair with (in)direct re-union of transversus perinei muscles and (in)direct posterior re-union of bulbocavernosus muscles by 3x serafit, perineum well adapted with anus in anatomic position, check on hemostasis it looks normal now: **no longer anorectum mucosa prolapse** foley ch 18; free urine flow, euo/bw 13 cm, good elevation, euo/b 2 cm



pt 026 pt	katsina vvf 804 total circumferential defect vvf 254 third now stone-induced fistula				
m s b (bauch	ni)	female	54 yr	04.06.11	
surgeon:	kees waaldijk				
assistant:	kabir lawal				
diagnosis:	PXI (6 alive), very extensive \pm 0.1 cm 0 urethrovesicovaginal fistula type IIAb at R, 3x1x1 cm smooth-surface bladder stone, urine for 1 yr which started after period of cough/fever/lowere abdominal pain, married 41 yr ago post(menarche 1 mth earlier), <u>still</u> living with husband, menopause 8 yr ago, drop foot R (grade 5) and L (grade 5), no rvf; after repair she deve loped another obstetric fistula which was repaired successfully (b/r_ja) euo/f 1.5 2 cm, f/c 1 cm mutilated euo 149.5 cm			rine for 1 yr which pain, married 41 yr and, menopause 8 er repair she deve ccessfully (b/r_ja)	
operation:	transurethral stone removal as	first stage			
duration:	10 min	heali	ng	continence	
anesthesia:	spinal L4/L5 with 3 ml bupivacaine 0.5%				

easy gentle dilatation thru H12, transurethral removal of 3x1x1 cm bladder stone in one piece though it was crushed in the end, transurethral flushing out debris from bladder, foley ch 18, vagina pack compressing urethra against symphysis bco oozing; free clear urine flow, euo/bw 14 cm, good anterior elevation, euo/b 1.5 cm normal bladder capacity (longitudinal diameter 14-1.5 = 12.5 cm) poor position of uv-junction **fixed against** caudad third of symphysis for continent urethra reconstruction as **second stage** next week



RR preanesthesia: 200/120 mm Hg 5': 180/100 10': 170/100 postoperation: 160/90

pt 027	katsina	à		vvf 8081/8025	
pt	kano extensive circumferential + mu	tilating iatroc	ienic tra	vvf 4576	
			,		
a ar k (niger	state)	female	20 yr	04.06.11	
surgeon:	kees waaldijk				
assistant:	kabir lawal				
diagnosis:	PI, severely mutilated extensive <u>+</u> 6 cm 0 urethrovesicovaginal fist type IIBb with circumferential defect, leaking urine for 6 yr which star immediately following obstructed labor for 2 days, at home sb male, n ried 8 yr ago pre(menarche 1 yr later), not living with husband, no m struation, bilateral drop foot for 2 mth R (grade 5) and L (grade 5), no no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 8 ar pos, major bilateral atf/atl + pc_io_ilc_iscm loss + ssl_pm trauma + stricture, "operated" 2x (kontagora), 2° cervix prolapse obesity mutilated euo/f 1 cm, f/c 2 cm, ab/au 4 cm, i/v 10 cm				
operation:	ps-like uvvf-"repair"			last resort final	
duration	EQ min	haali	ng 600/	continence 100/	

duration: 50 min healing 60% continence 10%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

3 cm 0 bladder opening fixed to cephalad symphysis with 2° cervix prolapse episiotomy L with stricture severing, incision at fistula edge, **sharp** dissection, **ps-like** uvvf-repair by 10x everting seralon, triple fixation of foley ch 18 with transverse avw adaptation, check on hemostasis, episiotomy closure; free urine flow, euo/bw 12 cm, good elevation, euo/b 1.1 cm on flushing with water **no** leaking normal bladder capacity (longitudinal diameter 12-1.1 = 11 cm, large circ defect) poor position "uv-junction" **against** caudad third of symphysis normal-width 1 cm **mutilated** urethra_euo in anatomic position looks now "normal" it went fine though **highly complicated** without any complication



pt 028	
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katsina mdg total circular trauma

04.06.11

r m d (katsina) female 16 yr

surgeon: dr idris a halliru

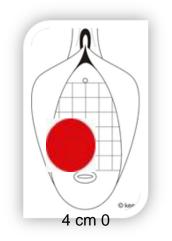
assistant: gambo lawal

- diagnosis: PI, ± 4 cm 0 urethrovesicovaginal fistula type **IIAa** midlineR, leaking urine for 6 mth which started immediately following obstructed labor for 2 days, in hospital sb male, married 2 yr ago post(menarche 6 mth earlier), not living with husband, normal menstruation, drop foot R (grade 2) with contracture of 90/0° dorsiflexion and L (grade 3-4), no rvf, no yankan gishiri, eclampsia yes; normal ap diameter/pubic arch 85°, ar pos, cervix fixed midline, severe vagina stenosis/moderate shortening euo/f 2.5 cm, f/c 0 cm, i/v 7 cm
- operation: catheterization R ureter + uvvf-repair
- duration: 50 min healing 85% continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

bilateral episiotomy with severing of stenosis, only R ureter identified/catheterized for 20 cm, incision at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/ pressure, triple fixation of foley ch 18, transverse avw approximation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.5 cm

normal bladder capacity (longitudinal diameter 12-2.5 = 9.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position



r a d (rép niger)	female	22 yr	04.06.11

surgeon: dr idris a halliru

assistant: gambo lawal

- diagnosis: PIII (0 alive), **mutilated** <u>+</u> 1 cm 0 urethrovesicovaginal fistula type **IIAa** at mid.line, leaking urine for 3 yr which started immediately following last obstructed labor for 3 days, at home sb female, married 10 yr ago pre (menarche 1 yr later), not living with husband, normal menstruation, bilate ral drop foot for 2 mth R (grade 5) and L (grade 5), no rvf, no yankan gishi ri, eclampsia no; normal ap diameter/narrow pubic arch 75°, ar pos, cervix "mobile", 5x 1 cm transverse pcf defect, operated 2x (damagaram) euo/f 3 cm, f/c 3 cm, i/v 11 cm
- operation: uvvf-repair + transverse pcf repair
- duration: 40 min healing 85% continence 90%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru fistula/previous repair scar, sharp dissection, tension-free transverse bladder/urethra closure with transverse pc fascia repair by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 2.7 cm normal bladder capacity (longitudinal diameter 13-2.7 = 10.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position



04.06.11

20 yr

u h j r (rép niger) female

surgeon: dr said ahmad

assistant: kabir lawal

- diagnosis: PIII (0 alive), <u>+</u> 1.5 cm 0 vesicovaginal fistula type I at R, leaking urine for 1 yrwhich started immediately following obstructed last labor for 1 day, in hospital sb female, married 8 yr ago pre(menarche 1 yr later), not living with husband, normal menstruation, drop foot R for 1 mth (grade 5) and L (grade 5), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter /pubic arch 85°, ar pos, cervix mobile, operated 1x (b/r_id) euo/f 5 cm, f/c 1 cm, i/v 11 cm
- operation: vvf-repair

duration: 60 min healing 85% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

episiotomy R, incision at fistula edge, sharp dissection, tension-free <u>oblique</u> bladder closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/ pressure, triple fixation of foley ch 18, <u>oblique</u> avw adaptation by 3x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior eleva tion, euo/b 2.1 cm

normal bladder capacity (longitudinal diameter 12-2.1 = 10 cm) acceptable position of uv-junction **against** middle/caudad third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



pt 031 katsina mdg vvf 013 anterior trauma				
m m t/k (kat	sina)	female	29 yr	04.06.11
surgeon:	dr said ahmad			
assistant:	gambo lawal			
diagnosis:	PVII (4 alive), <u>+</u> 1.5 cm 0 urethro ing urine for 49 days which star labor for 1 day, in hospital sb ferr mth earlier), <u>still</u> living with husba 4) and L (grade 4), no rvf, no yan ap diameter/narrow pubic arch 7 euo/f 5 cm, f/c 1 cm, i/v 10 cm	ted immediat ale, married Ind, no mens Ikan gishiri, e	ely following o 15 yr ago pos truation, drop clampsia deliv	bstructed last t(menarche 8 foot R (grade very I; normal

- operation: vvf-repair
- duration: 90 min healing 90% continence 95%
- anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

incision at fistula edge, sharp dissection, tension-free transverse bladder closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 2.5 cm normal bladder capacity (longitudinal diameter 11-2.5 = 8.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position



pt 032	katsina	rvf 1023
	cut-thru trauma with borderline pubic arch 80°	

h a s d (katsina)

female

surgeon: kees waaldijk

assistant: kabir lawal

diagnosis: PX (all alive), sphincter ani rupture with <u>+</u> 1.5 cm <u>longitudinal</u> anorectum trauma **IIb**, stool_flatus incontinence for 10 yr which started immediately following <u>7th</u> labor for 1 day, at home <u>live</u> female, married 30 yr ago post(menarche 4 mth earlier), <u>still</u> living with husband, normal menstru ation, no h/o drop foot R (grade 5) and L (grade 5), no vvf, no yankan gish iri, no h/o eclampsia; normal ap diameter/borderline pubic arch 80°, ar pos, operated 2x (daura), defective perineum a/f 0 cm, i/v 12 cm never leaking urine 152.0 cm

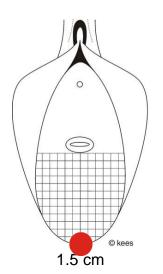
operation: anorectum closure and sphincter ani_perineal body reconstruction

duration: 25 min (**step-by-step teaching**) healing 90% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

small longitudinal "episiotomy" with incision at pvw edge with freshening of sphincter ani ends, minimal sharp dissection, <u>longitudinal</u> anorectum closure with adaptation_rhaphy of internal sphincter over 2 cm up to anocutaneous junction (with repositioning of anterl or anus) by double layer of inverting interrupted/continuous serafit, inner ring of external sphincter adapted, end-to-end external sphincter ani reconstruction by 2x serafit, perineal body repair with (in)direct re-union of transversus perinei muscles and (in)direct posterior re-union of bulbocavernosus muscles by 2x serafit, perineum well adapted with anus in anatomic position, check on hemostasis

foley ch 18; free urine flow, euo/bw 12 cm, moderate elevation, euo/b 1.5 cm



pt 033	katsina anterior trauma; second obstetric fistula			
h h k (katsir	a)	female	31 yr	05.06.11
surgeon:	dr sadiya nasir/kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PVIII (5 alive), minute < 0.1 cr leaking urine for 10 mth whic	•	• •	• •

leaking urine for 10 mth which started immediately following obstructed last labor for < 1 day, at home <u>live</u> male, married 18 yr ago pre(menarche 5 mth later), not living at husband, normal menstruation, no h/o drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix mobile euo/f 5 cm, f/c 1.5 cm, i/v 12 cm 148.5 cm

operation: vvf-repair

duration: 40 min (**personal supervision**) healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

fistula demonstrated by gv

small episiotomy R, "large" incision at fistula edge, sharp dissection, excision of scar tissue +, now 0.3 cm 0 bladder defect, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, poor anterior elevation and euo/b 2.1 cm

normal bladder capacity (longitudinal diameter 12-2.1 = 10 cm) good position of uv-junction **against** middle third of symphysis normal-width 2 cm medium-quality urethra_euo in anatomic position



RR preanesthesia: mm Hg 5': 10': postoperation:

pt 034	katsina total circumferential trauma			vvf 8083/7751 rvf	
f n d (katsina)		female	16 yr	05.06.11	
surgeon:	kees waaldijk				
assistant:	kabir lawal				
diagnosis:	PI (0 alive), residual <u>+</u> 0.5 cm 0 urethrovesicovaginal fistula type L lungu following circ repair 3.2.10, not living with husband, no menstruation since drop foot R (grade 3) and L (grade 4), healed 0.5 cm 0 proximal midline pvw_cervix trauma (tusa pv for 1 mth), no rvf; normal ap diameter/pubic arch 85°, ar pos, bilateral atf/atl + pc_ilc_iscm loss + ssl_pm trauma, moderate stenosis/shortening, cervix fixed midline euo/f 1.5 cm, f/c 2 cm, i/v 7 cm 148.0 cm				
operation:	uvvf-repair + pcf repair/bilateral f	ixation			
duration:	40 min	healing	g 85%	continence 85%	
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%			

re-episiotomy, large transverse incision thru fistula/previous op scar, sharp dissection, very poor tissue quality with 5x1.5 cm transverse pcf defect, tension-free transverse bladder/urethra closure by single layer of inverting serafit with transverse repair/bilateral fixation of pc fascia, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.7 cm normal bladder capacity (longitudinal diameter 12-1.7 = 10.5 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 1.5 cm medium-quality urethra_euo in anatomic position the **problem:** very poor tissue quality at least pcf repaired



z h b (rép niger)

female

18 yr

surgeon: kees waaldijk

assistant: kabir lawal

diagnosis: PI (0 alive), total urine intrinsic-stress incontinence grade III, leaking urine whilst lying/sitting/standing/walking & **no** spontaneous miction following cir repair 13.11.08 and incontinence "surgery" 21.4.10 (b/r_aw), <u>still</u> living with husband, normal menstruation, drop foot R (grade 5) and L (grade 4); normal AP diameter/wide pubic arch 90°, AR pos, bilateral atf/atl (para urethra intact) + pc_ilc_ iscm loss, ssl_pm trauma at R, cervix fixed towards R ischiac spine, proximal lpl stricture **open** urethra_euo pulled posteriorly inside euo/bw 14 cm, good elevation, euo/b 1.4 cm, i/v 14 cm 150.0 cm

operation: urethralization by bilateral pcf fixation

duration: 30 min (**step-by-step teaching**) healing 95% continence 90%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

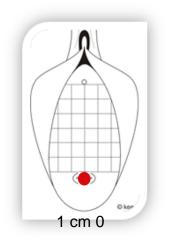
gv/ **no** leakage but urine level in accord with respiration

re-episiotomy L with severing of stricture, transverse incision at 2 cm from euo thru repair scar, bilateral fixation of thin proximal pc fascia onto paraurethra_euo atf/symphy sis by 2x serafit each side (with normalization of euo), euo/b 2.2 cm, **no** urine thru euo on rest/cough/pressure, triple fixation of FOLEY Ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, episiotomy closure; free urine flow and euo/bw 14 cm, good anterior elevation, euo/b 2.2 cm

normal bladder capacity (longitudinal diameter 14-2.2 = 12 cm) good position of UV-junction **fixed against** middle third of symphysis normal-width 2.2 cm good-quality urethra_euo in anatomic position

pt 036	ot 036 katsina mdg vvf 014 iatrogenic trauma					
m i k (katsina	a)	female	31 yr	05.06.11		
surgeon:	dr idris a halliru					
assistant:	gambo lawal					
diagnosis:	S: PVIII (4 alive), \pm 1 cm 0 sth-cs-vesicocervicovaginal fistula type I midline, leaking urine for 3 mth which started immediately following sth-cs (with pat consent) bco obstructed last labor for 1 day, sb male, married 20 yr ago pre(menarche 2 mth later), <u>still</u> living with husband, no menstruation, no h/o drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix remnant retracted midline high up, obesity ++++ euo/f 10 cm, f/c 0 cm, i/v 16 cm 154.0 cm					
operation:	assessment					
duration:	10 min	heal	ing	continence		
anesthesia:	spinal L4/L5 with 3 ml bupivacair	าе 0.5%				
	···· (* ···)/··· (···) [] ··· ··· ··· ···		1 1 .			

since everything fixed/retracted high up, poor operating table and severe obesity pat has to slim down first tca 6-8 mth for **proximal colpocleisis**



b s k (katsina) female 18 yr 05.06.11

surgeon: dr idris a halliru

assistant: gambo lawal

- diagnosis: PI (0 alive), post **IIAa** total urine intrinsic_stress incontinence grade III, leaking whilst lying/sitting/standing/walking + no spontaneous miction fol lowing successful uvvf-repair 3.1.11 (b/r-id), leaking for 2 yr which started immediately following obstructed labor for 3 days, at home sb male, married 4 yr ago post(menarche 1 yr earlier), not living with husband, normal menstruation, drop foot R (grade 3) and L (grade 4), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 8i5°, ar pos, cervix mobile euo/bw 12 cm, good elevation, euo/b 1.5 cm, i/v 11 cm 156.0 cm
- operation: bilateral pcf fixation

duration: 30 min

healing 95% continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision at 1.5 cm from euo thru repair scar, sharp dissection, bilateral fixation of pc fascia onto paraurethra_euo atf by 2x serafit each side, euo/b 2.5 cm, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transver se avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.5 cm

normal bladder capacity (longitudinal diameter 12-2.5 = 9.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position

pt 038	
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katsina mdg anterior trauma

a i m (katsina) female 27 yr 05.06.11 dr idris a halliru surgeon: assistant: gambo lawal diagnosis: PVI (2 alive), + 4x2 cm transverse urethrovesicovaginal fistula type **IIAa** midline, leaking urine for 8 mth which started immediately following cs bco obstructed last labor for 2 days, sb female, married 13 yr ago post (menarche 1 yr earlier), not living with husband, normal menstruation, drop foot R (grade 4-5) and L (grade 4-5), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix fixed midline transverse 5x2 cm pcf defect euo/f 1.5 cm, f/c 4 cm, i/v 12 cm 160.0 cm

operation: uvvf-repair + bilateral pcf fixation

healing 85° duration: 45 min

continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru/at fistula edge, sharp dissection, tension-free transverse blad der/urethra closure by single layer of inverting serafit with bilateral fixation of pc fascia onto paraurethra euo atf by 2x serafit each side, no urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, good anterior ele vation. euo/b 2.0 cm

normal bladder capacity (longitudinal diameter 12-2.0 = 10 cm) acceptable position of uv-junction against middle/caudad third of symphysis normal-width 2 cm good-quality urethra euo in anatomic position



pt 039	katsina anterior t	•		vvf 039
z a i (kaduna	a)	female	32 yr	05.06.11
surgeon:	dr idris halliru			
assistant:	gambo lawal			
diagnosis:	PVII (0 alive), \pm 2 cm 0 ureth urine for 17 yr which started in for 3 days, at home sh female	nmediately foll	owing obstrue	cted <u>first</u> labor

urine for 17 yr which started immediately following obstructed <u>first</u> labor for 3 days, at home sb female, married 20 yr ago pre(menarche 1 yr later) <u>still</u> living with husband, normal menstruation, bilateral drop foot for 1 mth R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix fixed midline, operated 1x (ikara), transverse 4x2 cm fascia defect euo/f 1.5 cm, f/c 3 cm, i/v 12 cm

- operation: uvvf-repair + transverse fascia repair
- duration: 40 min healing 90% continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru/at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure with transverse pc fascia repair by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, ballooning of foley ch 18, transverse avw adaptation by 3x everting seralon, check on hemostasis; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 1.4 cm normal bladder capacity (longitudinal diameter 11-1.4 = 9.5 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 1.5 cm medium-quality urethra_euo in anatomic position



RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

katsina mdg fixation sutures thru superior pubic bone periost looks like euo tampered with (besides caustics)

a u w (katsina) female 47 yr 06.06.11

- surgeon: kees waaldijk
- assistant: kabir lawal
- diagnosis: PIX (8 alive), cystocele_3° cervix prolapse_rectocele without genuine stress incontinence, something coming out of vagina for 10 mth which started spontaneously, married 35 yr ago pre(menarche 1 yr later), <u>still</u> liv ing at husband, normal menstruation, no vvf/rvf, no yankan gishiri; normal ap diameter/**wide** pubic arch 95°, ar pos, decubitus ulcer anterior large cervix, rather short pvw, **caustics** applied euo/c 8 cm **never** leaking urine "**erosive**" urethra_euo in anat pos objective stress incontinence <u>+</u> after reduction only euo/bw 18 cm, poor elevation, euo/b 0.4 cm 164.0 cm
- operation: cervix suspension at L

duration: 15 min (**step-by-step teaching**) healing 95% continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

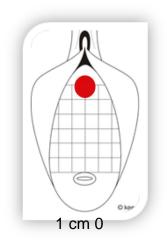
small avw incision avw ruga fold with transverse extension up to cervix, sharp dissection to create wound area/surface, paravesical space free, fixation of cervix (with adherent pc fascia) onto L superior pubic bone/pc_ilc_iom/atf/atl by 2x seralon, euo/b 1.1 cm, **no** urine thru euo on rest/cough/pressure but <u>+</u> after reduction at R, foley ch 18, check on hemostasis; free clear urine flow, euo/bw 18 cm, good elastic anterior elevation at L, rotational descent at R, euo/b 1.1 cm (**re-urethralization**) good cervix fixation **increased** bladder capacity (longitudinal diameter 18-1.1 = 17 cm) poor position of uv-junction **against** caudad third of symphysis "normal-width" 1 cm good-quality urethra_euo in anatomic position since pat: **never** leaking urine nothing further done just wait & see

RR preanesthesia: 180/110 mm Hg 5': 180/100 10': 170/100 postoperation: 150/90

pt 041 katsina mdg vvf 80 total circumferential trauma				
s s k m (katsina) female 31 yr				06.06.11
surgeon:	dr sunday eneme adaji/kees waa	ıldijk		
assistant:	kabir lawal			
diagnosis:	ferential defect within 5x2 cm transverse avw trauma/pcf defect, leaking urine for 4 mth which started immediately following obstructed last labor for 3 days, in hospital sb male, married 18 yr ago post(menarche 2 mth earlier), <u>still</u> living with husband, normal menstruation, drop foot R (grade 4) and L (grade 4), no rvf, no yankan gishiri, no eclampsia; normal ap dia meter/borderline pubic arch 80°, ar pos, bilateral atf/atl + pc_ilc_iscm loss, cervix mobile, cystocele +, lpl stricture			lefect, leaking cted last labor narche 2 mth foot R (grade normal ap dia
operation:	uvvf-repair + bilateral pcf refixation	on		
duration:	45 min (personal supervision)	heali	ng 95% con	tinence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

episiotomy L with severing of stricture, transverse incision thru fistula/avw trauma, sharp dissection, tension-free transverse uvvf-repair by single layer of inverting serafit, with transverse pcf repair/bilateral fixation onto paraurethra_euo atf/symphysis by 2x serafit each side, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, skin closu re; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.0 cm normal bladder capacity (longitudinal diameter 12-2.0 = 10 cm) acceptable position of uv-junction **fixed against** middle/caudad third of symphysis normal-width 1 cm medium-quality urethra_euo in anatomic position



RR preanesthesia: 120/80 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 042	
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katsina total circumferential trauma

z i b k (katsina) female 16 yr 06.06.11

surgeon: dr idris ahmed/kees waaldijk

assistant: kabir lawal

diagnosis: PI, <u>+</u> 1 cm 0 urethrovesicovaginal fistula type **IIAa** with **b** characteristics midline within 5x2 cm pcf defect, **leaking urine for 39 days** which started immediately following obstructed labor for 2 days, in hospital sb male, married 3 yr ago pre(menarche 2 mth later), not living with husband, no menstruation, drop foot R (grade 4) and L (grade 4), <u>+</u> 2.5 cm <u>longitudinal</u> proximal pvw scar/posterior cervix (**never** tusa pv), no rvf, no yankan gish iri, no eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix fixed towards i spine R, bilateral trauma atf/atl + pc_ilcm + ssl trauma at R euo/f 2.5 cm, f/c 4 cm, i/v 12 cm

operation: uvvf-repair + transverse pcf repair

duration: 45 min (**personal supervision**) healing 95% continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

small episiotomy L, transverse incision thru fistula/pcf defect, sharp dissection, inflammation +, tension-free transverse bladder/urethra closure by single layer of inverting serafit with transverse pc fascia repair, **no** urine thru suture line/euo on rest/ cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anter ior elevation, euo/b 1.9 cm

normal bladder capacity (longitudinal diameter 12-1.9 = 10 cm)

acceptable position of uv-junction **against** middle/caudad third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 140/80 mm Hg 5': 130/80 10': 120/70 postoperation: 120/70

pt 043	katsina congenital; either cyst skene g photographic doc	land R or ed	topic ur	vvf 8088/8008 eter
s m a c		female	13 yr	06.06.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	P0, now only leaking urine <u>+</u> whilst sitting (not at night and not whilst lying/standing/walking) + spontaneous miction for 13 yr since she was born, never married, menarche 3 mth ago, normal menstru ation, drop foot R (grade 5) and L (grade 5), no vvf/rvf, no yankan gishiri; normal ap diame ter/pubic arch 85°, ar pos objective stress incontinence ++ longitudinal 3x1.5 cm cystic swelling midline/R between avw/pc fascia with small distal opening euo/bw 12 cm, good elevation, euo/b.1.1 cm, i/v 11 cm euo/cys 1 cm, cys/c 2 cm			
operation:	assessment by methylene blue in	v and gv into	bladder	
duration:	30 min	heal	ing	continence
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%		

small opening at 2 cm from euo on distal tip of cystic swelling from which clear fluid; on probing with small sound no incoming "ureter" found
5 ml methylene blue iv now slightly colored fluid from that opening
150 ml gv into bladder for 5 min: no gv from that opening
since it is still not clear (but suspicious of ectopic ureter) the best we can do is:

first iv urography

luckily we have not done anything



RR preanesthesia: 120/70 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70 pt 044

katsina mdg anterior + iatrogenic trauma + R posterior one fistula that specific one after cs

healing 85% continence 95%

06.06.11

h a g (bauchi) female 27 yr

- surgeon: dr idris a halliru
- assistant: gambo lawal
- diagnosis: PVI (3 alive), urethra block and <u>+</u> 0.5 cm tah-cs-vcvf at L following uvvfrepair 23.1.11 as **first stage**, leaking urine for 3 mth which started immediately following tah-cs (pat informed) bco obstructed last labor for 1 day, SB male, married 15 yr ago pre(menarche 1 yr later), not living with husband, no menstruation, drop foot R (grade 5) and L (grade 4-5), no rvf, no yankan gishiri, no h/o eclampsia; normal AP diameter/pu bic arch 85°, AR pos, cervix-remnants fixed to i spine R, ssl_pm trauma R euo/f 5 cm, f/"c" 0 cm, i/v 12 cm
- operation: tah-cs-vcvf-repair as second stage
- duration: 30 min

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

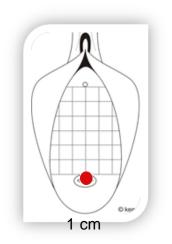
deblocking uv-junction and gradual dilatation thru H12, transverse incision thru fistula, sharp dissection, transverse bladder closure by single layer of inverting serafit, triple fixation of foley ch 18, transverse avw/pvw adaptation by 3x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.4 cm normal bladder capacity (longitudinal diameter 12-2.4 = 9.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm medium-quality urethra_euo in anatomic position



RR preanesthesia: 170/120 mm Hg 5': 160/100 10': 150/90 postoperation: 150/80

pt 045				vvf 018 cath 1345
s a d (katsina	a)	female	31 yr	06.06.11
surgeon:	dr idris a halliru			
assistant:	gambo lawal			
diagnosis:	PX (2 alive), <u>+</u> 1 cm cs-vesicoce mth which started immediately for 1 day, sb male, married 18 yr age with husband, no menstruation, n no rvf, no yankan gishiri, no ecla 85°, ar pos, cervix fixed midline euo/f 8 cm, f/c 0 cm	llowing cs bco o pre(menarch o drop foot R (ampsia; norma	obstruct ne 7 day grade 5 Il ap dia	ed last labor for < s later), not living) and L (grade 5), meter/pubic arch
operation:	catheterization L ureter + cs-vcvf	-repair		
duration:	45 min	healin	g 95%	continence 95%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%		

only L ureter identified/catheterized for 20 cm, transverse incision thru fistula, sharp dissection, tension-free transverse bladder closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transver se avw/cervix adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 14 cm, good anterior elevation, euo/b 2.5 cm normal bladder capacity (longitudinal diameter 14-2.5 = 11.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 140/90 mm Hg 5': 130/80 10': 120/70 postoperation: 120/70

katsina mdg anterior + iatrogenic trauma

1

a i k/r b (katsina)	female	20 yr	06.06.12

surgeon: dr idris a halliru

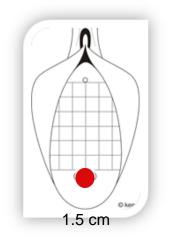
assistant: gambo lawal

- diagnosis: PII (all alive), <u>+</u> 1.5 cm 0 tah-cs-vesicocervicovaginal fistula type I midline, leaking urine for 43 days which started immediately following tah-cs bco obstructed last labor for 2 days, <u>live</u> male, married 4 yr ago post(menar che 3 yr earlier), not living with husband, no menstruation, drop foot R (grade 4) and L (grade 3), no rvf, no yankan gishiri, eclampsia yes; nor mal ap diameter/pubic arch 85°, ar pos, "cervix" fixed euo/f 6 cm, f/"c" 0 cm, i/v 12 cm
- operation: tah-cs-vcvf-repair

duration: 40 min healing 95% continence 90%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

bimanual examination: no uterus/cervix identified, transverse incision thru/at fistula edge, sharp dissection, tension-free transverse bladder closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw/pvw adaptation by 2x everting seralon, check on hemo stasis; free urine flow, euo/bw 16 cm, good anterior elevation, euo/b 3.0 cm normal bladder capacity (longitudinal diameter 16-3 = 13 cm) good position of uv-junction **against** middle third of symphysis normal-width 3 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 120/70 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 047

w i d (katsina)	female	15 yr	06.06.11

surgeon: dr idris a halliru

assistant: gambo lawal

diagnosis: PI (0 alive), post **IIAa** total urine intrinsic_stress incontinence grade III, leaking urine whilst lying/sitting/standing/walking/no spontaneous miction for 8 mth which started immediately following cs bco obstructed labor for 1 day, sb female, married 2 yr ago post(menarche 2 mth earlier), not with husband, normal menstruation, bilateral foot drop for 1 mth R (grade 5) and L (grade 5), no rvf no yankan gishiri, eclampsia yes; normal ap diame ter/pubic arch 85°, ar pos, cervix fixed midline, operated 1x (funtua) euo/c 4 cm **open** urethra_euo posteriorly drawn inside euo/bw 14 cm, good elevation, euo/b 1.0 cm 146.5 cm

operation: paraurethra_euo fixation of pc fascia

duration: 25 min

healing 95% continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

100 ml gv: **no** leakage urine level in accord with respiration

transverse incision at 1.5 cm from euo thru repair scar, sharp dissection, scar tissue ++, bilateral fixation of poor-quality scarred proximal pc fascia onto para-euo symphysis by 2x serafit each side with urethra_euo repositioning/stabilization and fascia tightening, now euo/b 2.7 cm, **no** urine thru euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon; free urine flow, euo/bw 14 cm, good elastic anterior elevation, euo/b 2.7 cm (**urethralization_compression**) normal bladder capacity (longitudinal diameter 14-2.7 = 11.5 cm) good position of uv-junction **against** third of symphysis good fascia plate good-quality pcm

normal-width 2.5 cm medium-quality urethra_euo in anatomic position the **problem: scar tissue ++**

h a y i (katsina)

pt 048

- surgeon: kees waaldijk
- assistant: kabir lawal
- diagnosis: PVI (3 alive), cystocele_total 3° cervix prolapse_rectocele without genuine stress incontinence, something coming out of vagina for 3 yr that started spontaneously following last labor of 1 day, at home <u>live</u> male, married 25 yr ago pre(menarche 2 yr later), <u>still</u> with husband, normal menstruation, drop foot R (grade 5) and L (grade 5), no vvf/rvf, no yankan gishiri, no eclampsia; normal ap diameter/**wide** pubic arch 95°, ar pos, no decubi tus ulcer cervix **no** objective stress incontinence (also not after reduction) euo/c 8 cm **never** leaking urine **narrow** urethra_euo in anat pos euo/bw 18 cm, poor elevation, euo/b 1.5 cm
- operation: cervix suspension at L

duration: 15 min (**step-by-step teaching**) healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

small avw incision avw ruga fold with transverse extension up to cervix, sharp dissection to create wound area/surface, paravesical space free, fixation of cervix (with adherent pc fascia) onto L superior pubic bone/pc_ilc_iom/atf/atl by 2x seralon, euo/b 2.7 cm, **no** urine thru euo on rest/cough/pressure, foley ch 18, check on hemostasis; free clear urine flow, euo/bw cm, good elastic anterior elevation at L, slight rotational descent at R, euo/b 2.7 cm (**re-urethralization**) good cervix fixation **increased** bladder capacity (longitudinal diameter 18-2.7 = 15.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position

pt 049	katsina anteriolateroposterior trauma at L		vvf 8090/7967 cath 1305
d s g b (kats	ina)	female 35	yr 07.06.11
surgeon:	kees waaldijk		
assistant:	kabir lawal		
diagnosis:	PVIII (4 alive), residual <u>+</u> 0.2 cm v cated early closure 15.11.10, <u>still</u> drop foot R (grade 2-3 with gm_a L (grade 3-4 with gm_at contrac diameter/wide pubic arch 95°, Al fixed towards i spine L euo/f 5 cm, f/c 0 cm, i/v 12 cm	<u>l</u> living at husband, t contracture up to ture up to 95° dor	normal menstruation, 90° dor siflexion) and siflexion); normal AP
operation:	vvf-repair		
duration:	25 min	healing 9	5% continence 95%
anesthesia:	a: spinal L4/L5 with 3 ml bupivacaine 0.5%		

small episiotomy L, transverse incision thru fistula, sharp dissection, excision of scar tissue +, tension-free transverse bladder closure by single layer of inverting serafit, **no** urine thru euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw/ cervix adaptation by 2x everting seralon, check on hemostasis, episiotomy closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.8 cm normal bladder capacity (longitudinal diameter 12-2.8 = 9 cm) good position of uv-junction **against** middle third of symphysis normal-width 3 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80 s y r (katsina)

kees waaldijk surgeon:

binta adamu/kabir lawal assistant:

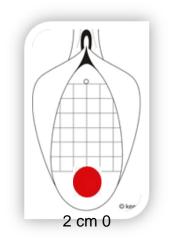
- diagnosis: PVIII (0 alive), + 0.2 cm 0 tah-cs-vesicocervicovaginal fistula type I mid line within posterior cervix remnants (2 cm 0 bladder defect), leaking urine for 3 mth which started immediately following tah-cs (pat informed) bco obstructed last labor for < 1 day, sb male, married 15 yr ago pre(menar che 2 mth later), still living with husband, no menstruation, no drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no eclampsia; normal ap diameter/pubic arch 85°, ar pos, post cervix remnants fixed midline euo/f 6 cm, f/"c" 0 cm, i/v 11 cm 143.0 cm
- operation: tah-cs-vcvf-repair

duration: 40 min healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

small episiotomy L, transverse incision thru fistula, at sharp dissection 2 cm 0 bladder defect, tension-free transverse bladder/posterior cervix closure by single layer of invert ing serafit, no urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw/post cervix remnant adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 13 cm, moderate anterior elevation, euo/b 1.4 cm

normal bladder capacity (longitudinal diameter 13-1.4 = 11.5 cm) poor position of uv-junction against caudad third of symphysis normal-width 1.5 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 150/90 mm Hg 5': 140/90 10': 130/80 postoperation: 130/80

pt 051	extensive total circumfe	katsina erential trauma + iatrog	genic mutila	vvf 8092 tion
h u b (ka	tsina)	female	17 yr	07.06.11
surgeon:	kees waaldijk			

kabir lawal

assistant:

diagnosis: PI (0 alive), **mutilated very extensive** + 6 cm 0 urethrovesicovaginal fistula with circumferential defect type **IIBb**, leaking urine for 1.4 yr which started immediately following obstructed labor for 2 days, in hospital sb male, married 3 yr ago post(menarche 6 mth earlier), not living with hus band, no menstruation, drop foot R (grade 2-3) and L (grade 2-3) both with contracture up to 90/0° dorsiflexion, no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/wide pubic arch 95°, ar pos, bilateral major atf/atl + pc io ilc iscm loss, cervix mobile, "operated" 24.4.10 (ac quire_), lpl stricture only distal 1.5 cm anterior urethra left euo/f 0 cm, f/c 0 cm, ab/au 2 cm, i/v 8 cm 146.5 cm

operation: ureters + circumferential bladder/avw fixation as first stage mini surgery

duration: 45 min (**state-of-the-art**) healing 95% continence 5%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

episiotomy L with severing of severe stricture, bilateral ureter catheterization for 20 cm. incision at fistula edge, sharp circumferential dissection, advancement/caudad fixation of anterior bladder onto symphysis/urethra, tension-free circumferential bladder fixation into "euo" by single layer of inverting serafit, ballooning of foley ch 18, transverse avw_symphysis/avw_cervix adaptation by 4x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 0.5 cm normal bladder capacity (longitudinal diameter 12-0.5 = 11.5 cm) poor position of uv-junction fixed against caudad third of symphysis normal-width 0.5 cm poor-quality urethra_euo in anatomic position it went fine



RR preanesthesia: 120/70 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

m a s (katsina) female 42 yr 07.06.11

- surgeon: dr idris a halliru
- assistant: gambo lawal
- diagnosis: PXIII (8 alive), <u>+</u> 1x0.2 cm <u>longoitudinal</u> urethrovesicovaginal fistula type **IIAa** midline, leaking urine for 5 mth which started immediately following cs bco obstructed labor for 1 day, <u>live</u> female, married 30 yr ago pre(men arche 1 yr later), <u>still</u> living with husband, normal menstruation, drop foot R (grade 4) and L (grade 5), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix fixed midline euo/f 3 cm, f/c 2 cm, i/v 12 cm 151.0 cm
- operation: uvvf-repair
- duration: 30 min healing 95% continence 85%
- anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

<u>longitudinal</u> incision thru/at fistula edge, sharp dissection, tension-free <u>longitudinal</u> blad der_urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, <u>longitudinal</u> avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.7 cm

normal bladder capacity (longitudinal diameter 12-2.7 = 9.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 120/80 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

katsina mdg anterior + iatrogenic trauma

	antenor + lanogenic trauma					
h m m (katsi	na)	female	31 yr	07.06.11		
surgeon:	dr idris a halliru					
assistant:	gambo lawal					
diagnosis:	PX (6 alive), <u>+</u> 2 cm 0 cs-vesicoce for 3 mth which started immediate < 1 day, sb female, married 28 yr with husband, no menstruation, n no rvf, no yankan gishiri, no ecla 85°, ar pos, cervix fixed midline euo/f 6 cm, f/c 0 cm, i/v 12 cm	ely following cs ago pre(menai o drop foot R (s bco ob rche 2 m grade 5	structed labor for hth later), no living) and L (grade 5),		
operation:	bilateral ureter catheterization an	nd cs-vcvf-repa	air			
duration:	50 min	healing	g 95%	continence 95%		
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%				

bilateral jureter catheterization for 20 cm, incision at fistula edge, sharp dissection, tension-free transverse bladder closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw/cer vix adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 2.1 cm

normal bladder capacity (longitudinal diameter 11-2.1 = 9 cm) good position of uv-junction **against** middle third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 054	katsina r anterior + iatrog	ndg enic trauma	vvf 023	vvf 7875/7770
h s k (jigawa)	female	24 yr	07.06.11
surgeon:	dr said ahmad			
assistant:	gambo lawal			
diagnosis:	PIV (3 alive), residual 0.5 cm cs-vcvf following successful uvvf-"re 13.2.10 to 19.6.10, not living with husband, normal menstruation, no drop foot R (grade 5) and L (grade 5); normal AP diameter/pubic 85°, AR pos uvvf healed euo/f 6 cm, f/"c" 0, i/v 12 cm, "cervix" fixed 148.			struation, no (h/o)
operation:	cs-vcvf-repair as second stage	;		
duration:	60 min	heali	ng 90% (continence 85%
anesthesia:	spinal L4/L5 with 3 ml bupivaca	iine 0.5%		

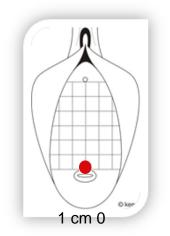
transverse incision thru fistula, sharp dissection, tension-free <u>longitudinal</u> bladder closu re by single layer of inverting serafit, urine **+** thru euo on cough, triple fixation of foley ch 18, <u>longitudinal</u> avw adap tation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, EUO/BW 13 cm, anterior elevation, EUO/B 2 cm normal bladder capacity (longitudinal diameter 13-2 = 11 cm) acceptable position of UV-junction **against** middle/caudad third of symphysis normal-width 2 cm medium-quality urethra_euo in anatomic position



RR preanesthesia: 130/80 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 055 pt	katsina mdg second obstetric cs fistula		vvf 024	4 vvf 7960 vvf 7335
r a d (katsina	a)	female	21 yr	07.06.11
surgeon:	dr said ahmad			
assistant:	gambo lawal			
diagnosis:	PII (1 alive), residual <u>+</u> 1 cm 0 cs_vesicocervicovaginal fistula at m following early ps-like cs-uvcvf-rpair 6.11.10, not living at husband mal menstruation, drop foot R (grade 4-5) and L (grade 5); norm diameter /pubic arch 85°, ar pos, cervix fixed/retracted midline but m little on cough referral euo/f 5 cm, f/c 0 cm, i/v 12 cm 148			g at husband, nor de 5); normal ap nidline but moving
operation:	cs_uvcvf-repair			
duration:	50 min	healir	ng 90%	continence 85%
anesthesia:	spinal L4/L5 with 3 ml bupivacai	ne 0.5%		

bilateral episiotomy L, incision at fistula edge, minimal sharp dissection, tension-free <u>longitudinal</u> bladder single layer of inverting serafit closure by 4x everting seralon, urine <u>+</u> thru euo on cough, triple fixation of foley ch 18, check on hemostasis, skin closure; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 2.4 cm normal bladder capacity (longitudinal diameter 12-2.4 = 9.5 cm) good position of UV-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 130/70 mm Hg 5': 120/70 10': 120/70 postoperation: 110/70

pt	056
2	000

katsina mdg anterior trauma; second obstetric fistula demonstration to the trainees

l s d (katsina)	female	40 yr	08.06.11
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- diagnosis: PX (3 alive), <u>+</u> 2.5 cm 0 **necrotic** urethrovesicovaginal fistula type **IIAa** at midline, **leaking urine for 5 days** which started immediately following obstructed last labor for 2 days, in hospital sb female, married 28 yr ago pre(menarche 1 yr later), <u>still</u> living with husband, no menstruation, drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no eclampsia; normal ap diameter/pubic arch 85°, ar pos, successful repair (b/r_awal) delivery IX obesity ++ euo/f 4 cm, f/c 0 cm 148.5 cm
- 08.06.11 foley ch 18; free urine flow, euo/bw 11 cm, moderate anterior elevation, euo/b 2 cm normal bladder capacity (longitudinal diameter 11-2 = 9 cm) acceptable position uv-junction **against** middle/caudad third symphysis normal-width 2 cm good–quality urethra_euo in anatomic position will it heal since **deep necrosis**

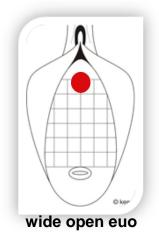


pt 057	katsina	vvf 8093/7923
	too complicated for one stage; final continence 85%	6
	very nicely healed; documented	

s u r g (zamfara)	female	16 yr	08.06.11
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- surgeon: kees waaldijk
- assistant: kabir lawal
- diagnosis: P0, residual <u>+</u> 1 cm **wide open** euo_urethrovesicovaginal fistula type **IIBa** after **nicely healed** continent bladder/fascia/avw fixation as **first stage** 19.9.10, not living with husband, normal menstruation (even now; normal ap diameter/ pubic arch 85°, ar pos, operated 1x (mawch_) euo/f 0 cm, f/c now 4 cm, i/v 10 cm obesity ++ 161.0 cm
- operation: continent urethra/fascia/avw reconstruction as **second stage**
- duration: 40 min (**step-by-step teaching**) healing 90% continence 85%
- anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

re-episiotomy L, wide H incision around fistula-euo, sharp dissection, sharp mobilization of (para)urethra tissue, tension-free <u>longitudinal</u> urethra reconstruction over 1.5 cm by single layer of inverting serafit, bilateral fixation of pc fascia onto para_euo symphy sis/atf by 1x serafit each side, euo/b 2.2 cm, **no** urine thru euo on rest/cough/pressure, triple fixation of foley ch 18, avw reconstruction by avw advancement flap by 4-point fixation onto paraurethra atf/symphysis by everting seralon, check on hemostasis, episi otomy closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.2 cm normal bladder capacity (longitudinal diameter 12-2.2 = 10 cm) good position uv-junction **against** middle third symphysis normal-width 2 cm good-quality urethra_euo in anatomic position also cosmetically nice result



RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 058 pt	katsina econd obstetric fistula: anterior trauma		vvf 8094 vvf 7675 cath 1330
d n b (katsina)	female	21 vr	08.06.11

d n b (katsina)

female 21 vr

surgeon: dr nasir garba/kees waaldijk

assistant: kabir lawal

PIV (0 alive), minute < 0.1 cm 0 urethrovesicovaginal fistula type **IIAa** diagnosis: midline, leaking urine for 6.5 mth which started immediately following last obstructed labor for 1 day, in hospital sb male, married 9 yr ago pre(men arche 1 yr later), still living with husband, no menstruation, no drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no h/o eclampsia; nor mal ap diameter/pubic arch 85°, ar pos, successful repair delivery II wide open euo + objective stress ++ due to inflammation/scar tissue euo/f 3 cm, f/c 2 cm, i/v 11 cm cervix mobile 152.0 cm

operation: excision of scar tissue + uvvf-repair

duration: 40 min (personal supervision) healing 95% continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

fistula confirmed by qv

small re-episiotomy L, transverse incision thru fistula edge, sharp dissection, excision of inflammation/scar tissue + with normalization of euo, tension-free transverse bladder/ urethra closure by single layer of inverting serafit, no urine thru suture line/euo on rest/ cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check hemostasis, skin closure; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 1.7 cm inflammation/scar tissue normal bladder capacity (longitudinal diameter 13-1.7 = 11.5 cm) poor position of uv-junction against caudad third of symphysis normal-width 1.5 cm medium-quality urethra euo in anatomic position once fistula healed inflammation/scar tissue will soften up



RR preanesthesia: 140/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

m i i (rép niger)

female 28 yr

08.06.11

surgeon: kees waaldijk

assistant: kabir lawal

- diagnosis: PII (0 alive), total post **IIAb** intrinsic-stress incontinence grade III, leaking urine whilst lying/sitting/standing/walking for 7 mth which started following lower abdominal pain/fever ??miscarriage??, at home sb male, married 15 yr ago post(menarche 3 mth earlier), <u>still</u> living with husband, normal menstruation, drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no h/ eclampsia; normal AP diameter/narrow pubic arch 70°, ar pos, anterior cervix loss; success repair after delivery I + II, bilateral atf/atI + pc_ ilcm loss, 4x1 cm transverse pcf defect **completely ok until then open** urethra_euo post pulled inside, moderate stenosis/shortening euo/bw 13 cm, good elevation, euo/b 1.1 cm, i/v 7 cm 150.0 cm
- operation: transverse pcf repair/bilateral refixation last resort

duration: 45 min (**step by-step teaching**) healing 95% continence 85%

anesthesia: spinal L4/L5 with 4 ml bupivacaine 0.5%

gv/ **no** leakage but urine level in accord with respiration

re-episiotomy L, transverse incision over pcf defect at 2 cm from euo, sharp dissection, transverse pcf repair/bilateral fixation onto paraurethra_euo atf by 2x serafit each side with normalization of euo, euo/b 2.0 cm, **no** urine thru eu on rest/cough/pressure, triple fixation of FOLEY Ch 18, transverse avw-symphysis/cervix adaptation by 2x everting seralon, check on hemostasis, skin closure, pack; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 2.0 cm (**loss**)

normal bladder capacity (longitudinal diameter 13-2 = 11 cm)

acceptable position of UV-junction **against** middle/caudad third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position

RR preanesthesia: 130/80 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 060 pt	katsina extensive obstetric trauma a	0	elvis inlet ring	rvf 1024 vvf 7508
s m d (katsi	na)	female	21 yr	08.06.11

surgeon: kees waaldijk

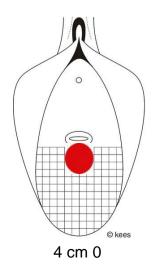
assistant: kabir lawal

- diagnosis: PII (0 alive), <u>+</u> 4 cm proximal rectovaginal fistula **Ic** with circumferential defect/rectum stricture fixed to sacrum/cervix, passing stools pv for 3 yr which started immediately following ?sth?-cs bco obstructed last labor for 1 day, sb male, married 8 yr ago pre(menarche 3 mth later), not living with husband, **no** menstruation since, drop foot R (grade 2-3) and L (grade 3) both with contracture up to 90°/0° dorsiflexion, no yankan gishiri, eclamp sia yes; normal AP diameter/**wide** pubic arch 90°, AR pos, extensive bilateral atf/atl + pc_ilc_iscm muscle loss + ssl_ pm trauma, cervix fixed midline, iom intact uvvf **healed** now pat wants rvf to be repaired a/f 8 cm, pr/pr 3 cm, f/C 0 cm, i/v 12 cm
- operation: ps-like rvf-repair as second stage

duration: 40 min ("**minimum surgery**") healing 75% continence 90%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

RE/ <u>+</u> 2.5 cm 0 scarred rectum stricture (good passage so **no** disruption) re-episiotomy L, incision around fistula edge thru posterior cervix, **no** dissection, trans verse **ps-like** posterior cervix/pvw adaptation by 5x everting seralon, check on hemosta sis, episiotomy closure fasigyn/chloramphenicol/iv fluids



RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 061 se	katsina me total urge urine incontinence ptic surgery principle: avw close	due to blac	dder stor	
r a b r (katsir	าล)	female	41 yr	08.06.11
surgeon:	dr idris a halliru			
assistant:	gambo lawal			
diagnosis:	PIX (4 alive), <u>+</u> 0.5 cm 0 urethrove vaginal cystostomy + stone rem menopause for 1 yr; normal ap d euo/f 2 cm, f/c 3 cm, i/v 11 cm	oval 27.1.11 iameter/narr	l, not livir ow pubic	ng with husband, arch 60°, ar pos
operation:	uvvf-repair + pcf fixation			
duration:	10 min	heal	ing 90%	continence 75%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ie 0.5%		

transverse thru/at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit with bilateral fixation of pc fascia onto para urethra atf, **no** urine thru repair line/euo, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 8 cm, good anterior elevation, euo/b 2.5 cm

moderate bladder capacity (longitudinal diameter 8-2.5 = 5.5 cm) good position of uv-junction **against** middle third of symphysis "normal-width 2.5 cm poor-quality urethra_euo in anatomic position



RR preanesthesia: 150/100 mm Hg 5': 150/90 10': 150/80 postoperation: 150/80

pt 062 katsina mdg vvf 026 anterior + severe iatrogenic trauma							
h u a (bauch	i)	female	22 yr	08.06.11			
surgeon:	dr idris a halliru						
assistant:	gambo lawal						
diagnosis:	PIII (1 alive), mutilated extensive <u>+</u> 2.5 cm 0 urethrovesicovaginal fistulat type IIAa , leaking urine for 4 yr which started immediately following last obstructed labor for 2 days, in hospital sb male, married 9 yr ago pre- (menarche 3 mth later), not living at husband, normal menstruation, drop foot R (grade 4) and L (grade 4), no rvf, no yankan gishiri, no eclampsia ?ap diameter?/narrow pubic arch 50°, ar pos, cervix fixed midline, "opera- ted" 2x (potiskum) euo/f 2 cm, f/c 0 cm, i/v 5 cm						
operation:	complicated uvvf-repair						
duration:	55 min	heal	ing 75%	continence 60%			

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

episiotomy, incision at fistula edge, sharp dissection, tension-free transverse bladder/ urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw approximation by 2x everting seralon but there remains gap, check on hemostasis, skin closure; free urine flow, euo/bw 9 cm, good anterior elevation, euo/b 1 cm normal bladder capacity (longitudinal diameter 9-1 = 8 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 1 cm poor-quality urethra_euo in anatomic position



pt 063 pt	katsina m second obstetric fistula	vvf 027 vvf 6364 cath 869			
r y c (katsin	a)	female	35 yr	08.06.11	
surgeon:	dr said ahmad				
assistant:	gambo lawal				
diagnosis:	PXI (2 alive), <u>+</u> 0.5 cm 0 urethrovesicovaginal fistula IIAb (see previous fistula) within 2 cm 0 avw trauma midline, leaking urine for 60 days = mth that started immediately following obstructed last labor for 2 days, hospital sb female, married 23 yr ago post(menarche 5 mth earlier), <u>s</u> living at husband, no menstruation, no drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no eclampsia; normal ap diameter/pubic are 85°, ar pos, cervix fixed midline euo/f 3 cm, f/c 2 cm, i/v 12 cm				
operation:	uvvf-repair				
duration:	60 min	he	aling 95%	continence 95%	

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru/at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.2 cm

normal bladder capacity (longitudinal diameter 12-2.2 = 10 cm) good position of uv-junction **against** middle third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 130/90 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 064	katsina m major total circumfe	0	vvf 028 a	vvf 8028
a m d (katsir	na)	female	18 yr	08.06.11
surgeon:	dr said ahmad			
assistant:	gambo lawal			
diagnosis:	PI (0 alive), residual <u>+</u> 1 cm 0 ure ps last resort 12.02.11, not living meter?/normal pubic arch 85°, and cervix fixed intraabdominally euo/f 2 cm, f/v 0 cm, ab/au 1 cm	y with husband pos, bilateral at knows:	, no menstruatio	on; ?ap dia
operation:	uvvf-"repair" and euo-rhaphy		last re	esort final
duration:	60 min	healir	ng 70% contine	nce 75%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%		

incision at fistula edge, sharp dissection, tension-free <u>oblique</u> bladder closure by single layer of inverting serafit, triple fixation of foley ch 18, <u>oblique</u> avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 7 cm, good anterior elevation and euo/b 2.1 cm

moderate bladder capacity (longitudinal diameter 7-2.1 = 5 cm) good position of uv-junction **fixed against** middle third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 130/70 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

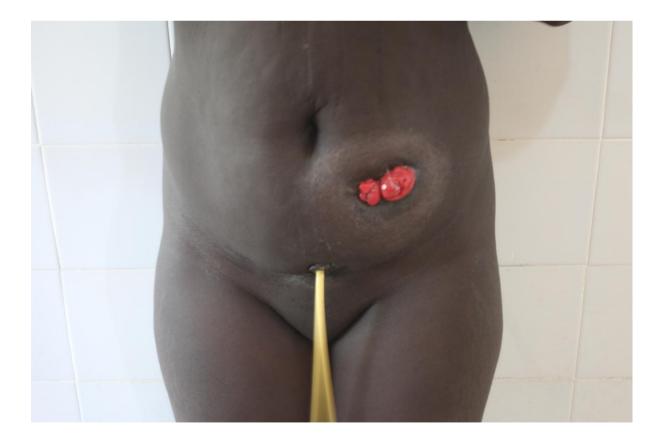
pt C)65
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katsina mdg rvf total circumferential trauma + surgical "management" vvf documented 09.06

k s k (bauchi)	female	25 yr	09.06.11
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diagnosis: PIII (1 alive), scarred <u>+</u> 1 cm 0 rectovaginal fistula type **Ib** just proximally from severe lpl stricture with elastic 2 cm 0 rectum sgtricture, type **IIAb** urine fistula, leaking urine/passing stools pv for 5 yr which started imme diately following obstructed last labor for 2 days, in hospital sb male, married 12 yr ago post(menarche 3 mth earlier), not living with husband, normal men struation, bilateral drop foot for 3 mth R (grade 5) and L (grade 5), no yan kan gishiri, no eclampsia; normal ap diameter/pubic arch 85°, ar pos, "cervix" fixed midline, severe stenosis, bilateral **major** atf/atl + pc_ilc_iscm loss + ssl_pm trauma **suprapubic catheter + colostomy (jos_priv clin) for 5 yr** a/f 8 cm, f/c 1 cm, i/v 10 cm

nb after suprapubic catheter and colostomy treatment was terminated



pt 066 pt	katsina mdg minute fistula + intrinsic incontinence rvf healed		vvf 8096/7718 rvf 982	
j I f (katsina)		female	e 17 yr	09.06.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PI (0 alive), post IIAb/Bb total intrinsic urine incontinence grade III, mine < 0.1 cm uvvf R following minimum surgery circum repair 21.10.09, r living with husband, normal menstruation, drop foot R (grade 3-4) and (grade 5); normal AP diameter/ pubic arch 85, AR pos, slight lpl strictur major bilateral atf/atl + pc_ io_ilc_iscm loss + ssl_pm trauma at L, cer mobile open urethra_euo posteriorly pulled inside euo/f 1.5 cm, f/c 2 cm, euo/bw 12 cm, euo/b 0.5 cm, i/v 10 cm 150.5 cm			
operation:	bilateral pcf refixation with fistula	closure	•	
duration:	40 min (step-by-step teaching)		healing 95%	continence 75%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%		

minute fistula confirmed by gv

re-episiotomy L, transverse incision thru fistula/repair scar at 1.5 cm from euo, sharp dis section, excision of scar tissue +, bilateral fixation of pc fascia onto paraurethra_euo atf/symphysis by 2x serafit each side with fistula closure and normalization of euo, euo/b now 1.5 cm, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, epi siotomy closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.5 cm normal bladder capacity (longitudinal diameter 12-1.5 = 10.5 cm) poor position of uv-junction **fixed against** caudad third of symphysis normal-width 1.5 cm poor-quality urethra_euo in anatomic position



RR preanesthesia: 130/80 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 067	
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katsina mdg anterior trauma

r b r (katsina) female 37 yr 09.06.11

surgeon: dr sadiya nasir/kees waaldijk

assistant: kabir lawal

- diagnosis: PX (4 alive), <u>+</u> 0.5 cm 0 urethrovesicovaginal fistula type **IIAa** midline at distal tip of 2 cm longitudinal "scar" with base at cervix, **leaking urine for 37 days** which started immediately following cs-?sth? bco obstructed last labor for 2 days, sb male, married 25 yr ago pre(menarche 1 yr later), <u>still</u> living with husband, no menstruation, drop foot R (grade 3-4) and L (gra de 4), no rvf, no yankan gishiri, no eclampsia; normal ap diameter/wide pubic arch 90°, ar pos, "cervix" fixed midline, open post fornix euo/f 3 cm, f/c 2 cm, i/v 11 cm
- operation: uvvf-repair

duration: 30 min (**personal supervision**) healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru/at fistula edge, sharp dissection, 1 cm 0 bladder_urethra defect, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transver se avw adaptation by 2x everting seralon, check on hemostasis, post fornix adaptation by 1x serafit; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.7 cm normal bladder capacity (longitudinal diameter 12-2.7 = 9.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.7 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 170/100 mm Hg 5': 160/100 10': 150/90 postoperation: 140/80

pt 068 katsina mdg vvf 8098/574 what can one do; nicely healed but total incontinence; documented at end				
h a g (bauch	i)	female	28 yr	09.06.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PI, total post IIBb repair urine int nicely healed (mutilated IIBb) 12.3.03, <u>still</u> living at husband, no ?ap diameter?/narrow pubic arch (jos_jan kwano), severe vagina loss, ba hanya ko kadan euo/bw 12 cm, good elevation, e	urethra/avw r rmal menstrua n 70°, anal ref stenosis/shot	econstru ation, <u>sua</u> lex pos rtening,	uction as final op <u>ccessful rvf-repair</u> , now, operated 3x major pc muscle
operation:	shortening euo-plasty + bilateral	para-euo fixa	tion	last resort final
duration:	5 min	healir	ng 95%	continence 50%
anesthesia:	spinal L4/L5 with 4 ml bupivacair	ne 0.5%		

since **euo too distal**/too near to clitoris longitudial severeing of distal neouirethra over 0.5 cm, bilateral fixation of good-quality para-urethra tisue onto para-euo symphysis by 1x serafit each side, euo/b 2.5 cm, **no** urine thru euo on cough/suprapubic pressure, ballooning foley ch 18; free urine flow, euo/bw 12 cm, good elevation, euo/b 2.5 cm normal bladder capacity (longitudinal diameter 12-2.5 = 9.5 cm) good position UV-junction **fixed against** middle third of symphysis 2.5 cm 0 **now good-quality** urethra_euo in anatomic position so the **severe mutilation_scarring** became good-quality tissue

pt 069	katsina mdg extensive total circumferential obstetric trauma			vvf 8099/7927 rvf + cath
l k g d (katsi	na)	female	18 yr	09.06.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	III, leaking urine whilst lying/sitting/standing/walking but no spon miction following circ repair 24.9.10, not living with husband, nor struation, drop foot R (grade 5) and L (grade 4-5); normal ap d pubic arch 85°, AR pos, bilateral atf/atl + pc_ilc_iscm loss + ssl_ ma, moderate-severe vagina stenosis/shortening, transverse 5x defect, cervix mobile deformed urethra_euo posteriorly pulle		no spontaneous and, normal men mal ap diameter/ oss + ssl_pm trau sverse 5x1 cm pcf iorly pulled inside	
operation:	continent urethra/avw reconstruc	ction		
duration:	45 min	h	ealing 85%	continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

re-episiotomy L, wide H incision around deformed euo, sharp mobilization of para urethra tissue, tension-free <u>longitudinal</u> urethra reconstruction over 1.5 cm by single layer of inverting serafit, bilateral fixation of pc fascia onto para_euo atf/symphysis by 1x serafit each side, euo/b 1.5 cm, **no** urine thru euo on rest/cough/pressure, triple fixation of foley ch 18, avw reconstruction by avw_cervix advancement flap by 2-point fixatkion onto para-euo symphysis by 1x seralon each side, check on hemostasis, episiotomy closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.5 cm (**circ loss**) normal bladder capacity (longitudinal diameter 12-1.5 = 10.5 cm) acceptable position of uv-junction **fixed against** middle/caudad third of symphysis normal-width 1.5 cm medium- to good-quality urethra_euo in anatomic position this really has a fair chance of continence

RR preanesthesia: 140/90 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80 h m t (katsina) female 33 yr 09.06.11

surgeon: dr idris a halliru

assistant: gambo lawal

- diagnosis: PVI (3 alive), total post **IIAb** urine intrsinic_stress incontinence grade III, leaking urine whilst lying/sittinmg/standing/walking + **no** spontaneous mic tion following repairs 25.6.05 + 16.04.06 (b/r-id), leaking urine for 6 yr that started immediately following obstructed last labor for 1 day, in hospital sb male, married 21 yr ago pre(menarche 1 yr later), <u>still</u> living with husband, normal menstruation, drop foot R (grade 3) and L (grade 5), no rvf, no yan kan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix mobile, operated 3x (b/r) euo/f 10 cm, good elevation, euo/b 1 cm, i/v 10 cm
- operation: bilateral pc fscia fixation

duration: 30 min

healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision at 2 cm from euo thru previous repair scar, sharp dissection, bila teral fixation of pc fascia onto paraurethra_euo atf/symphysis by 2x serafit each sided, **no** urine thru euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 10 cm, good anterior elevation, euo/b 3.5 cm

normal bladder capacity (longitudinal diameter 10-3.5 = 6.5 cm) good position of uv-junction **against** middle third of symphysis

normal-width 3.5 cm medium-quality urethra_euo in anatomic position

pt 071	katsina mdg vvf 031 vvf 7472/1970//3577 last resort; excessive scarring				
h u b (kano)		femal	e 3	30 yr	09.06.11
surgeon:	dr said ahmad				
assistant:	gambo lawal				
diagnosis:	PI (0 alive), impacted 4x3x2 cm bladder stone + small fistula following multiple repairs, not living with husband, normal menstruation until 4 yr ago when she developed bladder stone, no (h/o) drop foot, no RVF; normal AP diameter/small pubic arch 60°, AR pos, major pc_ilc_ iscm loss cystostomy + stone removal 15/8-07 (b/r-acquire) euo/c 2 cm 151.0 cm				
operation:	vaginal removal of stone				
duration:	35 min		healing		continence
anesthesia:	spinal L4/L5 with 3 ml bupivac	aine 0.5%	6		

transverse incision thru fistula, removal of stone in one piece, flushing out debris from bladder, leaving everything open for repair in 3 mth

RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 072 pt	katsina mdg card burned		vvf 030 vvf 1489//3875	
?h i b? h s b (katsin	a)	femal	e 29 yr	09.06.11
surgeon:	dr idris a halliru			
assistant:	gambo lawal			
diagnosis:	PIII (0 alive), acute retering immediately following of married 16 yr ago pre- normal menstruation, yankan gishiri, no eclar cervix mobile, operatering euo/f cm, f/c cm, i/v cm	obstructed <u>1st</u> lab (menarche 4 mth drop foot R (grad mpsia; normal ap d 3x	or x 3 days, in later), <u>still</u> liv e 5) and L (g	hospital sb female, ving with husband, rade 5), no rvf, no
operation:	dilatation + foley ch 18	3		
duration:	10 min		healing	continence
anesthesia:	spinal L4/L5 with 3 ml	bupivacaine 0.5%	, D	

gentle gradual dilatation from H3 thru H 16, foley ch 18; free urine flow, euo/bw 14 cm, good anterior elevation, euo/b 2 cm normal bladder capacity (longitudinal diameter 14-2 = 12 cm) acceptable position of uv-junction **against** middle/caudad third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position

pt 073		katsina mdg	vvf 032	vvf 7682/7787 cath aalae rvf
s a f (katsina	a)	fem	ale 32 yr	09.06.11
surgeon:	said ahmad			
assistant:	gambo lawal			
diagnosis:	PVIII (7 alive), total pos tinence grade III follow lying/sitting/standing/w normal menstruation, o meter/wide pubic arch loss open euo pulleo euo/bw 13 cm, poor el	ring multiple repa valking + norma drop foot R (grac 90°, ar pos, bila d posteriorly insi	irs 4.8.09 to 24.2 I miction, <u>still</u> livi le 5) and L (grade teral major atf/at de	.10, leaking whilst ng with husband, e 5); normal ap dia l + pc_io_ilc_iscm
operation:	urethralization + bilate	ral pcf fixation		
duration:	50 min		healing 95%	continence 60%
anesthesia:	spinal L4/L5 with 3 ml	bupivacaine 0.5	5%	

transverse incision agt 2 cm from euo, sharp dissection, rhaphy of fascia at 2-5 cm from euo by serafit, bilateral fixation of pc fascia onto paraurethra-euo atf by 2x serafit each side, **no** urine thru euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 2.1 cm good bladder capacity (direct longitudinal diameter 13-2.1 = 11 cm) goodr position of UV-junction **against** middle/caudad third of symphysis

normal-width 2 cm good-quality urethra_euo in anatomic position

RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 074 pt	katsina second obstetri			cath 1354 vvf 5622
d m s (katsin	a)	female	30 yr	09.06.11
diagnosis:	PIX (2 alive), total post IIAb delive as "healing phase" of atonic blact tion for 3 mth which started imme last labor of < 1 day, sb male, mat still living with husband, no mense (grade 5), no rvf, no yankan gis pubic arch 85°, ar pos, "cervix" r avw bulging	dder, leaking o ediately follow arried 18 yr ag struation, no o hiri, no eclam	urine + "spontar ving tah-cs bco o pre(menarche Irop foot R (grac psia; normal ap	neous" mic obstructed 1 yr later), de 5) and L
09.06.11	no suprapubic mass, avw bulgin (euo/bw 18 cm, poor anterior e euo/b 1 cm) ml urine,

increased bladder capacity (longitudinal diameter 18-1 = 17 cm, **atonic bladder**)

poor position of uv-junction **against** caudad third of symphysis normal-width 1 cm medium–quality urethra_euo in anatomic position

pt 075	cath 1355			
b i d (katsina	a)	female	15 yr	09.06.11
diagnosis:	nosis: PI (0 alive), total urine intrinsic_stress incontinence grade III, leaki urine/stool_flatus incontinence for 21 days which started immed following obstructed labor for 4 days, in hospital sb male, married 3 y pre(menarche 1 yr later), not living with husband, no menstruation, foot R (grade 3) and L (grade 3-4), no rvf, no yankan gishiri, eclar			ed immediately arried 3 yr ago struation, drop

no; normal ap diameter/pubic arch 85°, ar slightly pos, stool/flatus incontinence, saddle anesthesia no spontaneous miction distal 2 cm avw traumatized/indurated

09.06.11 foley ch 18; free urine flow, euo/bw 8 cm, good anterior elevation and euo/b 1 cm normal bladder capacity (longitudinal diameter 8-1 = 7 cm) poor position of uv-junction against caudad third of symphysis normal-width 1 cm poor-quality urethra_euo pulled inside visible stool incontinence

156.5 cm

pt 076

katsina mdg total circumferential trauma + surgical "management" documented 09.06

rvf 1025 vvf

157.0 cm

- k s k (bauchi) female 25 yr 10.06.11
- surgeon: kees waaldijk
- assistant: kabir lawal
- diagnosis: PIII (1 alive), **scarred** <u>+</u> 1 cm 0 rectovaginal fistula type **Ib** just proximally from severe lpl stricture with elastic 2 cm 0 rectum sgtricture, type **IIAb** urine fistula, leaking urine/passing stools pv for 5 yr which started imme diately following obstructed last labor for 2 days, in hospital sb male, married 12 yr ago post(menarche 3 mth earlier), not living with husband, normal men struation, bilateral drop foot for 3 mth R (grade 5) and L (grade 5), no yan kan gishiri, no eclampsia; normal ap diameter/pubic arch 85°, ar pos, "cervix" fixed midline, severe stenosis, bilateral **major** atf/atl + pc_ilc_iscm loss + ssl_pm trauma

suprapubic catheter + colostomy (jos_priv clin) for 5 yr a/f 8 cm, f/c 1 cm, i/v 10 cm

operation: **ps-like** rvf-repair

duration: 30 min

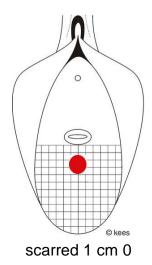
healing 85% continence 95%

preference of patient

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

RE/ blunt posterior disruption of stricture

episiotomy L with bilateral severing of severely scarred lpl stricture, incision at fistula edge with small bilateral transverse extension, excision of scar tissue ++, **ps-like** cervix _pvw/pvw closure by 2x everting seralon, check on hemostasis, episiotomy closure if healed for colostomy closure



RR preanesthesia: 140/90 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 077	katsina mdg span too wide; posterior traun	0	
r i j (katsina)	female	37 yr	10.06.11

surgeon: kees waaldijk

assistant: kabir lawal

diagnosis: PV (4 alive), cystocele_3° cervix prolapse_rectocele without genuine stress incontinence, something coming out of vagina urine for 20 yr which started spontaneously following obstructed <u>2nd</u> labor for 1 day, at home <u>live</u> female, married 25 yr ago pre(menarche 6 mth later), <u>still</u> living with husband, normal menstruation, drop foot R (grade 5) and L (grade 5), no vvf/rvf, no yankan gishiri, no eclampsia; normal ap diameter/**wide** pubic arch 100°, ar pos, **no** decubitus ulcer cervix euo/c 8 cm **never** leaking urine **narrow** urethra_euo in anat pos **no** objective stress incontinence (also not after reduction) euo/bw 19 cm, poor elevation, euo/b 1.5 cm, i/v 13 cm 161.0 cm

operation: cervix suspension at L

duration: 15 min (**step-by-step teaching**) healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

small avw incision avw ruga fold with transverse extension up to cervix, sharp dissection to create wound area/surface, paravesical space free, fixation of cervix (with adherent pc fascia) onto L superior pubic bone/pc_ilc_iom/atf/atl by 2x seralon, euo/b cm, **no** urine thru euo on rest/cough/pressure, foley ch 18, check on hemostasis; free clear urine flow, euo/bw 19 cm, good elastic anterior elevation at L, rotational descent at R, euo/b 3.0 cm (**re-urethralization**) good cervix fixation **increased** bladder capacity (longitudinal diameter 19-3.0 = 16 cm) good position of uv-junction **against** middle third of symphsis normal-width 3 cm good-quality urethra_euo in anatomic position

pt 078	katsina mdg extensive total circumferential trauma			/7776/7968 rvf
m h d (katsina)		female	16 yr	10.06.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PI (0 alive), total post extensive incontinence grade III, leaking us spontaneous miction after multip husband, normal menstruation, normal ap diameter/pubic arch io_ilc_iscm loss + ssl_pm traum severe vagina stenosis euo/bw 11 cm, good elevation, o	rine whilst lying/ ble repairs 19.2 f drop foot R (g 85°, ar pos, ma na, cervix fixed deformed euc	/sitting/standii to 15.11.10, n rade 5) and l ajor bilateral midline agai i o pulled poste	ng/walking + not living with L (grade 5); atf/atl + pc_ nst sacrum, periorly inside
operation:	bilateral fascia/avw fixation		last r	esort final
duration:	20 min	healin	g 90% contir	nence 50%
anesthesia:	spinal L4/L5 with 3 ml bupivaca	ine 0.5%		
gv/ no leaking				

transverse incision at 1.5 cm from euo thru repair scar, sharp dissection, bilateral fixa tion of pc fascia/avw onto para_euo atf/symphysis by 1x seralon with normalization of euo, euo/b now 1.8 cm, **no** urine thru euo on rest/cough/pressure, ballooning foley ch 18, check on hemostasis; free urine flow, euo/bw 11 cm, good anterior elevation and euo/b 1.8 cm (compression)

normal bladder capacity (longitudinal diameter 11-1.8 = 9 cm)

poor position of UV-junction fixed against caudad third of symphysis

normal-width 2 cm poor-quality urethra_euo in anatomic position

the problem: though nicely healed everything fixed pulling onto post urethra wall

pt 079		katsina mo	dg	vvf 03	3	vvf 7788/	/6938/6839
h s k (katsina	a)		femal	е	20 <u>y</u>	yr	10.06.11
surgeon:	dr idris a halliru						
assistant:	gambo lawal						
diagnosis:	PI (0 alive), total IIAb whilst lying/sitting/stan early circum repair 22/ 10, <u>still</u> with husband, (grade 5); normal ap d open 1 cm urethra_eu euo/bw 14 cm, good e	iding/walkir /7-06 + pcf normal me liameter/pu io posterior	ng + no fixation nstruat Ibic arc rly pulle	o sponta 18.11. tion, dro h 85°, a ed insid	anec .06 + op fo ar po le by	ous mictic urethraliz oot R (grad os fixed cer	on following zation 24.2. de 5) and L euo/c 4 cm

operation: bilateral pcf (re)fixation

last resort final

duration: 30 min healing 95% continence 75%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

gv check/ **no** leakage urine level in accord with respiration transverse curved incision at 1.5 cm from euo thru op scar, sharp dissection, poor tissue quality, bilateral fixation of poor-quality pcf/avw onto paraurethra_euo atf/sym physis by 2x serafit each side with repositioning/stabilizing urethra_euo, now euo/b 3.25 cm, no urine thru euo on rest/cough/ pressure, triple fixation of FOLEY Ch 18, trans verse avw/avw_cervix adaptation by 2x everting seralon, check on hemostasis;free urine flow, euo/bw 14 cm, good anterior elevation, euo/b 3.2 cm (compression) normal bladder capacity (longitudinal diameter 14-3.2 = 11 cm) good position UV-junction against middle third symphysis normal-width 3 cm medium-quality urethra euo in anatomic position continuous pull/traction by fixed cervix problem: small piece of broken needle at L could not be retrieved

pt 080 pt		katsina mdg	vvf 034	vvf 5737//7094 rvf 723
z a m (bornc)	femal	le 25 yr	10.06.11
surgeon:	dr idris a halliru			
assistant:	gambo lawal			
diagnosis:	multiple repairs 11.3.03 to 26.5.07, not living at husband, drop foo (grade 4) and L (grade 3), no yankan gishiri; normal ap diameter/pu arch 85°, operated 2x (maiduguri), anal reflex pos			and, drop foot R
operation:	bilateral fascia fixation	1		
duration:	30 min		healing 85%	continence 60%
anesthesia:	spinal L4/L5 with 4 ml	bupivacaine 0.5%	6	

transverse incision at 1.5 cm from euo, sharp dissection, bilateral fixation of pc fascia onto paraurethra_euo atf by 2x serafit each side, **no** urine thru euo on rest/cough/ pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 14 cm, good elevation, euo/b 4 cm normal bladder capacity (longitudinal diameter 14-4 = 10 cm) good position of uv-junction **against** middle third of symphysis normal-width 4 cm medium-quality urethra_euo in anatomic position

pt 081	katsina m actually inopera	0	vf 035	vvf 7325/7164 rvf 893
s m b (zamfa	ara)	female	20 yr	10.06.11
surgeon:	dr said ahmad			
assistant:	gambo lawal			
diagnosis:	new <u>+</u> 0.5x0.1 cm longitudinal somebody must have made a cu by myself), multiple ""repairs"" 13 drop foot R (grade 5) and L (grade arch 85°, AR pos, ba hanya euo/f 1 cm, f/c 1 cm, i/v 5 cm	t since it v .07.07 to ²	vas definitely 19.1.08, norr	/ healed (as seen nal menstruation,
operation:	uvvf-"repair" + euo-rhaphy			
duration:	60 min	h	ealing 75%	continence 50%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%		

longitudinal incision thru fistula, sharp dissection, tension-free longitudinal closure with euo rhaphy, no urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, longitudinal avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 2.5 cm normal bladder capacity (longitudinal diameter 13-2.5 = 10.5 cm) good position of UV-junction against middle third of symphysis normal-width 2.5 cm poor-quality urethra_euo in anatomic position the problem: everything fixed

pt 082	katsina mdg	vvf 036	vvf 6285
pt	" inoperable" fistula		rvf 728
h a b (zamfara)	female	24 yr	10.06.11

- surgeon: dr said ahmad
- assistant: gambo lawal
- diagnosis: total post **extensive IIAb** urine intrinsic_stress incontinence grade III, leaking urine whilst lying/sitting/standing/walking/no spontaneous miction following repair 28.9.04, not living at husband, normal menstruation, drop foot R (grade 5) and L (grade 4-5); normal AP diameter/narrow pubic arch 50°, major pc muscle, **RVF healed**, severe vagina stenosisl euo/bw 7 cm, good elevation, euo/b 1cm, i/v 4 cm 144.0 cm
- operation: urethralization by bilateral fixation
- duration: 50 min healing 85% continence 50%
- anesthesia: spinal L3/L4 with 4 ml bupivacaine 0.5%

transverse incision at 1 cm from euo, sharp dissection, bilateral fixation of pc fascia onto paraurethra_euo atf by 2x serafit each side, **no** urine thru euo on rest/cough/pressure, re-episiotomy, R ureter identified but blocked at 3 cm, incision at fistula edge, fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 7 cm, good anterior elevation, euo/b 2 cm normal bladder capacity (longitudinal diameter 7-2 = 5 cm) acceptable position of UV-junction **against** middle/caudad third of symphysis

normal-width 2 cm poor-quality urethra_euo in anatomic position

pt 083 katsina mdg vvf 8102 major total circumferential trauma; referred from zaria too complicated				vvf 8102 i cated
n z b (kadun	a)	female	17 yr	11.06.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	nosis: PI (0 alive), <u>+</u> 4x2 cm urethrovesicovaginal fistula type IIBb with cir ferential defect, leaking urine for 8 mth that started immediately follow cs bco obstructed labor for 2 days, sb male, married 2 yr ago post(me che 2 yr earlier), not living with husband, no menstruation, drop fo (grade 4) and L (grade 4), no rvf, no yankan gishiri, eclampsia yes; mal ap diameter/pubic arch 85°, ar pos, bilateral atf/atl + pc_ilc_iscm cervix fixed midline, severe scarred distal circ stricture (ba hanya) only 2 cm distal anterior/"lateral" urethra walls intact		ly following post(menar frop foot R ia yes; nor _iscm loss,	
operation:	circumferential bladder fixation a	is first stage	minimum surg	jery

duration: 40 min (**step-by-step teaching**) healing 95% continence 5%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

episiotomy L with severing of stone-hard scarred stricture, transverse incision thru proximal fistula edge, sharp circumferential dissection, advancement/caudad fixation of anterior bladder onto symphysis/urethra into "euo", tension-free circumferential bladder fixation into euo by single layer of inverting serafit, **no** urine thru suture euo on rest/ cough but still **+** on pressure, triple fixation of foley ch 18, transverse avw closure by avw advancement flap picking up pcf as well by 2-point fixation onto paraeuo sym physis by 1x everting seralon each side, check on hemostasis, episiotomy closure; free urine flow, euo/bw 9 cm, good anterior elevation, euo/b 1 cm (**compression**) normal bladder capacity (longitudinal diameter 9 cm, direct) **fine repair** poor position of uv-junction **fixed against** caudad third of symphysis normal-width 1 cm good-quality "urethra"_euo in anatomic position **nice result (looks normal)** for continent urethra/avw as **second stage**



RR preanesthesia: 140/90 mm Hg 5': 130/80 10': 120/70 postoperation: 120/70

pt 084 katsina mdg post IIAb repair; anterior gap from 11-13 hr after sphincter ani re				vvf 8103 pair	
h a l (nasara	wa)	female	e 20	3 yr	11.06.11
surgeon:	kees waaldijk				
assistant:	kabir lawal				
diagnosis:	leaking urine whilst lying/sitting/standing/walking (+ spontaneous miction for 6 yr which started immediately following obstructed last labor for 8 days, at home sb male, married 10 yr ago post(menarche 1 mth earlier) not living with husband, normal menstruation, drop foot R (grade 4) and L (grade 2-3 with contracture up to 90/0° dorsiflexion), no rvf; normal ap diameter/wide pubic arch 90°, ar pos, "cervix" not identified fixed, opera ted 1x for vvf/rvf (jan kwano) severe funnel shape stenosis euo/4 cm open urethra_euo posteriorly drawn inside			is miction) abor for 5 th earlier), le 4) and L normal ap ted, opera	
operation:	paraurethra_euo fixation of pc fa	iscia	complete	e stool/flatus c	continence
duration:	30 min		healing	95% contine	nce 60%
anesthesia:	a: spinal L4/L5 with 3 ml bupivacaine 0.5%				

100 ml gv: **no** leakage urine level in accord with respiration transverse incision at 2 cm from euo thru repair scar, sharp dissection, bilateral fixation of fascia onto para-euo symphysis/atf by 1x seralon each side, euo/b now 3.2 cm, **no** urine thru euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adap tation by 2x everting seralon trying to neutralize traction by fixed "cervix"/vault, check on hemostasis; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 3.2 cm normal bladder capacity (longitudinal diameter 13-3.2 = 10 cm) good position of uv-junction **fixed against** middle third of symphysis normal-width 3 cm medium-quality urethra_euo in anatomic position the **problem: severe scar tissue + everything fixed pulling onto post urethra wall**

pt 085	katsina mdg anterior trauma		vvf 037
n z u m (rèp	niger) female	24 yr	11.06.11
surgeon:	dr said ahmad		
assistant:	gambo lawal		
diagnosis:	PVI (1 alive), <u>+</u> 0.5 cm 0 urethrovesicov urine for 9 yr which started immediately 2 days, in hospital sb male, married 12 not living with husband, normal menstru R (grade 5) and L (grade 5), no rvf, no normal ap diameter/pubic arch 85°, ar p magaram) open urethra_euo euo/f 2 cm, f/c 3 cm, i/v 11 cm	following obstru yr ago pre(mer lation, bilateral o yankan gishiri, r os, cervix mobile	cted <u>first</u> labor for narche 1 yr later), drop foot for 2 mth no h/o eclampsia; e, operated 1x (da
operation:	uvvf-repair + euo rhaphy		
duration:	60 min	healing 85%	continence 85%

transverse incision thru/at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, euo-rhaphy, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 1.5 cm normal bladder capacity (longitudinal diameter 13-1.5 = 11.5 cm)

poor position of uv-junction **against** caudad third of symphysis normal-width 1.5 cm medium-quality urethra_euo in anatomic position



RR preanesthesia: 130/80 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 086 katsina mdg caustics			vvf 038 cath 1312	
d a d m (kats	sina)	female	62 yr	11.06.11
surgeon:	dr said ahmad			
assistant:	gambo lawal			
diagnosis:	PXI (4 alive), <u>+</u> 0.2 cm 0 ureth leaking urine for 1 yr which st gargajiya once daily for reasons r che 2 yr later), not living with hush (grade) and L (grade), no rvf, n diameter/pubic arch 85°, AR pos euo/f 5 cm, f/c 1 cm, i/v 12 cm	arted follov not known, r band, meno o yankan gi	ving applic narried 51 pause 15 y	cation of magani yr ago pre(menar yr ago, drop foot R
operation:	vvvf-repair			
duration:	50 min	hea	aling 85%	continence 90%

transverse incision thru/at fistula edge, sharp dissection, tension-free transverse blad der by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pres sure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, moderate anterior elevation and euo/b 2.5 cm

normal bladder capacity (longitudinal diameter 12-2.5 = 9.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 180/110 mm Hg 5': 160/100 10': 160/100 postoperation: 160/90

pt 087 pt	katsina second obstetric fistula total circumferential trauma			vvf 8104 vvf 4164/4336 cath 586
h u d (kano)		female	31 yr	12.06.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PVII (1 alive), new extensit whereby anterior bladder en urine for 2 yr which started in < 1 day, at home <u>live</u> female not living with husband, nor (grade 5), no rvf, no yanka small ap diameter 70°, maje or less ok until pat say euo/f 2 cm, ab/au 1 cm, f/c	dge fixed onto ce mmediately follow e, married 19 yr ag mal menstruation, an gishiri, no ecla or bilateral atf/atl + v PIV with several r	ephalad symp ing obstructed go pre(menaro drop foot R (g mpsia; norma + pc_io_ilc_is miscarriages	hysis, leaking d last labor for che 1 yr later), grade 5) and L al pubic arch/ cm loss, more urethra block
operation:	ps-like 4/5 circumferential	uvvf-repair as mir	nimum surge	ery final
duration:	30 min	heal	ling 75% con	tinence 60%

deblocking urethra, ureters visible and easy to catheterize but incision at fistula edge, sharp **minimal** 4/5 circumferential dissection, **ps-like** 4/5 circumferential avw closure by 10x everting seralon, **no** urine thru euo on rest/cough/pressure, triple fixation of foley ch 18 and check on hemostasis; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.0 cm

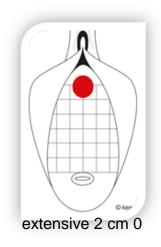
normal bladder capacity (longitudinal diameter 12-2.0 = 10 cm)

acceptable position of uv-junction **fixed against** middle/caudad third of symphysis normal-width 2 cm poor-quality urethra_euo in anatomic position



pt 088 ext	katsina ensive anteriobilateral trauma;		ling non-o	vvf 8105 drinking
h t c (katsina)	female	40 yr	12.06.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PI (0 alive), extensive <u>+</u> 2 cm 0 up circumferential defect, leaking up following obstructed labor for 3 d ago pre(menarche 1 yr later), <u>still</u> drop foot R (grade 5) and L (grade yes; normal ap diameter/ pubic a pc_io_ilc_iscm loss, cervix fixed r removal 3.1.11 (b/r_id) obesi euo/f 2 cm, f/c 0.5 cm, ab/au 1 cm	ine for 25 y lays, in hos living at hus 5), no rvf, Irch 85°, ar nidline vaul ty ++ act	r which sta pital sb m sband, nor no yankan pos, majo t, operateo	arted immediately ale, married 28 yr mal menstruation, gishiri, eclampsia or bilateral atf/atl + d 3x, vaginal stone
operation:	complicated ps-like uvvf-repair			last resort final
duration:	30 min	hea	aling 50%	continence 10%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%		

small re-episiotomy L, incision at fistula edge, since everything **fixed** only thing possible is **ps-like** avw/avw_cervix approximation by 6x everting serafit whereby "urethra" pulled inside since cervix totally fixed, triple fixation of foley ch 18, check on hemostasis, skin closure; free urine flow, euo/bw 8 cm, good anterior elevation, euo/b 1.5 cm moderate bladder capacity (longitudinal diameter 8-1.5 = 6.5 cm) good position of uv-junction **fixed against** middle third of symphysis since deformed 1.5 cm poor-quality urethra_euo pulled inside the **problem: long-standing not drinking, everything fibrosed/fixed**



RR preanesthesia: 180/100 mm Hg 5': 170/90 10': 150/90 postoperation: 140/80

pt 089 pt 090	kano mde total circumfe	•		vvf 4622 rvf 758
d s k (kano)		female	19 yr	27.06.11
surgeon:	kees waaldijk			
assistant:	binta musa			
diagnosis:	PIII (0 alive), complicated \pm 2.5 c line type IIAa , \pm 0.5 cm 0 rectovag /passing stools pv for 7 mth that so labor for few hors at home, in hos yr ago pre(menarche 3 mth later struation, drop foot R (grade 2) at to 90/0° dorsiflexion, no yankan g /pubic arch 85°, ar pos, cervix fixe euo/f 3 cm, f/c 0 cm, a/f 9, f/c 0 c	jinal fistula mic tarted immedi p (2 days) dau), not living wi nd L (grade 2) ishiri, no eclan id midline, atf/	dline type la , le ately following nbatta sb male ith husband, n) both with con npsia; normal a	eaking urine obstructed e, married 6 ormal men tracture up ap diameter
operation:	bilateral ureters + uvvf-repair + rv	/f-repair	slight I	pl stricture
duration:	45 min (step-by-step teaching)	healing 85_9	95% continence	e both 95%
_				

episiotomy L with severing of stricture, bilateral ureter catheterization by metal sound up to 10 cm, incision at fistula edge, sharp dissection, tension-free transverse bladder/ urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw/cervix adaptation by 2x everting seralon; free urine flow, euo/bw 8 cm, good anterior elevation, euo/b 2.5 cm moderate bladder capacity (longitudinal diameter 8-2.5 = 5.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm medium-quality urethra_euo in anatomic position RE/ no rectum stricture, transverse incision thru/at fistula edge thru posterior cervix, **no** dissection, tension-free transverse cervix/rectum closure by 2x inverting serafit, check

on hemostasis, skin closure



RR preanesthesia: 130/80 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 090 pt 089	kano md total circumfe	•		rvf 758 vvf 4622
d s k (kano)		female	19 yr	27.06.11
surgeon:	kees waaldijk			
assistant:	binta musa			
diagnosis:	PIII (0 alive), complicated \pm 2.5 c line type IIAa , \pm 0.5 cm 0 rectovag /passing stools pv for 7 mth that s labor for few hors at home, in hos yr ago pre(menarche 3 mth later struation, drop foot R (grade 2) a to 90/0° dorsiflexion, no yankan g /pubic arch 85°, ar pos, cervix fixe euo/f 3 cm, f/c 0 cm, a/f 9, f/c 0 c	ginal fistula mi tarted immedi p (2 days) da), not living w nd L (grade 2 ishiri, no eclar ed midline, atf/	dline type la ately followin nbatta sb ma ith husband) both with c mpsia; norma	, leaking urine ng obstructed ale, married 6 , normal men ontracture up al ap diameter
operation:	bilateral ureters + uvvf-repair + rv	/f-repair	sligh	nt lpl stricture
duration:	45 min (step-by-step teaching)	healing 85_9	95% contine	nce both 95%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%		

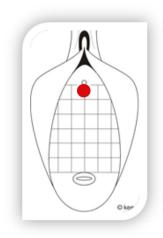
episiotomy L with severing of stricture, bilateral ureter catheterization by metal sound up to 10 cm, incision at fistula edge, sharp dissection, tension-free transverse bladder/ urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw/cervix adaptation by 2x everting seralon; free urine flow, euo/bw 8 cm, good anterior elevation, euo/b 2.5 cm moderate bladder capacity (longitudinal diameter 8-2.5 = 5.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm medium-quality urethra_euo in anatomic position RE/ no rectum stricture, transverse incision thru/at fistula edge thru posterior cervix, **no** dissection, tension-free transverse cervix/rectum closure by 2x inverting serafit, check on hemostasis, skin closure



RR preanesthesia: 130/80 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 091 pt	kano md now obstetric	0		vvf 4623/4466 vvf 2792 rvf 418
h s d (kano)		female	21 yr	27.06.11
surgeon:	kees waaldijk			
assistant:	binta musa			
diagnosis:	PI (0 alive), total post IIBa intrinsi whilst lying/sitting/standing/walkin urethra reconstruction 20.11.02 normal menstruation, rvf healed , <u>gozoma at 2 yr of age</u> ; normal ap "urethra"_euo completely drawn euo/bw 11 cm, euo/b 0.5 cm, i/v	ng + "norr to 21.06 <u>growth wa</u> diamete inside ove	nal" miction .10, not livir <u>as removed f</u> r/wide pubic	following multiple ng with husband, rom vagina by un- arch 90°
operation:	continent euo-rhaphy/urethra/fas	scia/avw "ı	reconstructio	n"
duration:	20 min	h	ealing 85%	continence 50%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%		

wide H incision around euo, sharp dissection, sharp mobilization of (para)urethra tissue, tension-free <u>longitudinal</u> urethra reconstruction over 1 cm with repositioning of retracted uv-junction by single layer of inverting interrupted serafit, bilateral fixation of pc fascia onto paraeuo atf/symphysis by 1x serafit each side, euo/b 1.3 cm, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, avw reconstruction by avw/cervix advancement flap by 2-point fixation onto paraurethra atf/symphysis by everting seralon, check on hemostasis; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 1.3 cm if healed for **narrowing** introitus plasty normal bladder capacity (longitudinal diameter 11-1.3 = 10.5 cm) good position uv-junction **against** middle third symphysis since normal-width 1.5 cm poor-quality urethra_euo completely pulled inside



RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 092	
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kano mdg anterior trauma

surgeon: dr idris suleiman abubakar

assistant: hafsat ibrahim

- diagnosis: PI (0 alive), <u>+</u> 2 cm 0 urethrovesicovaginal fistula type **IIAa** mdilne, leaking urine for 3 mth which started immediately following obstructed labor for 2 days, in hospital mmsh sb male, married 2 yr ago pre(menarche 1 mth later), <u>still</u> living with husband, no menstruation, no drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, eclampsia yes; normal ap dia meter/pubic arch 85°, ar pos, cervix mobile euo/f 3 cm, f/c 3 cm, i/v 14 cm 149 cm
- operation: uvvf-repair

duration: 45 min (**step-by-step teaching**) healing 80% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

episiotomy R, transverse incision thru/at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 3x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 3 cm normal bladder capacity (longitudinal diameter 11-3 = 8 cm) good position of uv-junction **against** middle third of symphysis

normal-width 3 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 120/70 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

f y g-g (kano city) female 20 yr

surgeon: kees waaldijk

assistant: binta musa

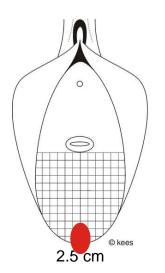
diagnosis: PI (alive), breakdown of **mutilated** sphincter ani rupture type **IIb** with 2.5 cm <u>longitudinal</u> anorectum trauma with tissue bridge at anus following ear ly closure 17.5.11, now **58 days pp**, <u>still</u> with husband, no menstruation, no drop foot R (grade 5) and L (grade 5), no vvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/**wide** pubic arch 95°, ar pos, immediate suturing 1x pp, obesity + a/f 0 cm, i/v 12 cm never leaking urine 145 cm

operation: anorectum closure and sphincter ani_perineal body reconstruction

duration: 25 min (**step-by-step teaching**) healing 85% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

incision at pvw edge with freshening of sphincter ani ends, minimal sharp dissection with mobilization of pararectal_anal tissue, tension-free <u>longitudinal</u> anorectum closure with adaptation_rhaphy of internal sphincter over 3 cm up to anocutaneous junction (with repositioning of anterior anus) by double layer of inverting interrupted/continuous serafit, inner ring of external sphincter adapted, end-to-end external sphincter ani reconstruction by 2x serafit, perineal body repair with (in)direct re-union of transversus perinei muscles and (in)direct posterior re-union of bulbocavernosus muscles by 3x serafit, perineum well adapted with anus in anatomic position, check on hemostasis foley ch 18; free urine flow, euo/bw 12 cm, good elevation, euo/b 2 cm if it breakdowns again then **wait 3 mth** before another reconstruction



RR preanesthesia: 120/70 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

female

38 yr

surgeon: kees waaldijk

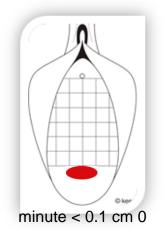
assistant: binta musa

- diagnosis: PXII (8 alive), minute < 0.1 cm tah-cs vesicovaginal fistula type I midline within granulating 2x1 cm transverse vault defect, leaking urine for 36 days which started immediately following tah-cs bco obstructed last labor for 2 days, mmsh sb male, married 25 yr ago pre (menarche 2 mth later), still living with husband, no menstruation, drop foot R (grade 3) and L (gra de 4), no rvf, no yankan gishiri, no eclampsia; normal ap diameter/pubic arch 85°, ar pos, vault fixed midline obesity ++ objective stress ++ due to inflammation bladder/avw/vault euo/f 8 cm, f/v 0 cm, i/v 11 cm 160 cm
- operation: vvf-repair

duration: 20 min (**step-by-step teaching**) healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

fistula demonstrated by gv, freshening of **granulating** vault defect, **no** dissection, tension-free transverse vault closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, since avw/pvw adapted and for better healing no further adaptation by sutures, check on hemostasis; free urine flow, euo/bw 11 cm, moderate anterior elevation, euo/b 2.5 cm normal bladder capacity (longitudinal diameter 11-2.5 = 8.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 140/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 095		kano mdg infection			vvf 4625
h ui s g (kar	no city)	fen	nale	36 yr	28.06.11
surgeon:	kees waaldijk				
assistant:	binta musa				

- diagnosis: PVI (1 alive), **very extensive** <u>+</u> 3 cm 0 urethrovesicovaginal fistula type **IIBa** with (sub)total avw loss and 0.2 cm bladder opening, leaking urine for 33 yr which started follow ing boil in vagina (?measles?), married 23 yr ago post(menarche 2 mth earlier), <u>still</u> living with husband, normal men struation, drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no eclampsia; normal ap dia meter/wide pubic arch 90°, ar pos, cervix fixed, severe vagina shortening euo/f 0.3 cm, f/c 0.3 cm, i/v 5 cm
- operation: uvvf-repair as first stage minimum surgery

duration: 30 min (**step-by-step teaching**) healing 95% continence 40%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

episiotomy L, incision at fistula edge, **minimal** sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit with bilateral fixation of pc fas cia/anterior cervix onto paraurethra_euo atf, **no** urine thru suture line/euo on rest/cough/ pressure, triple fixation of foley ch 18, transverse avw/cervix adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 13 cm, good anter ior elevation, euo/b 0.5 cm (**compression**) i/v 4 cm normal bladder capacity (longitudinal diameter 13-0.5 = 12.5 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 0.5 cm medium-quality urethra_euo in anatomic position it is very well possible for total continence due to physiologic stress



RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 096		kano total circumferential repair		vvf 4626
z m j k (kan	0)	female	22 yr	28.06.11
surgeon:	kees waaldijk			

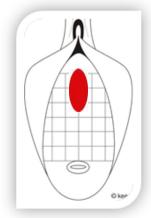
assistant: binta musa

- diagnosis: PIV (1 alive), <u>+</u> 2x1 cm urethrovesicovaginal fistula type **IIBb**, leaking uri ne for 1 yr which started immediately following cs bco obstructed last labor for 2 days, in hospital (1 day) sb male, married 11 yr ago pre(men arche 1 yr later), <u>still</u> living with new husband, normal menstruation, drop foot R (grade 5) and L (grade 5), rvf **healed**, no yankan gishiri, eclampsia no; ?ap diameter?/normal pubic arch 85°, ar pos, cervix fixed midline, operated vvf/rvf 2x (jos_jan kwano_lengmang), severe vagina shortening, bilateral atf /atl + pc_ilc_iscm loss, lpl stricture euo/f 0 cm, f/c 2.5 cm, i/v 4 cm 149 cm
- operation: continent urethra/fascia/avw reconstruction
- duration: 45 min

healing 85% continence 60%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

re-episiotomy L, wide H incision around fistula, sharp dissection, sharp mobilization of (para)urethra tissue, tension-free <u>longitudinal</u> urethra reconstruction over 2 cm with repositioning of retracted uv-junction by single layer of inverting interrupted serafit, bilateral fixation of pc fascia onto paraurethra_euo atf/symphysis by 2x serafit each side, euo/b 1.7 cm, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, avw reconstruction by avw advancement flap by 4-point fixation onto paraurethra atf/symphysis by everting seralon, check on hemostasis, epi closure, pack; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.7 cm normal bladder capacity (longitudinal diameter 12-1.7 = 10.5 cm) poor position uv-junction **against** caudad third symphysis normal-width 1.5 cm poor-quality urethra_euo in anatomic position the **problem: severe scarring/poor-quality paraurethra tissue/total cervix fixation**



RR preanesthesia: 120/80 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

2x1 cm longitudinal

pt 097	kano mo anterior tra	0		vvf 002
u a h b (kand	o)	female	17 yr	28.06.11
surgeon:	dr idris suleiman abubakar			
assistant:	hafsat ibrahim			
diagnosis:	PI (0 alive), <u>+</u> 3 cm 0 urethrovesic for 30 days which started immediays, in hospital bichi (5 days) so mth later), <u>still</u> living with husband and L (grade 5), no rvf, no yanka meter/ narrow pubic arch 60°, ar _iscm loss, lpl stricture euo/f 4 cm, f/c 2 cm, i/v 11 cm	diately follo male, marri d, no menstr an gishiri, ec	wing obstr ed 4 yr ago uation, dro clampsia y	ructed labor for 7 o pre(menarche 4 op foot R (grade 4) es; normal ap dia
operation:	4/5 circumferential uvvf-repair +	bilateral pcf	fixation	
duration:	60 min	hea	aling 60%	continence 90%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%		

episiotomy R with severing, incision at fistula edge, sharp 4/5 circumferential dissection, tension-free 4/5 circumferential end-to-end vesicourethrostomy by single layer of invert ing serafit, bilateral fixation of pc<fascia onto paraurethra_euo atf by 1 serafit each side, **no** urine thru suture line/euo on rest/cough/pressure, ballooning on of foley ch 18, transverse avw/avw_cervix adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 3 cm normal bladder capacity (longitudinal diameter 13-3 = 10 cm) good position of uv-junction **against** middle third of symphysis normal-width 3 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 130/80 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 098	kano mo anterior tra	0		vvf 003
h a k g (kan	o)	female	28 yr	28.06.11
surgeon:	dr amir imam			
assistant:	asmau mado			
diagnosis:	PIX (3 alive), <u>+</u> 1.5 cm 0 vesicov urine for 23 days which started for 1 day, at home sb male, marris <u>still</u> living with husband, no mens (grade 5), no rvf, no yankan gisl pubic arch 85°, ar pos, cervix mo euo/f 6 cm, f/c 0 cm, i/v 11 cm	immediately ied 15 yr ago struation, no c hiri, no eclarr	following obstrupted following obstrupted by the following obstruction of	ucted labor 3 mth later), de 5) and L

operation: vvf-repair

duration: 40 min healing 90% continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru/at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw/cervix adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 20 cm, good anterior elevation, euo/b 2.5 cm

increased bladder capacity (longitudinal diameter 20-2.5 = 17.5 cm, **atonic bladder**) good position of uv-junction **against** middle third of symphysis

normal-width 2.5 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

23 yr

- surgeon: dr amir imam
- assistant: asmau mado
- diagnosis: PIV (1 alive), <u>+</u> 1 cm 0 urethrovesicovaginal fistula type I at midline, leaking urine for 1 yr which started immediately following cs bco last obstructed labor for 2 days, in hosp (1 day) kazaure sb male, married 11 yr ago pre(menarche 1 yr later), <u>still</u> living with husband, normal menstru ation, no drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix fixed euo/f 5 cm, f/c 0 cm, i/v 11 cm 149 cm
- operation: vvf-repair
- duration: 60 min healing 80% continence 90%
- anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

incision at fistula edge, sharp dissection, excision of scar tissue +, tension-free transver se bladder closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw/cervix adaptation by 3x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 3 cm

normal bladder capacity (longitudinal diameter 12-3 = 9 cm) good position of uv-junction **against** middle third of symphysis normal-width 3 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

kano mdg span too wide; posterior trauma

m j k_m (kano) female 25 yr 29.06.11

surgeon: kees waaldijk

assistant: binta musa

diagnosis: PIV (3 alive), cystocele_3° cervix prolapse_rectocele without genuine stress incontinence, something coming out of vagina_leaking urine for 9 yr which started spontaneously following <u>first</u> labor for 1 day, at home <u>live</u> male, married 10 yr ago post(menarche 2 yr earlier), <u>still</u> living with hus band, normal menstruation, no drop foot R (grade 5) and L (grade 5), no vvf/rvf, no yankan gishiri, no eclampsia; normal ap diameter/**wide** pubic arch 95°, ar pos, no decubitus ulcer cervix euo/c 8 cm **never** leaking urine **narrow** urethra_euo in anat pos **no** objective stress incontinence (also not after reduction) euo/bw 13 cm, poor elevation, euo/b 1.5 cm, i/v 11 cm 149 cm

operation: cervix suspension at L

duration: 15 min (**step-by-step teaching** healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

small avw incision avw ruga fold with transverse extension up to cervix, sharp dissection to create wound area/surface, paravesical space free, fixation of cervix (with adherent pc fascia) onto L superior pubic bone/pc_ilc_iom/atf/atl by 2x seralon, euo/b 2.7 cm, **no** urine thru euo on rest/cough/pressure, foley ch 18, check on hemostasis; free clear urine flow, euo/bw 13 cm, good elastic anterior elevation at L, rotational descent at R, euo/b 2.7 cm (**re-urethralization**) good cervix fixation normal bladder capacity (longitudinal diameter 13-2.7 = 10.5 cm)

good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position

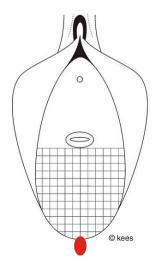
> RR preanesthesia: 130/80 mm Hg 5': 120/80 10': 120/70 postoperation: 120/70

kano mdg kano anterior/posterior trauma

a a g (kano city) female 37 yr 29.06.11

- surgeon: kees waaldijk
- assistant: binta musa
- diagnosis: PIX (all alive), ?small anterior sphincter ani defect?, tusa pv for 11 mth which started immediately following obstructed last labor for 1 day, in hospital mmsh <u>live</u> male, married 25 yr ago pre(menarche 1 yr later), <u>still</u> living with husband, no menstruation, no (h/o) drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diame ter/pubic arch 85°, AR pos obesity +++, successful vvf-repair 15.2.10 (mmsh im) ??sphincter defect 11.30-12.30?? i/v 12 cm
- operation:sphincter ani_perineal body "reconstruction"last resortduration:15 minhealing 95% continence 95%
- anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

pat cannot pinpoint where exactly the tusa is coming from careful inspection of whole pvw bjut no rvf found; there may be small anterior sphincter ani defect but even on palpation only fatty tissue felt small transverse curved incision at anterior anus, **no** dissection, end-to-end sphincter ani repair by 2x serafit, perineal body closure by 2x serafit, check on hemostasis the **problem:** severe obesity +++ and pat cannot pinpoint her problem whatever it is no more operation



ριιυΖ

kano mdg anterior trauma; still type IIAa

m m t m (kano)	female	17 yr	29.06.11
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surgeon: kees waaldijk

assistant: binta musa

diagnosis: PI (0 alive), <u>+</u> 0.6 cm 0 urethrovesicovaginal fistula type **IIAa** within trans verse 4x1 cm healed avw trauma/pcf defect, **leaking urine for 31 days** which started immediately following obstructed labor for 3 days few hours at home, in hosp (3 days) minjibir sb male, married 1 yr ago post(menar che 3 yr earlier), not living with husband, no menstruation, drop foot R (grade 3-4) and L (grade 3-4), no rvf, no yankan gishiri, eclampsia yes; normal ap diameter/pubic arch 85°, ar pos, cervix mobile euo/f 1 cm, f/c 5 cm, i/v 11 cm

operation: uvvf-repair + transverse pcf repair/bilateral fixation **minimum surgery**

duration: 20 min (**step-by-step teaching**) healing 95% continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru/at fistula edge, sharp dissection, transverse 4x1 cm pcf defect, tension-free transverse pc fascia repair/bilateral fixation onto paraurethra_euo atf with bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, good anterior ele vation, euo/b 0.6 cm

normal bladder capacity (longitudinal diameter 12-0.6 = 11.5 cm)

poor position of uv-junction against caudad third of symphysis

normal-width 0.5 cm medium-quality urethra_euo in anatomic position since good-quality tissue, good fascia plate and minimum invasive surgical trauma good prognosis even for continence; actually i expect total continence after 4-5 mth



RR preanesthesia: 120/70 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 103	kano m anterior tr	0		vvf 4629
s h s t (kand	o city)	female	22 yr	29.06.11
surgeon:	dr gabari habib/kees waaldijk			
assistant:	binta musa			
diagnosis:	PII (1 alive), retracted <u>+</u> 0.5 cm within 4x1 cm pcf defect, leakin diately following obstructed labor (2 days) sb male, married 3 yr a with husband, no menstruation,	ng urine for 3 or for 2 days f igo post(mena	8 days which ew hours at he arche 6 yr ear	started imme ome, in mmsh lier), <u>still</u> living

- rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix mobile, obesity ++ euo/f 2 cm, f/c 3 cm, i/v 12 cm 143 cm
- operation: uvvf-repair + transverse pcf repair

duration: 45 min healing 90% continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

episiotomy L, transverse incision thru/at fistula edge, sharp dissection, tension-free transverse pc fascia repair with bladder/urethra closure by single layer of inverting serafit, no urine thru suture line/euo on rest/cough/pressure, ballooning of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 2.0 cm normal bladder capacity (longitudinal diameter 12-2.0 = 10 cm) acceptable position of uv-junction against middle/caudad third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 104 kano mdg vvf 0 anterior trauma				
n h a-u (kan	0)	female	16 yr	29.06.11
surgeon:	dr idris suleiman abubakar			
assistant:	asmau mado			
diagnosis:	leaking urine for 54 days which started immediately following obstructed labor for 1 day, in hospital mmsh sb male, married 2 yr ago post(mena che 1 yr earlier), not living with husband, no menstruation, drop foot R (grade 4) and L (grade 4), no rvf, no yankan gishiri, no h/o eclampsia; no mal ap diameter/pubic arch 85°, ar pos, cervix mobile			llowing obstructed r ago post(menar ation, drop foot R
operation:	uvvf-repair			
duration:	30 min	hea	ling	continence

episiotomy R, transverse incision thru/at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, ballooning of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 10 cm, good anterior elevation, euo/b 2.5 cm normal bladder capacity (longitudinal diameter 10-2.5 = 7.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%



RR preanesthesia: 120/80 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 105	
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kano mdg anterior trauma

surgeon: dr idris suleiman abubakar

assistant: asmau mado

- diagnosis: PVI (4 alive), **mutilated** <u>+</u> 2 cm 0 urethrovesicovaginal fistula type **IIBa** at R, leaking urine for 1 yr which started immediately following obstructed last labor for 1 day, in hospital biu sb male, married 15 yr ago pre(men arche 3 mth later), <u>still</u> living at husband, normal menstruation, drop foot R (grade 2-3) and L (grade 2-3), no rvf, no yankan gishiri, no eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix fixed, operated 1x (mai duguri_umth) euo/f 0.5 cm, f/c 4 cm, i/v 11 cm
- operation: uvvf-repair

duration: 40 min healing 80% continence 60%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

incision at fistula edge, sharp dissection, tension-free transverse bladder/urethra closu re by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressu re, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 8 cm, good anterior elevation, euo/b 1.7 cm moderate bladder capacity (longitudinal diameter 8-1.7 = 6.5 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 1.5 cm poor-quality urethra_euo in anatomic position



RR preanesthesia: 170/90 mm Hg 5': 160/90 10': 140/80 postoperation: 130/80

pt 106		no mdg i or trauma		vvf 007
n a m (jigawa	a)	female	16 yr	29.06.11
surgeon:	dr amir imam			
assistant:	asmau mado			
diagnosis:	PI (0 alive), mutilated <u>+</u> 0. leaking urine for 2 yr which for 10 days, in hospital gum 2 mth earlier), not living wit (grade 4-5) and L (grade 4 normal ap diame ter/pubic (jahun_said) euo/f 0.5 cm, f/c 3 cm, i/v 8	started immediate hel sb female, marr h husband, norma I-5), no rvf, no yan arch 85°, ar pos,	ly following c ied 3 yr ago Il menstruati Ikan gishiri, (obstructed labor post(menarche on, drop foot R eclampsia yes;
operation:	urethra reconstruction			

duration: 35 min healing 80% continence 75%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

excision of scar/mutilation tissue, wide U incision, sharp dissection, tension-free <u>longitudinal</u> urethra reconstruction over 2 cm by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, ballooning of foley ch 18, longitudinal avw adaptation by 3x everting seralon, check on hemostasis free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 3 cm

normal bladder capacity (longitudinal diameter 12-3 = 9 cm)

good position of uv-junction **against** middle third of symphysis normal-width 3 cm poor-quality urethra_euo in anatomic position



RR preanesthesia: 140/90 mm Hg 5': 130/80 10': 120/70 postoperation: 120/70

pt	107	
r •		

g y u-g g (kano city) female 16 yr 29.06.11

- diagnosis: PI (0 alive), <u>+</u> 1.5x1 cm transverse **necrotic** urethrovesicovaginal fistula type **IIAa** midline, **leaking urine for 10 days** which started immediately following obstructed labor for 2 days, in hospital gezawa sb male, married 3 yr ago pre(menarche 3 mth later), not living with husband, no menstru ation, drop foot R (grade 3) and L (grade 3), no rvf, no yankan gishiri, eclampsia yes; normal ap diameter/pubic arch 85°, ar pos euo/f 2.5 cm, f/c 3 cm
- 29.06.11 foley ch 18; free urine flow, euo/bw 13 cm, moderate anterior elevation, euo/b 1.5 cm normal bladder capacity (longitudinal diameter 13-1.5 = 11.5 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 1.5 cm good-quality urethra_euo in anatomic position healing 95% continence 95%



kano mdg span too wide; posterior trauma

m s r/k k (kano) female 27 yr 30.06.11

surgeon: kees waaldijk

assistant: binta musa

diagnosis: PIII (1 alive), cystocele_3° cervix prolapse_rectocele with genuine stress incontinence grade III, something coming out of vagina_leaking urine whilct lying/sitting/stanfing/walking + spontaneous miction for 16 mth that started immediately following last labor for 1 day, in hospital kabo <u>live</u> fem ale, married 15 yr ago pre(menarche 9 mth later), <u>still</u> living with husband, normal menstruation, no drop foot R (grade 5) and L (grade 5), no vvf/rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/**wide** pubic arch 95°, ar pos, decubitus ulcer cervix euo/c 9 cm leaking urine **narrow** urethra_euo in anat pos **no** objective stress incontinence (also not after reduction) euo/bw 17 cm, poor elevation, euo/b 1.2 cm 152 cm

operation: cervix suspension at L

duration: 15 min (**step-by-step teaching**) healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

small avw incision avw ruga fold with transverse extension up to cervix, sharp dissection to create wound area/surface, paravesical space free, fixation of cervix (with adherent pc fascia) onto L superior pubic bone/pc_ilc_iom/atf/atl by 2x seralon, euo/b 2.1 cm, **no** urine thru euo on rest/cough/pressure, foley ch 18, check on hemostasis; free clear urine flow, euo/bw 17 cm, good elastic anterior elevation at L, rotational descent at R, euo/b 2.1 cm (**re-urethralization**) good cervix fixation **increased** bladder capacity (longitudinal diameter 17-2.1 = 15 cm) good position of uv-junction **against** middle third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position

pt 109	kano mdg	vvf 4631
pt	post IIBb repair;correction of defects	vvf 2483
pt	third obstetric leakage; total circumferential trauma	vvf

a g g (kano city)

female 28 yr 30.06.11

- surgeon: kees waaldijk
- assistant: binta musa
- diagnosis: PVI (1alive), post **IIBb** delivery total urine intrinsic_stress incontinence grade III, leaking urine whilst lying/sitting/standing/walking + **no** spontane ous miction for 2 yr which started immediately following obstructed last labor for 2 days, at home sb male, married 15 yr ago post(menarche 2 mth earlier), not living with husband, normal menstruation, no (h/o) drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, eclamspia yes delivery I; normal ap diameter/pubic arch 85°, ar pos, cervix "mobile", **major** atf/atl + pc_io_ilc_iscm loss euo/c 5 cm cystocele + **open** urethra_euo posteriorly drawn inside euo/bw 12 cm, good elevation, euo/b 0.2 cm, i/v 10 cm 153 cm
- operation: urethralization by fascia repair/bilateral fixation

duration: 25 min (**step-by-step teaching**) healing 85% continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

gv/ no leakage urine level in accord with respiration

transverse incision at 1 cm from euo thru repair scar, sharp dissection, 4x2 cm longi tudinal median/L fascia defect from cervix up to 1 cm from euo, <u>longitudinal</u> pc fascia repair by single layer of serafit with normalization of urethra_euo and disappearance of cystocele, bilateral fixation of fascia onto para-euo atf by 1x serafit each side, euo/b now 1.4 cm, **no** urine thru euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw_symphysis/pcf_avw adaptation by 2x everting seralon, check on hemo stasis; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.4 cm (**urethrali zation compression**)

normal bladder capacity (longitudinal diameter 12-1.4 = 10.5 cm) poor position of uv-junction **against** caudad third of symphysis good fascia plate poor-quality_no pcm normal-width 1.5 cm poor-quality urethra_euo in anatomic position since functional anatomy reconstructed good chance of continence (physiologic stress)

pt 110	kano mdg		ıma	vvf 4632
pt 111	total circumferential + iatrogenic trauma			rvf 761
f y b (katsina)	f	female	22 yr	30.06.11

surgeon: kees waaldijk

assistant: binta musa

diagnosis: PI (0 alive), **mutilated** total post **IIAb** urine intrinsic_stress incontinence grade III, residual **mutilated** <u>+</u> 1 cm 0 rectovaginal fistula midline fixed to cervix type **Ia**, leaking urine whilst lying/sitting/standing/walking + **no** spon taneous miction/passing stools pv for 7 yr that started immediately follow ing obstructed labor for 2 days, in hospital funtua sb male, married 9 yr ago pre(menarche 2 mth later), not living with husband, menstruation thru anus together with stools, drop foot R (grade 4-5) and L (grade 4-5), no yankan gishiri, eclampsia yes; ?ap diameter?/normal pubic arch 85°, ar pos, bilateral atf/atl + pc_ilc_iscm loss, "cervix" fixed midline onto sacrum, operated 4x (b/r_id), severe vagina shortening euo/"c" 4 cm **open** euo euo/bw 12 cm, euo/f 0.5 cm, ab/au xx cm, a/f 6 cm, i/v 4 cm 154 cm

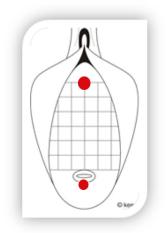
operation: rvf-"repair"/excision of scar tissue/urethralization/bilateral pcf fixation

duration:50 minlast resorthealing both 85%continence 60%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

bilateral re-episiotomy, transverse incision thru rvf, minimal sharp dissection, excision of scar tissue, transverse cervix/rectum closure by single layer of inverting serafit qv: **no** leakage urine level in accord with respiration

transverse incision at 1.5 cm from euo thru repair scar, sharp dissection, excision of scar tissue ++ until "fascia"/bladder, longitudinal "fascia" repair by single layer of invert ing serafit, bilateral fixation of "pc fascia" onto para-euo symphysis/atf by 1x serafit each side, no urine thru euo on rest but still ++ on cough, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.5 cm normal bladder capacity (longitudinal diameter 12-1.5 = 10.5 cm) poor position of uv-junction **fixed against** caudad third of symphysis normal-width 1.5 cm poor-quality urethra_euo in anatomic position



RR preanesthesia: 140/90 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 111	kano mdg	c trauma	rvf 761
pt 110	total circumferential + iatrogeni		vvf 4632
f y b (katsina)	female	22 yr	30.06.11

surgeon: kees waaldijk

assistant: binta musa

diagnosis: PI (0 alive), **mutilated** total post **IIAb** urine intrinsic_stress incontinence grade III, residual **mutilated** <u>+</u> 1 cm 0 rectovaginal fistula midline fixed to cervix type **Ia**, leaking urine whilst lying/sitting/standing/walking + **no** spon taneous miction/passing stools pv for 7 yr that started immediately follow ing obstructed labor for 2 days, in hospital funtua sb male, married 9 yr ago pre(menarche 2 mth later), not living with husband, menstruation thru anus together with stools, drop foot R (grade 4-5) and L (grade 4-5), no yankan gishiri, eclampsia yes; ?ap diameter?/normal pubic arch 85°, ar pos, bilateral atf/atl + pc_ilc_iscm loss, "cervix" fixed midline onto sacrum, operated 4x (b/r_id), severe vagina shortening euo/"c" 4 cm **open** euo euo/bw 12 cm, euo/f 0.5 cm, ab/au xx cm, a/f 6 cm, i/v 4 cm 154 cm

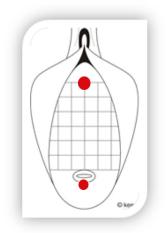
operation: rvf-"repair"/excision of scar tissue/urethralization/bilateral pcf fixation

duration:50 minlast resorthealing both 85%continence 60%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

bilateral re-episiotomy, transverse incision thru rvf, minimal sharp dissection, excision of scar tissue, transverse cervix/rectum closure by single layer of inverting serafit qv: **no** leakage urine level in accord with respiration

transverse incision at 1.5 cm from euo thru repair scar, sharp dissection, excision of scar tissue ++ until "fascia"/bladder, longitudinal "fascia" repair by single layer of invert ing serafit, bilateral fixation of "pc fascia" onto para-euo symphysis/atf by 1x serafit each side, no urine thru euo on rest but still **++** on cough, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.5 cm normal bladder capacity (longitudinal diameter 12-1.5 = 10.5 cm) poor position of uv-junction **fixed against** caudad third of symphysis normal-width 1.5 cm poor-quality urethra_euo in anatomic position



RR preanesthesia: 140/90 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 112 ka pt total circumferential traum	ano na: second obsi	etric fistula	vvf 4633 vvf 3925 rvf aagbq
b i b (kano city)	female	22 yr	30.06.11

- surgeon: kees waaldijk
- assistant: binta musa
- diagnosis: PII (0 alive), severe uv-stricture and minute < 0.1 cm urethrovaginal fistula type **IIAb** slightly at L (0.3 cm 0 bladder_urethra defect) within transverse 5x1 cm pcf defect, leaking urine for 2 yr that started immediately following obstructed last labor for 2 days, in hospital tiga sb female, married 4.5 yr ago post (menarche 3 yr earlier), <u>still</u> living with husband, normal men struation, drop foot R (grade 5) and L (grade 5), healed proximal midine 2 cm 0 pvw_cervix trauma, no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 90°, ar pos, bilateral atf/atl + pc_ilcm loss euo/f 1.5 cm, f/c 4 cm, i/v 11 cm cervix mobile 155.0 cm
- operation: dilatation, uvvf-repair and bilateral pcf fixation
- duration: 15 min healing 95% continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

gentle gradual dilatation from H3 thru H10, fistula demonstrated by gv, transverse inci sion thru fistula/previous repair scar, sharp dissection, tension-free transverse pc fascia repair/bilateral refixation onto paraurethra_euo atf with bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 1.6 cm normal bladder capacity (longitudinal diameter 13-1.6 = 11.5 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 1.5 cm medium-quality urethra_euo in anatomic position



pt 113		kano mdg	vvf 008	vvf 3961 rvf aagcb
z s d (kano ci	ty)	female	45 yr	30.06.11
surgeon.	dr amir imam			

- surgeon: dr amir imam
- assistant: asmau mado
- diagnosis: PXI (7 alve), residual <u>+</u> 1 cm 0 urethrovesicovaginal fistula midline following **complicated** uvvf-repair 8.10.07, <u>still</u> living with husband, no menstruation, no (h/o) drop foot R (grade 5) and L (grade 5), no yankan gishiri; normal AP dia meter/pubic arch 85°, AR pos, pc_ilcm loss due to repair 1x (nasarawa hosp_im) whereby L ureter picked up by sutures, cervix fixed/retracted very high up against sacrum, obesity ++ euo/f 2 cm, f/c 2 cm, i/v 14 cm 166.0 cm
- operation: uvvf-repair

duration: 30 min healing 90% continence 80%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

incision at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/ pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon and check on hemostasis; free urine flow, euo/bw 15 cm, good anterior elevation, euo/b 2.0 cm

normal bladder capacity (longitudinal diameter 15-2 = 13 cm) acceptable position of uv-junction **against** middle/caudad third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 150/100 mm Hg 5': 140/90 10': 130/80 postoperation: 130/80

pt 114 pt	kano mo extensive obstetric trau	0	∨vf 009 kage	vvf 4165 rvf 679
h a w (kano	city)	female	22 yr	30.06.11
surgeon:	dr idris suleiman abubakar			
assistant:	yusuf abdullahi dannafada			
diagnosis:	PII (0 alive), total post extensive grade III, leaking urine whilst lying ous miction for 6 mth which st pain/fever (?miscarriage?), <u>still</u> lin drop foot R (grade 5) and L (g diameter/pubic arch 85°, AR pos happened since completely of euo/bw 16 cm, good elevation, e	g/sitting/stanc arted after p ving with hust rade 5), no y , major pc_ilc < 1 yr after re	ling/walking + ne eriod of lower band, normal me vankan gishiri; n m + total atf/atl le p air? rvf he a	o spontane abdominal enstruation, normal AP oss, ?what aled

operation: elevation of bladder neck

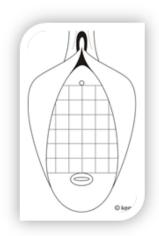
152.0 cm

healing 85% continence 60%

duration: 20 min

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

bilateral paraurethra longitudinal incision, bilateral fixation of "pc fascia" onto para-euo atf by 1x serafit each side, **no** urine thru euo on rest/cough/pressure, ballooning of foley ch 18, longitudinal avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 16 cm, good anterior elevation, euo/b 2.1 cm normal bladder capacity (longitudinal diameter 16-2.1 = 14 cm) good position of uv-junction **fixed against** middle third of symphysis normal-width 0.5 cm poor-quality urethra_euo in anatomic position



pt 115 v	ery extensive <u>inoperab</u>	kano mdg le second obstetric :	vvf 010 fistula type IIA	vvf 3940 b
r i s (kano c	ity)	female	34 yr	30.06.11
surgeon:	dr idris suleiman abuba	akar		
assistant:	nadabu mohammed sh	nitu		
diagnosis:	PVI (3 alive), residual 0 24.9.07, <u>still</u> living with and L (grade 5), no RV arch 90°, AR pos, exte para urethra up to ischi- at tip of proximal "vagir fixed successfu extensive explanation g euo/f 2 cm, f/v 1 cm, i/v	husband, no menstru /F, no yankan gishiri; ensive bilateral pc_ild ac spine, ssl loss, cerv na" in empty pelvis w ul repair delivery I (mr given to patient before	ation, drop foot normal AP dia c_iscm + ATF/A vix remnants fix vith all "remain nsh_sa) 15 yr a	t R (grade 3) meter/pubic AL loss from ed/retracted hing" tissue ago
operation:	uvvf-repair			

duration: 30 min

healing 60% continence 30%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru fistula/repair scar, sharp dissection, abdomen opened, tensionfree transverse bladder/urethra closure by single layer of inverting serafit, bilateral fixation of bladder onto symphysis, **no** urine thru suture line/euo on rest but <u>+</u> on cough, ballooning of foley ch 18, transverse avw adaptation by 3x everting seralon, check on hemostasis; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 2.5 cm normal bladder capacity (longitudinal diameter 13-2.5 = 10.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 140/90 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 116 pt	kano mo total circumferen	•	vvf 011	vvf 803 rvf 108
h t g (kano)		female	33 yr	30.06.11
surgeon:	dr amir imam			
assistant:	nafada			
diagnosis:	PI, now new <u>+</u> 0.5 cm 0 urethrow for post repair instrinsic incontine repair 6.6.94, <u>still</u> living with hush (grade 5) and L (grade 5); severe normal ap diameter/narrow public euo/f 1 cm, f/c 2 cm, i/v 8 cm	ence 3.9.08 (m band, normal r e vagina steno	msh_im nenstru sis/mod) after successful ation, drop foot R lerate shortening;
operation:	uvvf-repair			
duration:	35 min	healin	ng 85%	continence 90%
anesthesia:	spinal L4/L5 with 3 ml bupivacai	ne 0.5%		

incision at fistula edge, sharp dissection, tension-free <u>longitudinal</u> bladder_urethra closure with bladder neck rhaphy by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/ pressure, ballooning of foley ch 18, longitudinal avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 15 cm, good anterior elevation, euo/b 3 cm

normal bladder capacity (longitudinal diameter 15-3 = 12 cm) good position of uv-junction **against** middle third of symphysis normal-width 3 cm medium-quality urethra_euo in anatomic position



RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 117	kano mdg	vvf 4634
pt 118 anterior trauma/posterior cut-thru		r∨f 762

k m d (kano city)

01.07.11

surgeon: kees waaldijk

assistant: binta musa

diagnosis: PI (alive), <u>+</u> 1 cm 0 urethrovesicovaginal fistula type **IIAa** midline, **mutila ted** sphincter ani rupture with 2.5 cm longitudinal anaorectum trauma type **IIb**, **leaking urine/stool_flatus incontinence for 13 days** which started immediately following obstructed labor for 3 days, in hospital <u>live</u> male, married 1 yr ago post(menarche 1 yr earlier), not living with husband, no menstruation, drop foot R (grade 3-4) and L (grade 3-4), no yankan gish iri, no h/o eclampsia; normal ap diameter/wide pubic arch 95°, ar pos, cervix mobile, immediate suturing pp euo/f 2 cm, f/c 3 cm, a/f 0 cm, i/v 12 cm

operation: uvvf-repair, anorectum closure, sphincter ani/perineal body reconstruction

duration: 50 min (**step-by-step teaching**) healing **both** 95% continence **both** 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru/at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure with fascia repair by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon; free urine flow, euo/bw 14 cm, good anterior eleva tion, euo/b 1.6 cm

normal bladder capacity (longitudinal diameter 14-1.6 = 12.5 cm)

poor position of uv-junction against caudad third of symphysis

normal-width 1.5 cm good-quality urethra_euo in anatomic position

incision at pvw edge, minimal sharp dissection, tension-free <u>longitudinal</u> anorectum closure with internal sphincter repair up to anocutaneous junction over 3 cm by double layer of inverting interrupted/continuous serafit, inner ring of external sphincter adapted, end-to-end sphincter ani reconstruction by 2x serafit, since **inflammation/contamina tion ++** only paraanal perineal body adaptation with (in)direct re-union of bulbocaverno sua and transversus perinei muscles by 2x serafit, perineum "adapted" (completely when legs put together) check on hemostasis



pt 118	kano mdg	kano mdg		rvf 762
pt 117	anterior trauma/poste	anterior trauma/posterior cut-thru		vvf 4634
k m d (kano city)	f	emale	15 yr	01.07.11

surgeon: kees waaldijk

assistant: binta musa

diagnosis: PI (alive), <u>+</u> 1 cm 0 urethrovesicovaginal fistula type **IIAa** midline, **mutila ted** sphincter ani rupture with 2.5 cm longitudinal anaorectum trauma type **IIb**, **leaking urine/stool_flatus incontinence for 13 days** which started immediately following obstructed labor for 3 days, in hospital <u>live</u> male, married 1 yr ago post(menarche 1 yr earlier), not living with husband, no menstruation, drop foot R (grade 3-4) and L (grade 3-4), no yankan gish iri, no h/o eclampsia; normal ap diameter/wide pubic arch 95°, ar pos, cervix mobile, immediate suturing pp euo/f 2 cm, f/c 3 cm, a/f 0 cm, i/v 12 cm

operation: uvvf-repair, anorectum closure, sphincter ani/perineal body reconstruction

duration: 50 min (**step-by-step teaching**) healing **both** 95% continence **both** 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

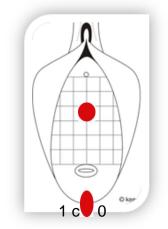
transverse incision thru/at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure with fascia repair by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon; free urine flow, euo/bw 14 cm, good anterior eleva tion, euo/b 1.6 cm

normal bladder capacity (longitudinal diameter 14-1.6 = 12.5 cm)

poor position of uv-junction against caudad third of symphysis

normal-width 1.5 cm good-quality urethra_euo in anatomic position

incision at pvw edge, minimal sharp dissection, tension-free <u>longitudinal</u> anorectum closure with internal sphincter repair up to anocutaneous junction over 3 cm by double layer of inverting interrupted/continuous serafit, inner ring of external sphincter adapted, end-to-end sphincter ani reconstruction by 2x serafit, since **inflammation/contamina tion ++** only paraanal perineal body adaptation with (in)direct re-union of bulbocaverno sua and transversus perinei muscles by 2x serafit, perineum "adapted" (completely when legs put together) check on hemostasis



pt 119	kano mo anterior/posteri	0		vvf 012 rvf
s m g (kano	city)	female 1	6 yr	01.07.11
surgeon:	dr idris suleiman abubakar			
assistant:	nadabi mohammed shitu			
diagnosis:	PI (0 alive), <u>+</u> 1 cm 0 urethrovesit transverse avw trauma/pcf defect immediately following obstructed sb male, married 1 yr ago post husband, no menstruation, drop no yankan gishiri, eclampsia yes neg , no saddle anesthesia, flatu euo/f 4 cm, f/c 2 cm, i/v 13 cm	t, leaking urine f labor for 4 days, (menarche 2 yr foot R (grade 4) a ; normal ap diam	f or 54 in hos earlier and L neter/p	days that started sp (3 days) sanusi r), not living with (grade 3), no rvf, pubic arch 85°, ar
operation:	uvvf-repair + transverse fascia re	epair		
duration:	30 min	healing	90%	continence 90%
anesthesia:	spinal L4/L5 with 3 ml bupivacai	ne 0.5%		

transverse incision thru/at fistula edge, sharp dissection, tension-free transverse blad der/urethra closure with transverse fascia repair by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, ballooning of foley ch 18, transverse avw adaptation by 3x everting seralon, check on hemostasis; free urine flow, euo/bw 16 cm, good anterior elevation, euo/b 4 cm

normal bladder capacity (longitudinal diameter 16-4 = 12 cm)

good position of uv-junction **against** middle third of symphysis (whole urethra fixed) normal-width 4 cm good-quality urethra_euo in anatomic position



- diagnosis: PII (1 alive), <u>+</u> 1 cm 0 urethrovesicovaginal fistula type **IIAa** at midline, leaking urine for 20 yr which started immediately following obstructed last labor for 2 days, in hospital abuth zaria sb female, married 30 yr ago pre (menarche 3 mth later), <u>still</u> living with husband, normal menstruation, bilateral drop foot for 1 mth R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no h/0 eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix fixed midline, operated 1x (zaria-abuth) euo/f 2 cm, f/c 3 cm, i/v 8 cm
- operation: uvvf-repair

duration: 30 min healing 80% continence 80%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

incision at fistula edge, sharp dissection, tension-free <u>longitudinal</u> bladder_urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/ pressure, triple fixation of foley ch 18, longitudinal avw adaptation by 2x everting seralon, check on hemostasise; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 2 cm

normal bladder capacity (longitudinal diameter 11-2 = 9 cm)

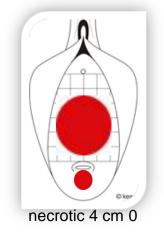
acceptable position of uv-junction **against** middle/caudad third of symphysis normal-width 2 cm medium-quality urethra_euo in anatomic position



RR preanesthesia: 150/90 mm Hg 5': 140/90 10': 130/80 postoperation: 130/80

pt 121	katsina m anterior/posterio	•		cath 1361 rvf
h i b (katsina	a)	female	16 yr	28.06.11
diagnosis:	PII (1 alive), \pm 4 cm 0 black-nee IIA, \pm 2 cm 0 proximal black-nec leaking urine/not passing stor ately following obstructed labor for yr ago pre(menarche 2 mth late ation, drop foot R (grade 5) and L no; normal ap diameter/pubic are euo/f 1.5 cm, f/c 1 cm, a/f 8 cm, no extensive examination possib	rotic "rectovag ols pv for 6 da or 2 days, in ho r), not living w (grade 4), no ch 85°, ar pos f/c 0 cm	jinal fistula" typ a ys which star ospital sb male vith husband, i yankan gishiri	e la midline ted immedi e, married 3 no menstru
28.06.11	suprapubic mass, avw bulging (euo/bw 22 cm), poor anterior el euo/b 1.5 cm foley ch 18; free ur increased bladder capacity (long atonic bladder) poor position of uv-junction agai normal-width 1.5 cm good–qualit probably it will heal since necros	evation after c rine flow, gitudinal diamo nst middle thin ty urethra_euc	draining > 1,50 eter 22-1.5 = 2 rd of symphys o in anatomic p	00 ml urine, 20.5 cm, an is position

03.07.11 not leaking at all documentation



pt 122	katsina m anterior/posteri	•		cath 1362 rvf
b a f (katsina	a)	female	19 yr	28.06.11
diagnosis:	PIII (1 alive), \pm 0.1 cm 0 urethrowithin healing 4x0.5 cm transverter ani trauma with no perineum, 60 days (2 mth) which started imfor 1 days, in hospital sb male, mailier), not living with husband, no min (grade 4), no yankan gishiri, no housing arch 90°, ar poseuo/f 2 cm, f/c 4 cm, a/f 0 cm	rse avw/"fasci leaking uring mediately foll arried 6 yr ago nenstruation,	a" trauma, ant e/flatus incon owing obstructo post(menarch drop foot R (gra	erior sphinc tinence for ed last labor ne 3 mth ear ade 4) and L
28.06.11	foley ch 18; free urine flow, euo/ euo/b 2 cm increased bladder capacity (long bladder in healing phase) acceptable position uv-junction a	gitudinal diam	eter 16-2 = 14	cm, atonic

normal-width 2 cm good-quality urethra_euo in anatomic position

02.07.11 not leaking at all

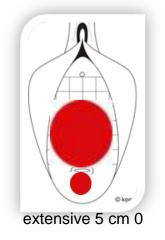


transverse 4x1 cm trauma

katsina mdg
total circumferential trauma

b d d (katsina)	female	15 yr	29.06.11
		~	

- diagnosis: PI (0 alive), extensive $\pm 5 \text{ cm } 0$ **necrotic** urethrovesicovaginal fistula type **IIAb**, $\pm 3 \text{ cm } 0$ **necrotic** proximal pvw, **leaking urine/stool incontinence for 12 days** which started immediately following obstructed labor for 5 days, in hospital sb male, married 1.5 yr ago post(menarche 3 mth ear lier), not living with husband, no menstruation, drop foot R (grade 3-4) and L (grade 3-4), rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos, total broken down wide episiotomy L with **visible stool incontinence** euo/f 1.5 cm, f/c 0 cm, a/f 6 cm
- 29.06.11 foley ch 18; free urine flow, euo/bw 14 cm, moderate anterior elevation, euo/b 2 cm normal bladder capacity (longitudinal diameter 14-2 = 12 cm) acceptable position uv-junction **against** middle/caudad third symphysis normal-width 2 cm medium–quality urethra_euo in anatomic position probably it will **not** heal since deep necrosis
- 03.07.11 leaking insp/ balloon in fistula documentation cath removed



pt 124 katsina mdg ca iatrogenic; yankan gishiri				
a a b (katsin	a)	female	13 yr	30.06.11
diagnosis:	P0, scarred <u>+</u> 0.5 cm 0 urethrow leaking urine for 21 days that se iri by wanzami bco not sleeping w mth ago pre(menarche not yet), r dia meter/pubic arch 85°, ar pos lying/2 more persons/aska/no euo/f 1.5 cm, f/c 4 cm	tarted immed with husband not living with s, breast deve	liately followir , <u>native medic</u> husband, no elopment +, h	ng <u>yankan gish</u> <u>cine</u> , married 3 o rvf; normal ap
30.06.11	foley ch 18; free urine flow, euo euo/b 1.5 cm normal bladder capacity (longitu acceptable position uv-junction a normal-width 1.5 cm good–quali	idinal diamete against mide	er 12-1.5 = 1 dle/caudad th	0.5 cm) ird symphysis

02.07.11 not leaking at all



1

n b k (katsina)	female	13 yr	02.07.1
		•	

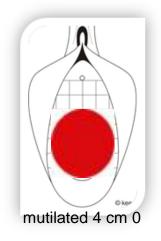
- diagnosis: P0, urge incontinence +++, leaking urine (pat: only at night; never during daytime) + normal miction for 7 yr which started following period of high fever/lower abdominal pain, married 6 mth ago pre(menarche 2 mth later), not living with husband, normal menstruation; normal ap diameter/ pubic arch 85°, ar pos no visible avw trauma 157.0 cm
- 02.07.11 during inspection only urine +++ thru euo without any provocation

first bladder drill for 2-4 wk before further examination/decision

pt 126 katsina mdg vvf 8112 severe iatrogenic mutilation					
a b d sokoto	city	female	36 yr	02.07.11	
surgeon:	kees waaldijk				
assistant:	kabir lawal				
diagnosis:	PVIII (4 alive), severely mutilate type IIAa with bladder base prola immediately following vaginal hys cervix prolapse for 3 yr following ale, married 24 yr ago pre(menar no menstruation, drop foot R (gra gishiri, no eclampsia; normal ap euo/f 2 cm, f/v 0 cm, i/v 5 cm	pse, leaking u sterectomy (so last labor for rche 1 yr later de 5) and L (g	urine for s okoto_pr < 1 day,), not livi grade 5),	5 mth that started iv clin) bco total 3° at home <u>live</u> fem ng with husband, no rvf, no yankan	
operation:	primary suturing as minimum	surgery			
duration:	25 min	healii	ng 75%	continence 85%	

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

difficult reduction of bladder base prolapse, episiotomy L, incision at fistula edge, **no** dissection, tension-free transverse avw/pvw adaptation by 4x everting seralon, <u>still</u> urine ++ thru suture line on flushing with water, triple fixation of foley ch 18 with transverse midline avw adaptation, check on hemostasis, skin closure; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 1.3 cm **principles of septic/minimum surgery** normal bladder capacity (longitudinal diameter 11-1.3 = 9.5 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 1.5 cm good-quality urethra_euo in anatomic position



pt 127

katsina mdg major total circumferential trauma inoperable now; wait 6-8 mth

- h s b (katsina) female 15 yr 02.07.11
- surgeon: kees waaldijk
- assistant: kabir lawal
- diagnosis: PI (0 alive), **extensive** <u>+</u> 6 cm 0 urethrovesicovaginal fistula type **IIAb** with circumferential defect, **leaking urine of 71 days** that started immediately following obstructed labor for 2 days, in hospital sb male, married 3 yr ago (menarche 1.5 yr later), not living at husband, no menstruation, drop foot R (grade 4) and L (grade 4), **healed scarred** proximal pvw at cervix (stools pv for 3 wk), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos, **major** bilateral atf/atl + pc_io_ilc_iscm loss, cervix fixed midline/flush with pvw, fibrosesd scarred pvw at L, loss of obturator membrane with "open" obturator foramen at L euo/f 2 cm, f/c 0 cm, ab/au 1 cm, i/v 9 cm

operation: assessment: inoperable now but probably operable after 6-8 mth

duration: 10 min

healing continence

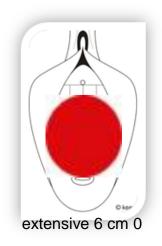
anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

episiotomy L with severing of stenosis

cervix/bladder completely fixed with subtotal avw loss, **good** bladder capacity, cervix/ posterior bladder wall flush with fibrosed/scarred pvw RE/ **no** rectum stricture

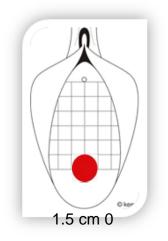
not advisable now to mobilize bladder etc

wait 6 mth to 1 yr then for review and possible operation



pt 128	katsina mdg anterior/iatrogenic trauma; second obstetric fistula			
e r l (kogi)		female	43 yr	02.07.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PIII (1 alive), <u>+</u> 1.5 cm 0 tah-cs-ve urine for 12 yr which started imm last labor for 1 day, sb male, r earlier), <u>still</u> living with husband (grade 4-5) and L (grade 3), no rv eclampsia; normal ap diameter/p fixed midline, successful vvf-repa euo/f 5 cm, f/"c" cm, i/v 11 cm	ediately foll narried 27 d, no mens rf, no circum pubic arch 8 air (mmsh)	owing tah- yr ago pos truation si ncision/yan 35°, ar pos 15 yr ago,	cs bco obstructed st(menarche 3 yr nce, drop foot R kan gishiri, no h/o , cervix remnants
operation:	complicated tah-cs-vvf-repair			
duration:	30 min	hea	aling 75%	continence 95%
anesthesia:	spinal L4/L5 with 3 ml bupivacai	ne 0.5%		

episiotomy L, incision at fistula edge/around posterior cervix remnants, sharp dissec tion, tension-free transverse bladder/post cervix remnants/pvw "closure" by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, avw/pvw adapted, check on hemostasis, epi closure; free urine flow, euo/ bw 12 cm, good anterior elevation, euo/b 3.8 cm (whole urethra against symphysis) normal bladder capacity (longitudinal diameter 12-3.8 = 8 cm) good position of uv-junction **against** middle third of symphysis normal-width 4 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 170/110 mm Hg 5': 160/100 10': 150/90 postoperation: 140/80

pt 129 pt	katsina mdg		vvf 8115/7663 rvf 968
h si m (katsina)	female	18 yr	02.07.11

surgeon: kees waaldijk

assistant: kabir lawal

- diagnosis: PI (0 alive), total post **IIBb** urine intrinsic-stress incontinence grade III, leaking urine whilst lying/sitting/standing/walking + no spontaneous mictu rition following continent urethra/fascia/avw "reconstruction" + rvf-repair 3.7.09, rvf **healed**, not living with husband, normal menstruation, bilateral drop foot for 2 mth R (grade 5) and L (grade 5), no yankan gishiri, no eclapmsia; normal AP diameter **wide** pubic arch 90°, AR pos, bilateral atf/atl + pc_ilc_iscm loss, operated vvf/rvf 5.4.09 (b/r_id), euo pulled inside over 0.5 cm, severe vagina stenosis/shortening subtotal avw loss euo/c 1 cm, euo/b 0.3 cm, i/v 3 cm
- operation: distal urethra_euo minimum surgery last resort final

duration: 20 min

healing 85% continence 60%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

wide H incision around euo, sharp dissection, sharp mobilization of (para)urethra tissue, tension-free <u>longitudinal</u> urethra reconstruction over 1.5 cm by single layer of inverting interrupted serafit, euo/b 1.9 cm, **no** urine thru euo on rest/cough/pressure, triple fixa tion of foley ch 18, avw reconstruction by avw/cervix advancement flap by 2-point para urethra fixation onto symphysis by everting seralon; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.9 cm

normal bladder capacity (longitudinal diameter 12-1.9 = 10 cm)

acceptable position UV-junction **against** middle/caudad third symphysis normal-width 2 cm poor-quality "**scarred**" urethra_euo in anatomic position

pt 130 pt

katsina mdg "inoperable IIBb urine fistula" extensive obstetric trauma

IIdg (zamfara)

female 16 yr

02.07.11

- surgeon: kees waaldijk
- assistant: kabir lawal
- diagnosis: PI (0 alive), sigmoidostomy, rvf **healed** after repair 25.6.09 to 22.07.09, moderate 2.5 cm 0 scarred rectum stricture, **extensive inoperable IIBb** fistula, not living with husband, no menstruation, drop foot R (grade 3) with gm_at contracture and L (grade 3-4), no yankan gishiri; normal ap diameter/borderline pubic arch 80°, ar pos, major bilateral atf/atl + pc_io_ ilc iscm loss + ssl pm trauma, fixed "cervix" shield i/v 8 cm 134.0 cm
- operation: sigmoidostomy closure
- duration: 20 min

healing 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

RE/ rvf healed, blunt disruption of stricture

transverse incision thru/at sigmoidostomy edge, sharp dissection, excision of scar tissue +, tension-free transverse sigmoid closure by double layer of inverting interrupted/conti nuous serafit, transverse skin_fascia adaptation by 1x everting serafit

pt 131

katsina mdg iatrogenic trauma; see vvf 8112 wanzami is even better than doctor

03.07.11

h i g b (rép niger)

female 20 yr

- surgeon: kees waaldijk
- assistant: kabir lawal

diagnosis: PIII (all alive), <u>+</u> 4 cm 0 urethrovesicovaginal fistula type IIAa with bladder base prolapse, leaking urine for 21 days that started immediately follow ing <u>yankan gishiri by wanzami bco total 3° cervix prolapse, native medi cine;</u> lying/mother/aska/tissue removed (-ectomy)
18.05.11 total 3° cervix prolapse for 5 yr that started spontaneously follow ing <u>first</u> labor for 1 day, at home <u>live</u> female, married 7 yr ago post(menar che 1 mth earlier), <u>still</u> living with husband, normal menstruation, drop foot R (grade 5) and L (grade 5), no rvf, no eclampsia; normal ap diameter/wide pubic arch 95°, ar pos, cervix mobile euo/f 2 cm, f/c 0 cm, at op end i/v 10 cm

operation: **state-of-the-art** bilateral ureter catheterization + uvvf-repair

duration: 15 min

healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

bilateral ureter catheterization R/L for 10/20 cm, incision at fistula edge, sharp dissec tion, tension-free transverse bladder/urethra closure with transverse fascia repair by sin gle layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw/cervix adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.2 cm normal bladder capacity (longitudinal diameter 12-2.2 = 10 cm) euo/c 2 cm good position of uv-junction **against** middle third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



pt 132katsina mdgvvf 8117ptsokotovvf 181/667pttotal circumferential traumarvf 26repair of perineal body for better configuration of both continence mechanisms

i b b (sokoto)	fe	emale	28 yr	03.07.11
surgeon:	kees waaldijk			see vvf-	kano 4636

assistant: kabir lawal obesity ++ 2° cervix prolapse

diagnosis: PI, total post **IIBb** urine intrinsic_stress incontinence grade III, leaking urine whilst lying/sitting/standing/walking + **no** spontaneous miction after multiple repair + urethra reconstruction 5.2.98 to 22.5.03, leaking urine for 14 yr which started immediately following obstructed labor for 4 days, in hospital sb female, married 16 yr ago pre(menarche 1 yr later), <u>still</u> living with husband, normal menstruation, drop foot R (grade 4-5) and L (grade 5), no yankan gishiri, eclampsia yes; normal ap diameter/wide pubic arch 90°, bilateral **major** atf/atl + pc_io_ilc_iscm loss, **no** perineal body, opera ted later 2x (abba_wara) **wide open** urethra_euo rvf **healed** euo/c 2 cm euo/bw 12 cm, moderate elevation, euo/b 0.5 cm, i/v 4 cm

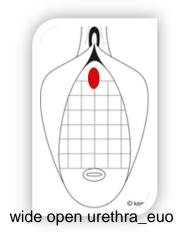
operation: continent urethralization/fascia/avw reconstruction + perineal body repair

duration: 45 min

healing 95% continence 60%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5% last resort final

wide H incision around euo, sharp dissection, sharp mobilization of (para)urethra tissue, tension-free longitudinal urethra_euo rhaphy using paraurethra tissue over 2.5 cm with normalization of urethra_euo by single layer interrupted serafit, bilateral fixation of pcf to paraurethra_euo atf/symphysis by 2x serafit each side, euo/b 1.8 cm, **no** urine thru sutu re line/euo on rest/cough/pressure, triple fixation of foley ch 18, avw reconstruction by avw/cervix advancement flap by 4-point fixation to paraurethra atf/symphysis by evert ing seralon; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 1.8 cm normal bladder capacity (longitudinal diameter 13-1.8 = 11 cm) poor position uv-junction **against** caudad third symphysis normal-width 2 cm medium-quality urethra_euo in anatomic position curved incision at anterior anus, sharp dissection, repair of completely **dehiscent** peri neal body by 4x serafit, perineum well adapted, check on hemostasis



RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 133 pt pt pt	kano mdg total circumferential tr third obstetric leaka see vvf-katsina 81	auma ['] age	a 0035	vvf 4635 vvf 2683 rvf 407 vvf 3714
m i s (kano city)	fem	ale	24 yr	04.07.11

surgeon: kees waaldijk

assistant: binta musa

diagnosis: PIII (1 alive), post **IIBb** delivery total urine intrinsic_stress incontinence grade III, leaking urine whilst lying/sitting/standing/walking + **no** spontane ous miction for 2 yr which started immediately following obstructed last labor for 1 day, in hospital mmsh <u>live</u> male, married 11 yr ago post(menar che 2 mth earlier), <u>still</u> living with husband, normal menstruation, drop foot R (grade 4-5) and L (grade 4-5), **healed** rvf, no yankan gishiri, eclampsia delivery I; normal ap diameter/ pubic arch 85°, ar pos, **major** pc_ic_ic m loss, moderate vagina shortening/stenosis, **major** pcf loss with median defect, 2° cervix prolapse euo/c 1 cm **wide open** urethra_euo euo/bw 9 cm, poor elevation, euo/b 0 cm (**loss**), i/v 8 cm 160.0 cm

operation: continent urethralization/fascia/avw reconstruction last resort final

duration: 25 min (**step-by-step teaching**) healing 85% continence 60%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

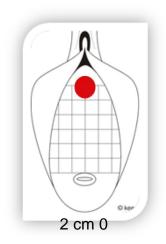
wide H incision around fistula, sharp dissection, sharp mobilization of (para)urethra tissue, tension-free longitudinal urethra_euo rhaphy using paraurethra tissue with longi tudinal repair of very poor-quality pc fascia over 3 cm with normalization of urethra_euo, bilateral fixation of pc fascia onto paraurethra atf/symphysis by 1x serafit each side, euo/b 1.6 cm, **no** urine thru euo on rest/cough/pressure, triple fixation of foley ch 18, avw reconstruction by avw/cervix advancement flap by 4-point fixation onto para urethra atf/symphysis by everting seralon, check on hemostasis; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 1.6 cm **nb should have reinforced pn body** normal bladder capacity (longitudinal diameter 11-1.6 = 9.5 cm) poor position uv-junction **against** caudad third symphysis normal-width 1.5 cm poor-quality urethra_euo in anatomic position will tissue normalize under physiologic stress/estrogen hormones



pt 134	4 kano anteriobilateral trauma				
h h b (kano d	city)	female	14 yr	16.05.11	
surgeon:	kees waaldijk				
assistant:	binta musa				
diagnosis:	PI (0 alive), <u>+</u> 2 cm 0 urethroves ferential defect, leaking urine f following obstructed labor for 2 da sb male, married 2 yr ago pre(m band, no menstruation, drop foot yankan gishiri, eclampsia yes; no cervix mobile, transverse 5x1.5 c euo/f 2 cm, ab/au 1 cm, f/c 2.5 cm	or 71 days w ays (few hours henarche 1 yr R (grade 4) a rmal ap diame cm pcf defect	which started im at home), in hos later), not living and L (grade 3),	mediately spital rano g with hus no rvf, no	
operation:	4/5 circumferential uvvf-repair +	transverse pc	f repair/bilateral	refixation	
duration:	30 min (step-by-step teaching)	healir	ng 95% contine	nce 95%	

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru/at fistula edge, sharp 4/5 circumferential dissection, tension-free 4/5 circumferential uvvf-repair by end-to-end vesicourethrostomy with transverse fascia repair by single layer of inverting serafit, bilateral fixation of pc fascia onto paraurethra_ euo atf/symphysis by 2x serafit each side, **no** urine thru suture line/euo on rest/cough/ pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 13 cm, anterior elevation, euo/b 1.9 cm normal bladder capacity (longitudinal diameter 13-1.9 = 11 cm) acceptable position of uv-junction **fixed against** middle/caudad third of symphysis normal-width 2 cm good urethra_euo in anatomic position



RR preanesthesia: 160/100 mm Hg 5': 160/90 10': 150/80 postoperation: 140/80

pt 135	
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kano mdg extensive total circumferential trauma

female 17 yr 04.07.11

surgeon: kees waaldijk

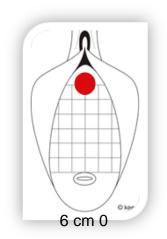
h a g g (kano city)

assistant: binta musa

- diagnosis: PI (0 alive), **extensive** <u>+</u> 6 cm 0 urethrovesicovaginal fistula type **IIBb** with circumferential defect whereby uv-junction slipped upwards/fixed to cepha lad symphysis, **leaking urine for 56 days** which started immediately following obstructed labor for 3 days, in hosp (2 days) gezawa sb male, married 4 yr ago pre(menarche 3 mth later), not living at husband, no menstruation, drop foot R (grade 2-3) and L (grade 3-4), healed proximal midline 1 cm pvw/cervix trauma (never tusa pv), no rvf, no yan kan gishiri, eclampsia yes; normal ap diameter/pubic arch 85°, ar pos, bilateral atf/atl + pc_ilc_iscm loss, cervix mobile, only 1 cm distal anterior urethra left euo/f 0 cm, f/c 4 cm, ab/au 5 cm, i/v 10 cm
- operation: circumferential bladder fixation as first stage minimum surgery
- duration: 25 min healing 85% continence 10%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

episiotomy L, transverse incision thru fistula, sharp circumferential dissection, advancement/caudad fixation of anterior bladder into "euo", tension-free circumferential bladder fixation into "euo" by single layer of inverting serafit, bilateral fixation of pc fascia onto para_euo atf/symphysis by 2x serafit each side, **no** urine thru euo on rest but still + on cough, triple fixation of foley ch 18, transverse avw fixation onto para-euo symphysis by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 0.5 cm (**compression**) normal bladder capacity (**direct** longitudinal diameter 13 cm) poor position of uv-junction **fixed against** caudad third of symphysis normal-width 0.5 cm good-quality urethra_euo almost in anatomic position anterior bladder traumatized/repaired in the process



RR preanesthesia: 140/90 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 136	ot 136 kano mdg anterior trauma			
h y d (kano)		female	26 yr	04.07.11
surgeon:	dr idris suleiman abubakar			
assistant:	dije adamu			
diagnosis:	PI (0 alive), \pm 3 cm 0 urethrovesicovaginal fistula type IIBa , leaking urin for 5 yr which started immediately following obstructed labor for 1 days, a home sb male, married 15 yr ago pre(menarche 2 yr later), <u>still</u> living with husband, normal menstruation, drop foot R (grade 3-4) and L (grade 4 no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pub arch 85°, ar pos, cervix fixed euo/f 0.5 cm, f/c 4 cm, i/v 9 cm 144 cm			
operation:	uvvf-repair			
duration:	30 min		healing 85%	continence 60%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%		

incision at fistula edge, sharp dissection, tension-free transverse bladder/urethra clo sure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pres sure, ballooning of foley ch 18, transverse avw adaptation by 3x everting seralon, check on hemostasis; free urine flow, euo/bw 10 cm, good anterior elevation, euo/b 1.4 cm normal bladder capacity (longitudinal diameter 10-1.4 = 8.5 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 1.5 cm medium-quality urethra_euo in anatomic position



m m k g (kano)	female	15 yr	04.07.11
in in k g (kano)	Tornalo	i O yi	01.07.11

- diagnosis: PI (0 alive), total urine intrinsic_stress incontinence grade III, **leaking urine whilst lying/sitting/standing/walking + no spontaneous miction for 17 days** which started immediately following obstructed labor for 5 days (at home 4 days), in hospital (1 day) minjibir sb female, married 2 yr ago pre(menarche 5 mth later), <u>still</u> living with husband, no menstruation, drop foot R (grade 4) and L (grade 4), no rvf, no yankan gishiri, eclampsia yes; normal ap diameter/borderline pubic arch 80°, ar slightly pos, no saddle anesthesia, no flatus incontinence avw "bulging" **objective** stress **+++** 147 cm
- 04.07.11 foley ch 18; free urine flow, euo/bw 14 cm, poor anterior elevation and euo/b 1 cm normal bladder capacity (longitudinal diameter 14-1 = 13 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 1 cm medium-quality urethra_euo in anatomic position

a a d (kano city)	female	14 yr	04.07.11

- diagnosis: PI (alive), total urine intrinsic-stress incontinence grade III, **leaking urine** whilst lying/sitting/standing/walking + no spontaneous miction for 8 days which started immediately following obstructed labor for 2 days, in hospital mmsh <u>live</u> male, married 1 yr ago pre(menarche 2 mth later), <u>still</u> living with husband, no menstruation, drop foot R (grade 4) and L (grade 4), no rvf, no yankan gishiri, eclampsia yes; normal ap diameter/pubic arch 85°, ar minimally pos, no saddle anesthesia, no flatus incontinence avw "bulging" objective stress ++ obesity ++ 158 cm
- 04.07.11 foley ch 18; free urine flow, euo/bw 11 cm, poor anterior elevation and euo/b 1 cm normal bladder capacity (longitudinal diameter 11-1 = 10 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 1 cm good-quality urethra_euo in anatomic position

pt 139 kano mdg anterior trauma; 6x2 cm longitudinal pcf defect				vvf 4638
a a s l (kano))	female	16 yr	05.07.11
surgeon:	kees waaldijk			
assistant:	binta musa			

diagnosis: PI alive), total **genuine** postpartum urine intrinsic_stress incontinence gra de III, leaking urine whilst lying/sitting/standing/walking + no spontaneous miction for 1 yr which started immediately following obstructed labor for 3 days, in hospital gwarzo (2 days) <u>live</u> male, married 3 yr ago pre(menar che 2 mth later), not living with husband, normal menstruation, drop foot R (grade 4-5) and L (grade 4-5), no rvf, no yankan gishiri, eclampsia yes; normal ap diameter/**wide** pubic arch 90°, ar pos, cervix mobile euo/c 7 cm cystocele ++ **open** urethra_euo posteriorly pulled inside euo/bw 14 cm, poor elevation, euo/b 0.4 cm, i/v 11 cm 158 cm

operation: urethralization by longitudinal fascia repair/bilateral fixation

duration: 25 min (**step-by-step teaching**) healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse curved incision at 2 cm from euo within/parallel to ruga folds, sharp dissec tion, 6x2 cm median longitudinal fascia defect with bilateral retraction, longitudinal repair/rhaphy of pc fascia at 1-5 cm from euo by serafit, since euo still posteriorly pulled inside bilateral fixation of fascia onto para-euo symphysis/atf by 1x serafit each side with repositioning/normalization of urethra-euo, now euo/b 1.6 cm, **no** urine thru euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x evert ing seralon, check on hemostasis; free urine flow, euo/bw 14 cm, good elastic anterior elevation, euo/b 1.6 cm (**urethralization_compression**)

normal bladder capacity (longitudinal diameter 14-1.6 = 12.5 cm due to drinking) poor position UV-junction **against** caudad third symphysis

good fascia plate good-qualkity pcm bladder traumatized/repaired in the process normal-width 1.5 cm urethra_euo in anatomic position physiologic stress

pt 140	kano mdg anterior + severe iatrogenic mutilation			vvf 4639
f i i (ondo)		female	42 yr	05.07.11
surgeon:	kees waaldijk			
assistant:	binta musa			
diagnosis:	PI (0 alive), multiple fistulas a urethrovesicovaginal fistula type immediately following cs fmc o hospital (1 day) sb male, married not living with husband, no men mth R (grade 5) and L (grade gishiri, no h/o eclampsia; ?ap di cervix not identified, vault fixed, uch_ojengbede), severe vagina	IIAa, leaking u wo bco obstru d 15 yr ago pos nstruation sinc 5), rvf healed iameter?/norm operated 2x (a	urine for 14 yr wh ucted labor for st(menarche 14 e, bilateral drop I, no circumcisional pubic arch 8	ich started 3 days, in yr earlier), o foot for 2 on/yankan 5°, ar pos,

euo/f 2 cm, f/"v" 0 cm, i/v 4 cm

167 cm

operation: uvvf-repair as minimum surgery

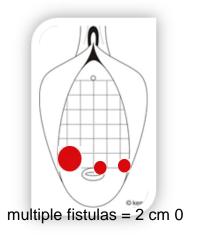
duration: 20 min

healing 85% continence 80%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

nb euo/bw **increased** due to high-voluke drinking from 6.5 to 13 cm transverse incision thru fistulas/"vault", minimal sharp dissection, tension-free transver se bladder/rectum closure by single layer of inverting serafit, **no** urine thru suture line/ euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw/pvw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 2.3 cm normal bladder capacity (longitudinal diameter 13-2.3 = 10.5 cm) good position of uv-junction **against** middle third of symphysis deformed 2.5 cm medium-quality urethra_euo posteriorly pulled inside due to scarring

the problem: scar tissue ++/severe iatrogenic mutilation/everything fixed



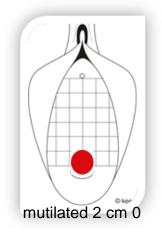
pt 141	kano mdg anterior/posterior trauma + iatrogenic			vvf 4640 rvf
h a g (kano)		female	42 yr	05.07.11
surgeon:	kees waaldijk			
assistant:	binta musa			
diagnosis:	PVIII (4 alive), mutilated <u>+</u> 2 cl	m 0 "intracervio	cal" cs-vesico	cervicouterova

- ginal fistula type I into uterine cavity (though it looks like sth), **mutilated** <u>+</u> 2 cm proximal rectovaginal fistula type IA midline fixed to posterior cervix remnant, leaking urine/passing stools pv for 15 which started immediately following cs pirv clin bco obstructed last labor for 3 days, sb male, married 30 yr ago post(menarche 3 mth earlier), <u>still</u> living with husband, ?normal menstruation?, bilateral drop foot for 1 mth R (grade 5) and L (grade 5), no yankan gishiri, no h/o eclampsia; normal ap diameter/narrow short pubic arch 70°, ar pos, cervix remnants fixed midline, operated 2x danbat euo/f 6 cm, f/"c" 0 cm, i/v 12 cm
- operation: complicated sth-cs-vcuvf-repair

duration: 40 min healing 85% continence 75%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

episiotomy L, incision at fistula edge/thru posterior cervix remnant, sharp dissection, **complicated** tension-free transverse bladder/posterior cervix closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw_anterior cervix/posterior cervix_pvw adaptation by 2x evert ing seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.9 cm **too complicated** for rvf-repair now normal bladder capacity (longitudinal diameter 12-1.9 = 10 cm) good position of uv-junction **against** middle third of symphysis since deformed 2 cm poor.quality urethra_euo posteriorly pulled inside if menstruating then thru euo as discussed with/agreed upon by patient



RR preanesthesia: 140/90 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

Pt 142	kano mdg extensive total circumferential trauma			vvf 4641/2400 rvf 337
f m k (kano)		female	27 yr	05.07.11
surgeon:	dr idris suleiman abubakar/kees	waaldijk		
assistant:	trainee			
diagnosis:	PI, inoperable very extensive r fistula IIAb with circumferential de as last/ only operation 07.11.01, drop foot R (grade 5) and L (gr pubic arch 75°, major pc muscle vagina stenosis/shortening euo/f 1.5 cm, f/"c" 0 cm, i/v 3 cm	efect/urethra no living with ade 4-5)i; a	block follow husband, r small ap c	ving uvvf-"repair" no menstruation, diameter/narrow
operation:	assessment: inoperable			final
duration:	10 min			
anesthesia:	spinal L4/L5 with 4 ml bupivacair	าе 0.5%		

since severe scarring/fibrosis and everything fixed even if closure could be achieved only 10% chance of continence

inoperable

pt 143	kano me anterior tra	•		vvf 015
rabi hamza k	:/kuka (kano city)	female	15 yr	05.07.11
surgeon:	dr idris suleiman abubakar			
assistant:	hafsat ibrahim			
diagnosis:	PI (0 alive), <u>+</u> 2 cm 0 urethroves urine for 3 mth which started imm days, in hospital danbatta sb fer mth earlier), not living with husba 4) and L (grade 4), no rvf, no yan diameter/pubic arch 85°, ar pos euo/f 5 cm, f/c 1 cm, i/v 11 cm	nediately follov male, married : and, no menstr nkan gishiri, no	ving obstructed 2 yr ago post(m uation, drop foc h/o eclampsia;	labor for 3 enarche 3 ot R (grade
operation:	vvf-repair			

duration: 30 min healing 90% continence 90%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

episiotomy R, incision at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 14 cm, good anterior elevation, euo/b 2.6 cm

normal bladder capacity (longitudinal diameter 14-2.6 = 11.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position



pt 144 kano mdg rvf 763 cut-thru trauma; the principles of repair; sphincter ends at 11.30 & 12.30 hr anorectum reconstruction up to anocutaneous junction

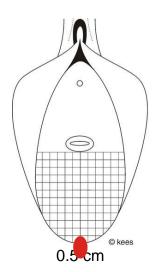
amina abdullahi jaen (kano city) female 24 yr 06.07.11

- surgeon: kees waaldijk
- assistant: binta musa
- diagnosis: PII (all alive), residual sphincter ani rupture with 0.5 cm <u>longitudinal</u> ano rectum trauma, now only stool incontinence for 5 mth which started imme diately following last labor for 1 day, in hospital mmsh <u>live</u> male, married 4 yr ago post(menarche 7 yr earlier), <u>still</u> living with husband, no menstru ation, no drop foot R (grade 5) and L (grade 5), no vvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/**wide** pubic arch 95°, ar pos, opera ted 8.3.11 (laure_im) obesity +++ never leaking urine a/f 0 cm, i/v 14 cm tight introitus since perineum too long 151 cm
- operation: anorectum closure and sphincter ani_perineal body reconstruction
- duration: 20 min (**step-by-step teaching**) healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

longitudinal median incision thru **scarred** perineum up to anorectum defect, minimal sharp dissection with freshening of retracted sphincter ends, tension-free <u>longitudinal</u> anorectum closure with adaptation_rhaphy of internal sphincter up to anocutaneous junction (with repositioning of anterior anus) by 1x inverting serafit, inner ring of external sphincter adapted, end-to-end external sphincter ani reconstruction by 2x serafit, perineal body repair with (in)direct re-union of transversus perinei muscles and (in)direct posterior re-union of bulbocavernosus muscles by 2x serafit, perineum well adapted with anus in anatomic position, check on hemostasis

foley ch 18; free urine flow, euo/bw 12 cm, good elevation, euo/b 2 cm



RR preanesthesia: 140/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 145	kano mdg nicely healed first stage type IIBb minimum surgery			vvf 4642/4554 ry
asmau maig	oro kiyawa (kano)	female	16 yr	06.07.11
surgeon:	kees waaldijk			
assistant:	binta musa			
diagnosis: residual 2x1 cm urethrovaginal fistula = distal urethra loss following nicely healed circumferential bladder fixation as first stage 8.11.10, not living with husband, normal menstruation, drop foot R (grade 4-5) and L (grade 4-5); normal ap diameter/pubic arch 85°, ar pos, bilateral atf/atl + pc_ilc _iscm loss, cervix fixed/retracted midline euo/f 0 cm, f/c 3 cm, ii/v 10 cm 156 cm				
operation:	continent urethra/fascia/avw reconstruction as second stage			
duration:	45 min (step-by-step teaching)		healing 85	continence 60%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

re-episiotomy L, wide H incision around fistula, sharp dissection, sharp mobilization of (para)urethra tissue, tension-free <u>longitudinal</u> urethra reconstruction over 2 cm with repositioning of retracted uv-junction by single layer of inverting interrupted serafit, bilate ral fixation of good-quality pc fascia onto paraurethra_euo atf/symphysis by 2x serafit each side, euo/b 1.3 cm, **no** urine thru suture line/euo on rest/cough/pressure, triple fixa tion of foley ch 18, avw reconstruction by avw advancement flap by 4-point fixation onto paraurethra_euo atf/symphysis by everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.3 cm

normal bladder capacity (longitudinal diameter 12-1.3 = 10.5 cm)

poor position uv-junction against caudad third symphysis

normal-width 1.5 cm good-quality urethra_euo in anatomic position

the problem: continuous pull/traction by fixed cervix onto posterior urethra wall



pt 146 pt 147				vvf 4643 rvf 764/749
a j k f (kano city)	female	31 yr	06.07.11

- surgeon: kees waaldijk
- assistant: binta musa
- diagnosis: PV (2 alive), <u>+</u> 4 cm 0 urethrovesicovaginal fistula up to L cephalad sym physis with bladder base prolapse type **IIAb**, leaking urine for 5 mth that started immediately following obstructed labor for 3 days (1 home 2 hosp), in hospital sb male, married 18 yr ago pre(menarche 3 mth later), <u>still</u> living with husband, no menstruation, drop foot R (grade 4-5) and L (grade 4), no yankan gishiri, no h/o eclampsia; normal AP diameter/**wide** pubic arch 95°, AR pos, still small anterior sphincter ani defect from 11.30 to 12.30 hr (total stool_flatus continence), immediate suturing pp, cervix fixed midline, obesity ++, bilateral atf/atl + pc_ilc_iscm loss L >> R euo/f 2.5 cm, f/c 0 cm, i/v 9 cm
- operation: ureter R, uvvf-repair and sphincter ani_perineal body repair

duration: 60 min (**step-by-step teaching**) healing both 95% continence both 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

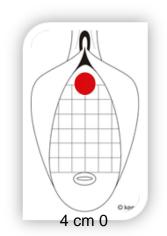
re-episitomy L, both ureters identified but only R can be catheterized for 20 cm, incision at fistula edge, sharp 3/4 dissection, **under some tension** 3/4 circumferential bladder urethra closure with bilateral fixation of pc fascia onto paraurethra_euo atf by single layer of inverting serafit, **no** urine thru euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw/mutilated cervix adaptation by 3x everting seralon; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 2.6 cm

normal bladder capacity (longitudinal diameter 11-2.6 = 8.5 cm)

good position of uv-junction against middle third of symphysis

normal-width 2.5 cm good-quality urethra_euo in anatomic position

extension of episiotomy to over anterior anus, sharp dissection, tension-free end-to-end sphincter ani reconstruction by 2x serafit, perineal body reinforcement by 2x serafit, check on hemostasis, episiotomy closure



RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 147	kano	rvf 764/749		
pt 146	kano	vvf 4643		
anterior + cut-thru trauma				

a j k f (kano city)

female

06.07.11

- surgeon: kees waaldijk
- assistant: binta musa
- diagnosis: PV (2 alive), <u>+</u> 4 cm 0 urethrovesicovaginal fistula up to L cephalad sym physis with bladder base prolapse type **IIAb**, leaking urine for 5 mth that started immediately following obstructed labor for 3 days (1 home 2 hosp), in hospital sb male, married 18 yr ago pre(menarche 3 mth later), <u>still</u> living with husband, no menstruation, drop foot R (grade 4-5) and L (grade 4), no yankan gishiri, no h/o eclampsia; normal AP diameter/**wide** pubic arch 95°, AR pos, still small anterior sphincter ani defect from 11.30 to 12.30 hr (total stool_flatus continence), immediate suturing pp, cervix fixed midline, obesity ++, bilateral atf/atl + pc_ilc_iscm loss L >> R euo/f 2.5 cm, f/c 0 cm, i/v 9 cm
- operation: ureter R, uvvf-repair and sphincter ani_perineal body repair

duration: 60 min (**step-by-step teaching**) healing both 95% continence both 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

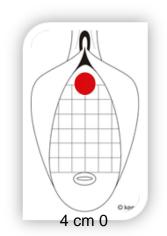
re-episitomy L, both ureters identified but only R can be catheterized for 20 cm, incision at fistula edge, sharp 3/4 dissection, **under some tension** 3/4 circumferential bladder urethra closure with bilateral fixation of pc fascia onto paraurethra_euo atf by single layer of inverting serafit, **no** urine thru euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw/mutilated cervix adaptation by 3x everting seralon; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 2.6 cm

normal bladder capacity (longitudinal diameter 11-2.6 = 8.5 cm)

good position of uv-junction against middle third of symphysis

normal-width 2.5 cm good-quality urethra_euo in anatomic position

extension of episiotomy to over anterior anus, sharp dissection, tension-free end-to-end sphincter ani reconstruction by 2x serafit, perineal body reinforcement by 2x serafit, check on hemostasis, episiotomy closure



RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 148	ot 148 kano mdg anterior/posterior trauma				
b m b g (kan	b m b g (kano city) female 15 yr				
surgeon:	dr idris suleiman abubakar				
assistant:	hafsat ibrahim				
diagnosis:	for 28 days that started immediately following obstructed labor of 2 day in hosp mmsh (1 day) sb female, married 15 mth ago post(menarche 1 earlier), not living with husband, no menstruation, drop foot R (grade and L (grade 4), no rvf, no yankan gishiri, eclampsia yes; normal ap d meter/pubic arch 85°, ar slightly pos, flatus incontinence, cervix mobile			ed labor of 2 days, ost(menarche 1 yr o foot R (grade 4) es; normal ap dia	
operation:	uvvf-repair				
duration:	50 min	healir	ng 85%	continence 85%	
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%			
episiotomy I	R incision at fistula edge sharr	n dissection	tension	free longitudinal	

episiotomy R, incision at fistula edge, sharp dissection, tension-free <u>longitudinal</u> bladder_urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, ballooning of foley ch 18, <u>longitudinal</u> avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 2.5 cm

normal bladder capacity (longitudinal diameter 13-2.5 = 10.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 120/80 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 149	iat	kano mdg rogenic trauma	vvf 017	vvf 1998/2663
m a g (kano))	female	52 yr	06.07.11
surgeon:	dr idris suleiman abub	akar		
assistant:	hafsat ibrahim			
diagnosis:	PIX (allalive), residual \pm 0.5 cm 0 urethrovesicovaginal fistula type IIBa a midline following multiple repairs 6.3.00 to 15.7.02 and 1x (mmsh_im) still living with husband, menopause 5 yr ago; normal ap diameter/pubil arch 85°, ar pos, cervix mobile euo/f 2 cm, f/c 5 cm, i/v 9 cm 161.5 cm			
operation:	uvvf-repair			
duration:	30 min	l	healing 90%	continence 50%
anesthesia:	spinal L4/L5 with 3 ml	bupivacaine 0.5%		

transverse incision thru/at fistula, sharp dissection, tension-free transverse bladder/ urethra closure with fascia repair by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, ballooning of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 10 cm, moderate anterior elevation, euo/b 1.6 cm

normal bladder capacity (longitudinal diameter 10-1.6 = 8.5 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 1.5 cm medoium-quality urethra_euo in anatomic position



RR preanesthesia: 130/90 mm Hg 5': 130/80 10': 120/70 postoperation: 120/70

pt 150	kano mdg total circumferential trauma		vvf 018	3 vvf 2111
b h t (kano)		female	25 yr	06.07.11
surgeon:	dr imam amir yola			
assistant:	hafsat ibrahim			
diagnosis:	PI (0 alive), total post extensive IIAb urine intrinsic-stress incontinence grade III, leaking urine whilst lying/sitting/standing/walking for 11 yr after successful closure 16.10.00, <u>still</u> with husband, no menstruation, drop foot R (grade 5) and L (grade 5); borderline ap diameter/narrow public arch 60°, lpl stricture patient euo/bw 13 cm, poor elevation, euo/b 1 cm, i/v 6 cm 149.0 cm			ing for 11 yr after enstruation, drop
operation:	elevation of bladder neck			
duration:	30 min	healir	ng 85%	continence 70%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%		

bilateral severing of lpl stricture, transverse curved incision at 1 cm from euo, rhaphy of pc fascia at 1-4 cm from euo by single layer of serafit, euo/b bilateral fixation of pc fas cia onto paraurethra_euo atf by 2x serafit each side, euo/b 2.4 cm, **no** urine thru euo on rest/cough/pressure, ballooning of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 2.4 cm

normal bladder capacity (longitudinal diameter 13-2 = 11 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm medium urethra_euo in anatomic position

> RR preanesthesia: 120/70 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 151 kano mdg vvf 4644 anterior trauma; demonstration of complicated minute fistula				
h u r/k (kano	city)	female	32 yr	07.07.11
surgeon:	kees waaldijk			
assistant:	binta musa			
diagnosis:	PVI (1 alive), minute < 0.1 cm 0 midline within 4x0.2 cm transvers which started immediately followin last labor for 2 days, sb male, n later), <u>still</u> living with husband, ?li (grade 4) and L (grade 5), no rvf, normal ap diameter/pubic arch 85 objective stress +++/ deformed u euo/f 2.5 cm, f/c 3 cm, i/v 11 cm	se avw/pcf trau ng ?sth?-cs jah narried 20 yr a ttle? menstru a no yankan gis 5°, ar pos, cerv	uma, leaking uri hun (1 day) bco ago pre(menar ation, bilateral c shiri, eclampsia vix remnants fixe	ine for 5 yr obstructed che 9 mth drop foot R delivery I; ed midline,
operation:	complicated uvvf-repair			

duration: 40 min healing 90% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

episiotomy L, transverse incision thru fistula/avw trauma, sharp dissection, excision of scar tissue ++, then **gv needed to identify fistula**, tension-free transverse pc fascia repair with bladder/urethra closure by single layer of inverting serafit with normalization of urethra-euo, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 14 cm, good anterior elevation, euo/b 2.2 cm normal bladder capacity (longitudinal diameter 14-2.2 = 12 cm) good position of uv-junction **against** middle third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



RR preanesthesia: mm Hg 5': 10': postoperation:

pt 152 pt	kano mdg katsina; total circumferential trauma; second fistula			vvf 4645 vvf 6417
s n f (katsin	a)	female	22 yr	07.07.11
surgeon:	kees waaldijk			
assistant:	binta musa			

diagnosis: PII, **second extensive** <u>+</u> 1.5 cm 0 urethrovesicovaginal fistula type **IIBb**, leaking urine for 6 mth which started immediately following obstructed labor for 1 day, in hospital funtua sb male, married 10 yr ago pre(menar che 1 yr later), <u>still</u> living with husband, no menstruation, drop foot R (grade 4) and L (grade 4), no rvf, no yankan gishiri, eclampsia delivery I; normal ap diameter/pubic arch 85°, ar pos, bilateral atf/atl + major pc_io: ilc_iscm loss (**bare pubic bones**), slight lpl stricturedistal, 2° cervix pro lapse, more or less ok until PII, **wide open traumatized** urethra_euo euo/f 1 cm, f/c 0.5 cm, i/v 8 cm obesity ++ 160.0 cm

operation: "continent urethra/fascia/avw reconstruction" last resort

duration: 40 min (**step-by-step teaching**) healing 85% continence 60%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

re-episiotomy L, wide H incision around fistula, sharp dissection, sharp mobilization of (para)urethra tissue, tension-free <u>longitudinal</u> urethra reconstruction over 1.5 cm with repositioning of retracted uv-junction by single layer of inverting interrupted serafit, bilateral fixation of "pc fascia"/cervix onto para_euo atf/symphysis by 1x serafit each side, euo/b 1.2 cm, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, avw reconstruction by avw/cervix advancement flap by 4-point fixation to paraurethra_euo atf/symphysis by everting seralon, check on hemostasis, episiotomy closure; free urine flow, euo/bw 8 cm, good anterior elevation, euo/b 1.2 cm normal bladder capacity (longitudinal diameter 8-1.2 = 7 cm) poor position uv-junction **against** caudad third symphysis PII (0 alive) normal-width 1 cm poor-quality urethra_euo in anatomic position



RR preanesthesia: 140/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 153 extensive	pt 153 kano mdg vvf 4647 extensive total circumferential trauma + iatrogenic; inoperable type IIBb & la				
s u k d/t (kai	no city)	female	38 yr	07.07.11	
surgeon:	kees waaldijk/dr idris suleiman a	bubakar			
assistant:	binta musa			pt 651 rvf 765	
diagnosis:	PI (0 alive), mutilated extensive type IIBb with circumferential det type Ia within stone hard fibrose passing stool pv for 20 yr which s labor for 3 days, in hospital gw (menarche 1 mth later), <u>still</u> livin bilateral drop foot for 2 mth R (gr ri, no h/o eclampsia; normal ap d major atf/atl + pc_io_ilc_iscm los operated 1x (zaria_abuth), "cervi euo/f 0 cm, f/c 2.5 cm, ab/au 3 c	fect, scarred ed pvw fixed tarted immed varzo sb male ng with husba ade 5) and L iameter/pubic ss, cervix fixed	1.5 cm to "cerv iately fo e, marri nd, nor (grade 5 arch 85 d, sever	0 proximal rvf at R vix", leaking urine/ ollowing obstructed ied 25 yr ago pre mal menstruation, 5), no yankan gishi 5°, ar pos, bilateral	
operation:	final assessment of "inoperable	e" type IIBb a	nd la fi	stulas	
duration:	25 min	heali	ng	continence	

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

bilateral episiotomy with severing of **stone-hard** stenosis

severely mutilated type **IIBb** fistula with bilateral ureter prolapse, direct bladder diameter 4 cm even if it would be possible to close it **no chance of continence mutilated** type **Ia** proximal rvf at R fixed to cervix; it is "possible" to close it but then menstruation thru anus

it is far too dangerous to continue

meticulous closure of episiotomies, check on hemostasis



pt 154 extensive	kano md total circumferential trauma + ia	0	operable type	rvf 765 IIBb & Ia
s u k d/t (ka	no city)	female	38 yr	07.07.11
surgeon:	kees waaldijk/dr idris suleiman a	bubakar		
assistant:	binta musa		pt 3861	vrvf 4647
diagnosis:	PI (0 alive), mutilated extensive type IIBb with circumferential def type Ia within stone hard fibrose passing stool pv for 20 yr which s labor for 3 days, in hospital gw (menarche 1 mth later), <u>still</u> livin bilateral drop foot for 2 mth R (gr ri, no h/o eclampsia; normal ap d major atf/atl + pc_io_ilc_iscm los operated 1x (zaria_abuth), "cervi euo/f 0 cm, f/c 2.5 cm, ab/au 3 c	fect, scarred ed pvw fixed started immed varzo sb male ng with husba ade 5) and L iameter/pubic ss, cervix fixed	1.5 cm 0 proxin to "cervix", lea iately following e, married 25 y ind, normal me (grade 5), no ya c arch 85°, ar po d, severe vagin	nal rvf at R king urine/ obstructed yr ago pre nstruation, ankan gishi os, bilateral
operation:	final assessment of "inoperable	e" type IIBb a	and la fistulas	

duration: 25 min healing continence

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

bilateral episiotomy with severing of **stone-hard** stenosis

severely mutilated type **IIBb** fistula with bilateral ureter prolapse, direct bladder diameter 4 cm even if it would be possible to close it **no chance of continence mutilated** type **Ia** proximal rvf at R fixed to cervix; it is "possible" to close it but then menstruation thru anus

it is far too dangerous to continue

meticulous closure of episiotomies, check on hemostasis



kano mdg anterior trauma

surgeon: dr idris suleiman abubakar

assistant: hafsat ibrahim

diagnosis: PII (0 alive), <u>+</u> 1 cm 0 urethrovesicovaginal fistula type I at midline, leaking urine for 39 days pp which started immediately (upon catheter removal 10 days) following obstructed last labor for 1 day, in hospital gezawa sb male, married 3 yr ago pre(menarche 4 mth later), not living with husband, no menstruation, drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, eclampsia yes; normal ap diameter/pubic arch 85°, ar pos, cervix mobile euo/f 5 cm, f/c 1 cm, i/v 13 cm

operation: vvf-repair

duration: 30 min healing 90% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

episiotomy L, transverse incision thru/at fistula edge, sharp dissection, tension-free transverse bladder closure by single layer of inverting serafit, **no** urine thru suture line/ euo on rest/cough/pressure, ballooning of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 14 cm, good anterior elevation, euo/b 2.6 cm

normal bladder capacity (longitudinal diameter 14-2.6 = 11.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.6 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 160/100 mm Hg 5': 150/100 10': 150/90 postoperation: 140/90

pt 156 kano mdg total circumferential trauma			vvf 020 cath 930	
f a b k (kano)	female	14 yr	07.07.11
surgeon:	dr imam amir yola			
assistant:	hafsat ibrahim			
diagnosis:	vagina stenosis, leaking urine for 4 mth which started 10 days following obstructed labor for 3 days, in hospital gwarzo (1 day) sb male, married 1.5 yr ago pre(menarche 4 mth later), <u>still</u> with husband, normal menstru ation, drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix mobile			10 days following sb male, married l, normal menstru yankan gishiri, no oos, cervix mobile
operation:	gradual dilatation of distal vagina	a stenosis + ca	atheter	
duration:	20 min	healir	ng 95%	continence 95%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%		

gradual dilatation of distal vagina stenosis ballooning of foley ch 18; free urine flow **increased** bladder capacity (longitudinal diameter 20-1.6 = 18.5; **atonic bladder**) poor position of uv-junction **against** caudad third of symphysis normal-width 1.5 cm good-quality urethra_euo in anatomic position

pt 157 anteri pt	obilateral + iatrogenic tr	kano mdg rauma; pat not coop d if she has delivere		vvf 4648 history vvf 1272
h h b (kano)	•	female	33 yr	08.07.11
surgeon:	kees waaldijk			
assistant:	binta musa			

- diagnosis: PII (0 alive), **new** <u>+</u> 1.5 cm urethrovesicovaginal fistula midline type **IIBb** after period of vomiting/fever/headach 6 mth following **successful** urethra /avw reconstruction 25.3.96, , leaking 15 yr after "miscarriage", at home sb female married 20 yr ago pre(menarche 3 mth later) not living with husband, normal menstruation, bilateral drop foot for 2 mth (now both grade 5), no rvf, no eclampsia; normal ap diameter/**wide** pubic arch 95°, operated 1x (zaria_abuth), **no** longer mutilation, bilateral atf/atl + pc_io_ ilc_iscm loss, no pcf connection at L to atf obesity ++ euo/f 3 cm, f/c 2 cm, i/v 12 cm
- operation: uvvf-repair + bilateral pcf refixation

duration: 40 min healing 90% continence 60%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

re-episiotomy L, transverse incision thru/at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, bilateral fixation of poor-quality "pc fascia" onto paraurethra_euo atf/symphysis by 2x serafit each side, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transver se avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 2.4 cm normal bladder capacity (longitudinal diameter 13-2.4 = 10.5 cm) good position of uv-junction **fixed against** middle third of symphysis

normal-width 2.5 cm medium-quality urethra_euo in anatomic position



RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

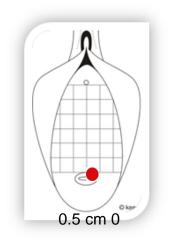
pt 158 pt	kano mdg third obstetric fistula			vvf 4649 vvf 4251 cath 808
h i k (kano c	ity)	female	27 yr	08.07.11
surgeon:	kees waaldijk			
assistant:	binta musa			
diagnosis:	PVII (3 alive), <u>+</u> 0.5 cm 0 "cs"- slightly at L, leaking urine for 3 r obstructed last labor for 2 day, in cs but not done) sb male, ma earlier), <u>still</u> at husband, normal r 5) and L (grade 5), no rvf, no ya arch 85°, ar pos, anterior cervix_ EUO/F 6 cm, F/C 0 cm, i/v 11 cr	nth which sta n hospital (2 c rried 14 yr a menstruation, ankan gishiri; _uterus loss,	arted immediate days as booked ago post(mena no (h/o) drop fo normal ap diat cervix fixed/ret	ely following I for elective rche 2 mth oot R (grade meter/pubic
operation:	"cs"-vcvf-repair			

duration:20 minhealing 85%continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru fistula/"cervix", sharp dissection, tension-free transverse bladder closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/ pressure, triple fixation of foley ch 18, transverse avw/L cervix adaptation by 1x everting seralon, check on hemostasise; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 1.0 cm

normal bladder capacity (longitudinal diameter 13-1.0 = 12 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 1 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 159		kano mdg	I	vvf 021	vvf	1511/1590/3595
s m r (kano d	city)		female	ə 30	yr	08.07.11
surgeon:	dr idris suleiman abuba	ıkar				
assistant:	hafsat ibrahim					
diagnosis:	PI (0 alive), completely of 97 to 8.6.06 of extensiv IIBb with circumferentian normal menstruation, of <u>yankan gishiri during la</u> arch 75°, severe vagina euo/stenosed bladder of	ve <u>obstetri</u> Il defect/bla Irop foot R Ibor by un Stenosis/s	<u>c +</u> 3 c adder b (grad gozom shorter	m 0 urethi base prolap le 4-5) an <u>la;</u> ?ap dia ning, ba ha	roves ose, d L (amet anya	sicovaginal fistula not with husband, (grade 5), no rvf, er?/narrow pubic ko kadan
operation:	dilatation + urethra/avw	reconstru	ction			last resort final
duration:	30 min			healing 6	0%	continence 40%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

gradual dilatation of bladder opening, wide U incison, sharp dissection of scarred paraurethra tissue, bilateral fixation of "pc fascia" onto paraurethra atf by 1x serafit each side, tension-free longitudinal urethra reconstruction by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, avw covering by small rotation flap from L labia, check on hemostasis; free urine flow, euo/bw 8 cm, good anterior elevation, euo/b 1.0 cm normal bladder capacity (longitudinal diameter 8-1.0 = 7 cm)

poor position of uv-junction **against** caudad third of symphysis normal-width 1 cm poor-quality urethra_euo in anatomic position the **problem right from the beginning:** severe scarring/fibrosis

pt 160	kano mdg	vvf 4650
	post IIAb repair; anteriobilateral trauma	

23 yr

09.07.11

h a y (kano city) female

surgeon: kees waaldijk

assistant: binta musa

diagnosis: PIV (2 alive), **mutilated** post **IIAb** total urine intrinsic_stress incontinence grade III, leaking urine whilst lying/sitting/standing/walking + no spontane ous for 8 mth following circumferential repair 1.11.10 which started imme diately following obstructed last labor for 2 days, in hospital (1 day) d/tofa sb male **twins**, married 10 yr ago pre(menarche 3 mth later), <u>still</u> living with husband, normal menstruation, no drop foot R (grade 4) and L (grade 5), no rvf; normal ap diameter/**wide** pubic arch 95°, ar pos, cervix mobile, bilateral atf/atl + pc_ilc_iscm loss euo/c 6 cm **deformed** urethra_euo in anatomic position euo/bw 12 cm, poor elevation (cystocele +++), euo/b 0.5 cm,i/v 12 cm

operation: urethralization by longitudinal fascia repair/refixation 153 cm

duration: 25 min (**step-by-step teaching**) healing 95% continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

urine level in accord with respiration excision of mutilated avw transverse incision at 1 cm from euo thru repair scar, sharp dissection, longitudinal 4x1.5 cm fascia defect from cervix up to 1.5 cm from euo, longitudinal repair/rhaphy of inflamed pc fascia from 1.5 to 5 cm from euo by serafit, bilateral fixation of fascia onto paraurethra_euo atf by 2x seralon each side with normalization of urethra_euo, euo/b now 1.6 cm, **no** urine thru euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.6 cm (**urethralization_compression**) normal bladder capacity (longitudinal diameter 12-1.6 = 10.5 cm) poor position of uv-junction **against** caudad third of symphysis good fascia plate normal-width 1.5 cm medium-quality urethra_euo in anatomic position under physiologic stress inflammation wil disappear and tissues will normalize

> RR preanesthesia: 120/70 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 161 pt	kano mdg total circumferential trauma; inoperable IIAb			vvf 4651 rvf 149
i l k (kano)		female	40 yr	09.07.11
surgeon:	kees waaldijk			
assistant:	binta musa			
diagnosis:	PVI (3 alive), extensive ± 4 cm 0 urethrovesicovaginal fistula type IIAb fix ed to cephalad symphysis with circumferential defect/subtotal bladder loss, leaking urine for 17 yr which started immediately following last ob structed for 3 days, in hospital sb male, married 28 yr ago pre(menarche 1 yr later), not living with husband, normal menstruation, drop foot R (grade 3-4) and L (grade 4-5), no yankan gishiri, no h/o eclampsia; ?ap diameter/borderline pubic arch 80°, moderate vagina stenosis/shortening, bilateral atf/atl + ilc_iscm loss (paraurethra intact), rvf healed; "cervix" with in scarred proximal vagina stricture euo/f 3.5 cm, f/"c" 0 cm, ab/au 2 cm, i/"c" 4 cm			ct/subtotal bladder ly following last ob ago pre(menarche ation, drop foot R n/o eclampsia; ?ap tenosis/shortening, ealed; "cervix" with
operation:	final assessment inoperable	llAb		
duration:	10 min	heali	ng	continence
anesthesia:	spinal L4/L5 with 3 ml bupivacai	ne 0.5%		

goode-quality urethra_euo in anatomic position totally attached to symphysis, direct bladder longitudinal diameter 2.5 cm since everything fixed it is not possible/advisable to do anything

final decision: inoperable IIAb



pt 162 pt	kano mdg total circumferential trauma; second fistula		vvf 4652 vvf 3705 rvf aagaa	
u m r (kano city)		female	30 yr	09.07.11

surgeon: kees waaldijk

vvf 3773/3969

- assistant: binta musa
- diagnosis: PIV (0 alive), minute < 0.1 cm 0 urethrovesicovaginal fistula with distal **obliterated** neourethra type **IIBb**, leaking urine for 4 mth that started im mediately following obstructed last labor ("miscarriage") x 1 days, at home sb male, married 17 yr ago post(menarche 3 mt earlier), <u>still</u> living with husband, normal menstruation, drop foot R (grade 4-5) and L (grade 4-5), **healed** 0.5 cm 0 proximal pvw at cervix (tusa pv for 1 mth), no yankan gishiri, eclampsia delivery I; normal ap diameter/pubic arch 85°, ar pos, **major** pc_ic_ic + io muscle + atf/atl loss, pcf connected, moderate vagina shortening, operated 26/2-05 (mmsh_ unfpa_0145_sa obesity ++ "euo"/f 1.5 cm, f/c 3 cm, i/v8 cm cervix fixed onto i spine R 148 cm
- operation: disobliteration + uvvf-repair **minimum surgery**

duration: 20 min

healing 85% continence 60%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

disobliteration by stab incision, transverse incision thru fistula, minimal sharp dissection tension-free transverse closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18 with transverse avw adapta tion, check on hemostasis, skin closure; free urine flow, euo/bw 8 cm, anterior elevation, euo/b 1.6 cm

moderate bladder capacity (longitudinal diameter 8-1.6 = 6.5 cm) poor position of uv-junction **fixed against** caudad third of symphysis normal-width 1.5 cm poor-quality urethra_euo in anatomic position the **problem: continuous pull/traction by fixed cervix**



RR preanesthesia: 140/90 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 163	kano mdg total circumferential trauma		rvf 001
h d r (kano city)	female	31 yr	09.07.11

surgeon: dr idris suleiman abubakar

assistant: hafsat ibrahim

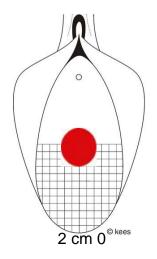
- diagnosis: PI (0 alive), <u>+</u> 2 cm 0 rectovaginal fistula type **IIa**, **extensive** 4 cm 0 urethrovesicovaginal fistula type **IIBb**, passing stools pv/leaking urine for 16 yr which started immediately following obstructed labor for 2 days, in hospital mmsh sb female, married 18 yr ago post(menarche 1 mth earlier) <u>still</u> living with husband, no menstruation since, bilateral drop for 2 mth foot R (grade 4) and L (grade 5), no yankan gishiri, eclampsia yes;?ap dia meter?/normal pubic arch 85°, ar pos, severe stenosis(shortening, operated 1x (rano), cervix not identified, vault fixed a/f 3 cm, f/v 0 cm 149 cm
- operation: rvf-repair

duration: 30 min

healing 90% continence 90%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

episiotomy R along rvf edge, incision at fistula edge, sharp dissection, tension-free trans verse rectum closure by double layer of inverting interrupted/continuous serafit, pvw adaptation by 2x everting seralon, check on hemostasis, episiotomy closure



pt 164 kano mdg anteriobilateral trauma; second obstetric fistula				vvf 022
h a a t (kanc))	female	18 yr	09.07.11
surgeon:	dr idris suleiman abubakar			
assistant:	yusif abdullahi dannafada			
diagnosis:	PIII (0 alive), <u>+</u> 1 cm 0 urethroves urine for 4 mth which started imn ("miscarriage" at 5 mth) for 1 day, (menarche 2 mth earlier), not livi no drop foot R (grade 5) and L eclampsia; ?ap diameter?/norm towards I spine L, severe vagina (mmsh), bilateral atf/atl + pc_ilc_ euo/f 3 cm, f/c 1 cm, i/v 5 cm	nediately fol at home sb ng with hus (grade 5), n al pubic arc shortening,	lowing obs male, mai band, norr o rvf, no y ch 85°, ar	structed last labor rried 5 yr ago post nal menstruation, /ankan gishiri, no pos, cervix fixed
operation:	uvvf-repair			
duration:	30 min	hea	aling 90%	continence 95%
		0 50/		

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

episiotomy R, transverfse incision thru/at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 8 cm, good anterior elevation, euo/b 2.5 cm moderate bladder capacity (longitudinal diameter 8-2.5 = 5.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 120/80 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 165	katsina anterior t	•		cath 1365
s h k (katsin	a)	female	27 yr	03.07.11
diagnosis:	PVI (2 alive), <u>+</u> 1.5x1 cm transv type IIAa midline, leaking urin following obstructed last labor f yr ago pre(menarche 9 mth lat tion, drop foot R (grade 4) an eclampsia yes; normal ap dian euo/f 2 cm, f/c 4 cm	ne for 21 days for 2 days, in ho er), <u>still</u> living v id L (grade 2),	which started ospital <u>live</u> male vith husband, no rvf, no ya	immediately e, married 15 no menstrua
03.07.11	foley ch 18; free urine flow, eu euo/b 1.5 cm normal bladder capacity (longi poor position of uv-junction ag	tudinal diamete	er 11-1.5 = 9.5	5 cm)

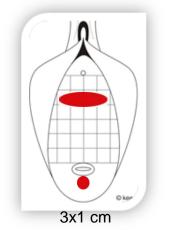
poor position of uv-junction against caudad third of symphysis normal-width 1.5 cm good-quality urethra_euo in anatomic position probably it will heal

10.07.11 not leaking at all insp/ still necrosis



pt 166	katsina mdg total circumferential trauma				
d I d (katsina	a)	female	26 yr	07.07.11	
diagnosis:	PI (0 alive), transverse <u>+</u> 3x1 c type IIAb , <u>+</u> 2 cm 0 proximal rec passing stools pv for 14 days labor for 3 days, in hospital sb fe mth later), not living with husban 4) and L (grade 3-4), no yanka meter/ wide pubic arch 90°, ar p euo/f 1.5 cm, f/c 4 cm	tovaginal fist that started in male, married d, no menstru n gishiri, ecla	ula midline, le nmediately aft d 13 yr ago pre lation, drop fo ampsia yes; n	eaking urine/ er obstructed e(menarche 1 ot R (grade 3- ormal ap dia	
07.07.01	foley ch 18; free urine flow, euc euo/b 1.5 cm normal bladder capacity (longitu poor position of uv-junction aga normal-width 1.5 cm poor–quali will it heal with this circumferent	idinal diamete inst caudad t ty urethra_eu	er 14-1.5 = 12 hird of symph	.5 cm) lysis	

10.07.11 not leaking at all insp/ idem



pt 167

katsina mdg total circumferential trauma state-of-of-the-art repair

g i b k h (katsina) female 15 yr 10.07.11

- surgeon: kees waaldijk
- assistant: kabir lawal
- diagnosis: PI (0 alive), <u>+</u> 4 cm 0 urethrovesicovaginal fistula type **IIBb** with circumfer ential defect and anterior bladder fixed to cephalad symphysis, **leaking urine for 39 days** which started immediately following obstructed labor for 1 day, in hospital sb male, married 3 yr ago pre(menarche 8 mth later), not living with husband, no menstruation, drop foot R (grade 2-3) and L (grade 3), healed 2 cm proximal midline pvw_cervix trauma (never tusa pv), no rvf, no yankan gishiri, no eclampsia; normal ap diameter/wide pubic arch 90°, ar pos, bilateral atf/atl + pc_ilc_iscm loss, cervix "mobile" euo/f 0.5 cm, f/c 2 cm, ab/au 3 cm, i/v 12 cm
- operation: circumferential uvvf-repair + bilateral pcf refixation first stage minimum
- duration: 40 min healing 95% continence 10%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

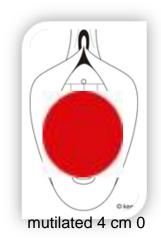
episiotomy L, both ureters identified but far away from the edge, transverse incision thru fistula, sharp circumferential dissection, advancement/caudad fixation of anterior blad der onto symphysis/"urethra", tension-free circumferential uvvf-repair by end-to-end vesicourethrostomy by single layer of inverting serafit, bilateral fixation of pc fascia onto paraurethra_euo atf/symphysis by 2x serafit each side, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw/avw-cervix adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 1.2 cm (**compression**) normal bladder capacity (longitudinal diameter 13-1.2 = 12 cm) poor position of uv-junction **fixed against** caudad third of symphysis normal-width 0.5 cm poor-quality urethra_euo in anatomic position if necessary for continent urethra as **second stage**



RR preanesthesia: 140/90 mm Hg 5': 130/80 10': 120/70 postoperation: 120/70

pt 168 katsina mdg vvf 8119 extensive anteriobilateral + iatrogenic trauma				
s s b (sokoto) female 46 yr				10.07.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis: PIV (0 alive), severely mutilated extensive <u>+</u> 4 cm 0 urethrovesicoval nal fistula with circumferential defect type IIBb , leaking urine for 30 yr the started immediately following obstructed <u>first</u> labor for 3 days, in hospit sb female, married 35 yr ago pre(menarche 2 yr later), <u>still</u> living with 2 husband, normal menstruation up till now, bilateral drop foot for 2 mth (grade 5) and L (grade 5), no rvf, no yankan gishiri, no h/ö eclampsia; ne mal ap diameter/pubic arch 85°, ar pos, bilateral major atf/atl + pc_io_il iscm loss, mutilated cervix fixed no canal identified, operated at least 1 by 7 different surgeons euo/f 0.5 cm, f/c 0 cm, ab/au 1 cm, i/v 12 cm			urine for 30 yr that days, in hospital still living with 2nd o foot for 2 mth R /ö eclampsia; nor atf/atl + pc_io_ilc_	
operation:	ps-like uvvf-repair			last resort final
duration:	25 min	heali	ng 70%	continence 5%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%		

re-episiotomy L, incision at fistula edge thru cervix remnants,, minimal sharp dissection, **under some tension** transverse avw adaptation by 2x everting seralon, triple fixation of foley ch 18, check on hemostasis, skin closure; free urine flow, euo/bw 7 cm, good anterior elevation, euo/b 1 cm pat **not** cooperative; not drinking, no defecation etc moderate bladder capacity (longitudinal diameter 7-1 = 6 cm) poor position of uv-junction **fixed against** caudad third of symphysis deformed 1 cm poor-quality urethra_euo posteriorly drawn inside



pt 169	katsina mdg anterior/posterior + iatrogenic trauma; urge ++			
m a g (sokot	0)	female	20 yr	10.07.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PII (0 alive), mutilated multiple type IIAa midline within repair sca <u>+</u> 3 cm 0 proximal midline rectzow leaking urine/passing stools pv lowing tah-cs bco obstructed last ago pre(menarche 1 yr later), no	r type and <u>+</u> 0 /aginal fistula for 4 yr whicl : labor for 3 da	0.1 cm 0 tah-cs type Ic fixed of h started imm ays, sb male, r	-vvf midline, nto sacrum, nediately fol married 8 yr

kan gishiri, eclampsia yes; normal ap diameter/pubic arch 85°, ar pos, vault fixed midline onto sacrum, operated 1x (mawch_nakaka) euo/f 3 cm, f/f 3 cm, f/""c"" 0 cm, i/v 15 cm 156 cm

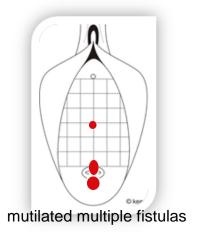
since, bilateral drop foot for 2 mth R (grade 4-5) and L (grade 5), no yan

operation: **complicated** uvvf/vvf-repair + bilateralfascia fixation

duration: 50 min healing 75% continence 90%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

episiotomy L, transverse incision thru fistula/repair scar, sharp dissection whereby blad der further traumatized, then vvf noted, further dissection up to vvf, tension-free longitu dinal bladder closure of 1.5x0.5 cm longitudinal defect by single layer of inverting sera fit, ?tension-free? transverse bladder/urethra closure + bilateral fixation of pcf to paraure thra atf by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/ pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 14 cm, good anterior eleva tion, euo/b 2.8 cm **problem: strange mutilation due to both cs + repair** normal bladder capacity (longitudinal diameter 14-2.8 = 11 cm) good position of uv-junction **against** middle third of symphysis normal-width 3 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 120/70 mm Hg 5': 110/70 10': 110/70 postoperation: 110/70

pt 170	katsina m total circumferen	•	rvf	vvf 8121 cath 1348
f u k (katsina)	female	14 yr	10.07.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	cumferential defect (only anterior 1 cm bridge), leaking urine for 77 days which started immediately following obstructed labor for 2 days, in hospital sb male, married 1 yr ago pre(menarche 2 mth later), not living with husband, no menstruation, drop foot R (grade 3-4) and L (grade 3-4) scarred whole pvw trauma but no rvf, no yankan gishiri, yes eclampsia normal ap diameter/pubic arch 85°, ar pos <u>++</u> R , flatus incontinence , no saddle anesthesia, slightly pos L, healed epi, bilateral atf/atl + pc_ilc_iscr loss, cervix fixed slightly at R, moderate shortening			rine for 77 days for 2 days, in later), not living nd L (grade 3-4), yes eclampsia; continence, no
operation:	ureters, 4/5 circumferential uvvf-r	epair/pcf refix	ation first :	stage minimum
duration:	40 min	heal	ing 90% c	ontinence 75%
anesthesia:	spinal L4/L5 with 3 ml bupivacai	ne 0.5%		

episiotomy L, bilateral ureter catheterization for 20 cm, incision at fistula edge, sharp circumferential dissection, advancement/caudad fixation of anterior bladder onto sym physis/urethra, tension-free circumferential uvvf-repair by end-to-end vesicourethrosto my by single layer of inverting serafit, bilateral fixation of pc fascia/bladder peritoneum onto paraurethra_euo atf/symphysis by 2x serafit each side, **no** urine thru suture line/ euo on rest/cough/ pressure, triple fixation of foley ch 18, transverse avw/cervix approxi mation by 2x everting seralon, check on hemostasis, episiotomy closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.6 cm (**compression**) normal bladder capacity (longitudinal diameter 12-1.6 = 10.5 cm) poor position of uv-junction **fixed against** caudad third of symphysis normal-width 1.5 cm poor-quality urethra_euo in anatomic position



RR preanesthesia: 140/90 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

anterior trauma

m m m (katsina)	female	43 vr	09.07.11
	Torritato	10 51	00.07.111

diagnosis: PXI (7 alive), + 1.5 cm 0 black-necrotic urethrovesicovaginal fistula type IIAa slightly at R, leaking urine for 17 days which started immediately following cs bco obstructed last labor for 1 day, sb male, married 26 yr ago post(menarche 4 yr earlier), still living with husband, no menstruation, drop foot R (grade 4) and L (grade 4), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix retracted/ fixed midline, obesity ++ euo/f 2.5 cm, f/c 4 cm 162.0 cm

09.07.11 suprapubic mass, avw bulging into vagina, bladder overdistended (euo/bw 22 cm), good anterior elevation after draining > 2,000 ml urine,, euo/b 1.5 cm foley ch 18; free urine flow increased bladder capacity (longitudinal diameter 22-1.5 = 20.5 cm, an atonic bladder) poor position of uv-junction against caudad third of symphysis normal-width 1.5 cm good-quality urethra_euo in anatomic position probably it will heal since necrosis not too deep



^{10.07.11} not leaking at all

pt 172	ot 172 katsina mdg total circumferential trauma				
h l k (katsina) female 16 yr			11.07.11		
surgeon:	kees waaldijk				
assistant:	kabir lawal				
diagnosis:	ential defect, leaking urine for 5 mth that started immediately following cs bco obstructed last labor for 2 days, sb female, married 3 yr ago pos (menarche 3 mth earlier), not living with husband, normal menstruation drop foot R (grade 2-3) and L (grade 3), healed 2 cm 0 proximal midline pvw/cervix trauma (tusa pv for 1 mth), no rvf, no yankan gishiri, eclampsia no; normal ap diameter/wide pubic arch 90°, ar pos, bilateral atf/atl + pc_ ilc_iscm loss + ssl_pm trauma, cervix fixed midline, lpl stricture			iately following cs ied 3 yr ago post nal menstruation, proximal midline gishiri, eclampsia ateral atf/atl + pc_	
operation:	circumferential uvvf-repair + bilat	eral pcf r	efixation		
duration:	45 min (step-by-step teaching)	ł	nealing 95%	continence 85%	

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

episiotomy L with severing of stricture, transverse incision thru/at fistula edge, sharp circumferential dissection, advancement/caudad fixation of anterior bladder onto sym physis/urethra, tension-free circumferential uvvf-repair by end-to-end vesicourethrosto my by single layer of inverting serafit, bilateral fixation of pc fascia onto paraurethra_euo atf/symphysis by 2x serafit each side, **no** urine thru suture line/euo on rest/cough/ pressure, triple fixation of foley ch 18, transverse avw/avw-cervix adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 1.0 cm

normal bladder capacity (longitudinal diameter 11-1 = 10 cm) poor position of uv-junction **fixed against** caudad third of symphysis normal-width 1 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 140/90 mm Hg 5': 130/80 10': 120/70 postoperation: 120/70 pt 173

katsina mdg total circumferential trauma nicely healed

k y k (katsina)

female

17 yr

- surgeon: kees waaldijk
- assistant: kabir lawal
- diagnosis: PI (0 alive), total post **nicely healed extensive IIBb** urine intrinsic-stress incontinence grade III, leaking urine whilst lying/sitting/standing/walking + **no** spntaneousmiction following circum repair 10.5.11, not living with husband, no menstrua tion, drop foot R (grade 3-4) and L (grade 4-5); normal ap diameter/pubic arch 85°, ar pos, bilateral atf /atl + pc_io_ilc_iscm loss + ssl_pm trauma, cervix fixed to i spine R, moderate stenosi/shortening euo/c 4 cm **wide open** urethra_euo posteriorly pulled inside by scarring/fibrosis euo/bw 11 cm, good elevation, euo/b 0.3 cm, i/v 6 cm 157.0 cm
- operation: distal urethra reconstruction as **minimum surgery 2nd stage**

duration: 15 min (**step-by-step teaching**) healing 95% continence 70%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

L re-episiotomy, U incision at euo edge, sharp dissection, tension-free <u>longitudinal</u> distal urethra reconstruction over 2 cm by single layer of inverting serafit, euo/b 2.2 cm, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, longi tudinal avw Y adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.2 cm

normal bladder capacity (longitudinal diameter 12-2.2 = 10 cm)

good position of uv-junction **against** middle third of symphysis

normal-width 2 cm **good-quality** urethra_euo in anatomic position

the problem: extensive obstetric trauma resulting into scarring/fibrosis

since good-quality urethra tissue she may become totally continent (physiologic stress)



RR preanesthesia: 130/80 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 173a		katsina ensive total circumfe ia, fournier grangrene			cath 1339
k y k (katsin	a)	f	emale	17 yr	02.03.11
diagnosis:	necrotic pv immediately married 5 yr menstruation gishiri, no h saddle hype extensive v	+ 4 cm 0 urethrovesicov w, leaking urine/passi following obstructed la r ago pre(menarche 1 n, drop foot R (grade 1- /o eclampsia; normal a esthesia , flatus inconti ulva/bilateral labia ed f/c 0 cm, a/pvwn 3 cm	ng flatus p abor for 2 da yr later), no -2) and L (g ap diamete nence, anu	v for 4 days whays, in hospital ot living with he rade 4), no rvf, r/pubic arch 8 s closed	hich started sb female, usband, no no yankan
02.03.11	foley ch 18; free urine flow, euo/bw 13 cm, good anterior elevation and euo/b 1 cm normal bladder capacity (longitudinal diameter 13-1 = 12 cm) poor position of uv-junction against caudad third symphysis normal-with 1 cm good-quality urethra_euo pulled inside				
14.03.11	leaking <u>+</u>	documentation of ex	xtensive bi	lateral labia lo	oss 14.03
what a dete	ergent can do	to necrotic/infected	lesions	documentat	ion 10.05
10.05.11	operation:	circ uvvf-repair		pt 6336	vvf 8050

11.07.11operation:distal urethra 2nd stagevvf 8123

pt 174 katsina mdg vvf 8124 anteriobilateral trauma				
s i y (katsina))	female	16 yr	11.07.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	agnosis: PII (0 alive), <u>+</u> 3 cm 0 urethrovesicovaginal fistula type IIAa midline/L with bladder base prolapse partial/anterior cervix loss, leaking urine for 7 mth which started immediately following cs bco obstructed last labor for 1 day sb male, married 3 yr ago post(menarche 5 mth earlier), not living with husband, normal menstrua tion, drop foot R (grade 3) and L (grade 2), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/wide publo arch 90°, ar pos, cervix fixed towards i spine L, bilateral iscm + ssl_pm trauma L > R, proximal circular stricture euo/f 3.5 cm, f/c 0 cm, i/v 10 cm			
operation:	uvvf-repair			pat not drinking
duration:	45 min (step-by-step teaching)	heal	ling 95%	continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

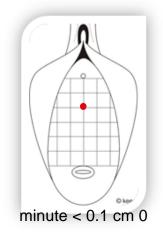
episiotomy L, ureters **not** identified (not drinking), incision at fistula edge, sharp dis section, tension-free transverse bladder_cervix/urethra closure by single layer of invert ing serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw/cervix adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.8 cm normal bladder capacity (longitudinal diameter 12-2.8 = 9 cm) good position of uv-junction **against** middle third of symphysis normal-width 3 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 130/80 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 175 katsina mdg vvf 8125/7816/7913 post IIAb incontinence; minute fistula midline; looks like operated again				
h a r t (katsir	na)	female	16 yr	28.07.10
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PI (0 alive), total post IIAb urine intrinsic_stress incontinence grade III leaking urine whilst lying/ sitting/standing/walking + no spontaneous mit tion, minute < 0.1 cm 0 fistula midline within scar/mutilation tissue after multiple repairs 10.5 to 28.7.10, not living with husband, normal menstre ation, drop foot R (grade 5) and L (grade 5); normal ap diameter/public arch 85°, ar pos, atf/atl + pc_ilc_iscm loss at R, slight lpl stricture, cervi "fixed" midline, obesity ++, "open" urethra_euo slightly posteriorly drawn inside euo/c 6 cm euo/f 12 cm, good elevation, f/c 4 cm, i/v 12 cm 145.0 cm			spontaneous mic ation tissue after , normal menstru p diameter/pubic ol stricture, cervix
operation:	excision of scar/mutilation tissu	ıe + uvvf-repair +	· pcf fix	ation
duration:	45 min	healing	J 95%	continence 85%
anesthesia:	spinal L4/L5 with 3 ml bupivacaine 0.5%			

re-episiotomy L, transverse incision at 2 cm from euo thru repair scar, sharp dissection, excision of all scar/mutilation tissue ++, fistula detected by gv, tension-free transverse closure by 1x inverting serafit cross with normalization of euo, bilateral fixation of pc fascia onto para-euo atf by 1x serafit each side, **no** urine thru suture line/euo on rest/ cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, episiotomy closure; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 2.2 cm **??what exactly happened??** normal bladder capacity (longitudinal diameter 13-2.2 = 11 cm) good position of uv-junction **against** middle third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 140/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 176	katsina	vvf 8126
	extensive anteriobilateral + iatrogenic trauma	

a i m (katsina)

female 27 v

27 yr 12.07.11

surgeon: kees waaldijk

assistant: kabir lawal

diagnosis: PVI (2 alive), **mutilated extensive** <u>+</u> 4 cm 0 urethrovesicovaginal fistula with circumferential defect type **IIBb**, leaking urine for 8 mth which started immediately following cs 16.11.10 bco obstructed labor for 2 days, sb fem ale, married 13 yr ago post(menarche 1 yr earlier), not living at husband, normal menstruation, drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos, bilateral atf/atl + pc_ilc_iscm loss, cervix "fixed" midline, operated 5.6.11 (mdg 016), **nb ureter fistula L** outside bladder laterally from cervix euo/f 1 cm, f/c 0 cm, ab/au 0.2 cm, i/v 12 cm

operation: repositioning/draining L ureter into bladder + bilateral **ps** as **first stage**

duration: 40 min

healing xx continence xx

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

episiotomy L, catheterization L jureter for 20 cm, incision at fistula edge/thru "anterior cervix" and outside L ureter opening, sharp dissection, since anterior cervix fixed primary suturing (with metal sound inside cervix canal/uterine cavity) by transverse adaptation of bilateral cervix (so that L ureter will drain into bladder) by 4x everting seralon leaving it completely open at midline, ballooning of foley ch 18, check on hemostasis, skin closure pack; free urine flow, euo/bw 7 cm, good anterior elevation, euo/b 2.5 cm (compression)

small bladder capacity (longitudinal diameter 7-2.5 = 4.5 cm; directly only 3 cm) poor position of uv-junction **fixed against** caudad third of symphysis

normal-width 1 cm poor-quality urethra_euo in anatomic position

the **only way to close the fistula** is by using the mobile posterior cervix; however this has to be discussed with the patient since then she will menstruate thru euo; as well continence cannot be guaranteed



RR preanesthesia: 140/100 mm Hg 5': 140/90 10': 130/80 postoperation: 130/80 a m b (katsina)

female

surgeon: kees waaldijk

assistant: kabir lawal

- diagnosis: PIX (4 alive), overflow incontinence due to long-standing atonic bladder, leaking urine for 7 mth which started immediately following cs bco obstructed last labor for 2 days, <u>live</u> female, married 20 yr ago pre(men arche 1 yr later), <u>still</u> living at husband, normal menstruation, no drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix fixed onto i spine L wide open urethra_euo with overflow obesity ++ 150.0 cm
- operation: dye test no s/o (ureter) fistula
- duration: 10 min healing continence

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

150 ml dye: **no** leakage/**no** clear urine in vagina avw bulging into vagina euo/bw 17 cm, moderate elevation after draining, euo/b 1.0 cm **increased** bladder capacity (longitudinal diameter 17-1.0 = 16 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 1 cm medium-quality urethra_euo lsigthly posteriorly pulled inside leave catheter for 8-10 wk

pt 178 pt	katsina r <u>still</u> living with	0		22/6874/7711 vvf 3582/3676	
u m m (katsi	ina)	female	27 yr	18.10.09	
surgeon:	kees waaldijk				
assistant:	kabir lawal				
diagnosis:	PII (0 alive), another \pm 4x2x1cm rough-surface bladder stone now with 1.5x0.5 transverse fistula (?how?) at 2.5 cm from euo, <u>still</u> living at husband, normal menstruation, drop foot R (grade 5) and L (grade 5); normal ap diameter/pubic arch 85°, ar pos, severe vagina shortening i/v 3 cm 160.0 cm			, <u>still</u> living at d L (grade 5);	
operation:	transfistula stone removal + ap	proximation	fina	al by all means	
duration:	10 min				
anesthesia:	spinal L4/L5 with 3 ml bupivaca	ine 0.5%			
	transverse enlargement of fistula, 4x2x1 cm bladder stome removal in one piece, flushing debris out of bladder avw/"cervx" approximation by 3x everting seraion, balloon				

flushing debris out of bladder, avw/"cervx" approximation by 3x everting seralon, balloon ing of foley ch 18; free urine flow, euo/bw 10 cm, good elevation, euo/b 2.4 cm normal bladder capacity (longitudinal diameter 10-2.4 = 7.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position surgically nothing can be done anymore pat no complying with bladder drill normal-width normal-length 2.5 cm good quality urethra_euo fixed in anatomic position

only bladder drill under supervision

RR preanesthesia: 140/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 179	katsina mdg			vvf 8128/5121 rvf 1017
r a b-k (kebb	i)	female	26 yr	12.07.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PI (0 alive), total post extensive IIBa urine intrinsic_stress incontineer grade III, leaking urine whilst lying/sitting/standing/walking + spontaneer miction following successful urethra/avw reconstruction 6.6.01, not live with husband, no menstruation, no (h/o) drop foot R (grade 5) and (grade 5) normal ap diameter/wide pubic arch 90, ar pos, cervix not id tified euo/v 4 cm open urethra_euo posteriorly pulled inside sphincter ani nicely healed operated 1x (sokoto_id) euo/bw 14 cm, good elevation, euo/b 2.1 cm, i/v 5 cm 150.0		ing + spontaneous n 6.6.01, not living (grade 5) and L os, cervix not iden orly pulled inside id)	
operation:	urethra-euo rhaphy + para-euo fi	ixation		last resort final
duration:	15 min	I	healing 95%	continence 75%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%		obesity +++

semicircular incision at euo with bilateral longitudinal extensions up to vault, sharp dis section, medium-quality tissue, urethra_euo rhaphy using paraurethra tissue over 2 cm by serafit, bilateral fixation of "pc fascia" onto para-euo atf by 1x serafit each side, now euo/b 2.2 cm, **no** urine thru euo on rest/cough/pressure, triple fixation of foley ch 18, avw 2-point fixation onto para-euo symphysis by 1x everting sedralon each side; free urine flow, euo/bw 14 cm, good elastic anterior elevation, euo/b 2.2 cm normal bladder capacity (longitudinal diameter 14-2.2 = 12 cm) good position of UV-junction **against** middle third of symphysis normal-width 2 cm medium-quality urethra_euo in anatomic position

katsina mdg traumatic impalement fistula

- f m m (katsina) female 67 yr 12.07.11
- surgeon: dr idris halliru
- assistant: gambo lawal
- diagnosis: PXII (8 alive), <u>+</u> 0.1 cm 0 vesicovaginal fistula type I at midline anterior cervix lip, leaking urine for 3 yr which started immediately following upon piece of wood, married 55 yr ago pre(menarche 1 yr later), not living with husband, menopause 20 yr ago, drop foot R (grade 5) and L (grade 5), no rvf, yankan gishiri by herself during delivery VII, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos, 2° cervix prolapse up to vulva euo/f 6 cm, f/c 0 cm, i/v 11 cm
- operation: vvf-repair

duration: 20 min healing 95° continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru fistula, sharp dissection, now 2 cm 0 bladder defect, tensionfree transverse bladder closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, ballooning of foley ch 18, transverse avw/cervix adapta tion by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, poor anterior elevation, euo/b 1.8 cm

normal bladder capacity (longitudinal diameter 12-1.8 = 10 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 150/90 mm Hg 5': 140/90 10': 130/80 postoperation: 130/80

pt 181 pt 182	katsina mdg anteriorbilateral + cut-thru trauma			vvf 8129 rvf 1028
l g y-m (katsina)		female	27 yr	13.07.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PV (4 alive), extensive <u>+</u> 4 cm 0 urethrovesicovaginal fistula type IIAb/Bb with circumferential defect type/whole bladder prolapse, sphincter ani rup ture with 1.5 cm longitudinal anorectum trauma, leaking urine/stool_flatus incontinence for 8 mth which started immediately following ?tah?-cs bco obstructed last labor for 1 day, sb male, married 14 yr ago pre(menarche 2 mth later), not living with husband, no menstruation, drop foot R (grade 4-5) and L (grade 4-5), no yankan gishiri, no h/o eclampsia; normal ap diameter/ wide pubic arch 95°, ar pos, bilateral atf/atl + pc_ilc_iscm loss, cervix not identified/vault fixed, moderate vagina shortening euo/f 1.5 cm, f/v 0 cm, ab/au 0.3 cm, a/f 0 cm, i/v 5 cm			
operation:	ureters, uvvf-"repair" + anorectu	um/sphincter a	ani/perineal bo	ody repair
				/

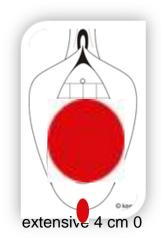
duration: 50 min healing u_s 75_95% continence u_s 70_95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

difficult bladder reduction, bilateral ureter catheterization for 20 cm, incision at fistula edge, minimal sharp dissection, **under some tension** transverse bladder/symphysis/ urethra closure by single layer of inverting serafit, on cough bladder tears out, the only thing possible is transverse avw/pvw adaptation (with inversion of bladder tear) by 4x everting seralon, triple fixation of foley ch 18; free urine flow, euo/bw 9 cm, good anter ior elevation, euo/b 1.3 cm

normal bladder capacity (longitudinal diameter 9-1.3 = 7.5 cm)

good position of uv-junction **fixed against** middle third of symphysis since open 1.5 cm good-quality urethra_euo posteriorly pulled inside by vault incision at pvw edge with freshening of sphincter ani ends, minimal sharp dissection, <u>longitudinal</u> anorectum closure with adaptation_rhaphy of internal sphincter over 2 cm up to anocutaneous junction (with repositioning of anterior anus) by double layer of inverting interrupted/continuous serafit, inner ring of external sphincter adapted, end-toend external sphincter ani reconstruction by 2x serafit, perineal body repair with (in)direct re-union of transversus perinei muscles and (in)direct posterior re-union of bulbocavernosus muscles by 2x serafit, perineum well adapted with anus in anatomic position, check on hemostasis



RR preanesthesia: 120/70 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 182 pt 181	katsina m anteriorbilateral + c	rvf 1028 vvf 8129		
l g y-m (katsina) female		female	27 yr	13.07.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PV (4 alive), extensive <u>+</u> 4 cm 0 with circumferential defect type/v ture with 1.5 cm longitudinal ano incontinence for 8 mth which sta obstructed last labor for 1 day, sl	whole bladdei rectum traum irted immedia	r prolapse, spł a, leaking urin itely following	nincter ani rup e/stool_flatus ?tah?-cs bco

2 mth later), not living with husband, no menstruation, drop foot R (grade 4-5) and L (grade 4-5), no yankan gishiri, no h/o eclampsia; normal ap diameter/wide pubic arch 95°, ar pos, bilateral atf/atl + pc ilc iscm loss, cervix not identified/vault fixed, moderate vagina shortening, suturing 1x euo/f 1.5 cm, f/v 0 cm, ab/au 0.3 cm, a/f 0 cm, i/v 5 cm 152.0 cm

ureters, uvvf-"repair" + anorectum/sphincter ani/perineal body repair operation:

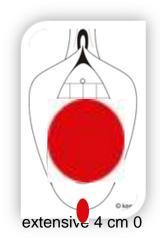
healing u_s 75_95% continence u_s 70_95% duration: 50 min

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

difficult bladder reduction, bilateral ureter catheterization for 20 cm, incision at fistula edge, minimal sharp dissection, under some tension transverse bladder/symphysis/ urethra closure by single layer of inverting serafit, on cough bladder tears out, the only thing possible is transverse avw/pvw adaptation (with inversion of bladder tear) by 4x everting seralon, triple fixation of foley ch 18; free urine flow, euo/bw 9 cm, good anter ior elevation, euo/b 1.3 cm

normal bladder capacity (longitudinal diameter 9-1.3 = 7.5 cm)

good position of uv-junction fixed against middle third of symphysis since open 1.5 cm good-quality urethra_euo posteriorly pulled inside by vault incision at pvw edge with freshening of sphincter ani ends, minimal sharp dissection, longitudinal anorectum closure with adaptation_rhaphy of internal sphincter over 2 cm up to anocutaneous junction (with repositioning of anterior anus) by double layer of inverting interrupted/continuous serafit, inner ring of external sphincter adapted, end-toend external sphincter ani reconstruction by 2x serafit, perineal body repair with (in)direct re-union of transversus perinei muscles and (in)direct posterior re-union of bulbocavernosus muscles by 2x serafit, perineum well adapted with anus in anatomic position, check on hemostasis



RR preanesthesia: 120/70 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 183	katsina mdg anterior trauma			
w a u-d d (ka	atsina)	female	14yr	13.07.11
surgeon:	dr ganda yousnou/kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PI (0 alive), <u>+</u> 0.5 cm 0 urethrove leaking urine for 59 days which labor for 1 day, at home sb male earlier), not living with husband, r and L (grade 3), no rvf, no yanka meter/wide pubic arch 95°, ar po	started imm , married 1 y no menstrua an gishiri, ec	ediately follov vr ago post(m tion, drop foo lampsia yes;	ving obstructed enarche 3 mth t R (grade 2-3) normal ap dia

- operation: uvvf-repair
- duration: 40 min healing 95% continence 90%
- anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

euo/f 2 cm, f/c 4 cm, i/v 11 cm

re-opening "episiotomy" L, transverse incision thru/at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transver se avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.5 cm normal bladder capacity (longitudinal diameter 12-1.5 = 10.5 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 1.5 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 140/90 mm Hg 5': 140/90 10': 130/80 postoperation: 130/80

150.0 cm

pt 184	katsina mdg	vvf 8131
	span too wide; anterior trauma; median pcf defect; sul intac	t

z a j (katsina) female 16 yr 13.07.11

surgeon: kees waaldijk

assistant: kabir lawal

diagnosis: PI (alive), total **genuine postpartum** urine intrinsic_stress incontinence grade III, leaking urine whilst lying/sitting/standing/walking + spontaneous miction for 5 mth which started immediately following obstructed labor for 14 days, in hospital <u>live</u> female, married 3 yr ago post(menarche 2 mth earlier), <u>still</u> living with husband, no menstruation, no (h/o) drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/**wide** pubic arch 95°, ar pos, cervix mobile in anato mic position, cystocele **++ objective** stress **++** obesity **++** euo/c 8 cm normal-width urethra_euo in anatomic position euo/bw 14 cm, poor elevation, euo/b 1.8 cm, i/v 13 cm 152.0 cm

operation: urethralization and pc fascia fixation

duration: 35 min (**step-by-step teaching**) healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

small epi L, transverse curved incision at 2 cm from euo parallel/within ruga folds, sharp dissection, 6x2 cm median longitudinal fascia defect from cervix up to 2 cm from euo, <u>longitudinal</u> repair/rhaphy of pc fascia at 2-6 cm from euo by serafit, paraurethra pcf fixation intact, now euo/b 2.7 cm, **no** urine thru euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw_pcf/symphysis_avw adaptation by 2x everting seralon, check on hemostasis, epi closure; free urine flow, euo/bw 14 cm, good elastic anterior elevation, euo/b 2.7 cm (**urethralization_compression**) normal bladder capacity (longitudinal diameter 14-2.7 = 11.5 cm) good position uv-junction **against** middle third symphysis good fascia plate good-quality pcm **no** longer cystocele normal-width 2.5 cm good-quality urethra euo in anatomic position

pt 185	katsina vvf 8132 extensive total circumferential trauma cath 1363				
b d d (katsin	a)	female	15 yr	13.07.11	
surgeon:	kees waaldijk				
assistant:	kabir lawal				
diagnosis:	PI (0 alive), extensive \pm 4 cm 0 ur circumferential defect at R, \pm 3 urine for 26 days which started for 5 days, in hospital sb male, m ear lier), not living with husband, m and L (grade 3-4), rvf, no yanka diameter/pubic arch 85°, ar pos stool incontinence, cervix complete euo/f 1.5 cm, f/c 0 cm, a/f 6 cm,	cm 0 inflam immediately narried 1.5 yr no menstrua in gishiri, no , healing ep etely fixed m	ned proximal pw / following obstr r ago post(mena tion, drop foot R o h/o eclampsia; isiotomy L with	/w, leaking ructed labor arche 3 mth (grade 3-4) rormal ap	
operation:	bilateral ureters, 4/5 circumferen	tial uvvf-repa	air + bilateral pc	f refixation	
duration:	40 min	heal	ling 85% contin	ence 75%	
		0 50/			

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

extending episiotomy L, incision at fistula edge, sharp 4/5 circumferential dissection, tension-free 4/5 circumferential uvvf-repair by end-to-end vesicourethrostomy by single layer of inverting serafit (**under some tension at L**), bilateral fixation of pc fascia onto paraurethra_euo atf/symphysis by 2x serafit each side, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw approximation by 2x everting seralon but there remains 4x2 transverse gap, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.1 cm normal bladder capacity (longitudinal diameter 12-2.1 = 10 cm) avw will epithelize good position of uv-junction **fixed against** middle third of symphysis normal-width 1.5 cm poor-quality urethra_euo in anatomic position



pt 186	pt 186 katsina mdg vvf 041 anteriobilateral trauma					
h a d (katsin	a)	female	25 yr	13.07.11		
surgeon:	dr idris halliru					
assistant:	gambo lawal					
diagnosis:	PVI (3 alive), <u>+</u> 3 cm 0 urethrove defect type IIAb , leaking urine fo cs bco obstructed last labor for 3 (menarche 8 mth later), not living foot R (grade 2) and L (grade 3), normal ap diameter/wide pubic at iscm loss, cervix fixed euo/f 2 cm, f/c 3 cm, ab/au 1 cm	r 3 mth wh days, sb f g with hus no rvf, no rch 95°, ar	nich started imm emale, married band, no mens yankan gishiri, pos, bilateral a	nediately after 13 yr ago pre struation, drop no eclampsia;		
operation:	circumferential uvvf-repair + bilat	teral pcf re	fixation			
duration:	40 min	he	ealing 85% con	tinence 85%		
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%				

ureters **not** identified, incision at fistula edge, sharp circumferential dissection, advance ment/caudad fixation of anterior bladder onto symphysis/urethra, tension-free circumferential uvvf-repair by end-to-end vesicourethrostomy by single layer of inverting serafit, bilateral fixation of pc fascia onto paraurethra_euo atf/symphysis by 2x serafit each side, **no** urine thru suture line/euo on rest/cough/pressure, ballooning of foley ch 18, transverse avw adaptation by 5x everting seralon, check on hemostasis; free urine flow, euo/bw 10 cm, good anterior elevation, euo/b 1.7 cm normal bladder capacity (longitudinal diameter 10-1.7 = 8.5 cm) poor position of uv-junction **fixed against** caudad third of symphysis normal-width 1.7 cm good-quality urethra euo in anatomic position



pt 187 pt	katsina mdg vvf 042 post IIAb total incontinence			vvf 7647/7763 vvf 5413	
a b y b (adar	mawa)	female	25 yr	13.07.11	
surgeon:	dr idris halliru				
assistant:	gambo lawal				
diagnosis:	PII (0 alive), post IIAb total incontinence grade III, leaking whilst lying/ sitting/standing/walking + spontaneous miction following multiple repairs 11.5.02 25.6.09, not living with husband, normal menstruation, no (h/o) drop foot R (grade 5) and L (grade 5), no RVF, no yankan gishiri, no eclampsia; normal AP diameter/narrow pubic arch 75°, AR pos, bilateral atf/atl + pc_ilc_iscm loss, moderate vagina stenosis/shortening, proximal lpl stricture, cervix fixed at vault euo/c 3.5 cm scarring +++ euo/bw 14 cm, good elevation, euo/b 1.6 cm, i/v 8 cm 150.0 cm				
operation:	bilateral pcf fixation				
duration:	25 min	h	ealing 95%	continence 85%	

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transvertse incision thru previous repair scat, sharp dissection, bilateral fixation of pcf onto para-euo atf by 2x sedrafit each side, **no** urine thru suture line/euo on rest/cough/ pressure, ballooning of foley ch 18, transverse avw adaptation by 2x everting seralon, check hemostasis; free urine flow, euo/bw 14 cm, good anterior elevation, euo/b 3.7 cm normal bladder capacity (longitudinal diameter 14-3.7 = 10.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 3.5 cm medium-quality urethra_euo in anatomic position surgeon: kees waaldijk

assistant: kabir lawal

diagnosis: PI (0 alive), sphincter ani rupture with 2.5 cm <u>longitudinal</u> anorectum trau ma, stool_flatus incontinence for 4 mth that started immediately following obstructed labor for 3 days, in hospital sb male, married 5 yr ago pre(men arche 5 mth later), not living with husband, normal menstruation, drop foot R (grade 5) and L (grade 5), no vvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/**wide** pubic arch 95°, ar pos, operated 1x (matamaye) a/f 0 cm, i/v 12 cm never leaking urine 157.0 cm

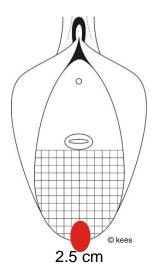
operation: anorectum closure and sphincter ani_perineal body reconstruction

duration: 25 min (**step-by-step teaching**) healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

incision at pvw edge with freshening of sphincter ani ends, minimal sharp dissection, <u>lon</u> <u>gitudinal</u> anorectum closure with adaptation_rhaphy of internal sphincter over 3 cm up to anocutaneous junction (with repositioning of anterior anus) by double layer of inver ting interrupted/continuous serafit, inner ring of external sphincter adapted, end-to-end external sphincter ani reconstruction by 2x serafit, perineal body repair with (in)direct reunion of transversus perinei muscles and (in)direct posterior re-union of bulbocaver nosus muscles by 2x serafit, perineum well adapted with anus in anatomic position, check on hemostasis

foley ch 18; free urine flow, euo/bw 17 cm, good elevation, euo/b 2 cm



katsina mdg vvf 8133 katsina mdg cath 1353 anteriobilateroposteriolateral R trauma; second obstetric fistula

l s d (katsina)

female 40 yr 08.06.11

- surgeon: kees waaldijk
- assistant: kabir lawal
- diagnosis: PX (3 alive), <u>+</u> 2 cm 0 urethrovesicovaginal fistula type **IIAa** at midline, **leaking urine for 41 days** which started immediately following obstructed last labor for 2 days, in hospital sb female, married 28 yr ago pre(menar che 1 yr later), <u>still</u> living at husband, no menstruation, drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no eclampsia; normal ap diameter/pubic arch 85°, ar pos, successful repair (b/r_awal) delivery IX, transverse 5x1 cm pcf defect, cervix fixed onto i spine R, iscm loss + ssl_ pm trauma at R obesity ++ not healed by catheter euo/f 3.5 cm, f/c 1 cm, i/v 11 cm **open** urethra_euo 148.5 cm
- operation: uvvf-repair + transverse fascia repair

duration: 40 min (**step-by-step teaching**) healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

episiotomy L, transverse incision thru/at fistula edge, sharp dissection, tension-free transverse fascia repair with bladder/urethra closure by single layer of inverting serafit with normalization of urethra_euo, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw/avw-cervix adaptation by 2x everting sera lon, check on hemostasis, skin closure, pack; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.9 cm

normal bladder capacity (longitudinal diameter 12-1.9 = 10 cm)

acceptable position of uv-junction **against** middle/caudad third of symphysis normal-width 2 cm good-quality urethra_euo in antomic position



RR preanesthesia: 220/120 mm Hg 5': 200/100 10': 180/90 postoperation: 160/90

pt 190 katsina mdg congenital; poor-quality pc fascia; not responding to bladder d					
f m m (katsir	na)	female	15 yr	14.07.11	
surgeon:	kees waaldijk				
assistant:	kabir lawal				
diagnosis:	P0, total "genuine" urine intrinsi urine whilst lying/sitting/standing/ since she was born, never marri foot R (grade 5) and L (grade 5 arch 85°, ar pos, no flatus_stool i clinical examination, now reduce no s/o spina bifida wide open of euo/bw 14 cm, poor elevation, eu	walking - ed, norm), no vvf/ ncontine d under a urethra_e	⊢ spontaneou nal menstruat /rvf; normal a nce, cystoce anesthesia/lit euo posterior	is miction for 15 yr tion, no (h/o) drop ap diameter/pubic le +++/2° cervix at thotomy position ly pulled inside	
operation:	urethralization and para-euo pcf	fixation		euo/c 6 cm	
duration:	25 min (step-by-step teaching)	ł	nealing 95%	continence 75%	

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

no leakage, no clear urine urine level in accord with respiration small epi L dve/ transverse curved incision at 2 cm from euo parallel/within ruga folds, sharp dissection, longitudinal rhaphy of **poor-guality** pc fascia at 1.5-5 cm from euo by serafit (actually only proximal pcf of "good" quality, bilateral fixation of pc fascia onto para-euo atf by 1x serafit each side with normalization of urethra_euo, now euo/b 1.8 cm, no urine thru euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw_pcf/symphysis _avw adaptation by 2x everting seralon, check on hemostasis, epi closure; free urine flow, euo/bw 12 cm, good elastic anterior elevation, euo/b 1.8 cm (urethralization) normal bladder capacity (longitudinal diameter 12-1.8 = 10 cm) acceptable position uv-junction against middle/caudad third symphysis medium fascia plate good-quality pcm pat needs proper counseling/instruction normal-width 2 cm medium-quality urethra_euo in anatomic position nothing has been done against anatomy/physiology wait for physiologic stress

surgeon: kees waaldijk

pat not cooperative with history

last resort final

healing 75% continence xx

assistant: kabir lawal

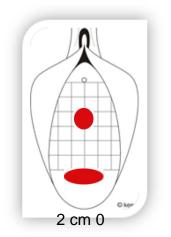
- diagnosis: PI (0 alive), **mutilated "inoperable"** <u>+</u> 2 cm 0 urethrovesicovaginal fistula with circumferential defect midline/R type **IIAb** fixed to pubic bones, <u>+</u> 2x1 cm transverse proximal rectovaginal fistula middle/R with 2.5 cm rectum stricture type **Ib**, leaking urine/passing stool pv for 3 yr that started imme diately following tah-cs bco obstructed labor for 1 day, sb male, married 5 yr ago post(menarche 2 yr earlier), not living with husband, no menstrua tion since, drop foot R (grade 3) and L (grade 4-5), no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, AR pos, **major** atf/atl + pc _ilc_iscm loss at R, cervix not identified, vagina scarring +++; opera ted 1x for vvf (mawch_isah), obesity +++; **very confusing history** euo/f 2 cm, f/"c"v 4 cm, ab/au 1 cm, a/f 7 cm, i/v 8 cm
- operation: uvvf-"repair"

duration: 25 min

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

bilateral episiotomy, transverse incision thru/at fistula edge, sharp dissection, excision of scar tissue ++, then ?urine? thru rvf (now pat says urine was put together with stools during operation at uduth; as well colostomy thru cs-scar/closure of colostomy), tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw ap proximation but there remains gap, check on hemostasis, skin closure; free **urine** flow, euo/bw 10 cm, good anterior elevation, euo/b 2.3 cm pat **highly** uncooperative normal bladder capacity (longitudinal diameter 10-2.3 = 7.5 cm) **everything fixed** good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm poor-quality urethra_euo in anatomic position

nb one ureter in bladder and one ureter in sigmoid; colostomy and then colostomy closure still with rvf; so at least 6-7 operations in different centers



pt 192 to	katsina m tal circumferential trauma; type	0	haracteristics	vvf 8136
s I y ingawa	(katsina)	female	15 yr	15.07.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PI (0 alive), \pm 0.5 cm 0 urethrovesicovaginal fistula midline type IIAa with b characteristics within 1.5 cm broad circular trauma, leaking urine for 45 days which started immediately following cs bco obstructed labor for 2 days, sb female, married 1.5 yr ago post(menarche 8 mth earlier), not living with husband, no menstruation, drop foot R (grade 3) and L (grade 3), no rvf, no yankan gishiri, eclampsia yes; normal ap diameter/pubic arch 85°, ar pos, bilateral atf/atl + pc_ilc_iscm losswith ssl_pm trauma, cervix fixed midline, 5x1.5 cm transverse pcf defect wide open euo documentation of large circ trauma with necrosis \pm bilaterally euo/f 2 cm, f/c 4 cm, ab/au xx cm, i/v 11 cm 145.0 cm			
operation:	uvvf-repair + transverse fascia re	pair/bilateral ı	refixation	
duration:	40 min (step-by-step teaching)	healir	ng 95% contine	nce 90%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

episiotomy L, transverse incision thru/at fistula edge, sharp dissection, tension-free transverse fascia repair/bilateral refixation with fistula closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, epi closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.8 cm normal bladder capacity (longitudinal diameter 12-1.8 = 10 cm) poor position of uv-junction **fixed against** caudad third of symphysis "normal-width" 1.8 cm medium-quality urethra_euo in anatomic position the **problem: pull/traction by fixed cervix**



pt 193 pt	k	atsina mdg		7/5157/5241/5965 f 3748/3909/3966
f s g (katsina	a)	female	e 29 yr	15.07.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PII (0 alive), <u>+</u> 0.2 cm (obliterated neourethra, still living with husband, is so ?new delivery? since a (grade 4-5), no rvf, no ya pubic arch 85°, major bila sis, cervix fixed onto i sp "euo"/f 2 cm, f/c 2 cm, i/v	, leaking urine for no menstruation after delivery II no nkan gishiri, no e ateral atf/atl + pc vine L	^r 4 yr which sta for 4 yr (she s ormal menstru eclampsia; no	arted following ??, says after delivery uation), drop foot L r mal ap diameter/
operation:	disobliteration + uvvf-rep	pair		last resort final
duration:	25 min		healing 50%	continence 50%
anesthesia:	spinal L4/L5 with 3 ml bu	upivacaine 0.5%		

re-episiotomy L, disobliteration by stab incision, transverse incision thru fistula edge, sharp dissection, tension-free transverse bladder/urethra closure with bilateral fixation of "pcf" onto paraurethra atf by 1x serafit each side by single layer of inverting serafit, urine ++ thru euo on rest, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, epi closure; free urine flow, euo/bw 9 cm, good anterior elevation, euo/b 1.8 cm probably "neourethra" will **obliterate** again normal bladder capacity (longitudinal diameter 9-1.8 = 7 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 2 cm poor-quality urethra_euo in anatomic position



pt 194 katsina mdg vvf 043 anteriobilateral trauma					
r a b (katsina	a)	female	27 yr	15.07.11	
surgeon:	dr isdris halliru				
assistant:	gambo lawal				
diagnosis:	PVIII (3 alive), <u>+</u> 1 cm 0 urethrowithin 4x1 cm transverse avw trainmediately following obstructed married 14 yr ago post(menarco no menstruation, drop foot R (g gishiri, no h/o eclampsia; norr cervix mobile, transverse 4x1 ceuo/f 3 cm, f/c 3 cm, i/v 11 cm	auma, leaki i ed last labor he 1 mth ear rade 4) and l nal ap diam	n g urine fo i for 2 days, lier), <u>still</u> livi ∟ (grade 4), eter/pubic a	r 18 which started st home sb male, ing with husband, no rvf, no yankan	
operation:	uvvf-repair + transverse fascia	repair			
duration:	30 min	he	aling 95%	continence 95%	
anesthesia:	spinal L4/L5 with 3 ml bupivaca	aine 0.5%			

transverse incision thru/at fistula edge, sharp dissection, tension-free transverse fascia repair with bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, ballooning of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.7 cm normal bladder capacity (longitudinal diameter 12-2.7 = 9.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position



katsina mdg anteriobilateral trauma

h m s b (katsina)	female	15 yr	15.07.11

surgeon: dr idris halliru

assistant: gambo lawal

- diagnosis: PI, <u>+</u> 2.5 cm 0 urethrovesicovaginal fistula type **IIAb** with circumferential defect, **leaking urine for 31 days** which started immediately following cs bco obstructed labor for 2 days, sb female, married 3 yr ago pre(menar che 1 yr later), not living with husband, no menstruation, drop foot R (grade 4) and L (grade 5), no rvf, no yankan gishiri, no h/o eclampsia; nor mal ap diameter/pubic arch 85°, ar pos, cervix fixed midline, bilateral atf/ atl + pc_ilc_iscm lod, lpl stricture euo/f 1.5 cm, f/c 3 cm, i/v 12 cm
- operation: cicumferential uvvf-repair + pcf refixation

duration: 40 min healing 80% continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru/at fistula edge, sharp circumferential dissection, tension-free circumferential bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, ballooning of foley ch 18, transverse avw approximation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.7 cm normal bladder capacity (longitudinal diameter 12-1.7 = 10.5 cm) poor position of uv-junction **against** caudad third of symphysis

normal-width 2.5 cm medium-quality urethra_euo in anatomic position



s u w (rép niger)

female

20 yr

surgeon: kees waaldijk

assistant: kabir lawal

diagnosis: PI (0 alive), **mutilated** post **IIAb** total urine intrinsic_stress incontinence grade III, leaking urine whilst lying/sitting/standing/walking + no spontane ous miction for 5 yr which started immediately following obstructed labor for 3 days, in hospital sb male, married 7 yr ago pre(menarche 3 mth later), not living with husband, normal menstruation (**nb under family planning**), bilateral drop foot for 2 mth R (grade 5) and L (grade 4), no rvf; no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix mobile, operated 3x (damagarm) obesity ++ euo/c 4 cm **open traumatized** urethra_euo posteriorly drawn inside euo/bw 13 cm, poor elevation, euo/b 0.2 cm, i/v 11 cm 159.0 cm

operation: excision, euo-rhaphy + paraurethra_euo fixation of pc fascia

duration: 25 min (**step-by-step teaching**) healing 90% continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

100 ml gv: **no** leakage urine level in accord with respiration

transverse incision at 2 cm from euo thru repair scar, sharp dissection, excision of **scar/ mutilation tissue ++**, closed euo rhaphy by 1x serafit, bilateral distal fixation of medium –quality proximal pc fascia onto paraurethra-euo atf by 2x serafit each side with urethra_euo repositioning/stabilization and fascia tightening, now euo/b 1.2 cm, **no** urine thru euo on rest/cough/pressure, triple fixation of foley ch 18, pack; free urine flow, euo/bw cm, good anterior elevation, euo/b 1.2 cm (**urethralization_compression**) normal bladder capacity (longitudinal diameter 13-1.2 = 12 cm poor position of uv-junction **against** caudad third of symphysis medium fascia plate **under physiologic stress/estrogens it may normalize/heal** normal-width 1.2 cm poor-guality urethra euo in anatomic position

pt 197	katsina mdg vvf 813 total circumferential trauma rvf				
l s d (katsina)	female	15 yr	16.07.11	
surgeon:	kees waaldijk				
assistant:	kabir lawal				
diagnosis:	PI (0 alive), strange <u>+</u> 2 cm 0 midline within circular vagina tra- started immediately following ob- male, married 2 yr ago pre(mena no menstruation, drop foot R (gra- proximal midline pvw/cervix traur shiri, no h/o eclampsia; ap diame euo/f 2.5 cm, f/c 0 cm, i/v 10 cm	uma, leakir structed lab rche 6 mth de 4) and L na (never tu	ng urine for or for 2 da later), not l (grade 4), usa pv), no	br 42 days which hys, in hospital sb iving at husband, 1.5 cm 0 necrotic rvf, no yankan gi	
operation:	debridement + complicated uvv	f-repair			
duration:	30 min	hea	aling 95%	continence 95%	
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%			

median episiotomy, transverse incision thru/at fistula edge, sharp dissection, debride ment, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, trans verse avw/cervix adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.3 cm normal bladder capacity (longitudinal diameter 12-2.3 = 9.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position



pt 198	katsina m anterior tra	vvf 8140 cath 1365		
s h k (katsina	a)	female	27 yr	16.07.11
surgeon:	dr bawa bure/kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PVI (2 alive), \pm 1 cm 0 urethrows leaking urine for 34 days which last labor for 2 days, in hospital che 9 mth later), <u>still</u> living with 1 (grade 4) and L (grade 2), no normal ap diameter/pubic arch 8 euo/f 2 cm, f/c 4 cm, i/v 11 cm	started immer live male, ma nusband, no r rvf, no yanka	diately followin rried 15 yr ag menstrua tion, an gishiri, ecla	g obstructed o pre(menar drop foot R
operation:	uvvf-repair			

duration: 25 min (personal supervision) healing 90% continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru fistula edge, sharp dissection, tension-free transverse bladder/ urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/ cough/pressure, ballooning of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.7 cm

normal bladder capacity (longitudinal diameter 12-1.7 = 10.5 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 1.5 cm good-quality urethra_euo in anatomic position



katsina mdg anterior trauma; span too wide; median pcf defect

a i s r (katsina) female 18 yr 16.07.11

surgeon: kees waaldijk

assistant: kabir lawal

diagnosis: PIII (1 alive), postpartum **genuine** urine intrinsic_stress incontinence gra de II, leaking urine whilst standing/walking but not whilst lying/sitting + spontaneous miction for 1 yr which started immediately following last obstructed labor for 2 days, in hospital <u>live</u> male, married 5 yr ago pre (menarche 2 mth later), <u>still</u> living with husband, normal menstruation, no (h/o) drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/**wide** pubic arch 95°, ar pos, 1°-2° cervix prolapse, cystocele ++ euo/c 10 cm **wide open** urethra_euo euo/bw 13 cm, poor elevation, euo/b 1.5 cm, i/v 13 cm

operation: urethralization by longitudinal fascia repair and pc fascia fixation

duration: 25 min (**step-by-step teaching**) healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse curved incision at 2 cm from euo parallel/within ruga folds, sharp dissection, 8x2.5 cm median/R longitudinal fascia defect from cervix up to 2 cm to euo, <u>longitudinal</u> repair/rhaphy of pc fascia at 2-8 cm from euo by serafit with normalization of urethra_ euo, now euo/b 2.3 cm, **no** urine thru euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw_pcf/symphysis_avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 13 cm, good elastic anterior elevation, euo/b 2.3 cm (**urethralization**) good fascia plate good-quality pcm normal bladder capacity (longitudinal diameter 14-2.3 = 11.5 cm) good position uv-junction **against** middle third symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position

katsina mdg anterior + iatrogenic trauma

h d s (sokoto) female 26 yr 16.07.11

- surgeon: dr said ahmed
- assistant: gambo lawal
- diagnosis: PII (0 alive), <u>+</u> 3 cm 0 cs-vesicocervicovaginal fistula type **I at** midline, leaking urine for 7 mth which started immediately following cs bco last obstructed labor for 1 day, sb male, married 13 yr ago pre(menarche 5 mth later), <u>still</u> living with husband, normal menstruation, drop foot R (grade 4) and L (grade 4), no rvf, no yankan gishiri, no h/o eclampsia; nor mal ap diameter/pubic arch 85°, ar pos, cervix fixed midline euo/f 5 cm, f/c 0 cm, i/v 11 cm
- operation: cs-vcvf-repair

duration: 60 min healing 85% continence 90%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

bilateral episiotomy, incision at fistula edge, sharp dissection, tension-free <u>longitudinal</u> bladder closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/ cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 0.8 cm

normal bladder capacity (longitudinal diameter 12-0.8 = 11 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 1 cm good-quality urethra_euo in anatomic position



pt 201 pt	katsina mdg	vvf 046 vvf 7183
pt	careless _ 4/5th obstetric lea	kage vvf 2307
pt pt	poor-quality tissue	vvf 4714 rvf 913

s m k (katsina)

female 42 yr

15.07.11

- surgeon: dr said ahmed
- assistant: gambo lawal
- diagnosis: PXII (2 alive), total post **extensive "inoperable" IIBb** delivery urine intrinsic-stress incontinence grade III, leaking urine whilst lying/sitting/ standing/walking + no spontaneous miction for 1 yr which started immedia tely following "miscarriage" for 1 day, at home sb male, married 32 yr ago pre(menarche 4 yr later), still living with husband, no menstruation, drop foot R (grade 3) and L (grade 3), no yankan gishiri; normal ap diameter /narrow pubic arch 75°, ar pos, bilateral atf/atl + pc_ ilcm loss, everything fixed, lpl stricture **nb** urethralization"29.8.08 and 10.5.09 (id) after "mis carriage"; ok at 7-mth po 7.12.09 **wide open** urethra_euo euo/bw 8 cm, poor elevation, euo/b 1 cm, i/v 10 cm 140.0 cm
- operation: urethralization, euo-rhaphy and bilateral pcf fixation

duration: 50 min

healing 85% continence 60%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision at 2 cm from euo, sharp dissection, longitudinal rhaphy of fascia by serafit, euo-thaphy by serafit, bilateral pcf fixation onto paraurethra atf by serafit, **no** urine thru suture line/euo on rest/cough/pressure, ballooning of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free scanty urine flow, euo/bw 8 cm, good anterior elevation, euo/b 2 cm moderate bladder capacity (longitudinal diameter 8-2 = 6 cm) acceptable position of uv-junction **against** middle/caudad third of symphysis normal-width 2 cm poor-guality urethra euo in anatomic position

pt 202 pt	katsina third obstetric fist	vvf 047 vvf 4753 cath aahaa		
h s r (katsina	a)	female	36 yr	16.07.11
surgeon:	dr said ahmad			
assistant:	gambo lawal			
diagnosis:	PXI (0 alive), <u>+</u> 8x6x5 cm impacted bladder stone with 0.5 cm 0 urethro vesicovaginal fistula IIAa , leaking urine for 2 yr which started immediately following obstructed last labor for 2 days, at home sb male, married 25 yr ago pre(menarche 2 yr later), <u>still</u> living with husband, nor mal men- struation, drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85° euo/f 4 cm, f/c 0 cm 145.0 cm			
operation:	vaginal cystostomy + stone remo	oval as first	stage	
duration:	20 min	hea	ling	continence
anesthesia:	spinal L4/L5 with 3 ml bupivacai	ne 0.5%		
transverse incision thru fistula, difficult stone removal in pieces, flushing debris out of				

transverse incision thru fistula, difficult stone removal in pieces, flushing debris out of bladder, ballooning of foley ch 18 everything left open for repair in 2-3 wk

pt 203 pt pt		katsina mdg third obstetric fistula at least 10th operation		vvf 8142/7125 vvf 1904 vvf 3029//4453
s d t (kano)		female	35 yr	17.07.11
surgeon:	kees waaldijk			

assistant: kabir lawal

diagnosis: PIII (0 alive), total post **IIBb** urine intrinsic_stress incontinence grade III, leaking urine whilst lying/sitting/standing/walking/no spontaneous miction following at least 9 operations 22/2-92 to 17.6.07 for **3 obstetric fistulas**, married 23 yr ago pre(menarche 1 yr later), <u>still</u> living with husband, normal menstruation, drop foot R (grade 5) and L (grade 5), no RVF, no yankan gishiri; normal ap diameter/pubic arch 85°, ar pos, **major** atf/atl + pc_ilc_iscm loss, severe vagina shortening, cervix displaced at L euo/bw 12 cm, good elevation, euo/b 2.3 cm, i/v 4 cm 149.0 cm

operation: reinforcement + distal para-euo fixation last resort by all means

duration: 20 min (**step-by-step teaching**) healing 95% continence 40%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

longitudinal incision with transverse extension R at euo, sharp dissection, excision of scar tissue, supporting urethra by reinforcing/uniting ff (attached to rotation flap) over it, bilateral fixation of paraurethra tissue onto para-euo symphysis by 1x serafit each side, euo/b 2.3 cm, **no** urine thru euo on rest/cough/pressure, ballooning of foley ch 18, longi tudinal avw/flap adaptation by slight rotation into L para-euo corner by 1x seralon/1x serafit; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.3 cm normal bladder capacity (longitudinal diameter 12-2.3 = 9.5 cm) good position of UV-junction **against** middle third of symphysis normal-width 2.5 cm medium-quality urethra_euo in anatomic position

pt 204 pt	katsina mdg ba hanya			vvf 8143/4600/7420 rvf 1030/545/./941
y r s s s (kadun	a)	fema	ale 27	′yr 17.07.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PI (0 alive), ba hanya + stool pv following multiple vvf/rvf-repairs 8.10.99 to 7.6.08, not leaking urine at all , <u>still</u> living at 2nd husband, no menstru ation, drop foot R (grade 4-5) and L (grade 5); normal ap diameter/narrow pubic arch 70°, severe funnel-shap vagina stenosis/shortening i/v 3 cm obesity + 156.0 cm			
operation:	assessment			final
duration:	10 min		healing	continence
anesthesia:	spinal L4/L5 with 3	ml bupivacaine 0.5	%	

urine fistula: dye test: **no** leaking/**no** dye thru euo on rest/cough/pressure, euo/bw 12 cm, good elevation, euo/b 3.0 cm

RE/ rvf completely healed however, anterior anus pulled inside over 2 cm responsible for stool/flatus incontinence

since severe scarring/fibrosis **never** for hanya operation

nb pat eating in the morning + vomiting fura during examination

pt 205 pt 206 pt	loose sphincter/d	sina mdg lehiscent perineal k proximal rvf	vvf 8144/2351//5531 oody rvf 1031 rvf 147/156		
z u m (rép n	iger)	female	35 yr 17.07.11		
surgeon:	kees waaldijk		pat complains ba hanya		
assistant:	kabir lawal	probably miscarria	age or delivery		
diagnosis:	PI (0 alive), uv-stricture with overflow following multiple repairs 9.7.92 to 14.9.93 for extensive type IIBb and extensive type I fistulas, <u>still</u> living with husband up till 3 mth ago, normal menstruation, drop foot R (grade 2) and L (grade 4-5); normal ap diameter/ wide pubic arch 90°, operated 1x for vvf, moderate vagina shortening, bilateral major atf/atl + pc_io_ilciscm loss (empty pelvis), no bilateral connection pcf onto atf whatso ever, ar pos but flatus incontinence cervix not identified, vault fixed uvvf/rvf healed dehiscent perineal body i/v 6 cm 151.0 cm				
operation:	dilatation, bilateral pcf/avv	v fixation, sphincter a	ani/perineal body repair		
duration:	40 min	healing both 95%	continence u_s 50_95%		
anesthesia:	spinal L4/L5 with 3 ml bup	vivacaine 0.5%	obesity +++		

easy gentle gradual dilatation h3 thru h10, bilateral transverse avw incision, excision of mucosa covering pubic bones (obturator foramen open at L), bilateral fixation of "pcf"/ avw onto "atf" by 2x everting supramid each side filling up empty space, **no** urine thru euo on rest but still <u>+</u> on cough, ballooning of foley ch 18; free urine flow, euo/bw 14 cm, good anterior elevation, euo/b 3.0 cm)

normal bladder capacity (longitudinal diameter 12-3.0 = 9 cm)

good position of uv-junction against middle third of symphysis

normal-width 3 cm medium-quality neourethra_euo in anatomic position transverse incision at anterior cervix with freshening of fatty degenerated sphincter ani (?ends? with gap from 11.30 to 12.30), end-to-end sphincter ani reconstruction by 2x serafit, perineal body (fatty degeneration at R) repair with re-union of bulbocavernosus /transversus perinei muscles by 3x serafir, check on hemostasis, now i/v 8 cm **perineal body: better configuration for both urine/stool continence mechanism**

pt 206 pt pt 205	loose sphincter/d	sina mdg lehiscent perineal k proximal rvf	rvf 1031 oody rvf 147/156 vvf 8144/2351//5531	
z u m (rép ni	iger)	female	35 yr 17.07.11	
surgeon:	kees waaldijk		pat complains ba hanya	
assistant:	kabir lawal	probably miscarria	age or delivery	
diagnosis:	PI (0 alive), uv-stricture with overflow following multiple repairs 9.7.92 to 14.9.93 for extensive type IIBb and extensive type I fistulas, <u>still</u> living with husband up till 3 mth ago, normal menstruation, drop foot R (grade 2) and L (grade 4-5); normal ap diameter/wide pubic arch 90°, operated 1x for vvf, moderate vagina shortening, bilateral major atf/atl + pc_io_ilc _iscm loss (empty pelvis), no bilateral connection pcf onto atf whatso ever, ar pos but flatus incontinence , cervix not identified, vault fixed uvvf/rvf healed dehiscent perineal body i/v 6 cm 151.0 cm			
operation:	dilatation, bilateral pcf/avv	v fixation, sphincter a	ani/perineal body repair	
duration:	40 min	healing both 95%	continence u_ s 50_ 95%	
anesthesia:	spinal L4/L5 with 3 ml bup	oivacaine 0.5%	obesity +++	

easy gentle gradual dilatation h3 thru h10, bilateral transverse avw incision, excision of mucosa covering pubic bones (obturator foramen open at L), bilateral fixation of "pcf"/ avw onto "atf" by 2x everting supramid each side filling up empty space, **no** urine thru euo on rest but still <u>+</u> on cough, ballooning of foley ch 18; free urine flow, euo/bw 14 cm, good anterior elevation, euo/b 3.0 cm)

normal bladder capacity (longitudinal diameter 12-3.0 = 9 cm)

good position of uv-junction against middle third of symphysis

normal-width 3 cm medium-quality neourethra_euo in anatomic position transverse incision at anterior cervix with freshening of **fatty degenerated** sphincter ani (?ends? with gap from 11.30 to 12.30), end-to-end sphincter ani reconstruction by 2x serafit, perineal body (**fatty degeneration** at R) repair with re-union of bulbocaverno sus/transversus perinei muscles by 3x serafir, check on hemostasis, now i/v 8 cm **perineal body: for better configuration of both urine/stool continence mechanism**

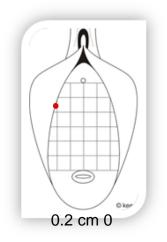
pt 207 katsina mdg vvf 048 probably second obstetric fistula						
z n w (rép ni	ger)	female	29 yr	17.07.11		
surgeon:	dr idris halliru					
assistant:	gambo lawal					
diagnosis:	PIV (0 alive), \pm 0.2 cm 0 urethrove leaking urine for 14 yr which starte labor for 2 days, in hospital sb ma later), <u>still</u> living with husband, no 2 mth R (grade 5) and L (grade 5) h/o; normal ap diameter/pubic are (1x damagaram and 2x b/r 12 yr euo/f 1.5 cm, f/c 4 cm, i/v 10 cm	ed immediate ale, married 17 rmal menstru a, no rvf, no ya ch 85°, ar pos	ly followi 7 yr ago p ation, bila nkan gis s, cervix f	ng obstructed <u>first</u> ore(menarche 1 yr ateral drop foot for hiri, eclampsia no		
operation:	uvvf-"repair"					
duration:	40 min	heali	ng 80%	continence 60%		

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru fistula, sharp dissection, scar tissue/fibrosis ++, tension-free transverse bladder/urethra "closure" by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, ballooning of foley ch 18, transverse avw adap tation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 8 cm, good anterior elevation, euo/b 1.6 cm

moderate bladder capacity (longitudinal diameter 8-1.6 = 6.5 cm) acceptable position of uv-junction **against** middle/caudad third of symphysis

deformed open 1.6 cm poor-quality urethra_euo pulled inside



a b b (katsina)

female 26 yr

17.07.11

surgeon: dr idris halliru

assistant: gambo lawal

- diagnosis: residual minute < 01 cm lungu fistula R with total post extensive **IIAb** intrinsic incontinence following multiple repairs 2.6.01 to 26.6.09, not living with husband, normal menstruation, drop foot R (grade 3-4) and L (grade 4-5) both with gm_at contracture, no rvf, no yankan gishiri, no eclampsia; normal AP diameter/narrow pubic arch 75°, AR pos, bilateral atf/atl + pc_ io_ilc_iscm loss, moderate stenosis/severe shortening, cervix fixed i spine R **open** 1 cm urethra_euo pulled inside posteriorly euo/f 1.5, f/c 3 cm, i/v 6 cm 154.5 cm
- operation: uvvf-repair + bilateral pcf fixation
- duration: 40 min healing 90% continence 80%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru fistula, sharp dissection, tension-free transverse bladder/ urethra closure by single layer of inverting serafit, bilateral fixation of pcf onto para-euo atf by serafit, **no** urine thru suture line/euo on rest/cough/pressure, ballooning of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.4 cm normal bladder capacity (longitudinal diameter 12-2.4 = 9.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm medium-quality urethra_euo in anatomic position



pt 209 pt pt

h s y-y (katsina)

female 41 yr

17.07.11

surgeon: dr idris halliru

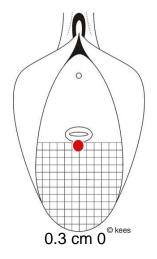
assistant: gambo lawal

- diagnosis: PXI (4 alive), **new** <u>+</u> 0.3 cm midline proximal rectovaginal fistula type **Ia**, passing stool pv for ?? (on 23.6 everything ok on follow-up with **3 mth amenorrhea**) which started following ?miscarriage?, married 28 yr ago pre(menarche 1 mth later), <u>still</u> living with husband, normal menstruation, drop foot R (grade 5) and L (grade 5), no yankan gishiri; normal ap diameter/ pubic arch 90°, ar pos, ssl_cm loss at L, cervix fixed/moving; vvf/rvf **healed** after repair 25.5.07 pr/ **no** stricture a/f 12 cm, i/v 12 cm
- operation: rvf-repair

duration:30 minhealing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru fistula edge, sharp dissection, rectum closure by 2x inverting serafit, pvw adaptation by everting 2x seralon, check on hemostasis



pt 210	katsina	a mdg		vvf 8145
pt	second obst	etric fistu	la	vvf 5673
b b s (katsin	a) fe	male	26 yr	18.07.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PIV (1 alive), extensive <u>+</u> 0.3 with urethra block/circumfere started immediately following male, married 16 yr ago pre(n no menstruation, drop foot R (gishiri, no h/o eclampsia; no bilateral atf/atl + pc_ilc_iscm I (incontinence at cough/standi euo/f 1 cm, f/c 1.5 cm, ab/au	ntial defect obstructed nenarche 3 (grade 3) a ormal AP co loss, 1°-2° ing up) follo	et, leaking urin last labor for 3 yr later), not nd L (grade 5) diameter/pubic cervix prolaps owing last ope	ne of 5 mth which 1 day, at home <u>live</u> 1 living at husband, 1, no rvf, no yankan 1, arch 85, ar pos 1, which arch 85, ar pos 1, which arch 85,
operation:	uvvf-repair + bilateral "pcf" ret	fixation	wide	open urethra_euo
duration:	30 min (step-by-step teachi	ng)	healing 95%	continence 70%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

re-episiotomy L, deblocking uv-junction, large transverse incision thru fistula, sharp dis section, tension-free transverse **poor-quality** "fascia" repair/bilateral fixation onto para urethra_euo atf with fistula closure by 2x serafit each side, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw/avw_cervix adap tation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 1.8 cm

normal bladder capacity (longitudinal diameter 11-1.8 = 9 cm)

acceptable position of uv-junction **fixed against** middle/caudad third of symphysis "normal-width" 2 cm poor-quality urethra_euo in "anatomic position"

the problem: extensive trauma/poor tissue quality



pt 211	pt 211 katsina mdg vvf 8146/7690/778 extensive circumferential + iatrogenic cs trauma				
a i t (katsina)	female	39 yr	02.10.09	
surgeon:	kees waaldijk				
assistant:	kabir lawal				
diagnosis:	PVIII (3 alive), residual minute scarred \pm 0.1 cm 0 urethrovesicovaginal fistula L type IIBb with circumferential defect/anterior cervix loss following repairs 2.10.09 to 24.2.10, <u>still</u> living with husband, normal menstruation, drop foot R (grade 5) and L (grade 5); normal ap diameter/pubic arch 85, ar pos, atf/atl + pc_ilc_iscm loss L >> R, cervix fixed onto i spine L euo/f 1 cm, f/c 0.5 cm, ab/au xx 0 cm, i/v 10 cm				
operation:	complicated uvvf-repair, pcf fixa	ation R + avw	correctio	on	
duration:	40 min	healir	ng 85%	continence 70%	
anesthesia:	spinal L4/L5 with 3 ml bupivacai	ne 0.5%			

transverse incision thru fistula with longitudinal extension over urethra, sharp dissection, excision of scar tissue +, tension-free longitudinal urethra rhaphy with closure by single layer of inverting serafit, only at R fixation of pc fascia onto para-euo atf by 1x serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, avw correction by avw rotation flap from R by 4x fixation onto paraurethra symphysis by 2x everting seralon each side, check on hemostasis, tight pack for hemostasis; free urine flow, euo/bw 10 cm, good anterior elevation, euo/b 1.4 cm normal bladder capacity (longitudinal diameter 10-1.4 = 8.5 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 1.4 cm medium-quality urethra_euo in anatomic position the **problem:** everything fixed/poor tissue quality right from the beginning



pt 212 katsina mdg rvf 1032 pt 213 **extensive circumferential trauma** vvf 8147 inoperable type IIBb; ?ureterosigmoidostomy?

rssb (sokoto)

female 27 yr 18.07.11

surgeon: kees waaldijk

assistant: kabir lawal

- diagnosis: PI (0 alive), **extensive inoperable** <u>+</u> 6 cm 0 urethrovesicovaginal fistula type **IIAb** with circumferential defect/bilateral ureter prolapse, transverse 1.5x0.5 cm proximal rectovaginal fistula type **Ia** fixed onto i spine R (no rectum stricture), leaking urine/passing stools pv for 12 yr which started immediately following obstructed labor for 1 days, in hospital sb male, married 15 yr ago pre(menarche 1 yr later), not living with husband, no menstruation since, drop foot R (grade 3-4) and L (grade 3-4), no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos, bila teral atf/atl + pc_ilc_iscm loss, cervix not identified/fixed, severe vagina stenosis/moderate shortening; operated 1x abdominally euo/f 0 cm, f/c 0 cm, ab/au 1 cm, i/v 8 cm, a/f 7
- operation: **ps-like** rvf-repair + assessment of **inoperable IIBb** urine fistula

duration: 40 min

healing 85% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

episiotomy R thru scarred stenosis, incision at fistula edge, no dissection, **complicated ps-like** transverse "cervix"/pvw closure by 4x everting seralon

extensive 6 cm 0 type **IIBb** fistula with bilateral ureter prolapse, ab/au 1 cm at 3 cm from "euo", everything fixed with severe vagina stenosis, direct bladder longitusinal dia meter 6 cm, open ureter ostium L (hydroureter); operated 1x abdominall, though pat says not for fistula watery stools per anum (?**ureterosigmoidostomy?**)

once continuous passing of stools pv stops tissue might soften up; for review in 1 yr



pt 213 katsina mdg vvf 8147 pt 212 extensive circumferential trauma rvf 1032 inoperable type IIBb; ?ureterosigmoidostomy?

rssb(sokoto)

female 27 yr 18.07.11

surgeon: kees waaldijk

assistant: kabir lawal

- diagnosis: PI (0 alive), **extensive inoperable** <u>+</u> 6 cm 0 urethrovesicovaginal fistula type **IIAb** with circumferential defect/bilateral ureter prolapse, transverse 1.5x0.5 cm proximal rectovaginal fistula type **Ia** fixed onto i spine R (no rectum stricture), leaking urine/passing stools pv for 12 yr which started immediately following obstructed labor for 1 days, in hospital sb male, married 15 yr ago pre(menarche 1 yr later), not living with husband, no menstruation since, drop foot R (grade 3-4) and L (grade 3-4), no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos, bila teral atf/atl + pc_ilc_iscm loss, cervix not identified/fixed, severe vagina stenosis/moderate shortening; operated 1x abdominally euo/f 0 cm, f/c 0 cm, ab/au 1 cm, i/v 8 cm, a/f 7
- operation: **ps-like** rvf-repair + assessment of **inoperable IIBb** urine fistula

duration: 40 min

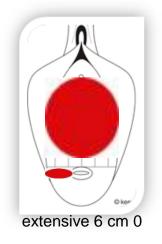
healing 85% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

episiotomy R thru scarred stenosis, incision at fistula edge, no dissection, **complicated ps-like** transverse "cervix"/pvw closure by 4x everting seralon

extensive 6 cm 0 type **IIBb** fistula with bilateral ureter prolapse, ab/au 1 cm at 3 cm from "euo", everything fixed with severe vagina stenosis, direct bladder longitusinal dia meter 6 cm, open ureter ostium L (hydroureter); operated 1x abdominall, though pat says not for fistula watery stools per anum (?**ureterosigmoidostomy?**)

once continuous passing of stools pv stops tissue might soften up; for review in 1 yr



pt 214 pt	katsina mdg second obstetric fistula			vvf 8148/6905 vvf 3760/3873 rvf aaibu
s i m (zamfara)		female	31 yr	18.07.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PII (0 alive), residual <u>+</u> 2x1 cm 0 urethrovesicovaginal fistula IIBb after nicely healed circumferential bladder fixation as first staged 25.10.06, not living with husband, normal menstruation, drop foot R (grade 3-4) and L (grade 5), healed 1 cm 0 proximal pvw trauma fixed at cervix (tusa pv for 1 mth), healed rvf; normal ap diameter/narrow pubic arch 75°, ar pos , no longer saddle anesthesia, bilateral atf/atl + pc_ilc_iscm proximal lpl stricture, vagina stenosis/shortening, asymmetric pelvis, healed ulcer L tro chanter majus, cervix fixed toards i spine R, ssl_pm trauma L euo/f 0 cm, f/c 0 cm, i/v 9 cm			
operation:	"continent" urethra/fascia/avw r	econstruction		
duration:	40 min	heal	ing 85%	continence 60%

re-episiotomy L, wide H incision around fistula, sharp dissection, sharp mobilization of (para)urethra tissue, tension-free <u>longitudinal</u> urethra reconstruction over 2 cm with re positioning of retracted uv-junction by single layer of inverting interrupted serafit, bila teral fixation of poor-quality pc fascia onto paraurethra atf by 1x serafit each side (more is not possible), euo/b 2.1 cm, **no** urine thru suture line/euo on rest/cough but still <u>+</u> on pressure, triple fixation of foley ch 18, avw reconstruction by "avw"/cervix advancement flap by 4-point fixation to paraurethra atf/symphysis by everting seralon, check on hemo stasis, epi closure; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 2.1 cm normal bladder capacity (longitudinal diameter 11-2.1 = 9 cm) good position uv-junction **against** middle third symphysis normal-width 2 cm poor-quality urethra_euo in anatomic position

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%



pt 215 pt	r (katsina)	katsina mo kano	dg	vvf 050	vvf 4209/./7505 vvf 912/1096/1294	
h n g (kano d	· · · ·		female	ə 50	yr	18.07.11
surgeon:	dr said ahmad					
assistant:	gambo lawal					
diagnosis:	PVI (2 alive), <u>+</u> 4x3x2 cm bladder stone with incontinence, not living with husband, menopause 8 yr ago; normal ap diameter/pubic arch 85° i/v 10 cm 158.0 cm					
operation:	suprapubic cystostomy + stone removal					
duration:	60 min			healing 95	5%	continence 50%
anesthesia:	: spinal L4/L5 with 3 ml bupivacaine 0.5%					
bladder opening by suprapubic cystostomy, stone removal, flushing debris out of blad						

bladder opening by suprapubic cystostomy, stone removal, flushing debris out of blad der, closure in layer ballooning of foley ch 18 free urine flow

pt 216	katsi	na mdg	vvf 051	vvf 5163//7680	
r y g (katsina)		fema	le 28 yr	18.07.11	
surgeon:	dr said ahmad/dr ahmed bolaji				
assistant:	gambo lawal				
diagnosis:	PI, postrepair stress incontinence grade III, leaking of urine whilst lying/sitting/standing/walking following multiple repairs, <u>still</u> with husband, normal menstruation, drop foot (grade 5) and L (grade 4-5);?ap diameter?/borderline pubic arch 80°, moderate vagina shortening/ stenosis, wide open chort urethra_euo euo/bw 10 cm, moderate elevation, euo/b 1.2 cm, i/v 7 cm 142.0 cm				
operation:	urethralization, euo-rhaphy	+ pcf fixatio	n		
duration:	60 min		healing 80%	continence 70%	
anesthesia:	spinal L4/L5 with 3 ml bupiv	acaine 0.5%	%		

transverse incision thru previous repair scar, sharp dissection, fascia rhaphy, euorhaphy, bilateral pcf fixation, **no** urine thru suture euo on rest/cough/pressure, balloon ing foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 4.0 cm normal bladder capacity (longitudinal diameter 12-4 = 8 cm) good position of uv-junction **against** middle third of symphysis normal-width 4 cm poor-quality urethra_euo in anatomic position

pt 217 pt pt	katsina mdg vvf 052 new obstetric leaking zinder			vvf 6909 vvf 5958 VVF 80
f a g (rép niger)		female	27 yr	18.07.11
surgeon:	dr said ahmad/dr hayatudeen			
assistant:	gambo lawal			
diagnosis:	PIV, post IIAa total urine intrinsic_stress incontinence grade, married 15 yr ago pre(menarche 8 mth later), living with husband, normal menstruation, drop foot R (now grade 5) and L (grade 5); normal ap dia meter/narrow pubic arch 70°, wide open uethra _euo euo/bw 14 cm, good elevation, euo/b 1 cm 161.0 cm			
,operation:	urethralization, euo-rhaphy + fixation			
duration:	60 min	he	aling 80%	continence 90%
anesthesia:	spinal L4/L5 with 3 ml bupivacaine 0.5%			

transverse incision thru repair scar, sharp dissection, fascia rhaphy, euo rhaphy, bila teral fixation, **no** urine thru suture line/euo on rest/cough/pressure, ballooning of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 14 cm, good anterior elevation, euo/b 3.0 cm normal bladder capacity (longitudinal diameter 14-3 = 11 cm) good position of uv-junction **against** middle third of symphysis normal-width 3 cm medium-quality urethra_euo in anatomic position

1

h h n (kaduna city)	female	26 yr	18.07.1
	Tornalo	20 51	10.07.1

- diagnosis: PI (0 alive), <u>+</u> 2 cm 0 **necrotic** urethrovesicovaginal fistula type **IIAa** at tip of 4 cm 0 avw trauma, **leaking urine for 6 days** that started immediately following obstructed labor for 1 day, in hospital sb male, married 3 yr ago post(menarche 10 yr earlier), <u>still</u> living with husband, no menstruation, no drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos euo/f 2 cm, f/c 4 cm 162.5 cm
- 18.07.11 foley ch 18; free urine flow, euo/bw 12 cm, good anterior elevation and euo/b 2 cm normal bladder capacity (longitudinal diameter 12-2 = 10 cm) acceptable position uv-junction **against** middle/caudad third symphysis normal-width 2 cm medium–quality urethra_euo in anatomic position probably it will heal



pt 219	katsina mdg	vvf 8149/5	510//3653
pt	last resort final of extensive cir obstetric	trauma	rvf 44
a s s (rép niger)	female	47 yr	19.07.11

surgeon: kees waaldijk

assistant: kabir lawal

diagnosis: PI (0 alive), total post **extensive IIBAb** urine intrinsic_stress incontinence grade III, leaking urine whilst lying/sitting/standing/walking following repair 30.12.86 to 10.10.96, for 27 yr which started immediately following obsteructed labor for 3 days, in hospital damagaram sb male, married 33 yr ago post(menarche 1 yr earlier), not living with husband, menopause 2 yr ago, bilateral drop foot for 1yr R (grade 4-5) and L (grade 4-5), no yankan gishiri, rvf **healed**, eclampsia yes; normal ap diameter/pubic arch 85°, major bilateral atf/atl + pc_io_ilc_iscm loss + ssl_pm trauma, **empty pelvis**, severe vagina shortening, ant anus pulled inside by scar tisue, de hiscent perineal body, no flatus incontinence, **no** labia **"open"**euo euo/bw 12 cm, good elevation, euo/b 2.8 cm, i/v 3 cm 153.0 cm

operation: assessment + bilateral paraneourethra tissue fixation last resort final

duration: 20 min

healing 85% continence 50%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

gv/ **no** leakage but total intrinsic-stress incontinence

incision at euo with bilateral longitudinal paraurethra extension, sharp dissection, bilateral fixation of para**neo**urethra tissue/avw onto para-euo symphysis by 2x seralon, **no** urine thru euo on rest/cough/pressure, ballooning of foley ch 18, check on hemosta sis; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.8 cm normal bladder capacity (longitudinal diameter 12-2.8 = 9 cm) good position of uv-junction **fixed against** middle third of symphysis normal-width 3 cm medium urethra_euo in anatomic position since no flatus incontinence (**healed** intact sphincter ani) and since anterior anus pulled in by scarring no attempt made at perineal body repair **actually, everything nicely healed considering the obstetric trauma**

pt 220 pt pt pt	katsina mdg fourth/fifth obstetric fistula pat not cooperative		vvf 8150/3937 vvf 682/1067 vvf 1753/2015 vvf 2897/3392 rvf 88/130
r s k (jigawa)	female	43 yr	19.07.11

r s k (jigawa)

- kees waaldijk surgeon:
- assistant: kabir lawal

diagnosis: PV (0 alive), total post **IIAb** delivery urine intrinsic_stress incontinence grade III, leaking urine whilst lying/sitting/szanding/walking + no spontane ous miction following reapir for 4th obstetric fistula, delivered again 7 yr ago for 1 day, at home sb male, married 31 yr ago pre(menarche 1 yr later), not living with husband, no menstruation since last delivery, drop foot R (grade 5) and L (grade 4-5), rvf healed, no yankan gishiri, eclamp sia delivery I; normal ap diameter/pubic arch 85°, major bilateral atf/atl + pc_io_ilc_iscm loss, cervix fixed onto i spine R, moderate vagina short ening **nb** this is the 10th procedure since 7.8.87 wide open euo euo/bw 9 cm, good elevation, euo/b 1.0 cm, i/v 5 cm 150.0 cm

operation: euo-rhaphy, fixation R, bilateral para-euo fixation last resort final

duration: 25 min healing 85% continence 50%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

gv/ no leakage, u incision at euo with bilateral longitudinal extension R > L since no connection pcf onto paraurethra atf at R, sharp dissection, fixation of pcf/avw onto R paraurethra atf by 1x sedralon, euo-rhaphy by 1x serafit, bilateral fixation of "pcf" onto para-euo atf by 1x serafit each side, no urine thru euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on he mostasis; free urine flow, euo/bw 9 cm, good anterior elevation, euo/b 1.4 cm normal bladder capacity (longitudinal diameter 9-1.4 = 7.5 cm) poor position of uv-junction fixed against caudad third symphysis normal-width 1.5 cm poor-quality urethra_euo in anatomic position the problem: severe scarring after all the repair pat vomiting food io

> RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 221	katsina mdg	vvf 8151/6306/7250
pt	post IBa repair last resort final	vvf 1294/1610
	repair of completely dehiscent perineal b	odv

n a d (rép niger)

female 39 yr 19.07.11

- surgeon: kees waaldijk
- assistant: kabir lawal
- diagnosis: PIII (2 alive), total post **IIBa** urine intrinsic_stress incontinence grade III, leaking urine whilst lying/sitting/standing/walking/no spontaneous miction following multiple repair 25.9.89 to 18.10.07, married 27 yr ago pre (men arche 1 yr later), <u>still</u> living with husband, normal menstruation, no (h/o) drop foot, no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter /wide pubic arch 95°, ar pos, deformed euo drawn inside, 2° cervix prolapse up to vulva; euo/c 0.5 cm vagina shortening, rectocele EUO/BW 12 cm, good elevation, euo/b 0.2 cm, i/v 5 cm 145.0 cm

operation: urethra rhaphy, para-euo fixation + **dehiscent perineal body repair**

duration: 40 min

healing 85% continence 70%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

wide H incision, sharp dissection of cervix from bladder, excision of scar tissue, urethra rhaphy over 2 cm by serafir, bilateral fixation of pcf onto ara-euo symphysis by 1x serafit each side, now euo/b 2.4 cm, **no** urine thru euo on rest/cough/pressure, triple fixation of foley ch 18, avw closure by fixation of "avw"/cervix "advancement" flap onto para-euo symphysis by 1x seralon each side; free urine flow, euo/bw 12 cm, good anterior eleva tion, euo/b 2.4 cm (**urethralization_compression**) normal bladder capacity (longitudinal diameter 12-2.4 = 9.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm poor-quality urethra_euo in anatomic position transverse incision pvw/skin junction, repair of completely **dehiscent** perineal body by 3x serafit, perineum well adapted, check on hemostasis now i/v 8 cm

pt 222		ina mdg subtotal bladder lo		152/2788//3389 rvf
b m g (jigawa	a)	female	46 yr	19.07.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	 PIII (0 alive), new slit-like 1.5x0.5 cm urethrovesicovaginal fistula ty IIBb, still living with husband, no menstruation, rvf (zaria) healed, at la assessment 26.2.00 fistula closed but inoperable incontinence after m ple repairs 22.6.94 to 15.2.96; ? ap diameter?/narrow pubic arch 7 severe funnel-shape vagina stenosis/shortening euo/f 0 cm, f/v 0 cm, i/v 4 cm 			
operation:	assessment inoperable II	Bb		
duration:	10 min	healir	ng	continence
anesthesia:	spinal L4/L5 with 3 ml bupi	vacaine 0.5%		
eventhing fixed direct longitudinal bladder diameter 4 em				

everything fixed, direct longitudinal bladder diameter 4 cm from "**inoperable**" it has become really **inoperable** at last assessment 26.2.00 already **inoperable** postrepair incontinence

> RR preanesthesia: 150/90 mm Hg 5': 140/90 10': 140/80 postoperation: 130/80

pt 223	katsina mdg	vvf 053
pt	PV (0 alive) history and follow-up for review	vvf 4041/./5441
	extensive obstetric trauma delivery I	rvf 508/543

IIt (katsina)

female 28 yr

19.07.11

- surgeon: dr idris halliru
- assistant: gambo lawal
- diagnosis: PV (0 alive), post **extensive IIAa** delivery total urine intrinsic_stress incon tinence grade III, leaking urine whilst lying/sitting/standing/walking + spon taneous miction for 1 yr which started immediately following obstructed last labor for < 1 day, at homel SB male, married 15 yr ago pre(menar che 3 mth later), not living at her husband, no menstruation, drop foot R (grade 3-4) and L (grade 3), rvf/sphincter ani **healed**, no yankan gishiri, no h/o eclampsia; normal ap diameter/wide pubic arch 90°, major pcm loss **open** urethra_euo complete both urine/(stool) **continence** till PV euo/bw 13 cm, poor elevation, euo/b 2, i/v 10 cm
- operation: bilateral pcf fixation

duration: 30 min

healing 95% continence 90%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

gv/ **no** leakage but total intrinsic_stressincontinence

transverse incision at 2 cm from euo, sharp dissection, bilateral fixation of pc fascia onto paraurethra atf by serafit, **no** urine thru suture line/euo on rest/cough/pressure, ballooning of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 3 cm normal bladder capacity (longitudinal diameter 13-3 = 10 cm) good position of uv-junction **against** middle third of symphysis normal-width 3 cm good-quality urethra_euo in anatomic position

pt 224 Pt	katsina m + 5x operation	0		vvf 7904 vvf 3916/4199
f m m (gomb	be)	female	e 34 yr	19.07.11
surgeon:	dr idris halliru			
assistant:	gambo lawal			
diagnosis:	PIII (0 alive), post extensive IIBa tinence grade III, leaking urine wh taneous miction following multip with husband, normal menstrua (grade 4); normal ap diameter/pu bauchi), slight vagina stenosis, o euo/bw 11 cm, good elevation, e	nilst lying le repai ition bu ibic arch ervix op	g/sitting/standi rs 30.5.97 to 2 t not every mo 85°, operated pening not ide	ng/walking + spon 24.7.10, <u>still</u> living onth, drop foot L 5x (misau/azare/ ntified
operation:	bilateral pcf fixation as 10th ope	eration		
duration:	30 min		healing 85%	continence 60%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision at fistula edge, sharp dissection, bilateral pc fascia fixation onto paraurethra atf by serafit, **no** urine thru euo on rest/cough/pressure, foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 2.1 cm normal bladder capacity (longitudinal diameter 11-2.1 = 9 cm) good position of uv-junction **against** middle third of symphysis

normal-width 2 cm poor-quality urethra_euo in anatomic position

pt 225 pt	katsina mdg new leakage			vvf 055 vvf 7843
f a k (katsina	a)	female	14 yr	19.07.11
surgeon:	dr said ahmad			
assistant:	gambo lawal			
diagnosis:	P0, post IIBa urine intrinsic_stress incontinence grade II, leaking urine whilst standing/walking but not whilst lying/sitting + spontaneous miction for 2 mth following period of high fever, following continent urethra recon struction after which she was ok for 1 yr, not living with husband, normal menstruation; normal ap diameter/wide pubic arch 90°, ar pos, cervix mobile euo/bw 12 cm, moderate elevation, euo/b 2cm, i/v 11 cm 164.0 cm			
operation:	uvvf-repair, euo-rhaphy + fixation	n		
duration:	60 min	he	aling 90%	continence 85%
anesthesia:	spinal L4/L5 with 3 ml bupivacai	ne 0.5%		

transverse incision at 2 cm from euo, at sharp dissection/excision of redundant avw bladder traumatized, tension-free transverse bladder/urethra closure by single layer of inverting serafit, euo-rhaphy, bilateral pcf fixation, **no** urine thru suture line/euo on rest/ cough/pressure, foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 2.2 cm normal bladder capacity (longitudinal diameter 12-2.2 = 10 cm) good position of uv-junction **against** middle third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



pt 226 pt	katsina mdg second "obstetric" fistula			
m y d (rép ni	ger)	female	25 yr	19.07.11
surgeon:	dr said ahmad			
assistant:	gambo lawal			
diagnosis:	midline, leaking urine for 4 mth which started following period of low abdominal pain/fever ("miscarriage", at home sb male), married 13 yr ac pre(menarche 1 yr later), <u>still</u> living with husband, normal menstruatio drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, eclamps yes; normal ap diameter/pubic arch 85°, ar pos, cervix opening n identified, open euo with stress incontinence			g period of lower married 13 yr ago nal menstruation, gishiri, eclampsia
operation:	uvvf-repair, euo rhaphy + pcf fixa	ation		
duration:	60 min	heali	ng	continence
anesthesia:	spinal L4/L5 with 3 ml bupivacai	ne 0.5%		

transverse incision thru fistula, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, euo-rhaphy, bilateral fixation of pcf, **no** urine thru suture line/euo on rest/cough/pressure, foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 2.2 cm

normal bladder capacity (longitudinal diameter 111-2.2 = 9 cm) good position of uv-junction **against** middle third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



b a b (katsina)	female	26 yr	19.07.11
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- diagnosis: PVI (4 alive), total urine intrinsic stress incontinence grade III as healing phase of atonic bladder, leaking urine for 35 days which started imme diately following obstructed last labor for 1 day, in hospital sb female, mar ried 12 yr ago post(menarche 1 yr earlier), still living with husband, no menstruation, drop foot R (grade 4) and L (grade 3-4), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos avw bulging obesity + 149.0 cm
- 19.07.11 suprapubic mass (obesity +), avw bulging into vagina, bladder overdis tended (euo/bw 17 cm), poor anterior elevation after draining > 1,000 ml foley ch 18; free urine flow urine, euo/b 1 cm increased bladder capacity (longitudinal diameter 17-1 = 16 cm, atonic bladder) objective stress +++ poor position of uv-junction against caudad third of symphysis normal-width 1 cm good-quality urethra_euo in anatomic position

pt 228	katsina m anterior tra	0		cath 1371
h g j (katsina)	female	42 yr	19.07.11
diagnosis:	PXV (5 alive), \pm 4 cm 0 necrotic leaking urine for 5 days which so obstructed last labor for 4 days, so 1 yr later), <u>still</u> living with husband and L (grade 3-4), no rvf, no yand diameter/pubic arch 85°, ar pos euo/f 2.5cm, f/c 1 cm	started imme b male, mar d, no menstru	ediately follow ried 30 yr ago uation, drop fo	ving sth-cs bco pre(menarche pot R (grade 3)

foley ch 18; free urine flow, euo/bw 12 cm, moderate anterior elevation, 19.07.11 euo/b 2 cm normal bladder capacity (longitudinal diameter 12-3 = 10 cm) acceptable position uv-junction against middle/caudad third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position probably it will not heal since deep necrosis



katsina mdg span too wide; posterior trauma

b b j (katsina) female 25 yr 20.07.11

surgeon: kees waaldijk

assistant: kabir lawal

diagnosis: PV (3 alive), cystocele_**massive** 3° cervix prolapse_rectocele without genuine stress incontinence, something coming out of vagina for 2 yr that started spontaneously following obstructed last labor for 1 day, at home <u>live</u> male, married 12 yr ago pre(menarche 1 mth later), <u>still</u> living with husband, normal menstruation, drop foot R (grade 5) and L (grade 5), no vvf/rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/**wide** pubic arch 100°, ar pos, large decubitus in front of anterior cervix euo/c 10 cm **never** leaking urine **narrow** urethra_euo in anat pos **no** objective stress incontinence (also not after reduction) euo/bw 17 cm, poor elevation, euo/b 1.4 cm, i/v 13 cm 170.0 cm

operation: cervix suspension at L

duration: 15 min (**step-by-step teaching**) healing 85% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

small avw incision avw ruga fold with transverse extension up to cervix, sharp dissection to create wound area/surface, paravesical space free, fixation of cervix (with adherent pc fascia) onto L superior pubic bone/pc_ilc_iom/atf/atl by 2x seralon, euo/b 2.1 cm, **no** urine thru euo on rest/cough/pressure, foley ch 18, check on hemostasis; free clear urine flow, euo/bw 17 cm, good elastic anterior elevation at L, rotational descent at R, euo/b 2.1 cm (**re-urethralization**) good cervix fixation **increased** bladder capacity (longitudinal diameter 17-2.1 = 15 cm) good position of uv-junction **against** middle third of symphysis narrow 2 cm good-quality urethra_euo in anatomic position

she may need longitudinal fascia repair/rhaphy as second stage since cystocele +++

pt 230 pt pt	katsina third now traumatic fistula			
r I m (katsina	a)	female	26 yr	20.07.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PIII (0 alive), multiple lacerations/fistulas in neourethra over 2.5 cm type IIBb , leaking urine for 3 mth which started immediately following rta (or rough sex), married 13 yr ago pre(menarche <u>2 days</u> later), not living with husband, no menstruation, drop foot R (grade 3-4) and L (grade 4-5), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, anal reflex pos, cervix fixed/retracted midline completely ok until rta euo/f 0.2 cm, f/c 3 cm, i/v 12 cm			
operation:	complicated continent urethra r	econstruc	tion	
duration:	45 min	h	ealing 75% cont	inence 70%
anesthesia:	spinal L4/L5 with 3 ml bupivacaine 0.5%			

re-episiotomy, u incision around euo with longitudinal extension thru all 3 fistulas, sharp dissection/mobilization of (para)urethra tissue, excision of scar tissue +, tension-free lon gitudinal urethra reconstruction with repositioning of uv-junction over 2.5 cm by single layer of inverting serafit, bilateral fixation of pcf onto paraurethra atf/periurethra fascia by 1x sedrafit each side securing urethra in anatomic position, euo/b 2.5 cm, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, bilateral fixa tion of avw/pcf onto paraurethra symphysis by 1x seralon each side, longitudinal avw adaptation by 2x everting seralon pulling labia towards midline, check on hemostasis, skin closure; free urine flow, euo/bw 14 cm, good anterior elevation, euo/b 2.5 cm normal bladder capacity (longitudinal diameter 14-2.5 = 11.5 cm) good position of uv-junction **fixed against** middle third of symphysis normal-width 2.5 cm poor-quality scarred urethra_euo in anatomic position the **problem: scar tissue ++**



pt 231 pt				vvf 8155 rvf 452/./549
a a g (rép ni	ger)	female	46 yr	20.07.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PI, totally mutilated inoperable 4 cm 0 urethrovesicovaginal fistula type IIAb with circumferential defect, totally mutilated <u>+</u> 5 cm 0 rectovaginal fistula type Ia , leaking urine/passing of stoosl per vaginam for 28 yr that started immediately following obstructed labor for 2 days, in hospital sb female, married 33 yr ago pre(menarche 4 mth later), not living with husband, menopause 2 yr ago, drop foot R (grade 4-5), no yankan gishiri; eclampsia yes; small ap dimater/narrow pubic arch 75°, moderate vagina stenosis, operated 1x (damagaram), major atf/atl + pc_io_ilc_iscm loss + ssl_pm trauma euo/f 2 cm, f/°c° 0, ab7/au 2 cm, a/f 6 cm, i/v 8 cm			
operation:	assessment of both inoperable	type IIAa/la f	istulas	
duration:	15 min	heali	ng	continence
anesthesia:	spinal L4/L5 with 3 ml bupivacai	ne 0.5%		

mutilated 4 cm 0 urethrovesicovaginal fistula with bilateral ureter prolapse; everything fixed so **inoperable IIAb**

4 cm 0 proximal rvf with sigmoid prolapse + small 0.5 cm 0 rvf 1.5 cm distally midline proximally from rvf; even if sigmoid fixed to cover rvf, still small rvf so **inoperable la**



pt 232katsina mdgvvf 8156/7870/7965ptsecond obstetric fistulasrvf 1000pttotal post extensive 2x IIAb intrinsic incontinencevvf 7242only correction of defects/reconstruction of functional anatomy

b a t (rép niger)

female 20 yr 20.07.11

- surgeon: kees waaldijk
- assistant: kabir lawal
- diagnosis: PIV (0 alive), total post **second** 4x repair **IIAb** intrinsic urine incontinence grade III, leaking urine whilst lying/sitting/standing/walking + **no** spontane ous miction following circ repair for **second** obstetric fistula 18.06.10, married 7 yr ago pre(menarche 3 mth earlier), not living with husband, nor mal menstruation, drop foot R (grade 3-4 with gm_at contracture up to 90° dorsiflexion) and L (grade 5 with gm_at contracture up to 95° dorsi flexion); normal ap diameter/wide pubic arch 90°, ar pos, major bilateral atf/atl + pc_io_ilc_iscm loss, **empty pelvis**, euo/c 2 cm, rvf **healed** only at L side **no** pcf connection whatsoever, at R more or less "normal" euo/bw 13 cm, good elevation, euo/b 1.4 cm, i/v 12 cm

operation: pcf/avw/cervix fixation at L + repair of deficient perineal body

duration: 25 min (step-by-step teaching) healing 95% continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5% obesity +

gv/ **no** leakage but total intrinsic_stress incontinence normal-width euo in anat pos transverse incision at avw L, sharp dissection, excision of tissue covering pubic bone, fixation of pcf/avw/cervix onto paraurethra atf by 2x serafit, now euo/b 2.3 cm, **no** urine thru euo on rest/cough/pressure, foley ch 18; free urine flow, euo/bw 13 cm, good anter ior elevation, euo/b 2.3 cm (**urethralization_compression**) normal bladder capacity (longitudinal diameter 13-2.3 = 10.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm poor-quality urethra_euo in anatomic position since perineal body deficient, transverse incision pvw_skin junction, sharp dissection, repair of deficient perineal body with re-union of bulbocavernosus/transversus perinei muscles by 2x serafit, adaptation of pvw, check on hemostasis

pt 233 katsina mdg vvf 05 anterior trauma; would have healed by catheter				
s u d (katsin	a)	female	35 yr	20.07.11
surgeon:	dr idris halliru			
assistant:	gambo lawal			
diagnosis:	PXI (6 alive), retracted <u>+</u> 0.1 cm (midine, leaking urine for 58 da obstructed last labor for 1 day, a (menarche 2 mth later), <u>still</u> living foot R (grade 5) and L (grade 5), normal ap diameter/pubic arch 8 euo/f 3 cm, f/c 3 cm, i/v 14 cm	ays which sta t home sb fen g with husband no rvf, no yar	rted immediatel nale, married 22 d, no menstruation nkan gishiri, yes	ly following 2 yr ago pre on, no drop eclampsia;

operation: uvvf-repair

duration: 30 min healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision at fistula edge, sharp dissection, tension-free transverse fascia repair with transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, foley ch 18, transverse avw adap tation by 2x everting seralon, check on hemostasis free urine flow, euo/bw 16 cm, good anterior elevation, euo/b 2.8 cm

normal bladder capacity (longitudinal diameter 16-2.8 = 13 cm) good position of uv-junction **against** middle third of symphysis normal-width 3 cm good urethra_euo in anatomic position



RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 234	katsina mdg total circumferential trauma			cath 1372 rvf
a a m g (kat	sina)	female	17 yr	20.07.11
diagnosis:	PI (0 alive), \pm 4 cm 0 urethrovesic entail defect, leaking urine for 1 ing cs bco obstructed labor for 2 (menarche 6 mth earlier), not livin foot R (grade 3) and L (grade 3 gishiri, no eclampsia; normal ap c /flatus incontinence, cervix fixed euo/f 1 cm, f/c 1 cm	6 days which 2 days, sb ma ng with husba 3), necrotic	started immed ale, married 3 and, no menstru proximal pvw,	liately follow yr ago post uation, drop no yankan
20.07.11	foley ch 18 in situ since cs; free a elevation, euo/b 1 cm normal bladder capacity (longitud poor position of uv-junction agai normal-width 1 cm medium–qual probably it will not heal but since	dinal diamete nst caudad tl lity urethra_e	r 12-1 = 11 cm hird of symphy uo in anatomic	i) sis : position



pt 235 span t	katsina m oo wide; posterior trauma; crea	0	vound area su	vvf 8157 rface
h a b d (rép	niger)	female	54 yr	21.07.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PX (2 alive), cystocele_3° cerv stress incontinence, something c spontaneous following <u>third</u> labor yr ago post(menarche 1 yr earlier yr ago, no drop foot R (grade 5) gishiri, no eclampsia; normal ap 1.5 cm 0 decubitus ulcer anterior euo/c 7 cm never leaking urine no objective stress incontinence	oming out of v for 1 day, at h), <u>still</u> living wi and L (grade diameter/ wic r cervix narro	vagina for 30 yr f nome <u>live</u> male, th husband, me e 5), no vvf/rvf, le pubic arch 9 ow urethra_euo	that started married 40 enopause 7 no yankan 5°, ar pos,

euo/bw 18 cm, poor elevation, euo/b 1.8 cm, i/v 12 cm 150.0 cm

operation: cervix suspension at L

duration: 10 min (**step-by-step teaching**) healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

small avw incision avw ruga fold with transverse extension up to cervix, sharp dissection to create **real** wound area/surface, paravesical space free, fixation of cervix (with adher ent pc fascia) onto L superior pubic bone/pc_ilc_iom/atf/atl by 2x seralon, euo/b 1.8 cm, **no** urine thru euo on rest/cough/pressure, foley ch 18, check on hemostasis; free clear urine flow, euo/bw cm, good elastic anterior elevation at L, rotational descent at R and euo/b 1.8 cm (**re-urethralization**) good cervix fixation **increased** bladder capacity (longitudinal diameter 18-1.8 = 16 cm) acceptable position of uv-junction **against** middle/caudad third of symphysis

narrow normal-width 2 cm good-quality urethra_euo in anatomic position

RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 236 pt 237 pt	katsina severe surgical trauma; new iatrogenic fistula		vvf 8158 vvf 7461 rvf 1033/946	
r a g (adamawa)		female	23 yr	21.07.11

- surgeon: kees waaldijk
- assistant: jamila habibu
- diagnosis: PII (0 alive), **mutilated extensive** <u>+</u> 0.5 cm 0 urethrovesicovaginal fistula **IIAb** at L, leaking urine for 1 yr after stress incontinence operation 23.4.10 that started after incontinence operation (acquire) married 10 yr ago post (menarche 2 mth earlier), <u>still</u> with husband, normal menstruation, bila teral drop foot R (grade 5) and L (grade 5), no yankan gishiri, eclampsia yes delivery I; normal ap diame ter/**wide** pubic arch 90°, ar pos, bilateral pc_io_ilc_iscm + atf/atl loss + ssl trauma, "operated" 1x both (kalchingi_ti) though fully stool/flatus continence minimal anterior sphincter gap + dehis cent perineal body, actually, **nice healing** of **mutilated** sphincter ani euo/f 1.5 cm, f/c 1 cm, i/v 9 cm

operation: excision of mutilation tissue, uvvf-repair etc, sphincter ani repair etc

duration: 40 min (**step-by-step teaching**) healing **both** 90% continence u 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

excision of **mutilated** tissue, transverse incision thru repair scar, sharp dissection, excision of all **scar** tissue ++, bilateral (re)fixation of medium-quality pc fascia onto paraure thra_euo atf by 2x serafit with transverse fistula closure, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation foley ch 18, transverse avw/avw_cervix adaptation by 2x everting seralon; free urine flow, euo/bw 12 cm, good elevation, euo/b 1.7 cm normal bladder capacity (longitudinal diameter 12-1.7 = 10.5 cm) poor position of uv-junction **fixed against** caudad third of symphysis normal-width 1.5 cm medium-quality urethra_euo in anatomic position incision at anterior anus, minimal sharp dissection, end-to-end sphincter ani reconstruc tion by 2x serafit, perineal body repair with re-union of bulbocavernosus/transversus perinei muscles by 2x serafit, check on hemostasis, perineum well adapted



pt 237 pt 236 pt	katsina severe surgical trauma; new iatrogenic fistula		rvf 1033/946 vvf 8158 vvf 7461	
r a g (adamawa)		female	23 yr	21.07.11

- surgeon: kees waaldijk
- assistant: jamila habibu
- diagnosis: PII (0 alive), **mutilated extensive** <u>+</u> 0.5 cm 0 urethrovesicovaginal fistula **IIAb** at L, leaking urine for 1 yr after stress incontinence operation 23.4.10 that started after incontinence operation (acquire) married 10 yr ago post (menarche 2 mth earlier), <u>still</u> with husband, normal menstruation, bila teral drop foot R (grade 5) and L (grade 5), no yankan gishiri, eclampsia yes delivery I; normal ap diame ter/**wide** pubic arch 90°, ar pos, bilateral pc_io_ilc_iscm + atf/atl loss + ssl trauma, "operated" 1x both (kalchingi_ti) though fully stool/flatus continence minimal anterior sphincter gap + dehis cent perineal body, actually, **nice healing** of **mutilated** sphincter ani euo/f 1.5 cm, f/c 1 cm, i/v 9 cm

operation: excision of mutilation tissue, uvvf-repair etc, sphincter ani repair etc

duration: 40 min (**step-by-step teaching**) healing **both** 90% continence u 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

excision of **mutilated** tissue, transverse incision thru repair scar, sharp dissection, excision of all **scar** tissue ++, bilateral (re)fixation of medium-quality pc fascia onto paraure thra_euo atf by 2x serafit with transverse fistula closure, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation foley ch 18, transverse avw/avw_cervix adaptation by 2x everting seralon; free urine flow, euo/bw 12 cm, good elevation, euo/b 1.7 cm normal bladder capacity (longitudinal diameter 12-1.7 = 10.5 cm) poor position of uv-junction **fixed against** caudad third of symphysis normal-width 1.5 cm medium-quality urethra_euo in anatomic position incision at anterior anus, minimal sharp dissection, end-to-end sphincter ani reconstruc tion by 2x serafit, perineal body repair with re-union of bulbocavernosus/transversus perinei muscles by 2x serafit, check on hemostasis, perineum well adapted



pt 238	katsina n inoperable post IIA			159/718//3708 rvf
l b d-m (kats	ina)	female	40 yr	21.07.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	,			tanding/walking + ediately following arried 28 yr ago mal menstruation, w pubic arch 60°, d at "vault"
operation:	assessment of inoperable pos	t IIAb incontin	ence	final
duration:	10 min	healir	וg	continence
anesthesia:	spinal L4/L5 with 3 ml bupivaca	ine 0.5%		

euo/bw 12, good elevation, euo/b 2.1 cm, cervix fixed midline vault i/v 3 cm "normal-width 2 cm poor-quality urethra_euo in "anatomic" position, no bilateral connect ion of pc fascia onto paraurethra atf **everything "healed" but no function** since everything **fixed** there is nothing we can do

pt 239 pt	katsina mdg	vvf 8160/27	708/./5280 rvf 285
a r y-r (katsina)	female	31 yr	21.07.11

surgeon: kees waaldijk

assistant: kabir lawal

- diagnosis: PI, total post **IIBb** urine intrinsic_stress incontinence grade III, leaking urine whilst lying/sitting/standing/walking following multiple repairs 11.5.94 to 16.10.01, leaking urine for 17 yr which started immediately following obstructed labor for 2 days, in hospital SB male, married 19 yr ago pre(menarche 6 mth later), <u>still</u> living with husband, no menstruation, drop foot R (grade 4-5) and L (grade 4-5); when seen 22/3-94 at 16-day duration poor general condition; **major** bilateral atf/atl + pc_io_ilc_iscm loss + ssl_pm trauma, cervix not identified, vault fixed, **no** bilateral connec tion pcf onto paraurethra atf, **empty pelvis** good perineal body euo/bw 13 cm, good elevation, euo/b 2.5 cm, i/v 7 cm 149.0 cm
- operation: paraurethra pcf/avw fixation, urethra rhaphy + para-euo fixation
- duration: 40 min healing 85% continence 60%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

gv/ no leakage but total urine intrinsic incontinence

bilateral transverse avw incision, sharp dissection, excision of tissue covering pubic bones, bilateral fixation of pcf/avw onto paraurethra atf by 2x seralon each side, still urine + from euo on cough, u incision at euo, sharp dissection, urethra rhaphy over 2 cm distal urethra using paraurethra tissue, still urine thru euo on cough, bilateral fixation of paraurethra tissue/avw onto par-euo symphysis by 1x seralon each side, **no** urine thru suture line/euo on rest/cough/pressure, foley ch 18; free urine flow, euo/bw 14 cm, good anterior elevation, euo/b 2.8 cm **last resort** but it may work normal bladder capacity (longitudinal diameter 14-2.8 = 11 cm) good position of uv-junction **against** middle third of symphysis normal-width 3 cm good-quality urethra_euo in anatomic position the **problem: continuous traction/pull onto posterior urethra by fixed vault though now a bit neutralized**

pt 240 add	katsina m itional fixation at R; this is acco	0	ster plan	vvf 8161/7992 ; ok at L
h h y (rép niợ	ger)	female	16 yr	29.01.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PI (alive), R cervix 2° prolapse/cystocele at R whilst L side nicely healed (as "ligament" like anticipated) and more or less in anatomic position following cervix suspension at L 29.01.11, not living with husband, normal menstruation, normal ap diameter/wide pubic arch 90°, ar pos, no decubi tus ulcer cervix euo/c 7 cm only leaking urine with full bladder now objective stress incontinence + euo/bw 18 cm, poor elevation, euo/b 1.5 cm, i/v 11 cm 150.0 cm			anatomic position husband, normal ar pos, no decubi
operation:	cervix suspension at R as secon	id stage acc	ording to	o master plan
duration:	10 min (step-by-step teaching)	heali	ng 95%	continence 95%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	าe 0.5%		

small avw incision R within/parallel to uga folds with transverse extension up to cervix, sharp dissection to create wound area surface, paravesical space free, fixation of cervix (with adherent pc fascia) onto levator ani fascia by 2x seralon sutures thru R superior pubic bone periost/pc_ilc_iom/atf/at, euo/b 2.8 cm, **no** urine thru euo on rest/cough/ pressure, foley ch 18, check on hemostasis; free clear urine flow, euo/bw 18 cm, good elastic anterior elevation **both** sides, euo/b 2.8 cm (**re-urethralization**) **increased** bladder capacity (longitudinal diameter 18-2.8 = 15 cm) good position of uv-junction **against** middle third of symphysis good cervix fixation normal-width 3 cm good-quality urethra_euo in anatomic position

if incontinence (no complaint) persists then for longitudinal fascia repair

pt 241 katsina mdg vvf 8162/8013 additional fixation at R; this is according to master plan; ok at L delivered 3 live infants with prolapse for 12 yr; as well wishes more children

r s d (rèp niger)

female 27 yr 22.07.11

surgeon: kees waaldijk

assistant: kabir lawal

diagnosis: PVI (4 alive), R cervix 2° prolapse/cystocele at R whilst L side nicely healed (as "ligament" like anticipated) and more or less in anatomic position following cervix suspension at L 5.2.11, still living with husband, normal menstruation; normal ap diameter/wide pubic arch 95°, ar pos, no decubitus ulcer cervix euo/c79 cm never leaking urine narrow urethra_euo in anat pos no objective stress incontinence (also not after reduction) euo/bw 19 cm, poor elevation, euo/b 1.1 cm, i/v 12 cm

operation: cervix suspension at R as second stage according to master plan

duration: 10 min (**step-by-step teaching**) healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

small avw incision R within/parallel to uga folds with transverse extension up to cervix, sharp dissection to create wound area surface, paravesical space free, fixation of cervix (with adherent pc fascia) onto levator ani fascia by 2x seralon sutures thru R superior pubic bone periost/pc_ilc_iom/atf/at, euo/b 2.3 cm, **no** urine thru euo on rest/cough/ pressure, foley ch 18, check on hemostasis; free clear urine flow, euo/bw 18 cm, good elastic anterior elevation **both** sides, euo/b 2.3 cm (**re-urethralization**) **increased** bladder capacity (longitudinal diameter 18-2.3 = 15.5 cm) good position of uv-junction **against** middle third of symphysis good cervix fixation normal-width 2.5 cm good-quality urethra_euo in anatomic position

pt 242 zaria vvf 514 total circumferential trauma; from now on even better pcf fixation to atf in order to fill up paravesical space better to prevent upward/anterior pull/traction by bladder onto posterior urethra

e t k (kaduna)

female 16 yr 23.07.11

- surgeon: kees waaldijk
- assistant: kabir lawal
- diagnosis: PI (0 alive), <u>+</u> 3 cm 0 urethrovesicovaginal fistula type **IIAb** with circumfer ential defect fixed onto cephalad symphysis, **leaking urine for 52 days** which started immediately following cs kachia bco obstructed labor for 2 days in hospital, sb male, married 2 yr ago post(menarche 1 yr earlier), not living with husband, no menstruation, drop foot R (grade 3) and L (grade 3-4), no rvf, no yankan gishiri, no eclampsia; normal ap diameter/ pubic arch 85°, ar pos, bilateral atf/atl + pc_ilc_iscm loss, cervix fixed mid line, proximal lpl stricture euo/f 2.5 cm, f/c 0.5 cm, ab/au 1 cm, i/v 10 cm
- operation: circumferential uvvf-repair + bilateral pcf refixation

duration: 40 min

healing 85% continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

small episiotomy L, transverse incision thru/at fistula edge, sharp circumferential dissec tion, advancement/caudad fixation of anterior bladder onto symphysis/urethra, **under some tension** circumferential uvvf-repair by end-to-end vesicourethrostomy by single layer of inverting serafit, bilateral fixation pc fascia to paraurethra_euo atf/symphysis by 2x serafit each side, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 2.0 cm normal bladder capacity (longitudinal diameter 11-2.0 = 9 cm) acceptable position of uv-junction **fixed against** middle/caudad third of symphysis "normal-width" 2 cm g ood-quality urethra_euo in anatomic position the **problem: continuous traction/pull by fixed cervix**



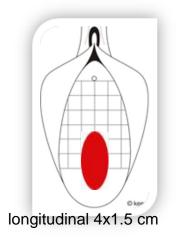
pt 243 a r	zaria hterior/iatrogenic trauma; ?rupt	ured uterus	?/?hemoı	vvf 515 rhage?
m i t (nasara	iwa)	female	41 yr	23.07.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	diagnosis: PX (4 alive), ragged <u>+</u> 4x1.5 cm longitudinal urethrovesicovaginal fistulat type IIAa midline, leaking urine of 4 mth that started immediately following laparotomy (toto hospital) same day after vaginal delivery for 1 day of sta female, married 26 yr ago post(menarche 2 yr earlier), <u>still</u> living with husband, no menstruation, no h/o drop foot R (grade 5) and L (grade 5) no rvf,no yankan gishiri, no h/o eclampsia; normal ap diameter/public arch 85°, ar pos, post cervix fixed midline, obesity + euo/f 3.5 cm, f/"c"v 0 cm, i/v 11 cm cm			nediately following ery for 1 day of sb r), <u>still</u> living with) and L (grade 5), p diameter/pubic
operation:	complicated tah-uvvf-repair			
duration:	40 min	hea	ling 90%	continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

small episiotomy L, incision at fistula edge, sharp dissection, tension-free <u>longitudinal</u> bladder_urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, longitudinal avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.4 cm

normal bladder capacity (longitudinal diameter 12-2.4 = 9.5)

good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position



zaria anterior/iatrogenic trauma

z h i (kaduna)

female 37 yr

surgeon: kees waaldijk

assistant: kabir lawal

- diagnosis: PXI (7 alive), minute < 0.1 cm (<u>+</u> 1.5 cm) 0 sth-cs-vesicocervicovaginal fistula type I at midline, leaking urine for 4 mth which started immediately following supracervical hysterectomy_cs (cervix + canal intact) bco last ob structed labor for 1 days, sb male, married 24 yr ago pre(menarche 4 mth later), <u>still</u> living with husband, no menstruation, drop foot R (grade 4) and L (grade 4), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diame ter/pubic arch 85°, cervix "fixed" midline **+ normal miction** euo/f 8 cm, f/c 0 cm, i/v 12 cm obesity +
- operation: sth-cs-vvf-repair

duration: 25 min

healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

fistula demonstrated by gv, transverse incision thru fistula/cervix, sharp dissection, excision of scar tissue ++, now fistula 1.5 cm 0, tension-free <u>longitudinal</u> bladder closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, <u>transverse</u> avw/cervix adaptation by 2x everting seralon, hemostasis check; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.5 cm normal bladder capacity (longitudinal diameter 12-2.5 = 9.5 cm good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 245 zaria vvf 517 anteriobilateral trauma; what ?obstetric care?				
z a a b (kadı	una)	female	23 yr	23.07.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	liagnosis: PVII (2 alive), <u>+</u> 0.5 cm 0 urethrovesicovaginal fistula type IIAa slightly at R with b characteristics fixed to symphysis within 6x1 cm pcf trauma, leaking urine for 58 days which started immediately following cs bco obstructed last labor for 4 days (1 day at home, 1 day at herbalist hospital eclampsia, 1 day general hospital head out/no doctor, 1 day priv clin cs), sb female, married 9 yr ago pre(menarche 5 mth later), <u>still</u> living with husband, no menstruation, drop foot R (grade 2) and L (grade 4), no rvf, no yankan gishiri, eclamp sia yes; normal ap diameter/wide pubic arch 90°, ar pos, bilateral atf/atl + pc_ilc_iscm trauma, cervix "mobile", euo/f 3 cm, f/c 3 cm, ab/au xx cm, i/v 12 cm			
operation:	uvvf-repair + transverse pcf repa	iir/bilateral ref	ixation	
duration:	20 min	healir	ng 85% contine	ence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

debridement $\underline{+}$, large transverse incision at fistula edge, sharp dissection, tension-free transverse fascia repair/bilateral fixation onto paraurethra_euo atf/symphysis by 2x serafit each side with fistula closure in the process. **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x evert ing seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.7 cm

normal bladder capacity (longitudinal diameter 12-2.7 = 9.5 cm) good position of uv-junction **fixed against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position



surgeon: kees waaldijk

assistant: kabir lawal

diagnosis: PI (0 alive) <u>+</u> 0.8 cm 0 urethrovesicovaginal fistula type **IIAa** at midline within 4x1 cm transverse pcf defect/avw trauma, **leaking urine for 60 cdays** which started immediately following cs bco obstructed labor for 4 days (1 day gida eclampsia, 1 day gen hosp, 1 day priv hosp, cs 4th day), sb female, married 2 yr ago pre(menarche 1 mth later), <u>still</u> living with husband, no menstruation, drop foot R (grade 4) and L (grade 4), no rvf, no yankan gi shiri, eclampsia yes; normal ap diameter/pubic arch 85°, ar pos, cervix fixed midline **wide open** euo pulled post inside euo/f 2 cm, f/c 4 cm, i/v 12 cm cm

operation: uvvf-repair + transverse fascia repair/bilateral para-euo fixation

duration: 25 min

healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

small episiotomy L, transverse incision thru fistula/avw_pcf trauma, sharp dissection, tension-free transverse pc fascia repair with bilateral fixation onto para-euo atf with nor malization of euo and fistula closure in the process by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, trans verse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.8 cm normal bladder capacity (longitudinal diameter 12-1.8 = 10 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



pt 247 ante		ia trauma	
f b r f d z city	,	female	16 yr
diagnosis:	PI (0 alive), <u>+</u> 4 cm 0 " necrotic ne for 5 days which started 5 home sb male, married 2 yr ag	days following o	bstructed labor

home sb male, married 2 yr ago post(menarche 10 mth earlier), <u>still</u> living with husband, no menstruation, no drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no eclampsia; normal ap diameter/pubic arch 85°, ar pos euo/f 1 cm, f/c 1 cm

18.07.11 foley ch 18; free urine flow, euo/bw 14 cm, good anterior elevation and euo/b 1 cm normal bladder capacity (longitudinal diameter 14-1 = 13 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 1 cm medium–quality urethra_euo in anatomic position

24.07.11 not leaking at all insp/ minute fistula at distal tip **healing** avw this will heal by catheter now 16 days post partum



18.07.11

leaking uri for 1 day, at

zaria anterior trauma

u a f (kaduna)	female	17 yr	23.07.11
		,	

- diagnosis: PII (1 alive), <u>+</u> 1 cm 0 urethrovesicovaginal fistula type **IIA** midline, **leak ing urine for 40 days** which started immediately following sth-cs bco last obstructed labor for 4 days (3 days gida, 1 day hosp, next day cs), sb female, married 4 yr ago post(menarche 2 mth ear lier), not living with husband, no menstruation, drop foot R (grade 2) and L (grade 2), no rvf, no yankan gishiri, eclampsia yes; normal ap diameter/ pubic arch 85°, ar pos, cervix fixed, cannot stand/walk euo/f 2 cm, f/c 4 cm
- 23.07.11 foley ch 18; free urine flow, euo/bw 10 cm, good anterior elevation and euo/b 1.5 cm normal bladder capacity (longitudinal diameter 10-1.5 = 8.5 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 1.5 cm good–quality urethra_euo in anatomic position
- 24.07.11 draining via catheter/legs **mobilize patient by all means** there is still slight chance of healing



pt 249	kano anterior trau	ıma		cath 931
z a s (katsina)	1	female	23 yr	12.09.11
ן א <u>א</u> (PIII (all alive), overflow-intrinsic/stress incontinence grade III, leaking uri ne whilst lying/sitting/standing/walking + normal miction for 12 days which started 2 days following obstructed last labor for 4 hours, in nospital daura <u>live</u> female, married 7 yr ago post(menarche 3 yr earlier), <u>still</u> living with husband, no menstruation, no drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no eclampsia; normal ap diameter/ wide pubic arch 90°, ar pos objective stress ++			

12.09.11 avw bulging, no suprapubic mass, foley ch 18; free urine flow, euo/bw 13 cm, poor anterior elevation, euo/b 1 cm (**vesicalization**) normal bladder capacity (longitudinal diameter 13-1 = 12 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 1 cm good-quality urethrfa_euo in anatomic position

157 cm

no visible avw trauma

h s t w (kano city)	female	15 vr	12.09.11
	Torritato	10 51	12.00.11

- diagnosis: PI (0 alive), overflow_intrinsic/stress incontinence grade III, **leaking urine whilst lying/standing/walking + no spontaneous miction for 15 days** which started immediately following obstructed labor for 2 days, in mmsh hospital sb male, married 2 yr ago post(menarche 2 mth earlier), not living with husband, no menstruation, no drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri; normal ap diameter/pubic arch 85°, ar pos avw bulging **objective** stress **+++** obesity **+** 150 cm
- 12.09.11 small suprapubic mass, avw bulging and bladder overdistended (euo/bw 17 cm), poor elevation after draining < 750 ml urine, euo/b 1 cm foley ch 18, free urine flow increased bladder capacity (longitudinal diameter 17-1 = 16 cm, atonic bladder) poor position of UV-junction against caudad third of symphysis

normal-width 1 cm good-quality urethra_euo in anatomic position

pt 251	
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kano anterior trauma

b m f_k (kano city)	female	14 yr	04.09.11
			• • • • • • • •

- diagnosis: PI (0 alive), total instrinsic_stress incontinence grade III, **leaking urine** whilst lying/sitting/standing/walking + no spontaneous miction for 8 days which started immediately following obstructed labor for 1 day, in hospital mmsh sb female, married 1 yr ago pre(menarche 5 mth later), not living with husband, no menstruation, no drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, eclampsia yes; normal ap diameter/ pubic arch 85°, ar pos **objective** stress ++ traumatized euo 154 cm
- 04.09.11 foley ch 18; free urine flow, euo/bw 12 cm, good anterior elevation and euo/b 1.5 cm normal bladder capacity (longitudinal diameter 12-1.5 = 10.5 cm) poor position of uv-junction **against** caudad third of symphysis traumatized 1.5 cm poor–quality urethra_euo drawn inside

pt 252	kano r anterior t	0		vvf 4655 cath 934
s h g (bauch	ii)	female	15 yr	12.09.11
surgeon:	kees waaldijk			
assistant:	binta musa			
diagnosis:	PI (0 alive), total urine intrinsic_stress incontinence grade III, leaking urine whilst lying/sitting/standing/walking + spontaneous miction for 5 mth which started immediately following obstructed labor for 1 day, in hospital misau sb female, married 1.5 yr ago post(menarche 1 yr earlier), <u>still</u> living with husband, normal menstruation, no (h/o) drop foot R (grade 5) and L			

euo/bw 16 cm, poor elevation, euo/b 1.3 cm, i/v 12 cm

(grade 5), no rvf, no yankan gishiri, eclampsia yes; normal ap diameter/

obesity +

healing 95% continence 95%

158 cm

wide open urethra euo drawn posteriorly inside

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

euo/c 6 cm

30 min

operation:

duration:

wide pubic arch 90°, ar pos, cervix mobile

longitudinal bladder repair + urethralization

intrinsic incontinence ++ **no** gv check but should have checked since **inflammation** ++ transverse curved incision at 2 cm from euo within/parallel to ruga folds, sharp dissec tion whereby bladder traumatized (or still bladder defect with minute fistula as "healed" by catheter), 5x2 cm median longitudinal fascia defect from cervix up to 2 cm to euo, longitudinal repair/rhaphy of **indurated inflamed** pc fascia at 1-6 cm from euo with longi tudinal bladder closure by serafit, now euo/b 3.1 cm, **no** urine thru euo on rest/cough/ pressure, triple fixation of foley ch 18, transverse avw_pcf/symphysis_avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 15 cm, good anter ior elevation, euo/b 3.1 cm (**urethralization_compression**) normal bladder capacity (longitudinal diameter 15-3.1 = 12 cm) good position UV-junction **against** middle third symphysis good fascia plate good-quality pcm normal-width 3 cm good-quality urethra_euo in anatomic position

pt 253	kano mdg		vvf 4666	
anterior trauma; genuine incontinence; median pc fascia defect				
s i d (kano)	female	24 yr	12.09.11	

surgeon: kees waaldijk

assistant: hafsat ibrahim

diagnosis: PV (3 alive), urine intrinsic_stress incontinence grade II-III, leaking urine whilst sitting/standing/walking + normal miction but not whilst lying for 8 mth which started 2 days following obstructed last labor of 1 day, at home <u>live</u> male, married 11 yr ago post(menarche 1 mth earlier), <u>still</u> living with husband, normal menstruation, no (h/o) drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter /pubic arch 85°, ar pos, cervix mobile no improvement by bladder drill euo/c 7 cm **objective** stress ++ normal-width urethra_euo in anat pos euo/bw 15 cm, poor elevation, euo/b 1.6 cm, i/v 12 cm 171 cm

operation: urethralization by longitudinal fascia repair

duration: 20 min (**step.by-.step teaching**) healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse curved incision at 2 cm from euo within/parallel to ruga folds, sharp dissec tion, 6x2 cm median longitudinal fascia defect from cervix to 1 cm to euo, <u>longitudinal</u> repair/rhaphy of pc fascia at 1-6 cm from euo by serafit, now euo/b 2.0 cm, **no** urine thru euo on rest/cough/pressure, fixation of fascia onto bilateral paraurethra_euo atf intact, triple fixation of foley ch 18, transverse avw_pcf/symphysis_avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 15 cm, good elastic anterior elevation, euo/b 2.5 cm (**urethralization_compression**) normal bladder capacity (longitudinal diameter 15-2.0 = 13 cm) acceptable position UV-junction **against** middle/caudad third symphysis good fascia plate good-quality pcm normal-width 2 cm good-quality urethra_euo in anatomic position

pt 254	kan anterior trauma; seco	-	mdg ric fistula	vvf 058
r h s s a (kar	no city)	female	e 24 yr	12.09.11
surgeon:	dr idris Suleiman abubakar			
assistant:	aisha shehu adamu			
diagnosis:	PV (3 alive), <u>+</u> 2 cm 0 urethro leaking urine for 42 days which last labor for 2 days, at home slim th later), <u>still</u> living with husba and L (grade 4), no rvf, no yank ter/pubic arch 85°, ar pos, ce (mmsh_kees) euo/f 3 cm, f/c 3 cm, i/v 11 cm	ch started in b male, ma and, no men an gishiri, ervix mobil	mmediately fol arried 11 yr ago nstruation, dro no eclampsia;	llowing obstructed o pre(menarche 3 op foot R (grade 4) normal ap diame
operation:	uvvf-repair			
duration:	45 min		healing 90%	continence 80%

episiotomy L, incision at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 3x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 16 cm, good anterior elevation, euo/b 3 cm

normal bladder capacity (longitudinal diameter 16-3 = 13 cm) good position of uv-junction **against** middle third of symphysis normal-width 3 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 130/80 mm Hg 5': 120/70 10': 110/70 postoperation: 110/70

pt 255	anter	kano ior trauma	mdg	vvf 059
r i I-a (kano d	city)	female	44 yr	12.09.11
surgeon:	dr amir imam yola			
assistant:	aisha shehu			
diagnosis:	PXIV (9 alive), <u>+</u> 1 cm 0 ur leaking urine for 30 day removal 5 days) following of sb male, married 31 yr ago band, no menstruation, no no yankan gishiri, no eclar pos, cervix mobile euo/f 3 cm, f/c 3 cm, i/v 8 d	/s which started imposstructed last labor for pre(menarche 1 mthodrop foot R (grade started in the presia; normal ap dia	mediately (upor for 3 days, in hos n later), <u>still</u> livin 5) and L (grade	n catheter spital gaya g with hus 5), no rvf,
operation:	uvvf-repair			

duration: 25 min healing 90% continence 75%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

incision at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line but still **+** thru euo on cough, foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 19 cm, good anterior elevation, euo/b 2.2 cm

increased bladder capacity (longitudinal diameter 19-2.2 = 17 cm) good position of uv-junction **against** middle third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 160/90 mm Hg 5': 140/90 10': 130/80 postoperation: 130/80

pt 256 pt 257	kano mdg vv total circumferential trauma			vvf 4657 rvf 768
m s g (kano	city)	female	17 yr	13.09.11
surgeon:	kees waaldijk			
assistant:	binta musa			
diagnosis:	tial defect type IIBb , m leaking urine/passing following obstructed lat married 3 yr ago post(m mal menstruation, drop gishiri, eclampsia yes; bilateral atf/atl + pc_ilc_ _ka), moderate stenos	m 0 urethrovesicovagin nutilated <u>+</u> 0.5 cm rectors stools pv for 10 mth w bor for 4 days, in hospita nenarche 1 yr earlier), no p foot R (grade 3-4) and normal ap diameter/wic _iscm loss, cervix mobile is/shortening ab/au 0.2 cm, a/f 3 cm,	ovaginal fistula t hich started imr al (1 day) minjibir ot living with hus L (grade 3-4), n le pubic arch 90 a, rvf-repair 13.4.4	type IIAa , mediately sb male, band, nor o yankan °, ar pos,
operation:	circumferential uvvf-rep	pair + bilateral pcf refixa	tion + rvf-repair	
duration:	60 min	healing u_ s 95 _80%	continence u_s	\$ 75_ 95%
anesthesia:	spinal L4/L5 with 3 ml	bupivacaine 0.5%		

re-episiotomy L, transverse incision thru/at fistula edge, sharp 4/5 circumferential dis section, tension-free 4/5 circumferential uvvf-repair by end-to-end vesicourethrostomy by single layer of inverting serafit, bilateral fixation of pc fascia onto paraurethra_euo atf/symphysis by 2x serafit each side, **no** urine thru suture line/euo on rest/cough/pres sure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon,; free urine flow, euo/bw 10 cm, good anterior elevation, euo/b 1.1 cm normal bladder capacity (longitudinal diameter 10-1.1 = 9 cm) poor position of uv-junction **fixed against** caudad third of symphysis normal-width 1 cm medium-quality urethra_euo in anatomic position incision at rvf edge, sharp dissection, 1.5 cm 0 rectum defect, friable poor-quality rec tum tissue, **complicated** tension-free longitudinal rectum closure by double layer of in verting interrupted/continuous serafit, no pvw left, check on hemostasis, skin closure



RR preanesthesia: 130/80 mm Hg 5': 120/70 10': 110/70 postoperation: 110/60

pt 257 pt 256	5			rvf 768 vvf 4657
m s g (kano	city)	female	17 yr	13.09.11
surgeon:	kees waaldijk			
assistant:	binta musa			
diagnosis:	tial defect type IIBb , m leaking urine/passing following obstructed lat married 3 yr ago post(m mal menstruation, drop gishiri, eclampsia yes; bilateral atf/atl + pc_ilc_ _ka), moderate stenos	m 0 urethrovesicovagin nutilated <u>+</u> 0.5 cm rectors stools pv for 10 mth w bor for 4 days, in hospita nenarche 1 yr earlier), no o foot R (grade 3-4) and normal ap diameter/wic _iscm loss, cervix mobile is/shortening ab/au 0.2 cm, a/f 3 cm,	ovaginal fistula t hich started imr al (1 day) minjibir ot living with hus L (grade 3-4), n de pubic arch 90 e, rvf-repair 13.4.7	type IIAa , mediately sb male, band, nor o yankan °, ar pos,
operation:	circumferential uvvf-rep	pair + bilateral pcf refixa	tion + rvf-repair	
duration:	60 min	healing u_ s 95 _80%	continence u_ s	s 75 _95%
anesthesia:	spinal L4/L5 with 3 ml	bupivacaine 0.5%		

re-episiotomy L, transverse incision thru/at fistula edge, sharp 4/5 circumferential dis section, tension-free 4/5 circumferential uvvf-repair by end-to-end vesicourethrostomy by single layer of inverting serafit, bilateral fixation of pc fascia onto paraurethra_euo atf/symphysis by 2x serafit each side, **no** urine thru suture line/euo on rest/cough/pres sure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon,; free urine flow, euo/bw 10 cm, good anterior elevation, euo/b 1.1 cm normal bladder capacity (longitudinal diameter 10-1.1 = 9 cm) poor position of uv-junction **fixed against** caudad third of symphysis normal-width 1 cm medium-quality urethra_euo in anatomic position incision at rvf edge, sharp dissection, 1.5 cm 0 rectum defect, friable poor-quality rec tum tissue, **complicated** tension-free longitudinal rectum closure by double layer of in verting interrupted/continuous serafit, no pvw left, check on hemostasis, skin closure



RR preanesthesia: 130/80 mm Hg 5': 120/70 10': 110/70 postoperation: 110/60

pt 258	kano mdg
	anteriolateral L trauma
	fistula overlooked at first visit/catheter

b u t (kano)

female 30 yr

- surgeon: kees waaldijk
- assistant: binta musa
- diagnosis: PIX (5 alive), **strange** <u>+</u> 0.5 cm 0 urethrovesicovaginal fistula extremely L type **IIAa** within 5x1 cm transverse avw/pcf trauma midline/L, leaking urine for 4.5 mth which started immediately following obstructed last labor for 3 days (2 at home), in hospital bichi sb male, married 17 yr ago pre (menarche 4 mth later), <u>still</u> living at husband, no menstruation, drop foot R (grade 4) and L (grade 4), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos R+L, **no** saddle anesthesia, anus closed, **no** flatus incontinence, atf/atl + pc_ilcm loss at L euo/f 4 cm, f/c 2 cm, i/v 12 cm midline fistula **healed** 154 cm
- operation:highly complicated uvvf-repaircervix mobileduration:25 minhealing 85% continence 90%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru/at fistula edge, sharp dissection, **complicated** tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 3x (for proper hemostasis) everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, anterior elevation, euo/b 1.9 cm normal bladder capacity (longitudinal diameter 12-1.9 = 10 cm) acceptable position of uv-junction **against** middle/cauidad third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position **still** transverse pcf defect if incontinence then for pcf repair/fixation



pt 259	pt 259 kano mdg vvf 4659 total extensive circumferential trauma				
y u w (kano o	city)	female	14 yr	13.09.11	
surgeon:	kees waaldijk				
assistant:	binta musa				
diagnosis:	ential defect, leaking urine for 78 days which started immediately aft cs mmsh bco obstructed labor for 3 days, sb female, married 1 yr ag post(menarche 3 mth earlier), not living with husband, no menstruatio drop foot R (grade 5) and L (grade 2-3), healed proximal midline 1 o pvw (never tusa pv), no rvf, no yankan gishiri, eclampsia yes; normal diameter/wide pubic arch 90°, ar pos, bilateral atf/atl + pc_ilc_iscm loss ssl_pm trauma, cervix fixed/retracted, lpl stricture, moderate stenosis		iately after d 1 yr ago nstruation, dline 1 cm normal ap scm loss +		
operation:	4/5 circumferential uvvf-repair +	bilateral pcf r	efixation		
duration:	50 min	heali	ing 85% contine	ence 95%	
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%			

episiotomy L with severing of stricture, transverse incision thru/at fistula edge, sharp 4/5 circumferential dissection, tension-free 4/5 circumferential uvvf-repair by end-to-end vesicourethrostomy by single layer of inverting serafit, exactly now **heavy stool conta mination spoils it**, bilateral fixation of pc fascia onto paraurethra_euo atf/symphysis by 2x serafit each side, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemotasis, skin closure; free urine flow, euo/bw 15 cm, good anterior elevation, euo/b 3.1 cm normal bladder capacity (longitudinal diameter 15-3.1 = 12 cm) good position of uv-junction **fixed against** middle third of symphysis normal-width 3 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 130/80 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 260	•	kano ateral trauma	mdg	vvf 060
z a k d (kand))	female	43 yr	13.09.11
surgeon:	dr idris suleiman abubakar			
assistant:	aisha shehu			
diagnosis:	PII (0 alive), multiple 3 minutiat R type IIAb , leaking urine last obstructed labor for 4 da (menarche 3 mth later), <u>sti</u> bilateral drop foot for 3 mth gishiri, eclampsia yes; norm fixed. moderate vagina sho teral atf/atl + pc_ilc_iscm lo euo/f 2 cm, f/c 4 cm, i/v 6 c	e for 15 yr which sta ays, in hospital sb ill living with husba R (grade 5) and L (nal ap diameter/pu rtening/stenlosis, o ss	arted imm male, ma and, norn grade 5), bic arch 8	ediately following rried 30 yr ago pre nal menstruation, no rvf, no yankan 35°, ar pos, cervix
operation:	uvvf-repair			
duration:	30 min	heal	ing 90%	continence 90%

episiotomy R, incision at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anter ior elevation, euo/b 2 cm

normal bladder capacity (longitudinal diameter 12-2 = 10 cm)

acceptable position of uv-junction **against** middle/caudad third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 130/90 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 261	kano anteriobilatera	l trauma	mdg	vvf 061
k g z g (kand	o city)	female	54 yr	13.09.11
surgeon:	dr idris suleiman abubakar			
assistant:	aisha shehu			
diagnosis:	PXII (5 alive), <u>+</u> 3 cm 0 urethrow ential defect type IIAb , leaking u following obstructed last labor for ago pre(menarche 1 yr later), <u>sti</u> ago, bilateral drop foot for 2 mth yankan gishiri, no h/o eclampsia	rine for 12 y r 2 days, at h II living with R (grade 5)	r which starte ome sb male husband, me and L (grade	d immediately , married 42 yr eno pause 6 yr e 5), no rvf, no

operation: uvvf-repair

duration: 45 min healing 90% continence 80%

pos, cervix mobile, bilateral atf/atl + pc ilc iscm ,loss

euo/f 2 cm, f/c 3 cm, ab/au 1 cm, i/v 7 cm

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

episiotomy R, incision at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, foley ch 18, transverse avw adaptation by 3x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 9 cm, good anterior elevation, euo/b 2 cm

normal bladder capacity (longitudinal diameter 9-2 = 7 cm)

acceptable position of uv-junction **against** middle/caudad third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 170/100 mm Hg 5': 160/100 10': 150/100 postoperation: 150/100

152 cm

pt 262		ano or trauma		mdg	vvf 062
a n b-b (kand)	female	15 yr	1	3.09.11
surgeon:	dr amir imam yola				
assistant:	aisha shehu				
diagnosis:	PI, <u>+</u> 1 cm 0 urethrovesicov for 5 mth which started imme in hospital bichi sb female, not living with husband, no (grade), no rvf, no yankan pubic arch 85°, ar pos, cerv euo/f 3 cm, f/c 3 cm, i/v 10	ediately follow married 3 yr a o menstruatio gishiri, eclam vix mobile	ing obstructe go pre(mena n, drop foot	d labor fo irche 2 mi R (grade	r 3 days, th later), e) and L
operation:	uvvf-repair				
duration:	25 min	ł	nealing 90%	continer	רce 85%

transverse incision thru/at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, foley ch 18, transverse avw adaptation by 2x everting seralon, check hemostasis; free urine flow, euo/bw 15 cm, good anterior elevation, euo/b 2 cm normal bladder capacity (longitudinal diameter 15-2 = 13 cm) acceptable position of uv-junction **against** middle/caudad third of symphysis

normal-width 2 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 120/70 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70 pt 263 kano vvf 4660/774/897 long-standing post IIAb repair; visible transverse pcf gap distal lengthening just by uniting labia with euo appearing as fistula

u s g (kano)

female 42 yr 14.09.11

- surgeon: kees waaldijk
- assistant: binta musa
- diagnosis: PV (1 alive), post **IIAb** total urine intrinsic_stress incontinence grade III, leaking urine whilst lying/sitting/standing/walking + no spontaneous mic tion for 17 yr which started immediately following obstructed <u>4th</u> labor for 2 days, in hospital sb male, married 29 yr ago pre(menarche), <u>still</u> living with husband, normal menstruation, drop foot R (grade 5) and L (grade 4), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/wide pubic arch 95°, ar pos, cervix mobile; after repairs she delivered 1x, sb female at home, and had distal lengthening "urethroplasty" (zaria_abu), major bilateral atf/atl + pc_io_ilc_iscm loss (**empty** pelvis) euo/c 2 cm (after severing neourethra) **"open"** urethra_euo in anat pos euo/bw 10 cm, poor elevation, euo/b 0.6 cm, i/v 11 cm
- operation: paraurethra_euo fixation of pc fascia_??ff graft??

duration: 25 min

healing 95% continence 75%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

euo looks like fistula, after severing neourethra euo looks "normal" gv: no leakage small epi L, transverse incision at 2 cm from euo thru repair scar, sharp dissection, it looks like ff graft has been performed (not by me), bilateral distal fixation of poor–quality proximal pc fascia/ff graft onto paraurethra_euo atf by 3x serafit each side with urethra_ euo stabilization and fascia tightening, now euo/b 2.3 cm, **no** urine thru euo on rest/ cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, tightening of perineal body by 1x serafit, episiotomy closure, check on hemo stasis; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 3.2 cm (**urethra lization_compression**) **no** longer visible pcf gap; paravesical spaces better normal bladder capacity (longitudinal diameter 11-2.3 = 8.5 cm) good position of uv-junction **against** third of symphysis

medium-quality fascia plate poor-quality pcm the **problem: long-standing** normal-width 2.5 cm medium-quality urethra_euo in anatomic position

pt 264	kano	vvf 4661
	anteriobilateral + severe surgical trauma	

h a t g (kano)

female 30 yr

surgeon: kees waaldijk

assistant: binta musa

diagnosis: PIII (1 alive), **mutilated** <u>+</u> 4x1 cm urethrovesicovaginal fistula type **IIBb** with circumferential defect, leaking urine for 15 yr which started immedia tely following forceps delivery gwarzo bco obstructed <u>first</u> labor for 2 days, sb male, married 17 yr ago pre(menarche 3 mth later), <u>still</u> living with husband, normal menstruation, bilateral drop foot for 2 mth R (grade 5) and L (grade 5), no rvf, no yankan gishiri, eclampsia yes; normal ap dia meter/pubic arch 85°, ar pos, cervix fixed, operated 3x (m/fashi 2x + ka_mmsh 27.1.09), bilateral atf/atl + pc_ilc_iscm loss R > L euo/f 0 cm, f/c 2 cm, i/v 0.5 cm, i/v 10 cm cervix fixed midline 150 cm

operation: L ureter catheterization/complicated urethra/fascia/avw "reconstruction"

duration: 45 min (**step-by-step teaching**) healing 75% continence 70%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

small epi L, only L ureter identified/catheterized by metal sound, wide H incision around fistula, sharp dissection, severe fibrosis/scarring of bladder neck, sharp mobilization of (para)urethra tissue, tension-free longitudinal urethra "reconstruction" over 3 cm with repositioning of retracted uv-junction by single layer of inverting interrupted serafit, only at R fixation of "pc fascia" onto paraurethra atf by 1x serafit each side, euo/b 2.3 cm, **no** urine thru suture line/euo on rest/cough/pressure, avw reconstruction by avw advance ment flap by 2-point fixation onto paraurethra atf/symphysis by everting seralon and then longitudinal closure over distal urethra as part of triple fixation of foley ch 18, check on hemostasis, episiotomy closure; free urine flow, euo/bw 10 cm, good anterior eleva tion, euo/b 2.3 cm the **problem: severe scarring/bibrosis of bladder neck** normal bladder capacity (longitudinal diameter 10-2.3 = 7.5 cm) good position uv-junction **against** middle third symphysis **no** water-tight closure normal-width 2.5 cm **good-quality** urethra_euo in anatomic position



RR preanesthesia: 140/90 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 265 yan	kano Ikan gishiri by doctor; now 3x1	cm urethra lo	oss up t	vvf 4662/4427 o cervix
r a y (kano)		female	18 yr	14.09.11
surgeon:	kees waaldijk			
assistant:	binta musa			
diagnosis:	P0, mutilated multiple two <u>+</u> 1 IIBa following urethra reconstruct continence (repair 23.2.10), leaking following operation by doctor in normal menstruation, no rvf; norm vagina malformation with circular nb drop foot R (grade 4) with cont (grade 4) with contracture up to EUO/F 0.5 cm, F/F 0.5 cm, F/C	tion 27.4.10 (r ing urine for 5 mal ap diamet r stricture, ope tracture up to 100/+10° dors	nmsh_ka yr that sta ba hanya ter/pubic erated 2x 75/-15° (siflexion	a) bco post IIBa in arted immediately a, never married, arch 85°, ar pos,
operation:	urethra/avw reconstruction			
duration:	30 min	healir	ng 85%	continence 85%
anesthesia:	spinal L4/L5 with 3 ml bupivacai	ne 0.5%		

bilateral stricture "severing", wide U incision around fistula, sharp dissection, sharp mobilization of (para)urethra tissue, tension-free <u>longitudinal</u> urethra reconstruction over 3 cm with repositioning of retracted uv-junction by single layer of inverting inter rupted serafit, euo/b 2.2 cm, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, longitudinal avw adaptation by 2x everting seralon check on he mostasis; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 2.2 cm normal bladder capacity (longitudinal diameter 11-2.2 = 9 cm) good position uv-junction **against** middle third symphysis normal-width 2 cm "fibrotic"/good-quality urethra_euo in anatomic position fibrosis ++ as usual in congenital vagina malformation pc fascia **not** identified



RR preanesthesia: 120/70 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 266	kano anterior/iatrogen	ic trauma		mdg	vvf 063
a a niger sta	te	female	25 yr		14.09.11
surgeon:	dr amir imam yola				
assistant:	aisha shehu				
diagnosis:	PIV (1 alive), <u>+</u> 0.5 cm 0 urethro leaking urine for 14 mth which s bco obstructed last labor for 1 da arche 2 mth earlier), <u>still</u> living wi foot R (grade 5) and L (grade 4), normal ap diameter/pubic arch 85 stenosis/shortening, operated 1x euo/f 4 cm, f/c 0 cm, i/v 8 cm	tarted immedia y, sb male, ma th husband, no no rvf, no yank 5°, ar pos, cerv	ately fol rried 12 ormal m can gish	llowing 2 yr ago nenstrua niri, no e	cs kagara post(men ation, drop eclampsia;
operation:	uvcvf-repair				
duration:	40 min	healin	g 80%	contin	ence 70%

transverse incision thru/at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, foley ch 18, transverse avw/cervix adaptation by 3x everting seralon, check on hemostasis; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 2 cm

normal bladder capacity (longitudinal diameter 11-2 = 9 cm)

acceptable position of uv-junction **against** middle/caudad third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130780

pt 267	kano post Ab repair post delivery			mdg	vvf 064
s g d (kano)		female	22 yr	1	4.09.11
surgeon:	dr idris suleiman ababakar				
assistant:	mariya yusuf				
diagnosis:	PIII (0 alive), total post IIAb po leaking urine whilst lying/sitting s for 2 yr which started immediate days, at home sb male, married s living with husband, normal men and L (grade 5), no rvf, no yankan ter/pubic arch 85°, ar pos, cervix euo/bw 12 cm, moderate elevatio	tanding/walki ly following o 9 yr ago pre(n struation, no gishiri, no ec mobile	ng + spo obstructe nenarche h/o drop lampsia;	ntaneous d last lab 5 mth la foot R (g normal a	miction or for 2 ter), <u>still</u> grade 5)
operation:	bladder neck elevation				
duration:	30 min	heali	ng 90%	continer	nce 70%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%			

transverse incision thru repair scar, sharp dissection, bilateral fixation of pc fascia onto paraurethra atf by 3x serafit each side, **no** urine thru suture line/euo on rest/cough/pres sure, foley ch 18, transverse avw adaptation by 3x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.6 cm normal bladder capacity (longitudinal diameter 12-2.6 = 9.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position

pt 268	268 kano anterior trauma		mdg	vvf 065
u s g g-m (ka	ano)	female	33 yr	14.09.11
surgeon:	dr amir imam yola			

- assistant: aisha shehu
- diagnosis: PIX (5 alive), <u>+</u> 5 cm 0 urethrovesicovaginal fistula type **IIAa** with bladder base prolapse, **leaking urine for 71 days** which started immediately following obstructed last labor for 3 days, in hospital minjibir sb male, married 19 yr ago post(menarche 10 mth earlier), <u>still</u> living with husband, no menstruation, drop foot R (grade 5) and L (grade 2), no rvf, no yankan gishiri, no eclampsia; ap diameter/pubic arch 85°, ar pos, cervix mobile euo/f 2.5 cm, f/c 0 cm, i/v 6 cm 157 cm
- operation: uvvf-repair
- duration: 60 min healing 75% continence 80%

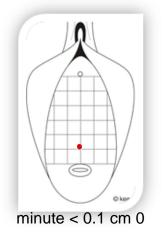
catheterization L ureter, incision at fistula edge, sharp dissection, tension-free transver se bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/ euo on rest/cough/pressure, foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 2 cm

normal bladder capacity (longitudinal diameter 13-2 = 11 cm) acceptable position of uv-junction **against** middle/caudad third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



s b a-g (kano city)	female	16 yr	15.09.11

- diagnosis: PI (0 alive), traumatized euo, ?minute < 0.1 cm 0 urethrovesicovaginal fistula I type? within totally inflamed avw, leaking urine for 25 days that started immediately following obstructed labor of 3 days, in hospital ringim sb female, married 2 yr ago post(menarche 1 yr earlier), not living with husband, no menstruation, drop foot R (grade 2-3) and L (grade 4), no rvf, no yankan gishiri, eclampsia yes; normal ap diameter/pubic arch 85°, ar pos objective intrinsic_stress incontinence euo/"f" 5 cm, "f"/c 1 cm 161 cm
- 15.09.11 foley ch 18; free urine flow, euo/bw 12 cm, moderate anterior elevation, euo/b 1 cm normal bladder capacity (longitudinal diameter 12-1 = 11 cm) poor position of uv-junction **against** caudad third of symphysis **traumatized** 1 cm poor-quality urethra_euo in "anatomic" position



pt 270

kano mdg that specific zandloper urethra_euo trauma anterior trauma: median pc fascia defect

vvf 4663

n d k-m (kano)

female 15 vr 15.09.11

- surgeon: kees waaldijk
- assistant: binta musa
- PI (0 allive), total urine intrinsic stress incontinence grade III, leaking diagnosis: urine whilst lying/sitting/standing/walking + spontaneous miction for 4 mth which started immediately following obstructed labor for 3 days, in hospi tal danbatta sb male, married 1.5 yr ago post(menarche 5 mth earlier), still living with husband, normal menstruation, drop foot R (grade 4-5) and L (grade 3-4), no rvf, no yankan gishiri, eclampsia yes; normal ap diame ter/wide pubic arch 95°, ar pos, cervix mobile wide open zanloper urethra_euo posteriorly pulled inside euo/bw 12 cm, poor elevation, euo/b 0.2 cm, i/v 11 cm 160 cm
- operation: urethralization by longitudinal fascia repair + euo rhaphy

duration: 25 min (step-by-step teaching) healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse curved incision at cm from euo parallel/within ruga folds, sharp dissection, 5x2 cm median longitudinal fascia defect, longitudinal repair/rhaphy of pc fascia at 1-5 cm from euo by serafit, intact pcf fixation onto paraurethra atf, since euo still wide open (though no longer incontinence) closed euo-rhaphy by 1x serafit, now euo/b 2.2 cm, no urine thru euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw pcf/ symphysis_avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, good elastic anterior elevation, euo/b 2.2 cm (urethralization) normal bladder capacity (longitudinal diameter 12-2.2 = 10 cm) good position uv-junction against middle third symphysis good fascia plate good-quality pcm normal-width 2 cm good-quality urethra euo in anatomic position

> RR preanesthesia: 130/70 mm Hg 5': 120/70 10': 120/70 postoperation: 110/70

pt 271	tota	kano mdg al circumferential trauma		vvf 4666
r s r-b (kand	o city)	female	17 yr	15.09.11
surgeon:	kees waaldijk			

assistant: binta musa

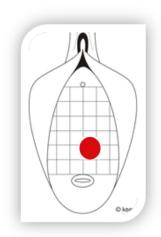
diagnosis: PI (0 alive), mutilated severely scarred <u>+</u> 0.5 cm 0 urethrovesicovaginal fistula slightly at L with circumferential defect type IIAb, leaking urine for 1 yr which started immediately following cs bebeji bco obstructed labor for 3 days, sb male, married 4 yr ago pre(menarche 3 mth later), <u>still</u> living with husband, normal menstruation, drop foot R (grade 4-5) and L (grade 5), no rvf, no eclampsia; normal ap diameter/pubic arch 85°, ar pos, bilateral atf/atl + pc_ilc_iscm loss, cervix fixed, moderate_severe stenosis/short ening, operated 10.2.11 (mmsh_ka)
yankan gishiri during labor by ungozoma/sitting/razor/cutting (-tomy) euo/f 1.5 cm, f/c 0.5 cm, ab/au xx cm, i/v 5 cm

operation: uvvf-repair + "pcf" refixation at L

duration: 25 min (step-by-step teaching) healing 85% continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

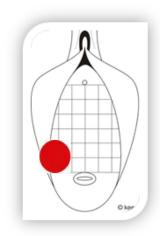
re-episiotomy, large transverse incision thru fistula/repair scar, sharp dissection, excision of s<car tissue +, tension-free transverse bladder/urethra closure by single layer of inverting serafit with refixation of scarred pcf at L onto öparaurethra atf by 2x serafit, intact fixation at R, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw/avw_cervix adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 11 cm, good anterior elevation and euo/b 1.2 cm (circ defect) the **problem: mutilation/short urethra/scarring** normal bladder capacity (longitudinal diameter 11-1.2 = 10 cm) **still good feeling** poor position of uv-junction **fixed against** caudad third of symphysis "normal-width" 1 cm poor-quality urethra_euo in anatomic position



RR preanesthesia: mm Hg 5': 10': postoperation:

pt 272 pt pt	kano mdg third obstetric fistula			vvf 4665 vvf 2194/2879 vvf 4139
k i g (kano)		female	29 yr	15.09.11
surgeon:	kees waaldijk			
assistant:	binta musa			
diagnosis:	PIII/V (0 alive), mutilated extens la with circumferential defect type for 1 yr that started immediately for at home <u>live</u> male who <u>died</u> 2 day 2 mth later), <u>still</u> living with husba (gra de 5) and L (grade 5), no rvf, ap diameter/pubic arch 85°, ar p cervix fixed towards i spine R euo/f 2.5 cm, f/c 0 cm, ab/au xx	e IIAb at ollowing o vs later, m nd, norm no yanka pos, bilat	extreme R lui obstructed las narried 16 yr a al menstruati an gishiri, no e teral atf/atl +	ngu, leaking urine st labor for 2 days, ago pre(menarche on, no drop foot R eclampsia; normal
operation:	uvvf-"repair"			
duration:	40 min	I	healing 85%	continence 60%
anesthesia:	spinal L4/L5 with 3 ml bupivacaine 0.5%			

transverse incision thru/at fistula edge, sharp dissection thru cervix, excision of scar tissue +, tension-free transverse bladder_cervix/symphysis "closure" with partial repositi oning of cervix by single layer of inverting serafit, **no** urine thru suture line/euo on rest/ cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.4 cm since no urine thru euo chance of continence may be higher **85%** normal bladder capacity (longitudinal diameter 12-1.4 = 10.5 cm) poor position of uv-junction **fixed against** caudad third of symphysis normal-width 1.5 cm poor-quality urethra_euo in anatomic position



RR preanesthesia: mm Hg 5': 10': postoperation:

pt 273	kano anterior trauma		mdg	vvf 066
z s u b (kanc	o city)	female	16 yr	15.09.11
surgeon:	dr idris suleiman abubak	ar		

assistant: aisha shehu

- diagnosis: PI (0 alive), <u>+</u> 2.5 cm 0 urethrovesicovaginal fistula type **IIAa**, leaking urine for 2 yr which started immediately following obstructed labor for 3 days, in hospital (1 day) gaya sb female, married 3 yr ago pre(menarche 3 mth later), <u>still</u> living with husband, normal menstruation, drop foot R (grade) and L (grade), no rvf, no yankan gishiri, eclampsia yes; normal ap diameter/pubic arch 85°, ar pos, cervix mobile, operated 1x (laure_ka) euo/f 2 cm, f/c 2 cm, i/v 10 cm
- operation: uvvf-repair

duration: 30 min healing 85% continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

episiotomy R, incision at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, foley ch 18, transverse avw adaptation by 3x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 16 cm, good anterior elevation, euo/b 1.9 cm

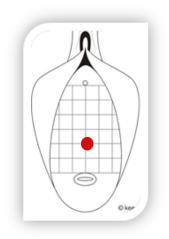
normal bladder capacity (longitudinal diameter 13-1.9 = 11 cm) acceptable position of uv-junction **against** middle/caudad third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 130/80 mm Hg 5': 120/80 10': 120/70 postoperation: 110/70

pt 274		ano or trauma		mdg	vvf 067
s y m g (kan	0)	female	15 yr		15.09.11
surgeon:	dr amir imam yola				
assistant:	mariya				
diagnosis:	leaking urine for 44 days which started immediately following obstructed labor for 3 days, in hospital (1 day) gwarzo <u>live</u> female, married 2 yr ago pre(menarche 1 mth later), <u>still</u> living with husband, no menstruation, drop foot R (grade 3) and L (grade 4), no rvf, no yankan gishiri, no eclampsia normal ap diameter/pubic arch 85°, ar pos, cervix mobile				bstructed d 2 yr ago ttion, drop
operation:	uvvf-repair				
duration:	min	healing	conti	inence	
anesthesia:	spinal L4/L5 with 3 ml bupiv	vacaine 0.5%			

transverse incision thru/at fistula edge, sharp dissection, tension-free transverse blad der/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, foley ch 18, transverse avw adaptation by 2x everting seralon, check hemostasis; free urine flow, euo/bw 14 cm, good anterior elevation, euo/b 2.5 cm normal bladder capacity (longitudinal diameter 14-2.5 = 11.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 120/70 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 275	kano anterior tra	uma		mdg	vvf 068
r a u_k k (ka	no)	female	15 yr		15.09.11
surgeon:	dr idris suleiman abubakar				
assistant:	naomi				
diagnosis:	base prolapse, leaking urine for 37 days which started immediately fol lowing obstructed labor for 5 days, at home sb female, married 2 yr ago pre(menarche 1 mth later), not living with husband, no menstruation, drop foot R (grade 2) and L (grade 3), no rvf, no yankan gishiri, no eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix mobile				diately fol d 2 yr ago ation, drop
operation:	bilateral ureter catheterization +	uvvf-repair			
duration:	45 min	heali	ng 85%	contin	ence 85%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%			

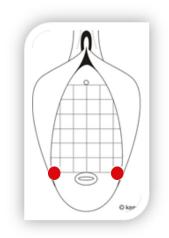
episiotomy R, bilateral ureter catheterization for 20 cm, incision at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, foley ch 18, transverse avw adaptation by 4x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 9 cm, good anterior elevation, euo/b 1.7 cm normal bladder capacity (longitudinal diameter 9-1.7 = 7.5 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 1.5 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 130/80 mm Hg 5': 120/80 10': 120/70 postoperation: 110/70

pt 276 kano vvf 4666 iatrogenic trauma					
h i d r (kano)		female	32 yr	16.09.11	
surgeon:	kees waaldijk				
assistant:	binta musa				
diagnosis:	PII (0 alive), mutilated multiple R/L "lungu" type IIAa , leaking urin lowing tah-cs mmsh bco obstruct 20 yr ago pre(menarche 1 yr later since, no h/o drop foot R (grade gishiri, no eclampsia; normal ap fixed, moderate-severe shortenin euo/f 3.5 cm, f/v 0 cm, i/v 6 cm	e for 11 yr wh ed last labor), no living at 5) and L (gr diameter/pu ng, operated 4	hich starte for 1 day, husband rade 5), r bic arch a lx includii	ed immediately fol sb male, married not menstruation to rvf, no yankan 85°, ar pos, vault ng 5.4.11 (mmsh)	
operation:	tah-cs uvvf-repair				
duration:	40 min	heali	ng 85%	continence 85%	

re-episiotomy, transverse incision thru fistulas_vault, sharp dissection, tension-free transverse poor-quality scar tissue/pubic bones_urethra closure by single layer of invert ing serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw/pvw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.8 cm normal bladder capacity (longitudinal diameter 12-2.8 = 9 cm) good position of uv-junction **against** middle third of symphysis traumatized "normal-width" 3 cm good-quality urethra_euo in anatomic position

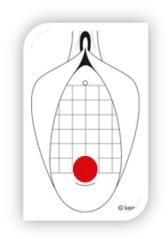


RR preanesthesia: mm Hg 5': 10': postoperation:

pt 277	kano anterior + iatrog		mdg	vvf 069	
b m h-b (kan	o)	female	33 yr		16.09.11
surgeon:	dr amir imam yola/dr idris suleir	nan abubaka	r		
assistant:	naomi ikupolati				
diagnosis:	PIII (1 alive), <u>+</u> 1 cm 0 intracervite leaking urine for 38 days which sharada bco obstructed labor for (menarche 4 mth earlier), <u>still</u> live foot R (grade 4) and L (grade 1) normal ap diameter/pubic arch a euo/f 5 cm, f/c 0 cm, i/v 6 cm	n started imme r 2 days, sb m ing with husb , no rvf, no ya 85°, ar pos, c	ediately fo nale, marr and, no m nkan gish	ollowing o ied 20 yı nenstrua niri, no e	cs priv clin r ago post ition, drop
operation:	highly complicated cs-vcvf-rep	pair			
duration:	80 min	hea	ling 70%	contine	ence 70%

transverse incision thru/at fistula edge, sharp dissection, **complicated** tension-free transverse bladder closure by single layer inverting serafit, **no** urine thru suture line/euo on rest/cough, foley ch 18, transverse avw/cervix adaptation by 2x everting seralon, hemostasis check; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.9 cm normal bladder capacity (longitudinal diameter 12-2.9 = 9 cm) good position of uv-junction **against** middle third of symphysis normal-width 3 cm good-quality urethra_euo in anatomic position

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%



RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

severe scoliosis

r b s l (zaria city)	female	19 yr	07.08.11
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- diagnosis: PI (alive), overflow incontinence due to atonic bladder, **leaking urine for 3 days** which started immediately following obstructed labor for 2 days, in hospital <u>live</u> male, married 2 yr ago post(menarche 4 yr earlier), <u>still</u> living with husband, no menstruation, no drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no eclampsia; normal ap diameter/pubic arch 85°, ar pos avw bulging but no further avw trauma obesity ++
- 07.08.11 masked suprapubic mass, avw bulging into vagina, bladder overdistended (euo/bw 22 cm), moderate anterior elevation after draining > 1.500 ml of urine, euo/b 1 cm foley ch 18; free urine flow increased bladder capacity (longitudinal diameter 22-1 = 21, atonic bladder) poor position of uv-junction against caudad third of symphysis normal-width 1 cm good-quality urethra_euo in anatomic position
- 10.09.11 not leaking cath removed
- 17.09.11 not leaking at all, no incontinence, normal miction Insp/ healed, good elevation, no stess incontinence

zaria anterior + iatrogenic trauma

m t g-i (kaduna)			female	34 yr	17.09.11

- surgeon: kees waaldijk
- assistant: kabir lawal
- diagnosis: PX (8 alive), <u>+</u> 1 cm 0 sth-cs vesicocervicouterovaginal fistula type I, leaking urine for 6 mth which started immediately following sth-cs bco last obstructed labor for 2 days, sb female, married 21 yr ago post(menarche 5 mth earlier), **not** living with husband, no menstruation, no h/o drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix fixed midline euo/f 6 cm, f/c 0 cm, i/v 12 cm cm
- operation: uvvf-repair
- duration: 40 min healing 85% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

small episiotomy L, transverse incision thru/at fistula edge-cervix, sharp dissection, tension-free transverse bladder/post cervix closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw/post cervix adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.9 cm normal bladder capacity (longitudinal diameter 12-1.9 = 10 cm) acceptable position of uv-junction **against** middle/caudad third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position **seems sth + total loss ant uterus wall/post uterus wall now part of post bladder**



RR preanesthesia: 170/100 mm Hg 5': 160/90 10': 140/80 postoperation: 130/80

zaria

post IIBa repair

anterior + severe iatrogenic trauma; type IIAa becomes IIBa

h s I (niger state) female 43 yr 21.01.11

- surgeon: kees waaldijk
- assistant: kabir lawal
- diagnosis: PVII (2 alive), post **mutilated IIBa** repair instrinsic-stress incontinence grade II, leaking whilst cough/standing/walkinmg but not whilst lying/sitting for 2 mth which started after period of cough being totally ok for 6 mth following repair 21.1.11<u>still</u> living with husband, normal menstruation, drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no h/o eclampsia; normal AP diameter/borderline pubic arch 80°, AR pos, operated 3x euo/c 6 cm cervix fixed euo/bw 10 cm, poor elevation, euo/b 0.5 cm traumatized euo

duration: 20 min

20 min healing 90% continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

gv: **no** leakage urine level in accord with respiration

excision of avw mutilation-scar tissue at R, transverse incision at 2 cm from euo and proximally from repair scar, sharp dissection, 5x2 cm median defect of thickened pc fascia from cervix up to 1 cm to euo, excision of mutilation-scar tissue from pc fascia, longitudinal pc fascia repair at 1-5 cm from euo with "normalization" of euo by single layer of inverting serafit, closed euo-rhaphy by 1x<serafit, euo/b now 2.8 cm, **no** urine thru euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw_fascia/ symphysis_avw adaptation by 2x everting seralon, check on hemostasis; free urine flow euo/bw 11 cm, good elevation, euo/b 2.8 cm (**urethralization**)

normal bladder capacity (longitudinal diameter 11-2.8 = 8 cm)

good position of uv-junction against third of symphysis

good thickened fascia plate good-quality pcm the **problem: mutilation/scarring** normal-width 3 cm poor-quality urethra_euo in anatomic position

if it heals off tissues may normalize under physiologic stress and hormonal influence

operation: excision of mutilation-scar tissue, urethralization + euo-rhaphy

pt 281	extensive	zaria total circumferential tra			
f s g (zaria ci	ty)	female	15 yr	17.09.11	
surgeon:	kees waaldijk				

assistant: kabir lawal

diagnosis: PI (0 alive), total post **IIAb** intrinsic_stress incontinence grade III, leaking urine whilst lying/sitting/standing/walking + **no** spontaneous miction with ?residual minute lungu fistula L? following multiple repairs 18.2 to 11.5.11 not living with husband, no menstruation, drop foot R (grade 5) and L (grade 3); ?AP diameter?/normal pubic arch 85°, AR pos, **major** bilateral atf/atl + pc_io_ilc_iscm loss (**bare bones**) and bilateral ssl_pm trauma, cervix fixed midline, moderate vagina stenosis/shortening, **no** longerh lpl stricture healed proximal 1 cm 0 pvw trauma atonic bladder component euo/f 16 cm, good elevation, euo/b 1.7 2 cm, i/v 8 cm euo/"f" 2.5 cm

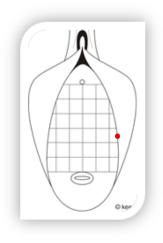
operation: lungu uvvf-""repair""

duration: 40 min (**step-by-step teaching**) healing 80% continence 75%

anesthesia: spinal L3/L4 with 4 ml bupivacaine 0.5%

questionable leakage at L by gv

re-episiotomy L, transverse curved avw incision at L thru "fistula", sharp dissection, since everything fixed transverse bladder/avw fixation onto symphysis by 2x seralon, **no** urine thru suture line but still thru euo + on cough/pressure, foley ch 18, avw adapted, check on hemostasis, episiotomy closure; free urine flow, euo/bw 16 cm, good anterior elevation, euo/b 1.7 cm (**circ loss**) poor-quality bladder/urethra tissue **increased** bladder capacity (longitudinal diameter 16-1.6 = 14.5 cm) poor position of uv-junction **fixed against** caudad third of symphysis normal-width 1.5 cm poor-quality urethra_euo in anatomic position the **problem: everything fixed + poor-quality tissue**



RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 120/70 postoperation: 120/70

zaria cut thru trauma

17.09.11

surgeon: kees waaldijk

assistant: kabir lawal

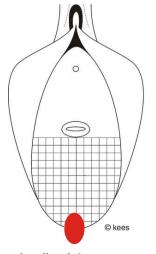
diagnosis: PX (9 alive), sphincter ani rupture with 2 cm <u>longitudinal</u> anorectum trau ma, stool_flatus incontinence for 14 mth which started immediately after last labor for 1 day, at home <u>live</u> female, married 20 yr ago post(menar che 2 yr later), <u>still</u> living with husband, normal menstruation, no drop foot R (grade 5) and L (grade 5), no vvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/wide pubic arch 90°, ar pos a/f 0 cm, i/v 12 cm never leaking urine obesity +++

operation: anorectum closure and sphincter ani_perineal body reconstruction

duration: 20 min (**step-by-step teaching**) healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

incision at pvw edge with freshening of sphincter ani ends, minimal sharp dissection, <u>longitudinal</u> anorectum closure with adaptation_rhaphy of internal sphincter over 2.5 cm up to anocutaneous junction (with repositioning of anterior anus) by double layer of inverting interrupted/continuous serafit, inner ring of external sphincter adapted, end-toend external sphincter ani reconstruction by 2x serafit, perineal body repair with (in) direct re-union of transversus perinei muscles and (in)direct posterior re-union of bulbo cavernosus muscles by 2x serafit, perineum well adapted with a bit **tight** anus in anato mic position, check on hemostasis the **problem: obesity +++** foley ch 18; free urine flow, euo/bw 16 cm, moderate elevation, euo/b 2 cm



RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

longitudinal 2 cm trauma

k m p (kaduna)

female

23 yr

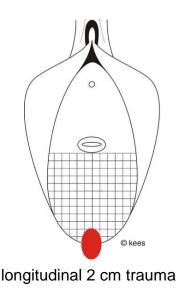
- surgeon: kees waaldijk
- assistant: kabir lawal
- diagnosis: PI (alive), sphincter ani rupture with 2 cm <u>longitudinal</u> anorectum trauma, stool_flatus incontinence for 12 days which started immediately following labor for 1 day, at home <u>live</u> female, married 22 mth ago post (menarche 8 yr earlier), not living with husband, no menstruation, drop foot R (grade 4) and L (grade 4), no vvf, no yankan gishiri, no h/o eclamp sia; normal ap diameter/pubic arch, ar pos, suturing 1x at home a/f 0 cm, i/v 12 cm never leaking urine cm

operation: anorectum closure and sphincter ani_perineal body reconstruction

duration: 20 min (**step-by-step teaching**) healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

removal of sutures, incision at pvw edge with freshening of sphincter ani ends, minimal sharp dissection, <u>longitudinal</u> anorectum closure with adaptation_rhaphy of internal sphincter over 2.5 cm up to anocutaneous junction (with repositioning of anterior anus) by double layer of inverting interrupted/continuous serafit, inner ring of external sphinc ter adapted, end-to-end external sphincter ani reconstruction by 2x serafit, perineal body repair with (in)direct re-union of transversus perinei muscles and (in)direct poste rior re-union of bulbocavernosus muscles by 2x serafit, perineum well adapted with anus in anatomic position, check on hemostasis inflammation ++ foley ch 18; free urine flow, euo/bw 12 cm, good elevation, euo/b 2 cm



RR preanesthesia: 120/70 mm Hg 5': 110/70 10': 110/70 postoperation: 110/70

pt 284 pt 285	kano anterior/posterio	vvf 4667 rvf 769		
u b a (bauchi)		female	34 yr	19.09.11
surgeon:	kees waaldijk			
assistant:	binta musa			
diagnosis:	PVIII (5 alive), <u>+</u> 1 cm 0 urethrovesicovaginal fistula type IIAa at distal tip of 2 cm proximal avw/cervix trauma, 0.3 cm rectovaginal fistula type Ia midline, leaking urine/passinmg stools pv for 1 yr that started immediately following cs bco obstructed last labor for 3 days, in hospital (2 days) sb male, married 20 yr ago post(menarche 1 yr earlier), <u>still</u> living with husband, normal menstruation, drop foot R (grade 4) and L (grade 4-5), no yankan gishiri, no eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix fixed midline/not moving operated 03.02.11 (laure) euo/f 2 cm, f/c 1 cm, a/f 10 cm, f/c 0 cm, i/v 10 cm			
operation:	uvvf-repair + ps-like rvf-repair		obesity	/ +++
duration:	50 min	healing both	85% contine	nce 90%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%		

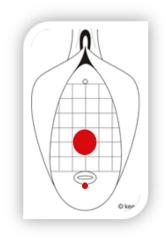
re-episiotomy L, transverse incision thru/at fistula edge, sharp dissection, **under some tension** transverse bladder/urethra closure with bilateral fixation of pc fascia onto paraurethra atf by single layer of inverting serafit, **no** urine thru suture line/euo on rest/ cough/pressure, triple fixation of foley ch 18, transverse avw/avw_cervix adaptation by 2x everting seralon,; free urine flow, euo/bw 9 cm, good anterior elevation, euo/b 2.2 cm moderate-normal bladder capacity (longitudinal diameter 9-2.2 = 7 cm) good position of uv-junction **against** middle third of symphysis normal-width 2 cm medium-quality urethra_euo in anatomic position RE/ no rectum stricture, freshening of rvf edge, without any dissection transverse pvw/ posterior cervix adaptation by 2x everting seralon, check on hemostasis, skin closure the **problem: poor-quality tissue and everything fixed**



RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 285 pt 284	kano anterior/posterior trauma			r∨f 769 v∨f 4667
u b a (bauchi)		female	34 yr	19.09.11
surgeon:	kees waaldijk			
assistant:	binta musa			
diagnosis:	PVIII (5 alive), <u>+</u> 1 cm 0 urethrovesicovaginal fistula type IIAa at distal tip of 2 cm proximal avw/cervix trauma, 0.3 cm rectovaginal fistula type Ia midline, leaking urine/passinmg stools pv for 1 yr that started immediately following cs bco obstructed last labor for 3 days, in hospital (2 days) sb male, married 20 yr ago post(menarche 1 yr earlier), <u>still</u> living with husband, normal menstruation, drop foot R (grade 4) and L (grade 4-5), no yankan gishiri, no eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix fixed midline/not moving operated 03.02.11 (laure) euo/f 2 cm, f/c 1 cm, a/f 10 cm, f/c 0 cm, i/v 10 cm 152 cm			
operation:	uvvf-repair + ps-like rvf-repair		obes	sity +++
duration:	50 min	healing both	85% contir	ience 90%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%		

re-episiotomy L, transverse incision thru/at fistula edge, sharp dissection, **under some tension** transverse bladder/urethra closure with bilateral fixation of pc fascia onto paraurethra atf by single layer of inverting serafit, **no** urine thru suture line/euo on rest/ cough/pressure, triple fixation of foley ch 18, transverse avw/avw_cervix adaptation by 2x everting seralon,; free urine flow, euo/bw 9 cm, good anterior elevation, euo/b 2.2 cm moderate-normal bladder capacity (longitudinal diameter 9-2.2 = 7 cm) good position of uv-junction **against** middle third of symphysis normal-width 2 cm medium-quality urethra_euo in anatomic position RE/ no rectum stricture, freshening of rvf edge, without any dissection transverse pvw/ posterior cervix adaptation by 2x everting seralon, check on hemostasis, skin closure the **problem: poor-quality tissue and everything fixed**



RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

kano mdg anteriobilateral trauma

h i s d g (kano)

female 45 yr

surgeon: kees waaldijk

assistant: binta musa

diagnosis: PX (0 alive), <u>+</u> 4 cm 0 urethrovesicovaginal fistula with circumferential defect type **IIAb/Bb**, leaking urine for 30 yr which started immediately fol lowing obstructed <u>first</u> labor for 2 days, in hospital mmsh sb female, mar ried 33 yr ago pre(menarche 1 yr later), <u>still</u> living with husband, normal menstruation, drop foot for 2 mth R (grade 5) and L (grade 5), no rvf, no yankan gishiri, eclampsia yes; normal ap diameter/pubic arch 85°, ar pos, bilateral atf/atl + pc_ilc_iscm loss, cervix mobile, **never** operation euo/f 1 cm, f/c 2.5 cm, ab/au 2 cm, i/v 12 cm

operation: circumferential uvvf-repair + bilateral pcf refixation

duration: 40 min (**step-by-step teaching**) healing 90% continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru/at fistula edge, sharp circumferential dissection, advancement/ caudad fixation of anterior bladder onto symphysis/urethra, tension-free circumferential uvvf-repair by end-to-end vesicourethrostomy by single layer of inverting serafit, bila teral fixation of pc fascia onto paraurethra_euo atf/symphysis by 2x serafit each side, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, trans verse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.2 cm (**circ loss**) normal bladder capacity (longitudinal diameter 12-1.2 = 11 cm) poor position of uv-junction **fixed against** caudad third of symphysis normal-width 1 cm **good**-quality urethra_euo in anatomic position



RR preanesthesia: 160/90 mm Hg 5': 150/90 10': 140/80 postoperation: 130/80

pt 287 pt	kano mdg third leakage; now second obstetric			vvf 4669 vvf 2621/./3716
r a b (kano)		female	25 yr	19.09.11
surgeon:	kees <waaldijk< td=""><td></td><td></td><td></td></waaldijk<>			
assistant:	binta musa			
diagnosis:	PIII (2 alive), total post IIBa pos grade III, leaking whilst lying/sittin miction for 11 mth which started in labor for 1 day, <u>live</u> male,, marrier still living with husband, normal m and L (grade 5), no h/o eclamps 90°, ar pos, cervix mobile but no p gishiri 11 yr ago: lying/she_wa euo/bw 12 cm, poor elevation, en	ng/stand ing/v mmediately for d 12 yr ago p nenstruation, ia; normal ap prolapse anyn nzami/aska/t	valking + ollowing c re (mena no h/o dr diameter nore, cyst issue rer	no spontaneous cs mmsh bco last rche 3 mth later), rop foot (grade 5) r/wide pubic arch tocele ++ yankan moved (-ectomy)

operation: urethralization and pc fascia fixatkion euo/c 8 cm

duration: 25 min (**step-by-step-teaching**) healing 95% continence 85%

anesthesia: spinal L4/L5 with 4 ml bupivacaine 0.5%

transverse curved incision at 2 cm from neo-euo, sharp dissection, 6x2 median defect from cervix up to 2 cm to euo, longitudinal fascia repair at 2-6 cm by serafit, bilateral fixation of pc fascia onto para-euo atf by 1x serafit each side, euo/b now 2.2 cm, **no** urine thru euo on rest/cough/pressure, foley ch 18, transverse avw adaptation by 2x everting seralon/1x serafit, check on hemostasis; free urine flow, euo/bw 12 cm, good elastic elevation, euo/b 2.2 cm

normal bladder capacity (longitudinal diameter 12-2.2 = 10 cm)

good position of UV-junction **against** middle third of symphysis

good fascia plate good-quality pcm

normal-width 2 cm medium to good_quality urethra_euo in anatomic position the **problem: multiple repairs each with their surgical trauma** it went fine

> RR preanesthesia: 150/100 mm Hg 5": 160/90 10": 130/80 postoperation: 130/80

pt 288 kano total circumferential traum				
s j z g (kano city)		female	32 yr	19.09.11
surgeon:	dr amir imam yola			
assistant:	naomi			
diagnosis:	PVIII (3 alive), <u>+</u> 2 cm 0 urethrovesicovaginal fistula type IIAb with circum ferential defect, leaking urine for 36 days which started immediately fol lowing cs bco obstructed last labor for 4 days, in hosp (2 days) rano sb male, married 20 yr ago pre(menarche 1 yr later), <u>still</u> living with husband, no menstruation, drop foot R (grade 3) and L (grade 4), no rvf (but flatus pv), no yankan gishiri, no eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix fixed midline, moderate vagina stenosis/shortening euo/f 3 cm, f/c 2 cm, i/v 8 cm			ed immediately fol (2 days) rano sb ring with husband, no rvf (but flatus er/pubic arch 85°,
operation:	uvvf-repair			
duration:	40 min	heali	ng 90%	continence 90%

episiotomy L, incision at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/ pressure, foley ch 18, transverse avw adaptation by 3x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 14 cm, good anterior eleva tion, euo/b 2 cm

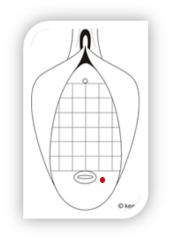
normal bladder capacity (longitudinal diameter 14-2 = 12 cm) acceptable position of uv-junction **against** middle/caudad third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 130/90 mm Hg 5': 130/90 10': 130/80 postoperation: 130/80

pt 289 kano iatrogenic trauma					vvf 071
u z d (kano)		female	40 yr		19.09.11
surgeon:	dr amir imam yola				
assistant:	aisha shehu				
diagnosis:	PX (8 alive), ureter fistula L, leaking urine + normal miction for 6 mth which started immediately following cs priv clin bco obstructed last labor for < 1 day, sb female, married 25 yr ago post(menarche 2 yr earlier), <u>stil</u> living with husband, normal menstruation, no drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no eclampsia; normal ap diameter, pubic arch 85°, ar pos, cervix fixed towards i spine L obesity ++ euo/f 10 cm, f/c 0 cm, i/v 12 cm 152 cm				last labor arlier), <u>still</u> e 5) and L diameter/
operation:	assessment				
duration:	10 min	healir	ng	contin	ence
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%			

dye examination over 5 min: **no** leakage but **clear** urine from L since ureter **cannot** be catheterized for abdominal implantation by urologist



pt 290 tota	k ۱ l circumferential trauma; "	ano i noperable" ty	pe IIAb fist	mdg vvf 072 tu la + rvf
l a k b (kano)	female	14 yr	19.09.11
surgeon:	dr idris suleiman abubakar/ł	kees waaldijk		
assistant:	naomi			
diagnosis:	is: PI, "inoperable" \pm 4 cm 0 urethrovesicovaginal fistula type IIAb with cir cumferential defect, inflamed scarred \pm 2x1 cm transverse rectovaginal fistula type Ib at L, leaking urine/passing stool pv for 5 mth which started immediately following obstructed labor for 2 days, in hospital kunya sb male, married 2 yr ago pre(menarche 1 mth later), no living with husband, no menstruation, drop foot R (grade) and L (grade), no yankan gishiri, eclampsia yes; ?ap diameter?/pubic arch 85°, ar pos, cervix fixed, ulcer L buttock, severe stenosis/shortening, bilateral atf/atl + pc_ilc_iscm loss euo/f 2 cm, f/c 0 cm, i/v 6 cm			
operation:	assessment			
duration:	10 min	he	ealing	continence
anesthesia:	spinal L4/L5 with 3 ml bupiv	acaine 0.5%		

since **all tissues inflamed/scarred** and **everything fixed** due to continuous passing stools pv uvvf "**inoperable**"

first rvf-repair but not now since heavy stool contamination

then if rvf healed after 3 mth re-evaluation since tissues may improve



RR preanesthesia: 120/70 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 291	kano n anterior t	•		cath aajaj
s I f-d (katsir	าล)	female	16 yr	18.09.11
diagnosis:	PII (all alive), urine intrinsic_str healing phase of atonic bladder ing/walking + normal miction obstructed last labor of 2 days, ried 3 yr ago post(menarche 3 menstruation, no drop foot R (g gishiri, eclampsia yes; normal avw bulging; healed superficial euo/avw"t" 2 cm, avw"t"/cervix	r, leaking urine n for 38 days in hospital (1 d mth earlier), <u>s</u> rade 5) and L (g ap diameter/wid	whilst lying/sitt which started 2 ay) daura <u>live</u> fe <u>till</u> living with hus grade 5), no rvf, r de pubic arch 90	ing/stand days after male, mar sband, no no yankan
19.09.11	no suprapubic mass, avw bulg ior elevation, euo/b 1 cm (vesi normal bladder capacity (longit poor position of uv-junction ag 1 cm good-quality urethra_euo seems like ühysiologic healing first bladder drill for 2-4 wk th	calization) tudinal diamete ainst caudad th in a natomic p phase of atonic	r 12-1 = 11 cm) hird of symphysi osition c bladder	

- 19.09.11 improvement

pt 292 pt	kano mdg post IIBb repair katsina/5x delivery			vvf 4670 vvf 2379/./3223
z m k (katsin	a)	female	32 yr	20.09.11
surgeon:	kees waaldijk			
assistant:	binta musa			
diagnosis:	PVI (3 alive), total post Bb 5x delivery intrinsic_stress incontinence, leak ing urine whilst lying/sitting/standing/walking + spontaneous miction for 18 yr which started immediately following obstructed labor for 2 days, in hos			

yr which started immediately following obstructed labor for 2 days, in hos pital stillborn male infant, married 30 yr ago pre(menarche 7 mth later), <u>still</u> living with husband, normale menstruation, drop foot R (grade 4-5) and L (grade 5), no rvf, no yxankan gishiri, eclampsia yes; normal ap dia meter/pubic arch 85°, bilateral atf/atl + pc_ilc_iscm loss, cystocele ++, 1-2° cervix prolapse **nb** delivered 2x hosp (sb) + 3x gida (live) obesity +++ narrow euo in anatomic position euo/c 5 cm **very good hygiene** euo/bw 12 cm, poor elevation, euo/b 0.4 cm 155.5 cm

- operation: urethralization by longitudinal "pcf" repair
- duration: 20 min healing 85% continence 70%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision at 2 cm from euo at skin graft edge, sharp dissection, poor-quality tissue, <u>longitudinal</u> repair of 4x2 cm median "fascia" defect by single layer of serafit, euo/b now 3.6 cm, **no** urine thru euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw_symphysis/fascia_avw_cervix adaptation by 2x everting seralon, hemostasis check; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 3.6 cm (**urethralization compression**)

normal bladder capacity (longitudinal diameter 13-3.6 = 9.5 cm)

good position of uv-junction **against** third of symphysis

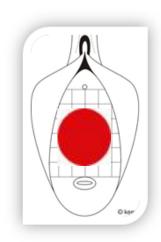
median-quality fascia plate poor-quality pcm

normal-width 3.5 cm medium urethra_euo in anatomic position

the problem: poor-quality tissue by fatty degeneration + long-standing leaking

pt 293	ot 293 kano mdg total circumferential + iatrogenic trauma				
d m w (kano)	female	22 yr	20.09.11	
surgeon:	kees waaldijk				
assistant:	binta musa				
diagnosis:	hosis: PIII (0 alive), mutilated <u>+</u> 3 cm 0 urethrovesicovaginal fistula type IIA with circumferential defect, leaking urine of 7 mth that started immediate following cs wudil bco obstructed last labor for 2 days, sb male, marrie 10 yr ago pre(menarche 1 yr later), no living at husband, no menstruatio drop foot R (grade 3) and L (grade 5), tusa pv, no rvf, no yankan gishi no eclampsia; normal ap diameter/pubic arch 85°, ar pos, bilateral atf/a + pc_ilc_iscm loss, cervix fixed/moving on cough, operated 1x (wudil) euo/f 1.5 cm, f/c 1 cm, ab/au 1 cm, i/v 10 cm				
operation:	ps-like uvvf-repair				
duration:	30 min	h	ealing 70% contin	ence 40%	
anesthesia:	spinal L4/L5 with 3 ml bupivacair	າe 0.5%			

re-episiotomy, though ureter prolapse it cannot be catheterized, incision at fistula edge, sharp dissection, **under tension** transverse **ps-like** avw_symphysis_urethra/bladder_ avw_cervix adaptation by 4x everting seralon, midline urethra/bladder adaptation by 1x inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, on bladder flushing **no** urine thru suture line, check on hemostasis, skin clo sure; free urine flow, euo/bw 9 cm, good anterior elevation, euo/b 1.4 cm normal bladder capacity (longitudinal diameter 9-1.4 = 7.5 cm) **no** rvf identified acceptable position of uv-junction **fixed against** middle/caudad third of symphysis since slightly deformed 1.5 cm poor-quality urethra_euo posteriorly pulled inside the **problem: poor-quality tissue under tension + nonoptimal nutritional condition**



RR preanesthesia: 120/70 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 294	kano mdg total circumferential trauma; nicely healed			vvf 4672/4308 rvf	
s g g (kano)		female	24 yr	20.09.11	
surgeon:	kees waaldijk				
assistant:	asmau				
diagnosis:	PII (0 alive), residual 0.1 cm urethrovesicovaginal fistula L type IIAb/Bb almost next 0.5 cm to euo thru which urine ++ on cough following repair 1.6.09, not living with husband, normal menstruation, successful proximal RVF-repair gwarzo, no yankan gishiri; normal AP diameter/pubic arch 85°, AR pos, bilateral atf/atl + pc_ilc_iscm loss, proximal lpl stricture, vvf-repair 2x (gwarzo_ff graft + 11.8.08 mmsh_im), obesity +, objective intrinsic_stress thru fistula, cervix fixed deformed euo drawn inside euo/f 0.5 cm, f/c 4 cm, ab/au xx cm, i/v 10 cm 148.0 cm				
operation:	uvvf-repair + bilateral pcf fixation				
duration:	25 min	hea	aling 85%	continence 85%	
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%			

open urethra_euo drawn inside euo/b 1.2 cm

longitudinal incision thru fistula, sharp dissection, excision of 1 cm fistula tract, tensionfree longitudinal urethra closu re by 1x continuous serafit, bilateral fixation of scarred pcf onto para-euo atf by 1x serafit each side (at R closed; at L open), euo/b 1.5 cm, **no** urine thru euo on rest/cough/ pressure, triple fixation of foley ch 18 with longitudinal avw adaptation check on hemo stasis; free urine flow, euo/bw 14 cm, good anterior eleva tion, euo/b 1.5 cm **though nicely healed now still previous mutilation** normal bladder capacity (longitudinal diameter 14-1.5 = 12.5 cm) poor position of UV-junction **fixed against** caudad third of symphysis normal-width 1.5 cm medium-quality urethra_euo in anatomic position



pt 295	kano anterior tra	auma		mdg	vvf 073
s u-b (kano)		female	19 yr		20.09.11
surgeon:	dr idris suleiman abubakar				
assistant:	aisha shehu				
diagnosis:	PII (1 alive), \pm 3 cm 0 urethrovesicovaginal fistula type IIAa , leaking urine for 9 mth which started immediately following obstructed labor for 4 days, in hospital (3 days) rano sb male, married 6 yr ago pre(menarche 1 mth later), not living with husband, normal menstruation, drop foot R (grade) and L (grade), no rvf, no yankan gishiri, no eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix fixed midline, operated 1x (laure) euo/f 3 cm, f/c 0 cm, i/v 11 cm 146 cm				
operation:	uvvf-repair				
duration:	45 min	h	ealing 75%	contin	nence 85%
anesthesia:	spinal L4/L5 with 3 ml bupivacai	ne 0.5%			

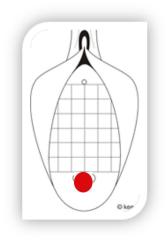
episiotomy R, ureters **not** identified, incision at fistula edge, sharp dissection, tensionfree longitudinal bladder_urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 10 cm, good anterior elevation, euo/b 3 cm

normal bladder capacity (longitudinal diameter 10-3 = 7 cm) good position of uv-junction **against** middle third of symphysis normal-width 3 cm good-quality urethra_euo in anatomic position



pt 296	kano anterior + iatroge	nic trauma		mdg	vvf 074
z I k-n (kano	city)	female	23 yr		20.09.11
surgeon:	dr idris suleiman abubabar				
assistant:	naomi				
diagnosis:	PIII (2 alive), <u>+</u> 1 cm 0 tah-cs-vesicovaginal fistula type I at midline, leasing urine for 52 days which started immediately following tah-cs sheir jiddah hospital bco obstructed last labor for 1 day, sb male, married 10 ago post(menarche 2 mth earlier), <u>still</u> living with husband, no menstrution, drop foot R (grade 4) and L (grade 4), no rvf, no yankan gishiri, reclampsia; normal ap diameter/pubic arch 85°, ar post, cervix remnar fixed midline euo/f 7cm, f/°c° 0 cm, i/v 12 cm			-cs sheikh rried 10 yr menstrua gishiri, no	
operation:	tah-cs-vvf-repair				
duration:	45 min	healin	g 85%	contin	ence 85%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%			

episiotomy R, incision at fistula edge, sharp dissection, tension-free transverse bladder closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/ pressure, foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemo stasis, skin closure; free urine flow, euo/bw 15 cm, good anterior elevation, euo/b 3 cm normal bladder capacity (longitudinal diameter 14-3 = 11 cm) good position of uv-junction **against** middle third of symphysis normal-width 3 cm good-quality urethra_euo in anatomic position



pt 297 pt		no I m trauma		/589/626/705 /3827/./4155
z a z (kano d	city)	female	36 yr	21.09.11
surgeon:	kees waaldijk			
assistant:	binta musa			
diagnosis:	Dinta musaPVII (4 alive), residual ± 2 cm 0 proximal rectovaginal fistula fixed to midline sacrum with circmferential defect/closed distal loop type Ic following multiple repairs 26.9.06 21.07.09, still living with husband, normal menstruation, drop foot R (grade 4-5 against 3-4) and L (grade 4- 5 against 3), no yankan gishiri; normal AP diameter/pubic arch 85°, AR pos, major pc_ic muscle loss, empty pelvis uvvf healed with stress I-II which constitutes no problem to her she insists on rvf-repair since that is her problem I/F 12 cm, i/v 12 cm			

- operation: wide opening up of closed distal loop
- duration: 10 min (extensive teaching)
- anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

RE reveals that distal loop is closed

sharp/blunt **wide** opening at proximal closed distal loop, check on hemostasis since heavy stool contamination fasigyn/chloramphenicol + iv fluids

for re-evaluation and possible vaginal repair in 2-3 weeks: distal rectum to posterior cervix closure so that cervix os still ends into vagina

cervix fixed midline and os/canal identified

pt 298	kano		mdg	vvf 075	
h y k (kano)		female	43 yr		21.09.11
surgeon:	dr idris suleiman abubakar				
assistant:	aisha shehu				
diagnosis:	PX (7 alive), total post repair intrinsic-stress grade III, leaking urine whilst lying/sitting/standing/walking + "spontaneous" miction for 1 yr that started immediately following last twin labor for 1 day, 1 <u>live</u> male in kura and 1 <u>live</u> male mmsh, married 28 yr ago post(menarche 2 yr earlier), <u>still</u> living with husband, no menstruation, no drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix mobile euo/bw 13 cm, poor elevation, euo/b 0.6 cm, i/v cm				hat started kura and 1 , <u>still</u> living (grade 5),
operation:	bilateral fixation of pcf				
duration:	30 min	heal	ing 85%	contin	ience 85%
anesthesia:	spinal L4/L5 with 3 ml bupivacaine 0.5%				

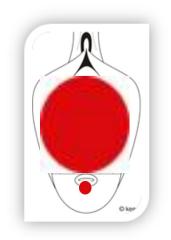
transverse incision thru repair scar, sharp dissection, bilateral fixation of pc fascia onto paraurethra atf by 3x serafit each side, euo/b 1.6 cm, **no** urine thru euo on rest/cough/ pressure, foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 1.6 cm normal bladder capacity (longitudinal diameter 13-1.6 = 11.5 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 1.5 cm medium-quality urethra_euo in anatomic position

pt 299	kano		mdg	vvf 076	
r I k (kano)		female	24 yr		22.09.11
surgeon:	dr idris suleiman abubakar				
assistant:	aisha sheu				
diagnosis:	PI (0 alive), post IIAb intrinsic-stress incontinence grade II, leaking urine whilst standing/walking following successful uvvf/rvf-repair (mmsh) leaking urine for 1 yr which started immediately following cs mmsh bco obstructed twin labor for 7 days, sb ?? twins, married 3 yr ago post(menarche 8 yr earlier), not living with husband, normal menstruation, drop foot R (grade 4) and L (grade 4), rvf healed , no yankan gishiri, no eclampsia; ap diameter/pubic arch, ar pos, cervix euo/bw 11 cm, moderate elevation, euo/b 0.4 cm 157 cm				sh) leaking obstructed arche 8 yr ot R (grade mpsia; ap
operation:	pcf fixation				
duration:	30 min	healir	ng 95%	contir	nence 85%
anesthesia:	spinal L4/L5 with 3 ml bupivacai	ne 0.5%			

transverse incision thru repair scar, sharp dissection, bilateral fixation of pc fascia onto paraurethra atf by 2x serafit each side, euo/b 2 cm, **no** urine thru suture euo on rest/ cough/pressure, foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 2 cm normal bladder capacity (longitudinal diameter 11-2 = 9 cm) acceptable position of uv-junction **against** middle/caudad third of symphysis normal-width 2 cm medium-quality urethra_euo in anatomic position

pt 300	kano operabale? extensive circumf?	erential obs		ndg vvf 077 I ma
a a g-d (kan	o)	female	15 yr	22.09.11
surgeon:	dr amir imam yola			
assistant:	binta musa			
diagnosis:	PI (0 alive), extensive <u>+</u> cm 0 urethrovesicovaginal fistula type IIBb proximal 2 cm 0 rectovaginal fistula type Ib, leaking urine/passinmg stool pv for 6 mth for which started immediately following obstructed labor for days days, in hospital (2 days) sb male, married 1.5 yr ago pre(menarche 2 mth later), not living with husband, no menstruation, drop foot R (grade 1) and L (grade 3), no yankan gishiri, eclampsia yes; ?ap diameter?/pubi arch 85°, ar pos, cervix fixed, proximal lpl stricture, severe stenosis euo/f 0 cm, f/c 0 cm, i/v 6 cm			
operation:	assessment			
duration:	10 min	heali	ing	continence
anesthesia:	spinal L4/L5 with 3 ml bupivacair	าе 0.5%		

extensive 4 cm 0 uvvf from "euo" to cervix with circumferential defect, direct longitudinal bladder diameter 3 cm, total avw loss, 2 cm proximal rvf fixed onto cervix is this **??operable??** better refer to chief consultant



pt 301	kano			mdg	vvf 078
h y r (kano)		female	15 yr	:	22.09.11
surgeon:	dr idris suleiman abubakaı	r			
assistant:	binta musa				
diagnosis:	PI (0 alive), <u>+</u> cm 0 urethrovesicovaginal fistula type , leaking urine for 6 mth which started immediately following obstructed labor for 3 days, in hospital sb male, married 2 yr ago pre(menarche 2 mth later), not living with husband, no menstruation, drop foot R (grade 2) and L (grade 5), no rvf, no yankan gishiri, no eclampsia; ap diameter/pubic arch, ar pos, cervix , severe vagina stenosis/shortening euo/f cm, f/c cm, i/v cm				days, in not living de 5), no
operation:	assessment				
duration:	5 min	healing	contir	nence	
anesthesia:	spinal L4/L5 with 3 ml bup	ivacaine 0.5%			

vagina admits one finger with difficulty, severe scarring, everything fixed better refer to chief consultant



RR preanesthesia: 120/70 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 302	kano	mdg	vvf 079/4336
pt	post IIAb delivery		vvf 807
pt	third obstetric leakage		vvf 1165/1617
f m d (kano city)	female	32 yr	23.09.11

dr idris suleiman abubakar surgeon:

assistant: aisha shehu

PVII (0 alive), still post IIAb delivery total urine intrinsic stress incontinen diagnosis: ce following pcf fixation 24.06.09, leaking urine whilst lying/sit ting/stand ing/walking (no spontaneous miction), still living with husband, normal menstruation, no (h/o) drop foot R (grade 5) and L (grade 5), RVF healed, no yankan gishiri, no eclampsia; normal AP diameter/narrow pubic arch 70°, AR pos, major bilateral atf/atl + pc io ilc iscm loss, empty pelvis, lpl stricture, obesity +++ EUO/C 4 cm open urethra euo in "anatomic" position EUO/BW 16 cm, poor elevation, EUO/B 0.6 cm, i/v 10 cm 158.0 cm

operation: paraurethra_euo fixation of pc fascia last resort final duration: 20 min

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision at 1 cm from euo thru repair scar, sharp dissection, bilateral distal fixation of poor-quality proximal pcf onto para-euo atf/symphysis by 2x serafit each side, now euo/b 1.6 cm, no urine thru euo on rest/cough/pressure, foley ch 18, trans verse avw adaptation by 2x everting sedralon, check on hemostasis; free urine flow, euo/bw 16 cm, good anterior elevation, euo/b 1.6 cm **increased** bladder capacity (longitudinal diameter 16-1.6 = 14.5 cm) poor position of UV-junction against caudad third of symphysis

normal-width 1.5 cm poor-quality urethra_euo in anatomic position

RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

healing 95% continence 50%

pt 303		kano	n	ndg vvf 080
f u s t (kano	city)	female	21 yr	23.09.11
surgeon:	dr idris suleiman abubakar			
assistant:	aisha shehu			
diagnosis:	PI (0 alive), post IIAb total urine whilst lying/sitting/sta 2x repair (laure), married 4 with husband, normal mens rvf, no yankan gishiri, no e pos, lpl stricture euo/bw 16 cm, poor elevat	nding/walking + sp yr ago post(mena struation, drop foot eclampsia; ap diar	ontaneous arche 4 yr e t R (grade) a neter/narro	miction following arlier), <u>still</u> living and L (grade), no

operation: pcf fixation

duration: 30 min healing 95% continence 60%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

bilateral severing of lpl stricture, transverse incision thru repair scar, sharp dissection, bilateral fixation of pcf onto paraurethra atf by serafit, euo/b 1.6 cm, **no** urine thru euo on rest but \pm on cough, foley ch 18, transverse avw adaptation by 2x everting seralon, check hemostasis; free urine flow, euo/bw 16 cm, good anterior elevation, euo/b 1.6 cm increased bladder capacity (longitudinal diameter 16-1.6 = 14.5 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 1.5 cm poor-quality urethra_euo in anatomic position

pt 304 pt 305	katsina anterior + cut-thru trauma			vvf 8173 rvf 1035
r a f (katsina)	female	21 yr	17.10.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PIV (1 alive), <u>+</u> 2 cm 0 ur bladder base prolapse, s rectum trauma, leaking u started immediately follo day) sb male, married 8 with husband, no menstr no yankan gishiri, no h/o 90°, ar pos, cervix mobile euo/f 3.5 cm, f/c 0 cm, a	phincter ani rupture w urine/stool_flatus inco wing obstructed last l yr ago post(menarch uation, drop foot R (g eclampsia; normal ap e, no s/o operation	vith 2.5 cm lo ontinence fo abor for 2 d ne 1 mth eau grade 4-5) a	ongitudinal ano or 4 mth which ays, in hosp (1 rlier), <u>still</u> living nd L (grade 5),

operation: ureters + uvvf-repair + anorectum/sphincter ani/perineal body repair

duration: 60 min (**step-by-step teaching** healing/continence **both** 95%

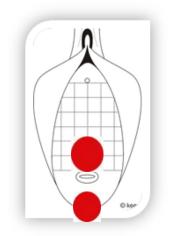
anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

bilateral ureter catheterization for 20 cm, incision at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** uri ne thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw/cervix adaptation by 2x everting seralon,; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.8 cm

normal bladder capacity (longitudinal diameter 12-1.8 = 10 cm)

acceptable position of uv-junction **against** middle/caudad third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position

incision at pvw edge with freshening of sphincter ani ends, minimal sharp dissection, <u>longitudinal</u> anorectum closure with adaptation_rhaphy of internal sphincter over cm up to anocutaneous junction (with repositioning of anterior anus) by double layer of inverting interrupted/continuous serafit, inner ring of external sphincter adapted, end-toend external sphincter ani reconstruction by 2x serafit, perineal body repair with (in)direct re-union of transversus perinei muscles and (in)direct posterior re-union of bulbocavernosus muscles by 2x serafit, perineum well adapted with anus in anatomic position, check on hemostasis



pt 305 pt 304	katsina anterior + cut-thru trauma			rvf 1035 vvf 8173
r a f (katsina)	female	21 yr	17.10.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PIV (1 alive), <u>+</u> 2 cm 0 urethrow bladder base prolapse, sphince rectum trauma, leaking urine/s started immediately following of day) sb male, married 8 yr ag with husband, no menstruation no yankan gishiri, no h/o eclam 90°, ar pos, cervix mobile, no s euo/f 3.5 cm, f/c 0 cm, a/f 0 cm	ter ani rupture v stool_flatus inc obstructed last o post(menarc n, drop foot R (psia; normal a s/o operation	with 2.5 cm lo continence fo labor for 2 d he 1 mth ear grade 4-5) a	ongitudinal ano or 4 mth which ays, in hosp (1 flier), <u>still</u> living nd L (grade 5),

operation: ureters + uvvf-repair + anorectum/sphincter ani/perineal body repair

duration: 60 min (**step-by-step teaching** healing/continence **both** 95%

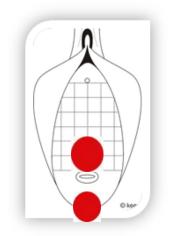
anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

bilateral ureter catheterization for 20 cm, incision at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** uri ne thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw/cervix adaptation by 2x everting seralon,; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.8 cm

normal bladder capacity (longitudinal diameter 12-1.8 = 10 cm)

acceptable position of uv-junction **against** middle/caudad third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position

incision at pvw edge with freshening of sphincter ani ends, minimal sharp dissection, <u>longitudinal</u> anorectum closure with adaptation_rhaphy of internal sphincter over cm up to anocutaneous junction (with repositioning of anterior anus) by double layer of inverting interrupted/continuous serafit, inner ring of external sphincter adapted, end-toend external sphincter ani reconstruction by 2x serafit, perineal body repair with (in)direct re-union of transversus perinei muscles and (in)direct posterior re-union of bulbocavernosus muscles by 2x serafit, perineum well adapted with anus in anatomic position, check on hemostasis



pt 306 katsina anteriobilateral + iatrogenic trauma				
r s k (gombe)	female	20 yr	17.10.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PI (0 alive), \pm 0.2 cm 0 lungu-lingu IIAb, leaking urine for 5 yr which obstructed labor for 4 days, sb n mth later), not living with husbar foot for 3 mth R (grade 5) and L	h started imm nale, married nd, normal m	nediately followi 7 yr ago pre(m enstruation, bila	ing cs bco lenarche 2 ateral drop

eclampsia; normal ap diameter/pubic arch 85°, ar pos, bilateral atf/atl + pc_ilc_iscm loss, cervix fixed/moving, operated 9.1.11 (b/r_id) euo/f 2/3 cm, f/c 2/1 cm, ab/au xx cm, i/v 10 cm 144,5 cm

operation: uvvf-repair 2x

duration: 40 min healing 85% continence 85%

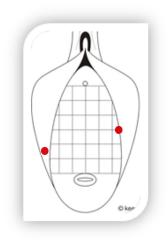
anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

re-episiotomy I, large transverse incision thru fistulas/repair scar edge, sharp dissection, excision of scar tissue +, the only thing which can be done tension-free bilateral suturing bladder over fistula onto pubic bone by single layer of serafit, **no** urine thru suture line/ euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.6 cm

normal bladder capacity (longitudinal diameter 12-2.6 = 9.5 cm)

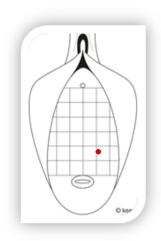
good position of uv-junction fixed against middle third of symphysis

deformed 2.5 cm medium-quality urethra_euo posteriorly pulled inside by fixed cervix the **problem:** scar tissue + pull by fixed/moving cervix



pt 307	katsina vvf 8175/806 total circumferential + iatrogenic trauma			vvf 8175/8066
b f a (ondo)		female	25 yr	29.05.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PI (0 alive), residual 0.1 cm urethrovesicovaginal fistula type IIAb slightly at L as good result of primary suturing 29.5.11, <u>still</u> living with husband, normal menstruation, drop foot R (grade 5) and L (grade 5) nor mal ap diameter/pubic arch 85°, ar pos, bilateral atf/atl + pc_ilc_iscm loss, cervix fixed midline, operated 2x (fmc owo) no longer visible mutilation euo/f 2.5 cm, f/c 1 cm, ab/au 1 cm, i/v 10 cm 158.0 cm			
operation:	uvvf-repair + bilateral pcf refixation	on		
duration:	30 min	heali	ng 85% co	ontinence 85%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%		

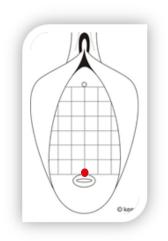
re-episiotomy L, large transverse incision thru fistula/repair scar, minimal sharp dissec tion, excision if scar tissue +, since tissues "mobile" transverse pc fascia repair/bilateral refixation onto paraurethra_euo atf by 2x serafit each side with transverse fistula closu re by single layer iof inverting serafit, **no** urine thru suture line but + thru euo on cough, triple fixation of foley ch 18, check on hemostasis, skin closure, pack; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.6 cm normal bladder capacity (longitudinal diameter 12-2.6 = 9.5 cm) good position of uv-junction **fixed against** middle third of symphysis slight traumatized 2 cm medium-quality urethra_euo in anatomic position the **problem: mutilation + pull by fixed cervix good chance of total recovery**



RR preanesthesia: 200/120 mm Hg 5': 170/110 10': 160/100 postoperation: 150/90

pt 308 katsina mdg vvf 081 anterior + iatrogenic trauma					
h a g-f (katsi	na)	female 16	6 yr	17.10.11	
surgeon:	dr halliru idris				
assistant:	gambo lawal				
diagnosis: PI, minute < 0.1 cm 0 vesicovaginal fistula type I midline, leaking urine 1 yr which started immediately following cs bco obstructed labor for 1 da sb male, married 3 yr ago post(menarche 3 mth earlier), not living w husband, normal menstruation, drop foot R (grade 5) and L (grade 5), rvf, no yankan gishiri, no eclampsia; normal ap diameter/pubic arch 8 ar pos, cervix fixed midline euo/f 6 cm, f/c 0 cm, i/v cm 151.0 c			ed labor for 1 day, r), not living with id L (grade 5), no		
operation:	vvf-repair				
duration:	30 min	healing 9	95%	continence 95%	
anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%					

transverse incision thru fistula, sharp dissection, tension-free transverse bladder closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, foley ch 18, transverse avw/cervix adaptation by 2x everting seralon, hemostasis check, skin closure; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 2.6 cm normal bladder capacity (longitudinal diameter 13-2.6 = 10.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 120/70 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 309 katsina mdg vvf 08 anterior trauma				
u I k s (kats	ina)	female	31 yr	17.10.11
surgeon:	dr halliru idris			
assistant:	gambo lawal			
diagnosis:	PVII (6 alive), <u>+</u> 0.5 cm 0 urethrough leaking urine for 4 mth which star labor for 1 day, in hospital sb ma mth earlier), <u>still</u> living with husba 5) and L (grade 5), no rvf, no yan meter/pubic arch 85°, ar pos, ce euo/f 7 cm, f/c 0 cm, i/v cm	rted immediate ale, married 1 and, no menst akan gishiri, no	ely following ob 8 yr ago post(i truation, drop fo	structed last menarche 3 oot R (grade

operation: vvf-repair

duration: 30 min healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

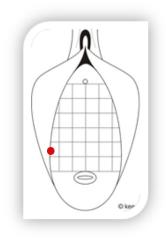
transverse incision at fistula edge, sharp dissection, tension-free transverse bladder closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/ pressure, triple fixation of foley ch 18, transverse avw/cervix adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, moderate anterior eleva tion, euo/b 2.5 cm

normal bladder capacity (longitudinal diameter 12-2.5 = 9.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position



pt 310 katsina total circumferential trauma				
u I a c city		female	17 yr	18.10.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	s: PI (0 alive), <u>+</u> 0.2 cm 0 urethrovesicovaginal fistula R lungu with circumfer ential defect type IIAb within 5x1 cm transverse pcf defect, leaking urine for 2 yr which started immediately following obstructed labor for 2 days, at home sb male, married 4 yr ago post(menarche 2 mth earlier), not living with husband, normal menstruation, bilateral drop for 1 mth foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no eclampsia; normsal ap dia meter/pubic arch 85°, ar pos, bilateral atf/atl + pc_ilc_iscm loss, cervix fixed midline, proximal lpl stricture, operated 27.04.10 (b/r_id) euo/f 3 cm, f/c 1 cm, ab/au xx cm, i/v 8 cm			
operation:	transverse pcf repair/bilateral ref	ixation + uvvf	-repair	
duration:	40 min	heali	ng 85% contine	nce 85%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%		

re-episiotomy, large transverse incision thru fistula/repair scar, sharp dissection, trans verse tension-free pc fascia repair/bilateral fixation onto paraurethra_euo atf/symphysis by 2x serafit each side with transverse fistula closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, trans verse avw/avw_cervix adaptation by 2x everting seralon, check on hemostasis, epi clo sure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.2 cm normal bladder capacity (longitudinal diameter 12-2.2 = 10 cm) good position of uv-junction **fixed against** middle third of symphysis normal-width 2.2 cm poor-quality urethra_euo in anatomic position the **problem: fibrosis, poor-quality tissue + pull by fixed cervix**



pt 311 pt	katsina is this the same patient; see name/history			vvf 8177 vvf 7201
r z m m (rép r	niger)	female	33 yr	18.10.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	: PVII (5 alive), total post IIAb intrinsic_stress incontinence grade III, leak ing urine whilst lying/sitting/standing/walking + spontaneous miction for 5 mth following a period of fever/pain, married 20 yr ago post(menarche 1 mth earlier), <u>still</u> living with husband, normal menstruation, drop foot R (grade 5) and L (grade 4), no rvf,, no yankan gishiri, no eclampsia; normal ap diameter/pubic arch 85°, ar pos, bilateral atf/atl + pc_ilc_iscm loss, cervix mobile, definitely circum repair, cystocele ++ euo/bw 13 cm, poor elevation, euo/b 0.3 cm, i/v 12 cm 155.0 cm			
operation:	urethralization by longitudinal fas	scia repair/bil	ateral fixation	
duration:	30 min	heal	ing 95% contine	ence 90%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse curved incision at 1 cm from euo thru repair scar, sharp dissection, median 5x2 cm fascia defect from cervix up to 1 cm to euo, longitudinal repair of good-quality fascia at 1-5 cm from euo by single layer of serafit, already continence after 2 sutures, bilateral fixation of fascia to para-euo atf by 1x serafit both side, euo/b 1.4 cm, **no** urine thru euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw_pcf/sym physis_avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/b 13 cm, good elastic anterior elevation, euo/b 1.4 cm (**urethralization**) normal bladder capacity (longitudinal diameter 13-1.4 = 11.5 cm) poor position uv-junction **against** caudad third symphysis good fascia plate poor-quality pcm **no longer** cystocele normal-width 1.5 cm medium-quality urethra_euo in anatomic position from all indications this will **normalize under physiologic stress**

pt 312 pt pt	katsina third obstetric fistula anteriobilateral trauma		vvf 8178 vvf 7026 vvf 6695
h u j (katsina)	female	26 yr	18.10.11

- surgeon: kees waaldijk
- assistant: kabir lawal
- diagnosis: PVI (2 alive), **mutilated** <u>+</u> 2.5 cm 0 urethrovesicovaginal fistula type **IIBb** midline/L with circumferential defect, **leaking urine for 74 days** which started immediately following cs bco obstructed last labor for 2 days, sb male, married 13 yr ago pre(menarche 2 mth later), not living with husband, menstruation, drop foot R (grade 5) and L (grade 3), no rvf, no yankan gishiri, no eclampsia; normal ap diameter/borderline pubic arch 80°, ar pos, bilateral atf/atl + pc_ilc_iscm loss, cervix fixed/retracted euo/f 1 cm, f/c 4 cm, ab/au xx cm, i/v 13 cm

operation: ureter L + 4/5 circumferential uvvf-repair + bilateral pcf refixation

duration: 45 min

healing 80% continence 60%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

re-episiotomy L, only L ureter identified/catheterized for 20 cm, incision at fistula edge, sharp 4/5 circumferential dissection, tension-free 4/5 circumferential uvvf-repair by end-to-end vesicourethrostomy by single layer of inverting serafit but bladder tears out at multiple places, bilateral fixation of pc fascia onto paraurethra_euo atf/symphysis by 2x serafit each side, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by **4x (to assist inversion of complicated repair)** everting seralon, hemostasis check, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.2 cm

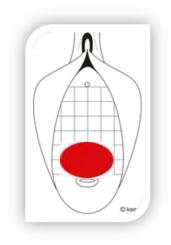
normal bladder capacity (longitudinal diameter 12-1.2 = 11 cm) poor position of uv-junction **fixed against** caudad third of symphysis normal-width 1 cm **poor-quality** urethra_euo in anatomic position



pt 313 katsina vvf 8179 anterior + iatrogenic trauma					
h r b (katsina	a)	female	16 yr	18.10.11	
surgeon:	kees waaldijk				
assistant:	kabir lawal				
diagnosis: PI, <u>+</u> 2.5x2 cm transverse urethrovesicovaginal fistula type IIAa with b der base prolapse, leaking urine for 68 days which started immediat following cs bco obstructed labor for 2 days, sb female, married 3 yr a pre(menarche 1 mth later), not living with husband, no menstruation, du foot R (grade 4-5) and L (grade 5), no rvf, no yankan gishiri, eclamp no; normal ap diameter/pubic arch 85°, ar pos, cervix fixed midline euo/f 3.5 cm, f/c 0 cm, i/v 12 cm 140.0			arted immediately , married 3 yr ago nenstruation, drop gishiri, eclampsia		
operation:	catheterization R ureter + uvvf-re	epair			
duration:	40 min	hea	ling 95%	continence 95%	
anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%					

small episiotomy L, only R ureter identified/catheterized for 20 cm, **no** urine from L, incision at fistula edge, sharp dissection, tension-free transverse bladder_cervix/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/ pressure, triple fixation of foley ch 18, transverse avw/cervix adaptation by 2x everting seralon, henmostasis check, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 3.1 cm

normal bladder capacity (longitudinal diameter 12-3.1 = 9 cm) good position of uv-junction **against** middle third of symphysis "normal-width" 3 cm good-quality urethra_euo in anatomic position



h i u (rép niger)

female

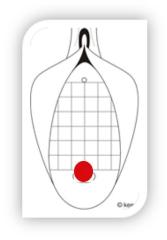
16 yr

surgeon: dr halliru idris

assistant: gambo lawal

- diagnosis: PI (0 alive), <u>+</u> 1 cm 0 cs-vesicocervicovaginal fistula type I midline, **leak ing urine for 75 days** which started immediately following cs bco obstructed labor for 3 days (2 days at home), sb male, married 3 yr ago pre(menarche 1 mth later), not living with husband, no menstruation, drop foot R (grade 4) and L (grade 4), no rvf, no yankan gishiri, no eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix fixed midline euo/f 6 cm, f/c 1 cm, i/v cm 148.5 cm
- operation: cs-vcvf-repair
- duration: 30 min healing 90% continence 95%
- anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru/at fistula edge, sharp dissection, tension-free transverse blad der closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/ cough/pressure, foley ch 18, transverse avw/cervix adaptation by 2x everting seralon, hemostasis check; free urine flow, euo/bw 12 cm, anterior elevation, euo/b 2.6 cm normal bladder capacity (longitudinal diameter 12-2.6 = 9.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.6 cm good-quality urethra_euo in anatomic position

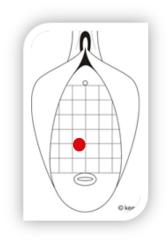


pt 315 katsina mdg vv anterior trauma				
s s y (katsina	a)	female	19 yr	18.10.11
surgeon:	halliru idris			
assistant:	gambo lawal			
diagnosis:	PII (1 alive), \pm 0.5 cm 0 urethrove leaking urine for 46 day which s last labor for 1 day, at home <u>live</u> ago post(menarche 5 mth earlier tion, no drop foot R (grade 5) an no eclampsia; normal ap diamete	tarted immec male who <u>die</u>), not living w d L (grade 5)	liately following <u>d</u> 5 days later, m vith husband, nc , no rvf, no yanl	obstructed narried 6 yr o menstrua kan gishiri,

- operation: uvvf-repair
- duration: 25 min healing 95% continence 95%
- anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

euo/f 4 cm, f/c 2 cm, i/v cm

transverse incision thru/at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, foley ch 18, transverse avw adaptation by 2x everting seralon, hemostasis check; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 2 cm normal bladder capacity (longitudinal diameter 13-2 = 11 cm) acceptable position of uv-junction **against** middle/caudad third symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 140/90 mm Hg 5': 130/80 10': 120/80 postoperation: 120/70

146.5 cm

18.10.11

l a w (katsina) female 34 yr

surgeon: dr kabiru abubakar

assistant: gambo lawal

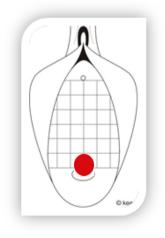
- diagnosis: PX (7 alive), <u>+</u> 1.5 cm 0 cs-vesicocervicovaginal fistula type I at midline, leaking urine for 68 days which started immediately following cs bco obstructed labor for 3 days (2 days at home), sb male, married 22 yr ago pre(menarche 1 yr later), <u>still</u> living with husband, no menstruation, drop foot R (grade 3-4) and L (grade 4), no rvf, no yankan gishiri, eclampsia no; normal ap diameter/pubic arch 85°, ar pos, cervix fixed midline euo/f 6 cm, f/c 0 cm, i/v cm 149.0 cm
- operation: cs-vcvf-repair

duration: 40 min healing 90% continence 90%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

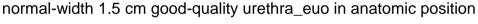
median episiotomy, incision at fistula edge, sharp dissection, tension-free transverse bladder closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, foley ch 18, transverse avw/cervix adaptation by 2x everting seralon, hemostasis check, skin closure; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 2.5 cm

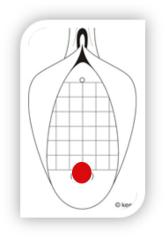
normal bladder capacity (longitudinal diameter 11-2.5 = 8.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position



- diagnosis: PX (4 alive), intracervical <u>+</u> 2 cm 0 urethrovesicovaginal fistula type I with anterior cervix loss, leaking urine for 3 mth which started immediately following cs bco obstructed last labor for 1 day, <u>live</u> female, married 17 yr ago post(menarche 1 mth earlier), <u>still</u> living at husband, no menstruation, drop foot R (grade 4-5) and L (grade 4-5), no rvf, no yankan gishiri, no eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix fixed midline euo/f 6 cm, f/c 0 cm, i/v cm 145.0 cm
- operation: complicated cs-vcvf-repair
- duration: 60 min healing 85% continence 95%
- anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

median episiotomy, incision at fistula edge, sharp dissection, tension-free transverse <u>longitudinal</u> bladder closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw/cervix adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.5 cm normal bladder capacity (longitudinal diameter 12-1.5 = 10.5 cm) poor position of uv-junction **against** caudad third of symphysis





pt 318 pt 319	katsina total circumferential + severe iatrogenic		vvf 8180 rvf 1036	
m h k (katsina)		female	15 yr	19.10.11

surgeon: kees waaldijk

assistant: kabir lawal

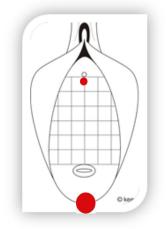
diagnosis: PI (0 alive), <u>+</u> 0.3 cm 0 urethrovaginal fistula with circumferential defect type **IIA/Bb**, partially "healed" sphincter ani type **IIb** with **mutilated** 1.5 cm long anorectum trauma, leaking urine/stool_flatus incontinence for 5 mth which started immediately following obstructed labor of 2 days, in hospital sb male, married 2 yr ago post(menarche 2 mth earlier), not living with husband, no menstruation, drop foot R (grade 3-4) and L (grade 3-4), no yankan gish iri, eclampsia yes; normal ap diameter/pubic arch 85°, ar pos, bilateral atf/atl + pc_ilc_iscm loss, cervix fixed/retracted, operated 2x (maiduguri_ lagos), **objective** intrinsic_stress **++**, cystocele ++ euo/f 0.3 cm, f/c 6 cm, ab/au xx cm, a/f 0 cm, i/v 12 cm

operation: uvvf-repair + longitudinal fascia repair + anorectum/sphincter/pb repair

duration: 60 min healing **both** 85% continence **u**_s **85**_95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

severing poorly "healed" sphincter, transverse incision at 2.5 cm from euo with longitudi nal midline extension up to uvf, actually uvf runs into euo, sharp dissection, 5x1.5 cm median fascia defect from cervix up to 1 cm to euo, longitudinal repair of scarred fascia/"urethra" at 0-5 cm from euo by single layer of serafit, euo/b 2.2 cm, no urine thru suture line/euo on rest/cough/pressure, fixation to paraurethra atf intact, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.2 cm pat not cooperative, stool contamination normal bladder capacity (longitudinal diameter 12-2.2 = 10 cm) no cystocele good position of uv-junction fixed against middle third of symphysis normal-width 2 cm **poor-guality** urethra euo in anatomic position incision at pvw edge with freshening of sphincter ani ends, minimal sharp dissection, longitudinal poor-guality anorectum closure with adaptation rhaphy of internal sphincter over 2 cm up to anocutaneous junction (with repositioning of anterior anus) by double layer of inverting interrupted/continuous serafit, inner ring of external sphincter adapted, end-to-end external sphincter ani reconstruction by 2x serafit, perineal body repair with (in)direct re-union of transversus perinei muscles and (in)direct posterior re-union of bulbocavernosus muscles by 2x serafit, perineum well adapted with anus in anatomic position, check on hemostasis the problem: iatrogenic mutilation



RR preanesthesia: 120/70 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 319 pt 318	katsina total circumferential + severe iatrogenic		rvf 1036 vvf 8180	
m h k (katsina)		female	15 yr	19.10.11

surgeon: kees waaldijk

assistant: kabir lawal

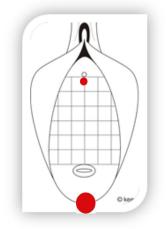
diagnosis: PI (0 alive), <u>+</u> 0.3 cm 0 urethrovaginal fistula with circumferential defect type **IIA/Bb**, partially "healed" sphincter ani type **IIb** with **mutilated** 1.5 cm long anorectum trauma, leaking urine/stool_flatus incontinence for 5 mth which started immediately following obstructed labor of 2 days, in hospital sb male, married 2 yr ago post(menarche 2 mth earlier), not living with husband, no menstruation, drop foot R (grade 3-4) and L (grade 3-4), no yankan gish iri, eclampsia yes; normal ap diameter/pubic arch 85°, ar pos, bilateral atf/atl + pc_ilc_iscm loss, cervix fixed/retracted, operated 2x (maiduguri_ lagos), **objective** intrinsic_stress **++**, cystocele ++ euo/f 0.3 cm, f/c 6 cm, ab/au xx cm, a/f 0 cm, i/v 12 cm

operation: uvvf-repair + longitudinal fascia repair + anorectum/sphincter/pb repair

duration: 60 min healing **both** 85% continence **u**_s **85**_95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

severing poorly "healed" sphincter, transverse incision at 2.5 cm from euo with longitudi nal midline extension up to uvf, actually uvf runs into euo, sharp dissection, 5x1.5 cm median fascia defect from cervix up to 1 cm to euo, longitudinal repair of scarred fascia/"urethra" at 0-5 cm from euo by single layer of serafit, euo/b 2.2 cm, no urine thru suture line/euo on rest/cough/pressure, fixation to paraurethra atf intact, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.2 cm pat not cooperative, stool contamination normal bladder capacity (longitudinal diameter 12-2.2 = 10 cm) no cystocele good position of uv-junction fixed against middle third of symphysis normal-width 2 cm **poor-guality** urethra euo in anatomic position incision at pvw edge with freshening of sphincter ani ends, minimal sharp dissection, longitudinal poor-guality anorectum closure with adaptation rhaphy of internal sphincter over 2 cm up to anocutaneous junction (with repositioning of anterior anus) by double layer of inverting interrupted/continuous serafit, inner ring of external sphincter adapted, end-to-end external sphincter ani reconstruction by 2x serafit, perineal body repair with (in)direct re-union of transversus perinei muscles and (in)direct posterior re-union of bulbocavernosus muscles by 2x serafit, perineum well adapted with anus in anatomic position, check on hemostasis the problem: iatrogenic mutilation



RR preanesthesia: 120/70 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

katsina anteriobilateral trauma

35 yr

surgeon: kees waaldijk

assistant: kabir lawal

diagnosis: PVI (2 alive), <u>+</u> 2 cm 0 urethrovesicovaginal fistula type **IIAb** fixed onto cephalad third of symphysis with circumferential defect within 7x2 cm pcf defect, leaking urine of 20 yr that started immediately following obstructed <u>first</u> labor for 4 days, in hospital sb female, married 21 yr ago post(menar che 8 mth earlier), <u>still</u> living with husband, normal menstruation, bilateral drop foot for 3 mth R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no h/o eclampsia; nor mal ap diameter/pubic arch 85°, ar pos, bilateral atf/atl + pc_ilc_iscm loss, cervix retracted/fixed (cs for another delivery) euo/f 3 cm, f/c 6 cm, ab/au 1 cm, i/v **19** cm obesity ++ 158.0 cm

operation: **complicated** 4/5 circumferential uvvf-repair + bilateral pcf refixation

duration: 50 min (**step-by-step teaching**) healing 85% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

small episiotomy L, large transverse incision thru/at fistula/pcf defect, sharp 4/5 circum ferential dissection, tension-free 4/5 circumferential uvvf-repair by end-to-end vesicoure throstomy by single layer of inverting serafit, bilateral fixation of pc fascia to paraurethra

_euo atf/symphysis by 2x serafit each side, **no** urine thru suture line/euo on rest/cough/ pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 13 cm, good anterior eleva tion, euo/b 3.2 cm **?never?** operated

normal bladder capacity (longitudinal diameter 13-3.2 = 10 cm) good position of uv-junction **fixed against** middle third of symphysis normal-width 3 cm good-quality urethra_euo in anatomic position



pt 321	katsina post IIBa repair; n i			8182/8108
r b m (katsin	a)	female	13 yr	19.10.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	P0, post IIBa total urine intrinsic_stress incontinence grade III, leaking urine whilst lying/sitting/standing/walking + spontaneous miction following continent urethra reconstruction 14.06, not living at husband, normal men struation; normal ap diameter/pubic arch 90°, ar pos, cervix mobile euo/c 5 cm open urethra_euo posteriorly drawn inside euo/bw 12 cm, moderate elevation, euo/b 0.8 cm, i/v 10 cm 164.0 cm			
operation:	paraurethra_euo fixation of pc fa	scia		
duration:	15 min	hea	aling 95% contin	ence 85%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%		

transverse incision at 2 cm from euo thru repair scar, sharp dissection, bilateral distal fixation of good-quality proximal pc fascia onto para-euo at/symphysis by 2x serafit each side with urethra_euo repositioning/stabilization and fascia tightening, now euo/b 1.5 cm, no urine thru euo on rest/cough/pressure, triple fixation of foley ch 18 transver se avw adaptation by 2x everting seralon, hemostasis check; free urine flow, euo/bw 12 cm, good elastic anterior elevation, euo/b 1.5 cm (urethralization) normal bladder capacity (longitudinal diameter 12-1.5 = 10.5 cm) poor position of uv-junction against caudad third of symphysis good fascia plate good-quality pcm normal-width 1.5 cm good-quality urethra_euo in anatomic position

katsina			
anterior trauma			

b m g (katsina) female 14 yr 10.10.11

- diagnosis: PI (0 alive), total urine intrinsic_stress incontinence grade III, **leaking urine whilst lying/sitting/standing/walking + no spontaneous miction for 18 days** which started immediately following obstructed labor for 2 days, in hospital sb male, married 1 yr ago post(menarche 5 mth earlier), not living with husband, no menstruation, drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, eclampsia yes; normal ap diameter/ pubic arch 85°, ar pos **wide open** urethra_euo 155.0 cm
- 10.10.11 foley ch 18; free urine flow, euo/bw 16cm, poor anterior elevation and euo/b 0.5 cm increased bladder capacity (longitudinal diameter 16-0.5 = 15.5 cm, an atonic bladder in healing phase) poor position of uv-junction against caudad third of symphysis wide-open 0.5 cm poor–quality urethra_euo posteriorly drawn inside first catheter, then bladder drill then for re-evaluation
- 19.10.11 not leaking at all



katsina anterior trauma; long-standing atonic bladder

h a k (katsina)	female	17 yr	10.10.11

diagnosis: PI (alive), overflow incontinence due to long-standing atonic bladder, leaking urine for 5 mth which started immediately following obstructed labor for 1 day, in hospital <u>live</u> male, married 3 yr ago post(menarche 1 yr earlier), not living with husband, normal menstruation, drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no eclampsia; normal ap dia meter/pubic arch 85°, ar pos avw bulging, no further visible trauma 170.0 cm

10.10.11 small suprapubic mass, avw bulging into vagina, bladder overdistended (euo/bw 18 cm), poor elevation after draining > 750 ml urine, euo/b 1 cm; foley ch 18; free urine flow,
increased bladder capacity (longitudinal diameter 18-1 = 17 cm, atonic bladder)
poor position of uv-junction against caudad third of symphysis open 1 cm medium–quality urethra_euo posteriorly drawn inside

^{19.10.11} not leaking at all

pt 324 pt	5			vvf 087 vvf 8064
s I k (katsina)	female	30 yr	19.10.11
surgeon:	dr halliru idris			
assistant:	gambo lawal			
diagnosis:	PVIII (4 alive), untouched <u>+</u> 1 cm as first stage , leaking urine for 9 cs bco obstructed last labor for pre(menarche 1 yr later), not livin drop foot R (grade 3-4) and L (gra eclampsia; normal ap diameter/p pc_ilc_iscm loss R >> L, cervix "f euo/f 6 cm, f/c 0 cm, i/v 12 cm	mth which sta 1 day, sb fa ng with husba ide 3-4), no ra pubic arch 85	arted immedi emale, marri and, normal vf, no yankar 5°, ar pos, bil	iately following ied 18 yr ago menstruation, gishiri, ho h/o ateral atf/atl +

operation: **complicated** cs-vcvf-repair as **second stage**

duration: 60 min

healing 70% continence 80%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru/at fistula edge, sharp dissection, scar tissue ++, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, foley ch 18, transverse avw/cervix adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 2 cm

normal bladder capacity (longitudinal diameter 11-2 = 9 cm)

acceptable position of uv-junction **against** middle/caudad third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic poition



pt 325 katsina vvf 088 anteriobilateral trauma				
h y m (rép n	iger)	female	15 yr	19.10.11
surgeon:	dr kabiru abubakar			
assistant:	gambo lawal			
diagnosis:	PI (0 alive), $\pm 2 \text{ cm} 0$ urethrovesicovaginal fistula type IIAb with circumfer ential defect, leaking urine for 67 days which started immediately following cs bco obstructed labor for 2 days, sb female, married 2 yr ago pre(menarche 2 mth later), not living with husband, no menstruation, drop foot R (grade 4) and L (grade 4), no rvf, no yankan gishiri, no eclampsia; normal ap diameter/pubic arch 85°, ar pos, bilateral atf/atl + pc_ilc_iscm loss, cervix fixed midline euo/f 2 cm, f/c 4 cm, ab/au 1 cm, i/v 12 cm 148.0 cm			
operation:	circumferential uvvf-repair + bila	teral pcf refix	ation	
duration:	45 min	heal	ing 90% contin	ence 90%
anesthesia:	spinal L4/L5 with 3 ml bupivacai	ne 0.5%		

median episiotomy, transverse incision thru/at fistula edge, sharp circumferential dissec tion, advancement/caudad fixation of anterior bladder onto symphysis/urethra, tensionfree circumferential uvvf-repair by end-to-end vesicourethrostomy by single layer of inverting serafit, bilateral fixation of pc fascia onto paraurethra_euo atf/symphysis by 2x serafit each side, no urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2 cm normal bladder capacity (longitudinal diameter 12-2 = 10 cm) acceptable position of uv-junction fixed against middle/caudad third of symphysis

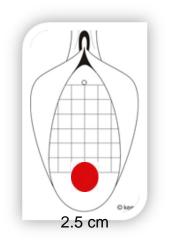
normal-width 2 cm urethra euo in anatomic position



RR preanesthesia: 120/70 mm Hg 5': 110/70 10': 110/70 postoperation: 100/60

pt 326	anterior + iatrogenic trauma				
a I k r b (kats	sina)	female	20 yr	19.10.11	
surgeon:	dr kabiru abubakar				
assistant:	gambo lawal				
diagnosis:	PII (all alive), residual <u>+</u> 2.5 cm 0 tah-cs-vesicocervicovaginal fistula type midline following repair 06.06.11, not living at husband, no menstruation drop foot R (grade 4-5) and L (grade 4), no rvf, no yankan gishir eclampsia yes; normal ap diameter/pubic arch 85°, ar pos, "cervix" fixed euo/f 6 cm, f/"c" 0 cm, i/v 12 cm				
operation:	tah-cs-vcvf-repair				
duration:	45 min	healing	g 85%	continence 90%	
anesthesia:	spinal L4/L5 with 3 ml bupivacaine 0.5%				

re-episiotomy L, transverse incision thru/at fistula edge, sharp dissection, excision of scar tissue ++, tension-free <u>longitudinal</u> bladder closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, foley ch 18, transverse avw/pvw adaptation by 2x everting seralon, check on hemostasis, epi closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.30 cm normal bladder capacity (longitudinal diameter 12-2.3 = 9.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 120/70 mm Hg 5': 120/70 10': 110/70 postoperation: 110/70

pt 327 pt 328	katsina total circumferential defect			
z I d (katsina)	female	26 yr	07.07.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PI (0 alive), total genuine (post III, 2 cm 0 proximal rectovaginal leaking urine/passing stools pv obstructed labor for 3 days, in pre(menarche 1 mth later), not li foot R (grade 5) and L (grade 5), ap diameter/ wide pubic arch 90 bladder herniation thru mediar	fistula midlin for 4 mth tha hospital sb ving with husl no yankan gi 0°, ar pos, bil	e within 4 cm at started imr female, marr band, no men shiri, eclamps ateral atf/atl -	0 pvw defect , nediately after ried 13 yr ago istruation, drop sia yes; normal + pcm trauma,

euo/bw 13cm, cystocele ++, euo/b 1.1 cm, a/f 6 cm, f/c 4 cm, i/v 12 cm

operation: urethralization: longitudinal fascia repair/transverse fixation + rvf-repair

duration: 60 min obesity ++ healing **u**_s **95**_85% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

bilateral re-episiotomy L, transverse curved incision at 1.5 cm from euo thru transverse 5x1 cm pcf defect, sharp dissection, longitudinal 5x2 cm median pcf defect from cervix up to 1.5 cm to euo, longitudinal repair of median fascia defect at 1.5-5 cm from euo by single layer of serafit with normalization of urethra_euo, euo/b 2.3 cm, **no** urine thru euo on rest/cough/pressure, bilateral fixation of fascia onto paraurethra_euo atf by 2x serafit each side, euo/b 2.3 cm, **no** urine thru euo on rest/cough/pressure, triple fixation of foley ch Ch 18, transverse avw adaptation by 2x everting seralon,; free urine flow, euo/b 13 cm, good elastic anterior elevation, euo/b 2.3 cm (**urethralization**)

normal bladder capacity (longitudinal diameter 13-2.3 = 10.5 cm)

good position uv-junction against middle third symphysis

normal-width 2.5 cm good-quality urethra_euo in anatomic position

incision at rvf edge, minimal sharp dissection, at first suture heavy stool contamination throughout, tension-free gtransverse rectum c,losure by double layer of inverting interrupted/continuous serafit, leaving pvw **open**, check on hemostasis, epi's closure fasigyn/chloramphenicol/iv fluids for safety reasons

RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 328 pt 327	katsina total circumfere	rvf 1037 vvf 8183		
z I d (katsina)	female	26 yr	20.10.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PI (0 alive), total genuine (post I III, 2 cm 0 proximal rectovaginal leaking urine/passing stools pv obstructed labor for 3 days, in pre(menarche 1 mth later), not liv foot R (grade 5) and L (grade 5), ap diameter/ wide pubic arch 90	fistula midline for 4 mth tha hospital sb f ving with husb no yankan gis	e within 4 cm 0 p t started immed emale, married band, no menstru shiri, eclampsia	byw defect , diately after 13 yr ago uation, drop yes; normal

bladder herniation thru median fascia defect cervix mobile 158.0 cm euo/bw 13cm, cystocele ++, euo/b 1.1 cm, a/f 6 cm, f/c 4 cm, i/v 12 cm

urethralization: longitudinal fascia repair/transverse fixation + rvf-repair

bilateral re-episiotomy L. transverse curved incision at 1.5 cm from euo thru transverse 5x1 cm pcf defect, sharp dissection, longitudinal 5x2 cm median pcf defect from cervix up to 1.5 cm to euo, longitudinal repair of median fascia defect at 1.5-5 cm from euo by single layer of serafit with normalization of urethra_euo, euo/b 2.3 cm, no urine thru euo on rest/cough/pressure, bilateral fixation of fascia onto paraurethra euo atf by 2x serafit each side, euo/b 2.3 cm, no urine thru euo on rest/cough/pressure, triple fixation of foley ch Ch 18, transverse avw adaptation by 2x everting seralon,; free urine flow, euo/b 13 cm, good elastic anterior elevation, euo/b 2.3 cm (urethralization)

obesity ++

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

operation:

duration:

60 min

normal bladder capacity (longitudinal diameter 13-2.3 = 10.5 cm) good position uv-junction against middle third symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position incision at rvf edge, minimal sharp dissection, at first suture heavy stool contamination throughout, tension-free gtransverse rectum c,losure by double layer of inverting

interrupted/continuous serafit, leaving pvw open, check on hemostasis, epi's closure fasigyn/chloramphenicol/iv fluids for safety reasons

> RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

healing **u** s **95** 85% continence 95%

surgeon: kees waaldijk

assistant: kabir lawal

diagnosis: PIII (all alive), post **IIAa** total urine intrinsic_stress incontinence grade III, leaking urine whilst lying/sitting/standing/walking + "spontaneous" miction following uvvf-repair 3.7.11, <u>still</u> living with husband, normal menstruation, drop foot R (grade 5) and L (grade 5), no rvf, no eclampsia; normal ap diameter/ **wide** pubic arch 95°, ar pos, cervix mobile euo/c 2 cm **open** urethra_euo posteriorly drawn inside due to scarring euo/bw 13 cm, good elevation, euo/b 1.2 cm, i/v 10 cm 156.5 cm

operation: paraurethra_euo fixation of pc fascia

duration:15 minhealing 95% continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision at 2 cm from euo thru repair scar, sharp dissection, excision of scar tissue over urethra ++, bilateral distal fixation of medium–quality proximal pc fascia onto para-euo symphysis by x serafit each side with urethra_euo repositioning/stabilization and fascia tightening, now euo/b 1.2 cm, **no** urine thru euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw/cervix adaptation by 2x everting seralon, hemostasis check; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 1.2 cm normal bladder capacity (longitudinal diameter 13-1.2 = 12 cm) poor position of uv-junction **against** caudad third of symphysis good fascia plate good-quality pcm normal-width 1.2 cm good-quality urethra_euo in anatomic position it will normalize under physiologic stress

pt 330 katsina vvf 8185 anteriobilateral trauma; second obstetric fistula					
a r m (katsin	a)	female	30 yr	20.10.11	
surgeon:	kees waaldijk				
assistant:	kabir lawal				
diagnosis:	 PVII (1 alive), minute < 0.1 cm 0 urethrovesicovaginal fistula midline with circumferential defect type IIAb, leaking urine for 4 yr which started immediately following obstructed last labor of 1 day, in hospital <u>live</u> female, manified 17 yr ago pre(menarche 3 mth later), <u>still</u> living with husband, normal menstruation, drop foot R (grade 4) and L (grade 4), no rvf, no yankan gishiri, no eclampsia; normal ap diameter/pubic arch 85°, ar pos, bilateral atf/atl + pc_io_ilc_iscm loss, cervix mobile, repair delivery I (b/r_ke) transverse 5x1 cm pc fascia defect objective stress ++ euo/f 2 cm, f/c 4 cm, ab/au xx cm, i/v 11 cm 				
operation:	transverse pcf repair/bilateral pcf	f refixation +	uvvf-repair		
duration:	40 min	heal	ing 95% contir	ience 95%	
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%			

re-episiotomy L, large transverse incision thru/at fistula edge, sharp dissection, tensionfree transverse fascia repair/bilateral refixation onto paraurethra_euo atf by 2x serafit each side with transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transver se avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 15 cm, good anterior elevation, euo/b 1.9 cm normal bladder capacity (longitudinal diameter 15-1.9 = 13 cm)

acceptable position of uv-junction **fixed against** middle/caudad third of symphysiys normal-width 2 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 120/70 mm Hg 5': 110/70 10': 110/70 postoperation: 110/70

pt 331	katsina "inoperable" type IIBb; total circum trauma				
m m m (kats	ina)	female	28 yr	20.10.11	
surgeon:	kees waaldijk				
assistant:	kabir lawal				
diagnosis:	PVIII (3 alive), "inoperable" \pm 5 c cumferential defect type IIBb , \pm 2 Ic fixed to sacrum midline/cervix v passing stools pv for 7 mth that s last labor for 2 days, in hospital st che 1 yr earlier), not living with the	2 cm 0 proxima with circumfere tarted immedi o female, marr	al rectovaginal f ential defect, lea ately following c ied 14 yr ago po	istula type king urine/ obstructed ost (menar	

(grade 2) and L (grade 2) both with gm_at contracture ip to 95/+5° dorsi flexion, no yankan gishiri, no eclampsia; normal ap diameter/pubic arch 85°, ar pos, bilateral atf/atl + pc_ilc_iscm loss, cervix fixed midline, blad der base prolapse, proximal lpl stricture, **everything fixed** euo/f 1 cm, f/c 0 cm, ab/au 3 cm, i/v 12 cm

operation: ureters, circumferential uvvf-repair + bilateral pcf refixation as first stage

duration: 45 min

healing 60% continence 0%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

episiotomy L with severing of stricture, bilateral ureter catheterization for 20 cm, incision at fistula edge, sharp circumferential dissection, advancement/caudad fixation of poorquality anterior bladder onto symphysis/urethra, **under tension** circumferential uvvfrepair by end-to-end vesicourethrostomy by single layer of inverting serafit, bilateral fixation of pc fascia onto paraurethra_euo atf/symphysis by 2x serafit each side, repair **not** water-tight, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon but remains distal 2 cm broad gap, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 0.5 cm normal bladder capacity (longitudinal diameter 12-0.5 = 11.5 cm) poor position of uv-junction **fixed against** caudad third of symphysis normal-width 0.5 cm **poor-quality** urethra_euo in anatomic position the **problem: poor-quality tissue/everything fixed due to continuous stool conta mination thru "end-standing" sigmoidostomy into vagina** if it heals like fixed with urethra loss that would be already good result



RR preanesthesia: 120/70 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

n n z (katsina)	female	15 yr	20.10.11
		,	

diagnosis: PI (alive), overflow incontinence due to long-standing atonic bladder, leak ing urine for 4 mth which started immediately following cs bco obstructed labor for 3 days, <u>live</u> male, married 1.5 yr ago post(menarche 3 mth earlier), not living with husband, no menstruation, drop foot R (grade 4-5) and L (grade 4-5), no rvf, no yankan gishiri, no eclampsia; normal ap dia meter/pubic arch 85°, ar pos ?ureter fistula? 146.0 cm

20.10.11 under spinal

dye test: no leakage, no clear urine

avw bulging, bladder overdistended (euo/bw 18 cm), moderate anterior elevation after bladder draining, euo/b 1.2 cm foley ch 18; free urine flow **increased** bladder capacity (longitudinal diameter 18-1.2 = 17 cm, **atonic bladder**)

poor position of uv-junction against caudad third of symphysisnormal-width 1 cm medium-quality urethra_euo in anatomic positionfirst catheterthen bladder drillthen review

pt 333	katsina mdg vvf 09 anterior trauma				
z i g city		female	16 yr	20.10.11	
surgeon:	dr halliru a idris				
assistant:	gambo lawal				
diagnosis:	PI, <u>+</u> 3 cm 0 urethrovesicovaginal fistula type IIAa with bladder base pro lapse, leaking urine for 70 days which started immediately following cs bco obstructed labor for 1 day, sb male, married 3 yr ago post(menarche 1 mth earlier), not living with husband, no menstruation, drop foot R (gra de 4) and L (grade 4), rvf, no yankan gishiri, no eclampsia; normal ap dia meter/pubic arch 85°, ar pos, cervix fixed euo/f 2.5 cm, f/c 2 cm, i/v cm 156.0 cm				
operation:	bilateral ureter catheterization + uvvf-repair				
duration:	45 min	ł	nealing 90%	continence 90%	
anesthesia:	a: spinal L4/L5 with 3 ml bupivacaine 0.5%				

bilateral ureter catheterization for 20 cm, incision at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, foley ch 18, transverse avw adapta tion by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.7 cm

normal bladder capacity (longitudinal diameter 12-2.7 = 9.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 130/80 mm Hg 5': 120/70 10': 120/70 postoperation: 110/79

pt 334

katsina mdg anterior + iatrogenic trauma

b m m (katsina)	female	37 vr	20.10.11
	Ternale	<i>37</i> yi	20.10.11

surgeon: dr kabiru abubakar

assistant: gambo lawal

- diagnosis: PXI (6 alive), total post **IIAb** urine intrinsic_stress incontinence grade III, leaking whilst lying/sitting/standing/walking + spontaneous miction for 9 mth which started immediately following obstructed labor for 1 day, in hospital sb male, married 25 yr ago pre(menarche 1 yr later), <u>still</u> living with husband, normal menstruation, drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no eclampsia; normal ap diameter/pubic arch 85!, ar pos, cervix mobile, operated 5.5.11 (b/r_said) euo/bw 12 cm, moderate elevation, euo/b 1.5 cm
- operation: urethralization by longitudinal fascia repair/bilateral fixation
- duration: 40 min healing 95% continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

median episiotomy, transverse incision thru repair scar, sharp dissection, tension-free longitudinal fascia rhaphy over 3 cm by serafit, bilateral fixation onto paraurethra_euo atf by 2x<serafit each side, euo/b 2.3 cm, **no** urine thru euo on rest/cough/pressure, foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.3 cm normal bladder capacity (longitudinal diameter 12-2.3 = 9.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic posiiton

pt 335

h i k (katsina)

female

25 yr

surgeon: dr kabiru abubakar

assistant: gambo lawal

- diagnosis: PVI (1 alive), <u>+</u> 4 cm 0 urethrovesicovaginal fistula type **IIAa** with tissue bridge, leaking urine for 3 mth which started immediately following ?craniotomy? bco obstructed last labor for 2 days (all in hospital), sb male, married 12 yr ago pre(menarche 1 mth later), <u>still</u> living with hus band, no menstruation, drop foot R (grade 4) and L (grade 4), no rvf, no yankan gishiri, no eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix fixed midline euo/f 2 cm, f/c 0 cm, i/v cm 145.0 cm
- operation: uvvf-repair

duration: 30 min healing 85% continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

incision at fistula edge, sharp dissection, tension-free <u>longitsudinal</u> bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/ pressure, triple fixation of foley ch 18, transverse avw/cervix adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 1.5 cm

normal bladder capacity (longitudinal diameter 13-1.5 = 11.5 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 1.5 cm good-quality urethra_euo in anatomic position



pt 336	katsina anteriobilateral trauma				
s m m (katsi	na)	female	15 yr	21.10.11	
surgeon:	dr amadou issa abdou/kees waa	aldijk			
assistant:	kabir lawal				
diagnosis:	PI (0 alive), <u>+</u> 1.5 cm 0 urethrovesicovaginal fistula type IIAa midline with in healing 5x1.5 cm transverse avw/pcf defect, leaking urine for 64 days which started immediately following obstructed labor for 2 days, in hospital sb male, married 2 yr ago pre(menarche 3 mth later), not living with husband, no menstruation, drop foot R (grade 4) and L (grade 4), no rvf, no yankan gishiri, eclampsia yes; normal ap diameter/pubic arch 85°, ar pos, cervix mobile, bilateral atf/atl trauma open urethra_euo euo/f 2 cm, f/c 4 cm, i/v 12 cm 144.0 cm				
operation:	transverse pc fascia repair/fixatio	on + uvvf-rep	air		
duration:	50 min	heal	ing 85%	continence 85%	

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

re-episiotomy L (not yet healed), transverse incision thru/at fistula edge, sharp dissec tion, tension-free transverse pc fascia repair/bilateral fixation onto paraurethra atf by 1x serafit each side with transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.6 cm normal bladder capacity (longitudinal diameter 12-1.6 = 10.5 cm) poor position of uv-junction **against** caudad third of symphysis adapted 1.6 cm medium-quality urethra_euo in anatomic position

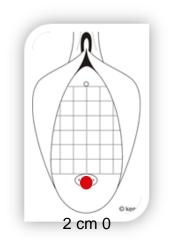


RR preanesthesia: 120/70 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 337	katsina anterior trauma + delayed iatr	vvf 8188 rauma cath 1357			
u h d (katsin	a)	female 21	yr 21.10.11		
surgeon:	kees waaldijk				
assistant:	kabir lawal				
diagnosis:	 PIII (2 alive), intracervical <u>+</u> 2 cm 0 "cs"-vesicocervicovaginal fistula typ midline with intact os, leaking urine for 5 mth which started immediate following obstructed labor for 1 day, in hospital <u>live</u> male, married 8 yr a post(menarche 4 mth realier), <u>still</u> living with husband, no menstruation drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, eclamps no h/o; normal ap diameter/pubic arch 85°, ar pos, cervix mobile; nb for delivery II wide open euo and avw bulging into vagina euo/f 8 cm, f/c 0 cm, i/v 12 cm, c_os/f 1 cm 				
operation:	"cs"-vcvf-repair obstetric tra	uma superimpose	d upon weak cervix		
duration:	40 min	healing 95	5% continence 95%		
anesthesia:	spinal L4/L5 with 3 ml bupivacaine 0.5%				

healed small type **IIAa** fistula, fistula detected since urine and then dye from os, incision at anterior cervix, sharp dissection of bladder from cervix, 2 cm 0 bladder defect, tension-free transverse bladder closure by by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, foley ch 18, transverse avw/cervix adapta tion by 2x everting seralon, check on hemostasis, epi closure; free urine flow, euo/bw 12 cm, poor anterior elevation, euo/b 0.9 cm normal bladder capacity (longitudinal diameter 12-0.9 = 11 cm) poor position of uv-junction **against** caudad third of symphysis

open 1 cm medium-quality urethra_euo posteriorly drawn inside will distal urethra_euo **normalize** under physiologic stress??



RR preanesthesia: 130/90 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

katsina mdg anterior + iatrogenic trauma

z b r/g (katsina) female 37 yr 21.10.11

surgeon: dr kabiru abubakar

assistant: gambo lawal

- diagnosis: PXII (6 alive), <u>+</u> 4 cm 0 sth-cs-vesicocervicovaginal fistula type I, leaking urine for 4 mth which started immediately following sth-cs bco obstructed last labor for 1 day, sb female, married 24 yr ago pre(menarche 3 mth later), <u>still</u> living with husband, no menstruation, no drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no eclampsia; normal ap diame ter/pubic arch 85°, ar pos, cervix remnants fixed midline euo/f 5 cm, f/c 0 cm, i/v cm
- operation: sth-cs-vcvf-repair

duration: 30 min healing 90% continence 90%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

median episiotomy, no uterus found on palpation, incision at fistula edge, sharp dissection, tension-free transverse bladder/bladder_posterior "cervix" closure by single layer inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, foley ch 18, transverse avw/posterior "cervix" adaptation by 5x everting seralon, hemostasis check, epi closure; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 1.5 cm normal bladder capacity (longitudinal diameter 11-1.5 = 9.5 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 1.5 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 130/90 mm Hg 5': 120/80 10': 120/80 postoperation: 120/80

pt 339 pt	katsina m anteriobilateral trauma; sec	vvf 094 vvf 5847		
b a b (katsin	a)	female	27 yr	21.10.11
surgeon:	dr kabiru abubakar			
assistant:	gambo lawal			
diagnosis:	PIII (0 alive), minute < 0.1 cm 0 lungu fistula L type IIAb , leaking urine for 1 yr which started immediately following "miscarriage" of 1 day, at how sb male, married 14 yr ago pre(menarche 2 mth later), <u>still</u> living with husband, normal menstruation, drop foot R (grade 5) and L (grade 5), r rvf, no yankan gishiri, eclampsia delivery I; normal ap diameter/pubic are 85°, ar pos, cervix fixed euo/f 2 cm, f/c 1 cm, i/v 7 cm 150.0 cm			
operation:	uvvf-repair + bilateral pcf fixation	l		
duration:	45 min	hea	aling 95%	continence 80%
anesthesia:	spinal L4/L5 with 3 ml bupivacaine 0.5%			

re-episiotomy L, transverse incision thru fistula/repair scar, sharp dissection, tensionfree transverse bladder/urethra closure by single layer of inverting serafit, bilateral pcf fixation onto paraurethra_euo atf, **no** urine thru suture line/euo on rest/cough/pressure, foley ch 18, transverse avw adaptation by 3x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 10 cm, good anterior elevation, euo/b 2 cm normal bladder capacity (longitudinal diameter 10-2 = 8 cm) acceptable position of uv-junction **against** middle/caudad third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 130/80 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

katsina total circumferential trauma

surgeon: kees waaldijk

assistant: kabir lawal

diagnosis: PXII (10 alive), <u>+</u> 3 cm 0 urethrovesicovaginal fistula with circumferential defect type **IIAb**, leaking urine for 3 yr which started immediately following obstructed last labor for 1 day, in hospital sb female, married 30 yr ago post(menarche 2 mth earlier), <u>still</u> living with husband, normal menstrua tion, drop foot R (grade 2) and L (grade 2) with gm_at contracture up to 90/0° dorsiflexion, no rvf, no yankan gishiri, no eclampsia; normal ap dia meter/pubic arch 85°, ar pos, bilateral atf/atl + pc_ilc_iscm loss, 2° cervix prolapse, sul trauma/loss obesity +++ euo/f 2 cm, f/c 2 cm, ab/au 2 cm, i/v 12 cm

operation: **state-of-the-art** circumferential uvvf-repair + bilateral pcf refixation

duration: 45 min (**step-by-step teaching**) healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

episiotomy L, transverse incision thru/at fistula edge, sharp circumferential dissection, advancement/caudad fixation of anterior bladder onto symphysis/urethra, tension-free circumferential uvvf-repair by end-to-end vesicourethrostomy by single layer of inverting serafit, bilateral fixation of pc fascia onto paraurethra_euo atf/symphysis by 2x serafit each side, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw/avw_cervix adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 1.7 cm normal bladder capacity (longitudinal diameter 11-1.7 = 9.5 cm) poor position of uv-junction **fixed against** caudad third of symphysis normal-width 1.5 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 140/90 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 341 katsina total circumferential trauma					vvf 8190
h m b (borno)	ferr	nale	21 yr	22.10.11
surgeon:	kees waaldijk				
assistant:	kabir lawal				

diagnosis: PIII (0 alive), **severely mutilated** <u>+</u> 1.5 cm 0 urethrovesicovaginal fistula at L with circumferential defect type **IIAb**, leaking urine for 1 yr that started immediately following obstructed last labor for 2 days, in hospital sb fem ale, married 7 yr ago post(menarche 1 yr earlier), not living with husband, normal menstruation, bilateral drop foot for 1 mth R (grade 5) and L (gra de 5), no rvf, no yankan gishiri, no eclampsia; normal ap diameter/pubic arch 85°, ar pos, bilateral atf/atl + ilc_iscm loss up to i spines (paraurethra intact), 2° cervix prolapse (due to sul trauma + **large** transverse 7x2 cm pcf defect), operated 2x (maiduguri_chama) for over N 250,000 and then planned for urinary diversion obesity ++ euo/f 4 cm, f/c 1 cm, ab/au xx cm, i/v 14 cm

operation: transverse pcf repair/fixation + uvvf-repair

duration: 50 min (**step-by-step teaching**) healing 85% continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

episiotomy L, large transverse incision thru/at fistula edge, sharp dissection, tensionfree transverse fascia repair/bilateral fixation with fistula "closure" by single layer of inver ting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw/cervix adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.3 cm normal bladder capacity (longitudinal diameter 12-2.3 = 9.5 cm) good position of uv-junction **fixed against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position the **good thing** the **problem: severe additional iatrogenic mutilation**



RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 342	katsina third obstetric fistula anterior trauma (large pcf defect)		vvf 8191 cath 591 cath 1228
h a a (katsina)	female	e 31 yr	22.10.11

- surgeon: kees waaldijk
- assistant: kabir lawal
- diagnosis: PIX (6 alive), <u>+</u> 0.2 cm 0 urethrovesicovaginal fistula type **IIAa** midline within 5x1 cm transverse pcf defect, leaking urine for 3 mth which started immediately following obstructed last labor for 1 day, at home <u>live</u> male, married 18 yr ago post(menarche 1 mth earlier), <u>still</u> living with husband, no menstruation, drop foot R (grade 5) and L (grade 4-5), no rvf, no yankan gishiri, no eclampsia; ap diameter/pubic arch 85°, ar pos, cervix fixed onto i spine R euo/f 2.5 cm, f/c 4 cm, i/v 12 cm 142.5 cm
- operation: transverse pc fascia repair/fixation + uvvf-repair reconstructive surgery
- duration: 20 min

healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru/at fistula/pcfascia defect, sharp dissection, tension-free trans verse pc fascia repair/fixation with transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.8 cm normal bladder capacity (longitudinal diameter 12-1.8 = 10 cm) poor position of uv-junction **against** caudad third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 140/90 mm Hg 5': 140/80 10': 130/80 postoperation: 130/80

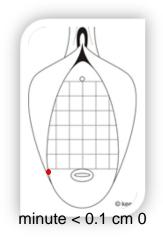
pt 343	katsina anterior trauma + severe ia		mutilation	vvf 8192/8018
n u g (jigawa)	female	38 yr	22.10.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PX (7 alive), total post severely n incontinence grade III, leaking uri no spontaneous miction following husband, normal menstruation; pos, 2° cervix prolapse/fixed, ope normal-width euo totally drawn euo/bw 10 cm, good elevatkion,	ine whilst ly g "reconstr normal ap erated 2x, n inside o	ying/sitting/s ruction" 10.2 diameter/p obesity +++ over 2 cm	standing/walking + 11, not living with oubic arch 85°, ar -, introitus ok euo/c 2.5 cm
operation:	euo "repositioning"			last resort final
duration:	10 min	he	ealing 75%	continence 50%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%		

bilateral paraurethra longitudinal incision, stab incision between anterior euo/symphysis, advancement/suturing anterior euo into anatomic position, bilateral excision of some para-euo avw, bilateral fix ation of distal paraurethra_euo avw onto symphysis with 2x seralon each side, euo/b 1.6 cm, **no** urine thru suture line/euo on rest/ cough/pressure, foley ch 18, check on hemostasis; free urine flow, euo/bw 10 cm, good anterior eleva tion, euo/b 1.6 cm (**compression**)

normal bladder capacity (longitudinal diameter 10-1.6 = 8.5 cm) good position uv-junction **against** middle/caudad third symphysis normal-width 1.5 cm poor-quality urethra_euo in "anatomic position" the **problem:** excessive mutilation/scar tissue + pull by cervix

pt 344	katsina m anterior + iatroge	•		vvf 095
a m b borno	state	female	57 yr	22.10.11
surgeon:	dr halliru a idris			
assistant:	gambo lawal			
diagnosis:	PIX (5 alive), minute < 0.1 cm vesicovaginal fistula type I fixed against spine R, leaking urine for 18 yr which started immediately following cs bcc obstructed last labor for 2 days, sb male, married 45 yr ago pre(menarche 1 yr later), <u>still</u> living with husband, menopause 10 yr ago, no drop foot F (grade 5) and L (grade 5), no rvf, no yankan gishiri, no eclampsia; norma ap diameter/pubic arch 85°, ar pos, cervix not identified (colpocleisis, ope rated 1x Maiduguri) euo/f 8 cm, f/v 0 cm, i/v cm cm			
operation:	vvf-repair			
duration:	40 min	healin	ig 90%	continence 80%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%		

transverse incision thru fistula, sharp dissection, tension-free transverse bladder closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, foley ch 18, transverse avw/pvw adaptation by 2x everting seralon, hemostasis check; free urine flow, euo/bw 10 cm, good anterior elevation, euo/b 2 cm normal bladder capacity (longitudinal diameter 10-2 = 8 cm) acceptable position of uv-junction 10-2 = 8 cm normal-width 2 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 150/100 mm Hg 5': 140/90 10': 140/90 postoperation: 140/90

pt 345	katsina mdg anterior + iatrogenic trauma				
h d s c (sokc	oto)	female	26 yr	22.10.11	
surgeon:	dr halliru idris				
assistant:	gambo lawal				
diagnosis:	 PII (0 alive), ureter fistula, cs-vcvf-repair 16.07<u>still</u> living with husbanch normal menstruation, drop foot R (grade 4) and L (grade 4), no rvf, no yankan gishiri, no h/o eclampsia; nor mal ap diameter/pubic arch 85°, a pos, cervix fixed midline euo/f 5 cm, f/c 0 cm, i/v 11 cm 				
operation:	assessment				
duration:	min		healing	continence	
anesthesia:	spinal L4/L5 with 3	ml bupivacair	ne 0.5%		

dye test/ no leakage, no stress clear urine in vagina but not identified from where

for abdominal implantation by urologist

RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

katsina mdg anterior + iatrogenic trauma

- m h r (kano city) female 26 yr 22.10.11
- surgeon: dr halliru idris
- assistant: gambo lawal
- diagnosis: PIII (2 alive), <u>+</u> 4 cm 0 urethrovesicovaginal fistula type I midline/anterior cervix loss, leaking urine for 4 mth which started immediately following cs bco obstructed last labor for 2 days, sb male, married 12 yr ago post(men arche 1 yr earlier), not living with husband, normal menstruation, no h/o drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, eclampsia no; normal ap diameter/pubic arch 85°, ar pos, cervix fixed midline euo/f 5 cm, f/c 0 cm, i/v cm 162.0 cm
- operation: ureter R catheterization + cs-vcvf-repair
- duration:40 minhealing 85%continence 85%
- anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

only ureter R identified/catheterized for 20 cm, incision at fistula edge, sharp dissection, tension-free transverse bladder closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, foley ch 18, transverse avw/cervix adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 2.4 cm

normal bladder capacity (longitudinal diameter 13-2.4 = 10.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 130/90 mm Hg 5': 120/80 10': 120/70 postoperation: 120/70

pt 347 pt	katsina anteriobilateral trauma; second obstetric fistula			
I m d (katsir	na)	female	33 yr	23.10.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PVIII (1 alive), <u>+</u> 2 cm 0 urethrow defect type IIAb midline/L, leakin following cs bco obstructed last	g urine for 5	mth that started	l immediately

following cs bco obstructed last labor for 1 day, <u>live</u> male, married 20 yr ago pre (menarche 4 mth later), <u>still</u> living with husband, no menstruation, drop foot R (grade 5 against 4) and L (grade 5 against 4), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos, bilateral atf/atl + pc_ilc_iscm loss, cervix fixed midline; on 12.07 not clean successful repair delivery II (b/r_kees) 17 yr ago euo/f 2.5 cm, f/c 1 cm, ab/au 1 cm, i/v 14 cm 144.0 cm

operation: ureter L, 4/5 circumferential uvvf-repair + bilateral pcf refixation

duration: 45 min

healing 95% continence 85%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

re-episiotomy, excision of mutilated avw, only L ureter identified/catheterized by metal sound, incision at fistula edge, sharp 4/5 circumferential dissection, tension-free 4/5 cir cumferential uvvf-repair by end-to-end vesicourethrostomy by single layer of inverting serafit, bilateral fixation of pc fascia onto paraurethra_euo atf/symphysis by 2x serafit each side, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw/avw_cervix adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 1.3 cm normal bladder capacity (longitudinal diameter 11-1.3 = 9.5 cm) poor position of uv-junction **fixed against** caudad third of symphysis **traumatized** 1.5 cm medium-quality urethra_euo in anatomic position poor-quality bladder tissue **real reconstructive surgery**



RR preanesthesia: mm Hg 5': 10': postoperation:

step-by-step identifying and then	•			
anterior trauma; european type cath 13				
s h a k (katsina)	female	38 yr	23.10.11	

- surgeon: kees waaldijk
- assistant: kabir lawal
- diagnosis: PX (4 alive), intrinsic/stress incontinence grade II-III as ??healing phase long-standing atonic bladder??, leaking urine **continuously** whilst stand ing/walking + spontaneous miction for 3 yr which started immediately following last ob structed labor for 7 days, at home <u>live</u> male, married 26 yr ago pre(menarche 1 yr later), <u>still</u> living with husband, normal menstrua tion, no (h/o) drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos avw bulging into vagina, "**open**" euo in anatomic position obesity ++++ **genuine intrinsic incontinence** not responding to bladder drill euo/bw 13 cm, poor elevation, euo/b 1.6 cm, i/v 12 cm

operation: urethralization by longitudinal repair + fixation = reconstructive surgery

duration: 30 min (**step-by-step teaching**) healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

dye/ **not** leaking, **no** clear urine euo/c 8 cm bladder herniation thru median defect transverse curved incision at 2 cm from euo parallel/within ruga folds, sharp dissection, 6x2 cm median longitudinal fascia defect from cervix up to 2 cm to euo with bilateral re tracted **thickened** fascia, <u>longitudinal</u> repair/rhaphy of pc fascia at 1-6 cm from euo by serafit, fixation of fascia onto paraurethra_euo atl by 1x serafit each side, now euo/b 2.5 cm, **no** urine thru euo on rest/cough/ pressure, triple fixation of foley ch 18, transverse avw_pcf/atf_avw adaptation by 2x everting seralon, hemostasis check; free urine flow, euo/bw 13 cm, good elastic anterior elevation, euo/b 2.5 cm (**urethralization**) normal bladder capacity (longitudinal diameter 13-2.5 = 10.5 cm) **no** cystocele good position uv-junction **against** middle third symphysis good fascia plate good-quality pcm

RR preanesthesia: 140/100 mm Hg 5': 140/90 10': 140/80 postoperation: 140/80

pt 349	katsina mdg anterior/posterior + iatrogenic trauma; urge ++			vvf 8195/8120 rvf
m a g (sokot	0)	female	20 yr	23.10.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	S: PII (0 alive), total post mutilated multiple type IIAa urine intrinsic_stress incontince grade III following repair 10.07.11, <u>+</u> 3 cm 0 proximal midline rectovaginal fistula type Ic fixed onto sacrum, not living with husband, no menstruation since (tah), bilateral drop foot for 2 mth R (grade 4-5) and L (grade 5); normal ap diameter/pubic arch 85°, ar pos, vault fixed midline onto sacrum, operated 1x (mawch_nakaka) a/f 10 cm, f/v 0 cm, pr/pr 2 cm, i/v 15 cm			
operation:	assessment only since right from	the start hea	avy stool c	ontamonation
duration:	10 min			
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%		

episiotomy L, urine fistulas seems healed with total intrinsic_stress incontinence rvf-repair seems possible by "end-to-end" sigmoidorectostomy though **highly compli** cated

however, right from the start heavy **stool contamination** thru end-stand sigmoidostomy into vagina + **no light + sunday**

for safety reasons **no operation today** epi closure

first end-to-end sigmoidorectostomy after proper planning

second correction of urine incontinence

katsina mdg	v	vvf 8196
anterior trauma + iatrogenic	mdg	vvf 021
ureter fistula + intrinsic incontinence; healed IIAa uv	vf	

m a s (katsina)

pt 350

female 43 yr 23.10.11

- surgeon: kees waaldijk
- assistant: kabir lawal
- diagnosis: PXIII (8 alive), ureter fistula L, uvvf type **IIAa** midline **healed** after repair 7.6. 11, leaking urine for 9 mth which started immediately following sth-cs bco obstructed labor for 1 day, <u>live</u> female, married 31 yr ago pre(men arche 1 yr later), <u>still</u> living with husband, no menstruation since, drop foot R (grade 4-5) and L (grade 5), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix fixed midline **objective** intrinsic incontinence **++** thru **open** urethra_euo euo/bw 13 cm, moderate elevation, euo/b 1.4 cm, i/v 14 cm 151.0 cm
- operation: assessment

duration: 10 min healing continence

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

dye test/ **no** leakage but **clear urine** coming from L cervix though ureter opening not identified cervix canal only 2 cm (sth-cs)

for abdominal implantation by urologist

RR preanesthesia: 120/80 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 351 katsina vvf 8197 congenital vagina malformation					
a a b (katsina	a)	female	15 yr	23.10.11	
surgeon:	kees waaldijk				
assistant:	kabir lawal				
diagnosis:	P0, ba hanya since she was bor wanzami without resulting leakin visible, streak uterus on palpatio female external genitals, vagina sitting, 2 persons, aska, scrato melanotic skin inside vagina	<u>g of urine</u> , stil n, normal bre depth only 5-6	l premenarche, ast developme 5 cm; pa 85%, a	, no cervix nt, normal	

pat + mother instructed/demonstrated repeat self-dilatation by torchlight covered by condom

for re-evaluation in 7 days

pt 352 pt 353 anterio	katsina bilateral + cut-thru traun	าล	vvf 8198 rvf 1038
both urine/stool continence	ogic stress cath 1362		
b a f (katsina)	female	19 yr	24.10.11

surgeon: kees waaldijk assistant: kabir lawal

diagnosis: PIII (1 alive), <u>+</u> 0.1 cm 0 urethrovesicovaginal fistula type **IIAa** at R corner (not lungu type) within 4x0.5 cm transverse avw/fascia trauma, anterior sphincter ani rupture with 0.5 cm anorectum trauma, leaking urine/flatus incontinence for 6 mth which started immediately following obstructed last labor for 1 days, in hospital sb male, married 6 yr ago post(menarche 3 mth earlier), not living with husband, no menstruation, drop foot R (grade 4-5) and L (grade 4-5), no yankan gishiri, no h/o eclampsia; normal ap diameter/wide pubic arch 90°, ar pos, cervix mobile, immedi suturing pp **objective** total intrinsic incontinence euo/bw 12 cm, euo/b 1.0 cm euo/f 2 cm, f/c 4 cm, a/f 0 cm, i/v 12 cm

operation: fascia/uvvf-repair + anorectum/sphincter ani/perineal body repair

duration: 50 min (teaching) healing both 95% continence both 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

urine in accord with respiration norm euo in anat pos then minute fistula detected transverse incision thru fistula/fascia defect, sharp dissection, 0.5 cm 0 bladder urethra defect at R, tension-free transverse fascia repair/bilateral fixation with transverse blad der/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x evert ing seralon; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.7 cm normal bladder (long diameter 12-1.7 = 10.5 cm) poor position of uv-junction against caudad third symphysis norm-width 1.5 cm good-guality urethra euo in anat pos incision at pvw edge with freshening of sphincter ani ends, minimal sharp dissection, very thin friable anterior anorectum, longitudinal anorectum closure with adaptation_ rhaphy of internal sphincter over 2 cm up to anocutaneous junction (with repositioning of anterior anus) by double layer of inverting interrupted/continuous serafit, inner ring of external sphincter adapted, end-to-end external sphincter ani reconstruction by 2x serafit, perineal body repair with (in)direct re-union of transversus perinei muscles and (in)direct posterior re-union of bulbocavernosus muscles by 2x serafit, perineum well adapted with anus in anatomic position, check on hemostasis



RR preanesthesia: 120/80 mm Hg 5': 120/80 10': 120/70 postoperation: 120/70

pt 353 pt 352 anteri	katsina i obilateral + cut-thru traun	na	rvf 1038 vvf 8198
both urine/stool continence mechanism will heal under physiolog			ogic stress cath 1362
b a f (katsina)	female	19 yr	24.10.11

surgeon: kees waaldijk assistant: kabir lawal

diagnosis: PIII (1 alive), <u>+</u> 0.1 cm 0 urethrovesicovaginal fistula type **IIAa** at R corner (not lungu type) within 4x0.5 cm transverse avw/fascia trauma, anterior sphincter ani rupture with 0.5 cm anorectum trauma, leaking urine/flatus incontinence for 6 mth which started immediately following obstructed last labor for 1 days, in hospital sb male, married 6 yr ago post(menarche 3 mth earlier), not living with husband, no menstruation, drop foot R (grade 4-5) and L (grade 4-5), no yankan gishiri, no h/o eclampsia; normal ap diameter/wide pubic arch 90°, ar pos, cervix mobile, immedi suturing pp **objective** total intrinsic incontinence euo/bw 12 cm, euo/b 1.0 cm euo/f 2 cm, f/c 4 cm, a/f 0 cm, i/v 12 cm

operation: fascia/uvvf-repair + anorectum/sphincter ani/perineal body repair

duration: 50 min (teaching) healing both 95% continence both 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

urine in accord with respiration norm euo in anat pos then minute fistula detected transverse incision thru fistula/fascia defect, sharp dissection, 0.5 cm 0 bladder urethra defect at R, tension-free transverse fascia repair/bilateral fixation with transverse blad der/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x evert ing seralon; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.7 cm normal bladder (long diameter 12-1.7 = 10.5 cm) poor position of uv-junction against caudad third symphysis norm-width 1.5 cm good-guality urethra euo in anat pos incision at pvw edge with freshening of sphincter ani ends, minimal sharp dissection, very thin friable anterior anorectum, longitudinal anorectum closure with adaptation_ rhaphy of internal sphincter over 2 cm up to anocutaneous junction (with repositioning of anterior anus) by double layer of inverting interrupted/continuous serafit, inner ring of external sphincter adapted, end-to-end external sphincter ani reconstruction by 2x serafit, perineal body repair with (in)direct re-union of transversus perinei muscles and (in)direct posterior re-union of bulbocavernosus muscles by 2x serafit, perineum well adapted with anus in anatomic position, check on hemostasis



RR preanesthesia: 120/80 mm Hg 5': 120/80 10': 120/70 postoperation: 120/70 pt 354 pt

katsina total circumferential trauma rvf healed

n a g (katsina) female 15 yr 24.10.11

surgeon: kees waaldijk

assistant: kabir lawal

diagnosis: PI (0 alive), total post **IIBb** urine intrinsic_stress incontinence, leaking urine whilst lying/sitting/standing/walking + **no** spontaneous miction follow ing **early** repair 30.09.10, not living with husband, normal menstruation, drop foot R (grade 4-5) and L (grade 4-5); normal ap diameter/pubic arch 85°, ar pos, **major** bilateral atf/atl + pc_io_ilc_iscm loss (**empty pelvis**), cystocele + euo/c 6 cm **wide open** urethra_euo (straight look into bladder) posteriorly drawn inside by cervix fixed/"retracted" midline euo/bw 12 cm, poor elevation, euo/b 0 cm, i/v 12 cm 154.0 cm

operation: urethralization by longitudinal repair/bilateral fixation = reconstr surgery

duration: 30 min (**step-by-step teaching**) healing 85% continence 75%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

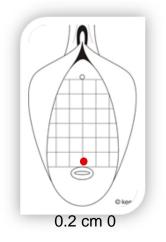
urine in accord with respiration transverse curved incision at 0.5 cm from euo, sharp dissection, 5x2 cm median pc fascia defect from cervix to 1 cm to euo, longitudi nal fascia repair at 1-4 cm from euo by single layer of serafit, euo not completely norma lized, to neutralize traction by fixed cervix bilateral fascia fixation onto para_euo atf/sym physis by 1x serafit each side with repositioning/stabilizing/securing urethra_euo, euo/b 2.0 cm, **no** urine thru euo on rest/ cough/pressure, triple fixation of foley ch 18, transver se avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/b 12 cm, good anterior elevation, euo/b 2.0 cm (**urethralization**) **no** cystocele normal bladder capacity (longitudinal diameter 12-2.0 = 10 cm) acceptable position uv-junction **against** middle/caudad third symphysis good fascia plate poor-quality pc musculature "normal-width" 2 cm poor-quality urethra_euo in anatomic position

operation fine but the problem: poor-quality tissue + pull/traction by fixed cervix

pt 355 a r	nterior trauma + severe i	katsina atrogenic mut	mdg 098 ilation; triple	vvf 8015/7948 trauma
r b m city (ka	atsina)	femal	le 40 yr	24.10.11
surgeon:	dr halliru idris			
assistant:	gambo lawal			
diagnosis:	PXIV (6 alive), residual <u>+</u> 0.2 cm 0 vesicovaginal fistula midline following multiple repairs 23.10.10 to 5.2.11, <u>still</u> living with husband, no menstrua tion; normal AP diameter/wide pubic arch 90°, AR pos cervix fixed/ retracted midline open urethra_euo with objective intrinsic_stress incontinence euo/f 4 cm, f/c 0 cm, i/v 12 cm obesity + 160.0 cm			
operation:	vvf-"repair"			
duration:	45 min		healing 80%	continence 70%
anesthesia:	spinal L4/L5 with 3 ml bu	upivacaine 0.5%	6	

transverse incision thru fistula, sharp dissection, tension-free transverse **mutilated poor-quality** bladder closure by single layer of inverting serafit, still urine + thru euo on cough, foley ch 18, transverse avw/posterior cervix adaptation by 3x everting seralon for hemostasis, check on hemostasis; good free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 2.8 cm

moderate bladder capacity (longitudinal diameter 11-2.8 = 8.5 cm) good position of uv-junction **fixed against** middle third of symphysis normal-width 3 cm medium-quality urethra_euo in anatomic position the **problem:** severe obstetric trauma + iatrogenic mutilation



RR preanesthesia: 140/100 mm Hg 5': 140/80 10': 130/80 postoperation: 130/80

pt 356	katsina mdg anterior trauma; nb postpoliomyelitis syndrome R leg			vvf 099/004 leg
a i z (katsina)	female	28 yr	24.10.11
surgeon:	dr halliru idris			
assistant:	gambo lawal			
diagnosis:	sis: PIX (0 alive), residual 0.2 cm 0 urethrovesicovaginal at L following repair 1.6.11 <u>still</u> living with husband, normal menstruation, drop foot R (grade) and L (grade), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix fixed midline euo/f 3 cm, f/c 3 cm, i/v 12 cm 123?? cm			
operation:	uvvf-repair			
duration:	40 min	he	aling 85%	continence 95%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%		

transverse incision thru/at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit. **no** urine thru suture line/euo on rest/cough/pressure, foley ch 18, transverse avw adaptation by 2x everting seralon, hemostasis check; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.4 cm normal bladder capacity (longitudinal diameter 12-2.4 = 9.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position **complicated bco postpoliomyelitis syndrome**



RR preanesthesia: 120/70 mm Hg 5': 110/70 10': 100/70 postoperation: 100/70

pt 357	357 katsina mdg vvf 100/03 anterior trauma				
n z u m (rèp	niger)	female	24 yr	24.10.11	
surgeon:	dr halliru idris				
assistant:	gambo lawal				
diagnosis:	PVI (1 alive), open urethra_euc 11.6.11, not living with husband for 2 mth R (grade 5) and L (gr eclampsia; normal ap diamete operated 1x (da magaram) euo/c 5 cm, i/v 11 cm	, normal mens ade 5), no rvf r/pubic arch 8	struation, , no yank 35°, ar po	bilateral drop foot can gishiri, no h/o os, cervix mobile,	
operation:	urethra reconstruction				
duration:	40 min	heal	ing 85%	continence 85%	

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

urethra reconstruction over 2 cm, **no** urine thru suture line/euo on rest/cough/pressure, foley ch 18, check on hemostasis; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 2.6 cm

normal bladder capacity (longitudinal diameter 11-2.6 = 8.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.6 cm medium-quality urethra_euo in anatomic position



RR preanesthesia: 130/80 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 358 pt pt	katsina post extensive IIBb delivery	mdg	vvf 101 vvf 7416/6994 rvf 889
s a b (rép niger)	female	24 yr	25.10.11

- surgeon: dr halliru idris
- assistant: gambo lawal
- diagnosis: PII (0 alive), post IIBb delivery total urine intrinsic_stress incontinence grade III, leaking urine whilst lying/sitting/standing/walking + "normal" mic tion for 1 yr which started immediately following obstructed last labor for 1 day, at home sb male, married 11 yr ago post(menarche 1 mth earlier), not living with husband, normal menstruation, drop foot R (grade 3) and L (grade 3), rvf **healed**; normal ap diameter/pubic arch 90°, ar pos euo/c 3 cm **open deformed** urethra_euo posteriorly drawn inside euo/bw 13 cm, poor elevation, euo/b 0.5 0 cm 147.0 cm
- operation: paraurethra_euo fixation of pc fascia
- duration: 20 min

healing 90% continence 90%

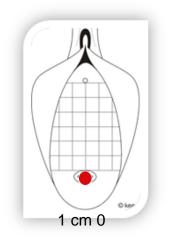
anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

gv/ **no** leakage urine level in accord with respiration transverse incision at 1 cm from EUO thru repair scar, sharp dissection, bilateral fixation of fascia onto paraurethra atf by 2x seralon each side, euo/b 2.5 cm, **no** urine thru euo on rest/cough/pressure, foley ch 18, transverse avw adaptation by 3x everting seralon, hemostasis check; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 2.5 cm normal bladder capacity (longitudinal diameter 13-2.5 = 10.5 cm) poor position of UV-junction **against** middle third of symphysis normal-width 2.5 cm medium-quality urethra_euo in anatomic position

pt 359 katsina mdg vvf 1 anterior + iatrogenic				
f m g (katsin	a)	female	31 yr	25.10.11
surgeon:	dr halliru idris			
assistant:	gambo lawal			
diagnosis:	PX (2 alive), intracervical <u>+</u> 1 cm leaking urine for 4 mth which st obstructed labor for 2 days, sb m yr earlier), <u>still</u> living with husband and L (grade 5), no rvf, no yankan ter/pubic arch 85°, ar pos, cervix euo/f 7 cm, f/c 0 cm, i/v cm	arted imm hale, marri d, no men n gishiri, n	nediately follo ed 17 yr ago struation, dro o eclampsia;	powing cs bco last post(menarche 1 pp foot R (grade 5)
operation:	cs-vcvf-repair			
duration:	40 min	h	ealing 95%	continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

incision at fistula edge, sharp dissection, tension-free transverse bladder closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, foley ch 18, transverse avw/cervix adaptation by 2x everting seralon, check on hemo stasis; free urine flow, euo/bw 10 cm, good anterior elevation, euo/b 2 cm normal bladder capacity (longitudinal diameter 10-2 = 8 cm) acceptable position of uv-junction **against** middle/caudad third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 140/70 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 360 katsina mdg vvf iatrogenic trauma				vvf 103
s a k city		female	30 yr	25.10.11
surgeon:	dr halliru idris			
assistant:	gambo lawal			
diagnosis:	PVIII (7 alive), ureter fistula type III , leaking urine for 3 mth which started immediately following cs bco obstructed last labor for 1 days, <u>live</u> female, married 17 yr ago pre(menarche 5 mth later), <u>still</u> living with husband, no menstruation, drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix fixed midline euo/f cm, f/c cm, i/v cm			
operation:	assessment			
duration:	10 min	h	nealing	continence
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%		
dye/ no leakage but clear urine in vagina				

refer to urologist for abdominal implantation

RR preanesthesia: 150/100 mm Hg 5': 140/90 10': 130/80 postoperation: 130/80 surgeon: kees waaldijk

assistant: aisha shehu

diagnosis: PI (0 alive), <u>+</u> 1 cm 0 urethrovesicovaginal fistula type **IIAa** midline within 5x1.5 cm transverse pcf defect, leaking urine for 6 mth which started immediately following obstructed labor for 1 day, in hospital dandume sb male, married 2 yr ago post(menarche 1 mth earlier), not living with hus band, normal menstruation, drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85t°, ar pos, cervix mobile obesity ++ **objective** stress ++ euo/f 2.5 cm, f/c 4 cm, i/v 14 cm

operation: transverse fascia /bilateral fixation + uvvf-repair

duration: 40 min (**step-by-step teaching**) healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

small episiotomy L, transverse incision thru/at fistula edge/pcf defect, sharp dissection, tension-free transverse fascia repair/bilateral fixation with transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/ pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior eleva tion, euo/b 1.6 cm

normal bladder capacity (longitudinal diameter 12-1.6 = 10.5) poor position of uv-junction **against** caudad third of symphysis normal-width 1.5 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 120/70

pt 362 kano vvf 46 anteriobilateral + posteriolateral R trauma					
m a k (kano	city)	female	44 yr	25.10.11	
surgeon:	kees waaldijk				
assistant:	aisha shehu				
diagnosis:	bladder base prolapse, leaking urine for 4 mth which started immediate following obstructed labor for 3 days, in hospital bichi sb male, married yr ago post(menarche 1 yr earlier), <u>still</u> living with husband, no menstru- tion, drop foot R (grade 4) and L (grade 5), no rvf, no yankan gishiri, i h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos, cervix "fixed transverse 5x1 cm pcf defect at 3 cm from euo, iscm_ssl_pm trauma			arted immediately o male, married 30 and, no menstrua yankan gishiri, no oos, cervix "fixed",	
operation:	bilateral ureter catheterization +	vcvf-repair			
duration:	40 min (step-by-step teaching)	he	aling 95%	continence 85%	

small episiotomy L, bilateral ureter catheterization for 20 cm, incision at fistula edge, sharp dissection, tension-free transverse bladder/bladder_cervix closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw/cervix adaptation by 2x everting seralon, hemostasis check, skin closure; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 2.2 cm normal bladder capacity (longitudinal diameter 13-2.2 = 11 cm) good position of uv-junction **against** middle third of symphysis normal-width 2 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 160/100 mm Hg 5': 150/100 10': 140/90 postoperation: 130/80

pt 363	kano anterior + iatrogenic surgical tra	vvf 4687 i stula			
h a w (plate	eau)	female	20 yr	25.10.11	
surgeon:	kees waaldijk				
assistant:	aisha shehu				
diagnosis:	PII (0 alive), mutilated <u>+</u> 2 cm 0 urethrovesicovaginal fistula type IIAa leaking urine for 3 yr which started immediately following cs bco last of structed labor for 3 days, sb male, married 7 yr ago pre(menarche 1 mth later), not living with husband, normal menstruation, drop foot R (grade 5 and L (grade 5), no rvf, no yankan gishiri, no eclampsia; normal ap dia meter/pubic arch 85°, ar pos, cervix retracted/fixed, operated 2x euo/f 2 cm, f/c 3 cm, i/v 12 cm obesity ++ 161 cm				
operation:	uvvf-repair				
duration:	40 min	heal	ling 75%	continence 70%	

small episiotomy, transverse incision thru/at fistula edge, sharp dissection, excision of scar tissue +, **under tension** transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.2 cm normal bladder capacity (longitudinal diameter 12-2.2 = 10 cm) good position of uv-junction **against** middle third of symphysis since open 2 cm medium-quality urethra_euo drawn inside by **traction by fixed cervix**

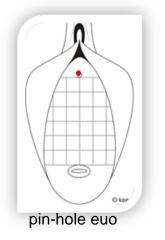


RR preanesthesia: 130/70 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

r a d (katsina city)	female	16 vr	26.10.11
	Ternale	i O yi	20.10.11

diagnosis: PI (alive), dysuria + ?overflow incontinence?, **leaking/difficulty in pas sing urine for 55 days** which started immediately following obstructed labor for 1 day, in hospital <u>live</u> female, married 1 yr ago post(menarche 2 yr earlier), not living with husband, no menstruation, no drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no eclampsia; normal ap dia meter/wide pubic arch 90°, ar pos **pin-hole euo with total urethra vesicalization**

26.10.11 urethrocystocele up to pin-hole euo; avw bulging into vagina under spinal anesthesia gentle gradual dilatation from H1 thru H8, foley ch 18; free urine flow, euo/bw 12 cm, moderate anterior elevation after bladder draining and euo/b 0 cm (like predicted) normal bladder capacity (longitudinal diameter 12-0 = 12 cm) poor position of uv-junction **against** caudad third symphysis normal-width 0 cm ??-quality urethra_euo in anatomic position is it **atonic bladder** with non-scarred euo "stenosis" or non-scarred euo "stenosis" with resulting total vesicalization of urethra treat like atonic bladder for re-evaluation after catheter/bladder drill



pt	365
-	

pt

katsina normal-width 1.6 cm urethra in anat pos delivered 5x vaginally after repair pubocervical fascia totally deficient/torn out medially

vvf 8200

pro 71

m h m (katsina) female 36 yr 26.10.11

- surgeon: kees waaldijk
- assistant: kabir lawal
- diagnosis: PX (6 alive), extensive cystocele far out of vulva/cervix ok, something co ming out for 9 mth which started immediately following obstructed last labor for < 1 day, in hospital <u>live</u> male **twins**, married 23 yr ago post(men arche 1 mth earlier), <u>still</u> living with husband, normal menstruation, no (h/o) drop foot R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no eclampsia; normal ap diameter/**wide** pubic arch 95°, ar pos, cervix 1° pro, never leaking urine euo/c 6 cm normal urethra_euo in anat pos euo/bw 15 cm, poor elevation, euo/b 1.6 cm, i/v 12 cm 165.0 cm
- operation: urethralization by longitudinal fascia repair/bilateral fixation

duration: 30 min (**step-by-step teaching**) healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

removal cervix fixation suture, transverse incision at 2 cm from euo thru repair scar, sharp dissection, median fascia 5x2 cm defect from cervix up to 2 cm to euo, tension-free longitudinal fascia repair at 2-6 cm from euo by single layer of serafit, euo/bw 2.7, **no** urine thru euo on rest/cough/pressure, since fixation not optimal bilateral fixation of pc fascia to paraurethra_euo symphysis/atf by 1x serafit each side, triple fixation foley ch 18, transverse avw adaptation by 2x everting seralon, hemostasis check; free urine flow, euo/b 15 cm, good anterior elevation, euo/b 2.7 cm (**urethralization**) normal bladder capacity (longitudinal diameter 15-2.7 = 12.5 cm) good position uv-junction **against** middle third symphysis good fascia plate good pc musculature normal-width 2.5 cm good-quality urethra_euo in anatomic position

pt 366 katsina vvf 8201 anteriolateroposterior trauma R					
m k k s (kats	sina city)	female	17 yr	26.10.11	
surgeon:	kees waaldijk				
assistant:	kabir lawal				
diagnosis:	racteristics at R, leaking urine for 46 days which started immediately following obstructed labor for 3 days, in hospital sb male, married 3 yr ago post(menarche 6 mth earlier), not living with husband, no menstruation, drop foot R (grade 5) and L (grade 4), no rvf, yankan gishiri, eclampsia no; normal ap diameter/wide pubic arch 90°, ar pos, major atf/atl + pc_ilc_iscm loss only at R (paraurethra intact), cervix fixed towards i spine R, ssl_pm trauma at R			ed immediately narried 3 yr ago menstruation, hiri, eclampsia r atf/atl + pc_ilc	
operation:	transverse fascia repair/(re)fixati	on with uvvf-	repair		
duration:	40 min (step-by-step teaching)	heal	ing 95% coi	ntinence 95%	

small re-episiotomy L, transverse/curved incision thru/at fistula edge, sharp dissection, tension-free transverse fascia repair/bilateral (re)fixation onto paraurethra_euo atf with transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw ad aptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.3 cm

normal bladder capacity (longitudinal diameter 12.2.3 = 9.5 cm) good position of uv-junction **fixed against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 120/80 mm Hg 5': 120/80 10': 120/70 postoperation: 120/70

pt 367 anteri	vvf 8202/8071 it not heal			
h a d (katsina)		female	28 yr	26.10.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PVI (0 alive), residual 0.1 cm urethrovesicovaginal fistula at R type IIA with 1 cm long fistulous tract following repair 1.5.11, not with husband normal menstruation; normal ap diameter/pubic arch 85°, ar pos, cervis mobile, successful vvf-repair delivery II, atf/atl + pc_ilcm loss at R euo/f 1.5 cm, f/c 4 cm, i/v 11 cm no longer cystocele 156.0 cm			
operation:	uvvf-repair			
duration:	15 min	healir	וg 95%	continence 90%
anesthesia:	spinal L4/L5 with 3 ml bupivacaine 0.5%			

transverse curved incision thru fistula, sharp dissection, excision of whole fistulous tract, tension-free transverse closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18 with transverse avw adap tation, check on hemostasis; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.0 cm

normal bladder capacity (longitudinal diameter 12-2.0 = 10 cm) acceptable position of uv-junction **against** middle/caudad third of symphysis normal-width 1.5 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 130/80 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 368 pt	katsina second obstetric leakage			
b a k m (kats	dankama sina city)	female	42 yr	26.10.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PX (4 alive), 2.5x2x2 cm smooth nence, leaking urine + spontaneous ately following cs bco obstructed 30 yr ago pre(menarche 1 yr late struation, no drop foot R (grade 5 no, no eclampsia; normal ap dian successful vvf-repair delivery I (b euo/s 3 cm, f/c cm, i/v 12 cm	bus miction for last labor for 1 r), <u>still</u> living w 5) and L (grade neter/pubic arc	1 yr whio day, <u>live</u> /ith husb e 5), no ι ch 85°, ai	ch started immedi <u>e</u> female, married and, normal men rvf, yankan gishiri r pos, cervix fixed,
operation:	stone removal + avw closure			
duration:	25 min	healir	ng 75%	continence 85%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%		

gradual urethra dilatation from h5 thru H 14, on probing stone too big to be removed transurethrally, transverse bladder opening by transverse incision thru repair scar, stone (?fixed to R cervix?) removed in pieces, flushing debris out of bladder, transverse avw adaptation by 3x everting seralon (with inverted bladder adaptation), ballooning of foley ch 18, on flushing no leakage, check on hemostasis; free urine flow, euo/bw 12 cm, mo derate anterior elevation, euo/b 2.1 cm normal bladder capacity (longitudinal diameter 12-2.1 = 10 cm)

acceptable position of uv-junction **against** middle/caudad third of symphysis normal-width 2 cm medium-quality urethra_euo in anatomic position stone due to ?cs suture? since small fistula excluded during flushing

> RR preanesthesia: 170/110 mm Hg 5': 150/100 10': 150/90 postoperation: 140/90

pt 369		atsina xcessive scarring	vvf 8	204/1970//7472
h u b (kano)		female	39 yr	26.10.11
surgeon:	dr kabiru abubakar/kees w	vaaldijk		
assistant:	jamila habibu			
diagnosis:	PI (0 alive), now 4 cm 0 "following bladder stone ren arch 60°, AR pos, major per removal 15/8-07 (b/r-acqu euo/f 1.5 cm, f/"c" 0 cm, i(v	noval 9.6.11; norma c_ilc_ iscm loss ire)	al AP diar	meter/small pubic
operation:	ps-like uvvf-repair			last resort final
duration:	25 min	healir	ng 85%	continence 20%
anesthesia:	spinal L4/L5 with 3 ml bup	ivacaine 0.5%		

incision around fistula edge, **no** dissection, **ps-like** avw "closure" by 5x everting seralon, foley ch 18, check on hemostasis; free urine flow, euo/bw 10 cm, good anterior elevation, euo/b 1.5 cm normal bladder capacity (longitudinal diameter 10-1.5 = 8.5 cm) poor position UV-junction **fixed against** caudad third symphysis normal-width 1.5 cm medium-quality urethra_euo in anatomic position the **problem:** excessive scar tissue



pt 370	katsina	vvf 8205	
pt 371	anteriobilateral + forceps posterior	rvf 1039	
k b m c (borno)	female	19 yr	27.10.11

surgeon: kees waaldijk

assistant: kabir lawal

diagnosis: PI (0 alive), "**inoperable**" <u>+</u> 4 cm 0 urethrovesicovaginal fistula type **IIAb** with circumferential defect/major bladder loss, sphincter ani rupture with 2 cm long anorectum trauma, leaking urine/stool_flatus incontinence for 4 yr which started immediately after cs after failed forceps bco obstructed labor for 4 days, (in hosp 3 days) sb male, married 7 yr ago pre(menarche 1 yr later), not living at husband, normal menstruation, bilateral foot drop for 3 mth R (grade 5) and L (grade 5), no yankan gishiri, eclampsia no h/o; normal ap diameter/pubic arch 85°, ar pos, bilateral atf/atl + pc_ilc_iscm loss, cervix fixed, s/o **fournier gangrene** L posterior vulva with labia loss + **real anal sphincter tissue loss from 11-3 o'clock** euo/f 2 cm, f/c 0 cm, ab/au 2 cm, a/f 0 cm, i/v 12 cm

operation: **ps-like** uvvf-repair + anorectum/sphincter ani/perineal body repair

duration: 50 min (**step-by-step teaching**) healing **u**_s **60**_85% continence **75**_95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

since everything fixed incision at fistula edge, **no** dissection, **ps-like** cervix/avw adap tation by 5x everting seralon, triple fixation of foley ch 18; free urine flow, euo/bw 6 cm, good anterior elevation, euo/b 2.5 cm

small bladder capacity (longitudinal diameter 6-2.5 = 3.5 cm)

good position of uv-junction fixed against middle third of symphysis

normal-width 2.5 cm good-quality urethra_euo in anatomic position

incision at pvw edge with freshening of sphincter ani ends, minimal sharp dissection, <u>longitudinal</u> anorectum closure with adaptation_rhaphy of internal sphincter over 2.5 cm up to anocutaneous junction (with repositioning of anterior anus) by double layer of inverting interrupted/continuous serafit, inner ring of external sphincter adapted, end-toend external sphincter ani reconstruction by 2x serafit, perineal body repair with (in)di rect re-union of transversus perinei muscles and (in)direct posterior re-union of bulboca vernosus muscles by 2x serafit, perineum well adapted with anus in anatomic position, check on hemostasis



RR preanesthesia: 130/90 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 371	katsina	vvf 8205	
pt 370	anteriobilateral + forceps posterior +	rvf 1039	
k b m c (borno)	female	19 yr	27.10.11

surgeon: kees waaldijk

assistant: kabir lawal

diagnosis: PI (0 alive), "**inoperable**" <u>+</u> 4 cm 0 urethrovesicovaginal fistula type **IIAb** with circumferential defect/major bladder loss, sphincter ani rupture with 2 cm long anorectum trauma, leaking urine/stool_flatus incontinence for 4 yr which started immediately after cs after failed forceps bco obstructed labor for 4 days, (in hosp 3 days) sb male, married 7 yr ago pre(menarche 1 yr later), not living at husband, normal menstruation, bilateral foot drop for 3 mth R (grade 5) and L (grade 5), no yankan gishiri, eclampsia no h/o; normal ap diameter/pubic arch 85°, ar pos, bilateral atf/atl + pc_ilc_iscm loss, cervix fixed, s/o **fournier gangrene** L posterior vulva with labia loss + **real anal sphincter tissue loss from 11-3 o'clock** euo/f 2 cm, f/c 0 cm, ab/au 2 cm, a/f 0 cm, i/v 12 cm

operation: **ps-like** uvvf-repair + anorectum/sphincter ani/perineal body repair

duration: 50 min (**step-by-step teaching**) healing **u**_s **60**_85% continence **75**_95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

since everything fixed incision at fistula edge, **no** dissection, **ps-like** cervix/avw adap tation by 5x everting seralon, triple fixation of foley ch 18; free urine flow, euo/bw 6 cm, good anterior elevation, euo/b 2.5 cm

small bladder capacity (longitudinal diameter 6-2.5 = 3.5 cm)

good position of uv-junction fixed against middle third of symphysis

normal-width 2.5 cm good-quality urethra_euo in anatomic position

incision at pvw edge with freshening of sphincter ani ends, minimal sharp dissection, <u>longitudinal</u> anorectum closure with adaptation_rhaphy of internal sphincter over 2.5 cm up to anocutaneous junction (with repositioning of anterior anus) by double layer of inverting interrupted/continuous serafit, inner ring of external sphincter adapted, end-toend external sphincter ani reconstruction by 2x serafit, perineal body repair with (in)di rect re-union of transversus perinei muscles and (in)direct posterior re-union of bulboca vernosus muscles by 2x serafit, perineum well adapted with anus in anatomic position, check on hemostasis



RR preanesthesia: 130/90 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80 surgeon: kees waaldijk

assistant: kabir lawal

diagnosis: PII (all alive), residual sphincter ani rupture with 1.5 cm <u>longitudinal</u> ano rectum trauma type **IIb** with anorectum prolapse following repair 4.6.11, stool_flatus incontinence, <u>still</u> living with husband, normal menstruation, no (h/o) drop foot R (grade 5) and L (grade 5), no vvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/wide pubic arch 95°, ar pos, operated 3x (2x zurmi + 1x b/r_acquire) **no longer mutilation** a/f 0 cm, i/v 12 cm never leaking urine 146.0 cm

operation: anorectum closure and sphincter ani_perineal body reconstruction

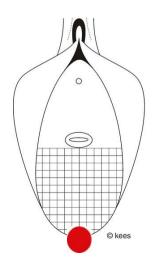
duration: 30 min (**step-by-step teaching**) healing 85% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision at pvw edge, minimal dissection with freshening of sphincter ani ends, <u>longitudinal</u> anorectum closure with adaptation_rhaphy of internal sphincter over 2 cm up to anocutaneous junction (with repositioning of anterior anus) by double layer of inverting interrupted/continuous serafit, inner ring of external sphincter adapted, endto-end external sphincter ani reconstruction by 2x serafit, perineal body repair with (in)direct re-union of transversus perinei muscles and (in)direct posterior re-union of bulbocavernosus muscles by 3x serafit, perineum well adapted with anus in anatomic position, check on hemostasis

it looks normal now: no longer anorectum mucosa prolapse

foley ch 18; free urine flow, euo/bw 13 cm, good elevation, euo/b 2 cm



RR preanesthesia: 130/80 mm Hg 5': 120/70 10': 120/70 postoperation: 120/70

pt 373 pt	katsina second obstetric fistula			vvf 8206 vvf
r a y (katsina)	female	30 yr	27.10.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	sis: PV (0 alive), <u>+</u> 0.2 cm 0 urethrovesicovaginal fistula L with circumferential defect type IIBb , two smooth-surface 2x1x1 cm and 3x2x2 cm bladded stones, leaking urine for 2 yr which started immediately following last or structed labor for 2 days, at home sb male, married 18 yr ago pre(mena che 1 yr later), not living with husband, normal menstruation, no drop for R (grade 5) and L (grade 5), no rvf, no yankan gishiri, no h/o eclampsia normal ap diameter/pubic arch 85°, ar pos, bilateral atf/atl + pc_ilc_isci loss, cervix mobile, successful repair delivery I (b/r_kees) obesity + euo/f 1 cm, f/c 2.5 cm, ab/au xx cm, i/v 12 cm			
operation:	stone removal + uvvf-repair + bila	ateral pcf refix	kation	
duration:	20 min	healir	ng 85% contine	nce 85%
anesthesia:	spinal L4/L5 with 3 ml bupivacair	ne 0.5%		

large transverse incision thru fistula/repair scar, sharp dissection, transverse further bladder opening, removal of both stones in one piece, transverse fascia repair/bilateral refixation onto paraurethra_euo atf with transverse bladder closure single layer of invert ing serafit with repositioning of euo, **no** urine thru suture line/euo on rest/cough/pres sure, triple fixation foley ch 18, transverse avw adaptation by 2x everting seralon, hemo stasis check; free urine flow, euo/bw 10 cm, good anterior elevation, euo/b 1.6 cm normal bladder capacity (longitudinal diameter 10-1.6 = 8.5 cm) poor position of uv-junction **fixed against** caudad third of symphysis normal-width 1.5 cm poor-quality urethra_euo in anatomic position



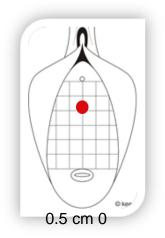
RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 374 katsina mdg vvf 104 anterior trauma					
h m m (kats	ina)	female	21 yr	27.10.11	
surgeon:	dr halliru idris				
assistant:	gambo lawal				
diagnosis:	PIII (2 alive), \pm 0.5 cm 0 urethrow leaking urine for 63 days which last labor for 1 day, in hospital <u>liv</u> 3 yr earlier), not living with husba 4) and L (grade 4), no rvf, no yar diameter/pubic arch 85°, ar pos euo/f 2 cm, f/c 4 cm, i/v cm	n started imm <u>ve</u> male, mari and, no mens nkan gishiri, r	ediately follow ried 5 yr ago p struation, drop no h/o eclamp	ving obstructed ost(menarche o foot R (grade	
operation:	uvvf-repair				

duration: 30 min healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru/at fistula edge, sharp dissection, tension-free transverse bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/pressure, foley ch 18, transverse avw adaptation by 2x everting seralon, hemostasis check; free urine flow, euo/bw 16 cm, good anterior elevation, euo/b 2.5 cm normal bladder capacity (longitudinal diameter 16-2.5 = 13.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 130/90 mm Hg 5': 120/70 10': 120/70 postoperation: 110/70

pt 375	katsina total circumferential trauma		vvf 105 cath 1372 rvf	
a a m g (kats	sina)	female	17 yr	27.10.11
surgeon:	dr kabiru abubakar			
assistant:	gambo lawal			
diagnosis:	PI (0 alive), <u>+</u> 3 cm 0 urethrovesicovaginal fistula type IIAb with circumfer entail defect, leaking urine for 3 mth which started immediately following cs bco obstructed labor for 2 days, sb male, married 3 yr ago post (menarche 6 mth earlier), not living with husband, no menstruation, drop foot R (grade 4) and L (grade 4), healed proximal pvw, no rvf, no yankan gishiri, no eclampsia; normal ap diameter/pubic arch 85°, ar pos, no stool /flatus incontinence, cervix fixed euo/f 1.5 cm, ab/au 1.5 cm, f/c 1.5 cm 146.0 cm			
operation:	circumferential uvvf-repair + bilat	eral pcf refixa	ation	
duration:	50 min	heali	ng	continence
anesthesia:	spinal L4/L5 with 3 ml bupivacaine 0.5%			

episiotomy L, incision at fistula edge, sharp circumferential dissection, advancement/ caudad fixation of anterior bladder onto symphysis/urethra, tension-free circumferential uvvf-repair by end-to-end vesicourethrostomy by single layer of inverting serafit, bila teral fixation of pc fascia onto paraurethra_euo atf/symphysis by 2x serafit each side, **no** urine thru suture line/euo on rest/cough/pressure, foley ch 18, transverse avw adap tation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 1.5 cm

normal bladder capacity (longitudinal diameter 11-1.5 = 9.5 cm) poor position of uv-junction **fixed against** caudad third of symphysis normal-width 1.5 cm medium-quality urethra_euo in anatomic position



RR preanesthesia: 120/70 mm Hg 5': 120/70 10': 110/70 postoperation: 110/70

pt 376	ka extensive total circumf	tsina erential obs	mdg 106 stetric trauma	
l k g_d (katsi	ina)	female	e 18 yr	27.10.11
surgeon:	dr kabiru abubakar			
assistant:	gambo lawal			
diagnosis:	PI (0 alive), total post extensive IIAb intrinsic_stress incontinence grade III, leaking urine whilst lying/sitting/standing/walking but no spontaneous miction following circ repair 24.9.10, not living with husband, normal men struation, drop foot R (grade 5) and L (grade 4-5); normal ap diameter/ pubic arch 85°, AR pos, bilateral atf/atl + pc_ilc_iscm loss + ssl_pm trau ma, moderate-severe vagina stenosis/shortening, transverse 5x1 cm pcf defect, cervix mobile deformed urethra_euo posteriorly pulled inside euo/bw 12, good elevation, euo/b 0.3 cm euo/c 1.5 cm 155.0 cm			
operation:	urethra/avw reconstruction			
duration:	45 min		healing 85%	continence 85%

wide H incision around deformed euo, sharp mobilization of para urethra tissue, tension-free <u>longitudinal</u> urethra reconstruction over 1.5 cm by single layer of inverting serafit, bilateral fixation of pc fascia onto para_euo atf/symphysis by 1x serafit each side, euo/b 1.5 cm, **no** urine thru euo on rest/cough/pressure, triple fixation of foley ch 18, avw reconstruction by avw_cervix advancement flap by 2-point fixatkion onto paraeuo symphysis by 1x seralon each side, check on hemostasis, episiotomy closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.5 cm) acceptable position of uv-junction **fixed against** middle/caudad third of symphysis normal-width 1.5 cm medium- to good-quality urethra_euo in anatomic position

pt 377	katsina	ı		vvf 8207
pt 378	anteriobilateral + cu	ıt-thru traum	na	rvf 1041
-				
a s r (katsina	a)	female	18 yr	28.10.11
surgeon: assistant:	kees waaldijk kabir lawal			
diagnosis:	PIII (0 alive), <u>+</u> 2 cm 0 urethroves rential defect within "healed" 6x2 sphincter ani rupture with 1.5 cm stool_flatus incontinence for following obstructed labor for 3 c post(menarche 1 mth earlier), no drop foot R (grade 4-5) and L (g no; normal ap diameter/ wide put ilc_iscm loss, cervix mobile euo/f 1.5 cm, f/c 4 cm, ab/au 1 c	cm transvers long anorect 43 days v lays, at home ot living with l rade 4-5), no pic arch 90°, a perineal su	e avw/pcf def sum trauma, l which started sb male, ma husband, no b yankan gisl ar pos, bilate turing 1x	fect, mutilated leaking urine/ d immediately arried 5 yr ago menstruation, hiri, eclampsia
operation:	circumferential uvvf-repair + bila	teral pcf refix	ation	

operation: circumferential uvvf-repair + bilateral pcf refixation

duration: 50 min (teaching) healing both 95% continence both 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru fistula, sharp circumferential dissection, advancement/caudad fixation of anterior bladder onto symphysis/urethra, tension-free circumferential uvvf-repair by end-to-end vesicourethrostomy by single layer of inverting serafit, bilateral fixation of pc fascia onto paraurethra_euo atf/symphysis by 2x serafit each side, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transver se avw adaptation by 2x everting seralon; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.3 cm

normal bladder capacity (longitudinal diameter 12-1.3 = 10.5 cm) poor position of uv-junction **fixed against** caudad third of symphysis normal-width 1.5 cm good-quality urethra_euo in anatomic position incision at pvw edge with freshening of sphincter ani ends, minimal sharp dissection, <u>longitudinal</u> anorectum closure with adaptation_rhaphy of internal sphincter over 2 cm up to anocutaneous junction (with repositioning of anterior anus) by double layer of in verting interrupted/continuous serafit, inner ring of external sphincter adapted, end-toend sphincter ani reconstruction by 2x serafit, perineal body repair with (in)direct reunion of transversus perinei muscles and (in)direct posterior re-union of bulbocaver nosus muscles by 2x serafit, perineum well adapted with anus in anatomic position, check on hemostasis **anterior sphincter ani loss due to operation**



RR preanesthesia: 120/80 mm Hg 5': 120/70 10': 120/70 postoperation: 100/70

pt 378 pt 377			rvf 1041 vvf 8207	
a s r (katsina	a)	female	18 yr	28.10.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PIII (0 alive), ± 2 cm 0 urethroves rential defect within "healed" 6x2 sphincter ani rupture with 1.5 cm stool_flatus incontinence for following obstructed labor for 3 d post(menarche 1 mth earlier), nd drop foot R (grade 4-5) and L (g no; normal ap diameter/ wide put ilc_iscm loss, cervix mobile, peri euo/f 1.5 cm, f/c 4 cm, ab/au 1 c	cm transvers long anorec 43 days lays, at hom ot living with rade 4-5), no bic arch 90°, neal suturing	e avw/pcf def tum trauma, I which started e sb male, ma husband, no o yankan gisl ar pos, bilate g 1x	fect, mutilated leaking urine/ d immediately arried 5 yr ago menstruation, hiri, eclampsia
operation:	circumferential uvvf-repair + bila	teral pcf refi	xation	

duration: 50 min (teaching) healing both 95% continence both 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru fistula, sharp circumferential dissection, advancement/caudad fixation of anterior bladder onto symphysis/urethra, tension-free circumferential uvvfrepair by end-to-end vesicourethrostomy by single layer of inverting serafit, bilateral fixation of pc fascia onto paraurethra_euo atf/symphysis by 2x serafit each side, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transver se avw adaptation by 2x everting seralon; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 1.3 cm

normal bladder capacity (longitudinal diameter 12-1.3 = 10.5 cm) poor position of uv-junction **fixed against** caudad third of symphysis normal-width 1.5 cm good-quality urethra_euo in anatomic position incision at pvw edge with freshening of sphincter ani ends, minimal sharp dissection, <u>longitudinal</u> anorectum closure with adaptation_rhaphy of internal sphincter over 2 cm up to anocutaneous junction (with repositioning of anterior anus) by double layer of in verting interrupted/continuous serafit, inner ring of external sphincter adapted, end-toend sphincter ani reconstruction by 2x serafit, perineal body repair with (in)direct reunion of transversus perinei muscles and (in)direct posterior re-union of bulbocaver nosus muscles by 2x serafit, perineum well adapted with anus in anatomic position, check on hemostasis **anterior sphincter ani loss due to operation**



RR preanesthesia: 120/80 mm Hg 5': 120/70 10': 120/70 postoperation: 100/70

pt 379 katsina vvf 107 anteriobilateral trauma				vvf 107
b r j-k (katsin	a)	female	17 yr	28.10.11
surgeon:	dr kabiru abubakar			
assistant:	kabir lawal			
diagnosis:	PI (alive), <u>+</u> 2 cm 0 urethrovesicov type IIAb , leaking urine of 1 yr whi obstructed labor for 2 days, <u>live</u> fe mth later), not living with husban foot for 2 mth R (grade 5) and L eclampsia; normal ap diameter/p pc_ilc_iscm loss, cervix fixed mid euo/f 2 cm, f/c 3 cm, ab/au 1 cm,	ich started male, mai nd, normal (grade 5), oubic arch Illine	immediately fo ried 4 yr ago pr menstruation, no rvf, no yan	llowing cs bco re(menarche 5 bilateral drop kan gishiri, no
operation:	uvvf-repair + bilateral pcf refixation	on		
duration:	50 min	he	aling 85% cor	ntinence 85%
anesthesia:	spinal L4/L5 with 3 ml bupivacain	ne 0.5%		

episiotomy L, incision at fistula edge, sharp dissection, tension-free transverse bladder /urethra closure by single layer of inverting serafit, bila teral fixation of pc fascia onto paraurethra_euo atf/symphysis by 2x serafit each side, **no** urine thru suture line/euo on rest/cough/pressure, foley ch 18, transverse avw adaptation by 2x everting seralon, check on hemostasis, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2 cm

normal bladder capacity (longitudinal diameter 12-2 = 10 cm)

acceptable position of uv-junction **fixed against** middle/caudad third of symphysis normal-width 2 cm medium-quality urethra_euo in anatomic position



RR preanesthesia: 130/80 mm Hg 5': 120/80 10': 120/70 postoperation: 120/70

30 yr

surgeon: kees waaldijk

assistant: kabir lawal

diagnosis: PVII (5 alive), large cystocele without urine intrinsic_stress incontinence, something coming out of vagina for 10 yr which started immediately following obstructed <u>third</u> labor for 1 day, at home <u>live</u> male, married 18 yr ago pre(menarche 1 yr later), <u>still</u> living with husband, normal menstrua tion, no (h/o) drop foot R (grade 5) and L (grade 5), no rvf, yankan gishiri no, eclampsia no; normal ap diameter/**wide** pubic arch 95°, ar pos, 1°-2° cervix "prolapse" **no** masked incontinence (after reduction) euo/c 7 cm **narrow** urethra_euo in anatomic position euo/bw 12 cm, poor elevation, euo/b 1.7 cm, i/v 12 cm 156.5 cm

operation: longitudinal fascia repair/bilateral fixation

duration: 25 min (**step-by-step teaching**) healing 95% continence 95%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse curved incision at 2 cm from euo parallel/within ruga folds, sharp dissection, 5x2.5 cm median longitudinal fascia defect from cervix upto 2 cm to euo, <u>longitudinal</u> pc fascia repair at 1.5-6 cm from euo by serafit, now euo/b 2.6 cm, **no** urine thru euo on rest/cough/pressure, bilateral fixation of fascia onto paraurethra atf by 1x serafit each side, triple fixation of foley ch 18, transverse avw_pcf/symphysis_atf_avw adaptation by 2x everting seralon, check on hemostasis; free urine flow, euo/bw 12 cm, good elastic anterior elevation, euo/b 2.6 cm (**urethralization**) cervix mobile but **no** prolapse normal bladder capacity (longitudinal diameter 12-2.6 = 9.5 cm) good position uv-junction **against** middle third symphysis good fascia plate good-quality pcm narrow 2.5 cm good-quality urethra_euo in anatomic position

pt 381	pt 381 katsina vvf 8209 anterior (ruptured bladder-uterus) + iatrogenic trauma			
a s w (katsin	a)	female	39 yr	29.10.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PXI (8 alive), " inoperable " ragged longitudinal \pm 4x2 cm 0 urethrovesico vaginal fistula type IIAa , leaking urine of 37 days that started immediate ly after tah-cs bco obstructed labor of 3 days, sb male, married 26 yr ago post(menarche 1 mth earlier), <u>still</u> living with husband, no menstruation, drop foot R (grade 3) and L (grade 3), no rvf, no yankan gishiri, no h/o eclampsia; normal ap diameter/pubic arch 85°, ar pos, vault fixed/moving euo/f 2.5 cm, f/v 0.5 cm, i/v 12 cm 151.0 cm			
operation:	ps-like longitudinal avw closure	9		
duration:	25 min	healir	ng 70%	continence 90%
anesthesia:	spinal L4/L5 with 3 ml bupivacaine 0.5%			

small episiotomy L, both ureter **identified** but cannot be catheterized, incision at fistula edge, sharp minimal dissection, the only thing possible is **ps-like longitudinal** avw closure by 7x everting seralon (with resulting inverting bladder adaptation), **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, hemostasis check, skin closure; free urine flow, euo/bw 12 cm, good anterior elevation, euo/b 2.5 cm normal bladder capacity (longitudinal diameter 12-2.5 = 9.5 cm) good position of uv-junction **against** middle third of symphysis normal-width 2.5 cm good-quality urethra_euo in anatomic position



pt 382	k	atsina	vvf	8210/3793/./7174
a s g (rép ni	ger)	female	30 yr	29.10.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PI, 3° cervix prolapse with post IIBb incontinence grade II, she comes for the prolapse, following multiple repairs 27.3.97 to 15.7.07 following sth- cs, <u>still</u> living with husband, no menstruation (hysterectomy) drop foot R (grade 5) and L (grade 3) with gc_at contracture up to 90°/0° dorsiflexion; normal ap /pubic arch 85°, empty pelvis due to major atf/atl_pc_io_ilc_ ism loss + sul trauma euo/bw 12 cm, poor elevation, euo/b 1.4 cm, i/v 10 cm 166.0 cm			.07 following sth- comy) drop foot R 0°/0° dorsiflexion; atf/atl_pc_io_ilc_
operation:	cervix fixation at L			
duration:	10 min		healing 95%	continence 50%

small incision L avw with extension up to cervix, sharp dissectio to create wound area, fixation of cervix onto L pubic bone by 2x seralon, euo/b now 2.8 cm, **no** urine thru euo on rest/cough/pressure, foley ch 18; check on hemostasis; free urine flow, euo/bw 12 cm, good anterior elevation at L, euo/b 2.8 cm

normal bladder capacity (longitudinal diameter 12-2.8 = 9 cm)

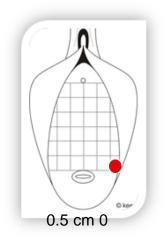
good position uv-junction against middle third of symphysis

"normal-width" 2.5 cm medium quality urethra_euo slightly pulled posteriorly inside

pt 383 pt	katsina third obstetric fistula mdg 047		vvf 8211 vvf 4753 cath aahaa	
h s r (katsina	a)	female	36 yr	29.10.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	PXI (0 alive), mutilated 0.5 cm 0 L, leaking urine for 2 yr which si last labor for 2 days, at home sb r yr later), <u>still</u> living with husband, 5) and L (grade 5), no rvf, no yan diameter/pubic arch 85°; transve cm stone removal 16.7.11 euo/f 4 cm, f/c 0 cm, i/v 12 cm	tarted imme male, marrie nor mal me kan gishiri,	ediately foll ed 25 yr ago nstruation, no h/o ecla	owing obstructed o pre(menarche 2 drop foot R (grade mpsia; normal ap
operation:	highly complicated uvvf-repair			
duration:	45 min	he	aling 80%	continence 95%

transverse incision thru repair scar/fistula, sharp dissection, excision of scar tissue ++, tension-free transverse **fibrotic** pcf repair with **highly complicated** bladder/urethra closure by single layer of inverting serafit, **no** urine thru suture line/euo on rest/cough/ pressure, triple fixation of foley ch 18, transverse avw/cervix adaptation by 2x everting seralon, hemostasis check; free urine flow, euo/bw 13 cm, good anterior elevation, euo/b 3.1 cm

normal bladder capacity (longitudinal diameter 13-3.1 = 10 cm) good position of uv-junction **against** middle third of symphysis normal-width 3 cm good-quality urethra_euo in anatomic position



RR preanesthesia: 130/80 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80

pt 384 pt pt	katsina m second obstetr	0	19 vvf 8212/	7650/7849 vvf 4556 vvf 5113
a b b (katsir	na)	female	26 yr	30.10.11
surgeon:	kees waaldijk			
assistant:	kabir lawal			
diagnosis:	residual \pm 0.5 cm lungu fistula R with total post extensive IIBb intrinsic incontinence following multiple repairs 2.6.01 to 17.07.11, <u>still</u> living with husband, normal menstruation, drop foot R (grade 3) and L (grade 5) both with gm_at contracture up to 90°/0° dorsiflexion, no rvf, no yankan gishiri, no eclampsia; normal ap diameter/narrow pubic arch 75°, ar pos, bilateral major atf/atl + pc_ io_ilc_iscm loss, severe shortening, cervix fixed i spine R			

fixed i spine R **"open"** urethra_euo with **objective** stress ++ euo/f 4 cm, f/c 0 cm, i/v 6 cm 154.5 cm

operation:	uvvf-"repair"
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20 min

duration:

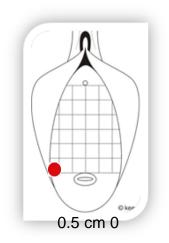
last resort final

healing 70% continence 70%

anesthesia: spinal L4/L5 with 3 ml bupivacaine 0.5%

transverse incision thru fistula, sharp dissection, excision of scar tissue +, tension-free transverse bladder/atf/urethra closure by 1x serafit cross, **no** urine thru suture line/euo on rest/cough/pressure, triple fixation of foley ch 18, transverse avw/cervix adaptation by 2x everting seralon, hemostasis check; free urine flow, euo/bw 11 cm, good anterior elevation, euo/b 2.2 cm

normal bladder capacity (longitudinal diameter 11-2.2 = 9 cm) good position of uv-junction **against** middle third of symphysis normal-width 2 cm medium-quality urethra_euo in "anatomic position"



RR preanesthesia: 130/90 mm Hg 5': 130/80 10': 130/80 postoperation: 130/80