National VVF Project Nigeria

obstetric fistula surgery training

training of 20 consultants and 20 nurses

5 training workshop sessions of 14 days of 4 doctors and 4 nurses each

Babbar Ruga National Fistula Teaching Hospital Katsina

Laure Fistula Center
Murtala Muhammad Specialist Hospital
Kano

report

second session

training of 4 consultants and 5 nurses

from monday 27.06 thru sunday 10.07.11

kees waaldijk MD PhD

shief consultant curacan

from now onwards operation report added to other particulars and handed over to the patient since that is

where they belong

and for other doctors to read at subsequent pregnancies

and to take appropriate action at subsequent deliveries

obstetric fistula surgery training

second session

Laure Fistula Center

Murtala Muhammad Specialist Hospital

Kano

introduction

as based on our 35,000 repairs with evidence-based success of 97-98% at closure and the training of 350 doctors and 340 nurses since started in 1984,

we were approached by mdg to train 20 doctors and 20 nurses in the basics of the obstetric fistula and its (surgical) management during a training programme of 14 days

we set out a strategy for this novel type of training to make the most of it and we came up with an intensive training course of some 120-140 hours of theoretical lectures and practical surgical sessions whereby the quality to our patients and to our training will be guaranteed

it should be considered an intensive exposure as an introduction to the complicated complex trauma of the obstetric fistula and its (surgical) management

for this we will follow the internationally approved/accepted isofs-figo-rcog training manual as state-of-the-art guidelines

throughout the training course the accent will be on the quality and not on the quantity; for this we plan 3 operations per operating bed for 12 days; that will be 72 operations during the 2 weeks of training; or a total of 360 operations during the 5 sessions of 2 weeks

continuous monitoring will be provided by mdg, fmoh and ktmoh

a comprehensive evaluation report will be produced at the end of each 2-week training session and for the whole training programme

obstetric fistula surgery training

second session

Laure Fistula Center

Murtala Muhammad Specialist Hospital

Kano

executive summary

the trainees arrived monday 27.06.11 and were handed a cd-rom with 5 books about the obstetric fistula, the isofs-figo-rcog training manual, a logbook and questionnaire for active participation, self-study and self-evaluation

however, none of the doctors was a consultant which made the training even more difficult since the basics in theory and practice are not present though they had a variable experience in obstetrics/gynecology

all the participants insisted that we should stick to the normal working hours and some complained about working on saturday and sunday

since nobody was willing to volunteer for the recaps we skipped it; it shows the level of commitment; this is not a kindergarten

the program was run from monday 27.06 thru saturday 09.07 for a full 13 days of 8 hours each from 8.00 thru 16.00 hr starting and ending with a wardround with in between surgery and lectures

on special request by all the trainees spinal anesthesia became part of the training course and all the 9 participants were able to practice

a total of 76 operations were performed; however, considering the difficulty grading there was only one small type IIAa fistula which was operated by a trainee doctor under strict supervision with good result; the rest was from complicated to very complicated

this is due to the fact that many patients turned up who had been operated several times by different surgeons in different centers; resulting in **last resort final proce dures 9x** and assessment of **inoperable fistulas 6x**

a questionnaire was filled out by all participants for self-evaluation

a total of 10 clinical and 8 classroom lectures were delivered where all the different topics were highlighted with special emphasis on the complex obstetric trauma in its broadest sense including total 3° cervix prolapse

by the end of the course all the participants had a far better understanding of the complex trauma of the obstetric fistula and its causes and of the urine and stool continence mechanism in the female

however, considering the limited time it can only be considered as an introduction to its (surgical) management; but at least they all know exactly what not to do which is very important

their conclusion was to refer the obstetric fistula patients to a center where the neces sary expertise is available since the surgery was too difficult for them

the whole training was executed according to the guidelines of isofs-figo-rcog competency-based training manual

all the trainees were supposed to keep meticulous documentation of what they saw, did and learned in their logbook

the trainees travelled home on saturday 09.07.11

obstetric fistula surgery training

second session

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Murtala Muhammad Specialist Hospital

Kano

logbook

training of 4 consultants and 5 nurses

from monday 27.06 thru sunday 10.07.11

day 0

15.00

sunday 26.06 katsina 7.00 catheter treatment 6x + surgery 3 operations + administration 14.00 traveling of chief surgeon by road to kano 17.15 arrival at hotel 17.30 supposed arrival of participants but only 2 turned up day 1 monday 27.06 preparation of facilities 7.00 9.00 introduction of participants, explaining the training to all participants, explaining the logistics/financial implications by representative of FMOH 10.00 surgery 87+88 complicated bilateral ureter catheterization + uvvf-repair + bilateral pcf fixation of type IIAa fistula and rvf-repair of type Ia fistula in one patient para III (0 alive) 89 continent euo rhaphy/urethra/pcf/avw reconstruction as last resort in para I (0 alive) following urethra/rvf-repair after yankan gishiri fistulas and then uvvf-repair of obstetric type IIBa fistula **90** uvvf-repair of type **IIAa** fistula in para I (0 alive) selection of patients for the training workshop 13.00 14.30 postoperative wardround

end of the working day

day 2

tuesday 28.06

7.00 preparations for the day

8.00 wardround

8.30 surgery with step-by-step teaching

91 state-of-the-art lecture and demonstration of reconstructive surgery in **mutilated** sphincter ani rupture **IIb** with preoperative theoretic teaching of the stool continence mechanism, explanation and demonstration of spinal anesthesia, **step-by-step** reconstruction of internal sphincter (anorectum), end-to-end sphincter ani reconstruction ani and repair of perineal body with (in)direct re-union of transversus perinei and bulbocavernosus muscles in para I (1 alive) already operated 2x, now 58 days post partum

92 repair of minute tah-cs type **I** fistula by **early closure minimum surgery** in para XII (8 alive)

93 repair of **extensive** type **IIBa** fistula as result of **infection (boil)** at 3 yr of age, leaking for 33 years, as **first stage minimum surgery** in para VI (1 alive)

94 continent urethra/fascia/avw reconstruction of type **IIBb** operated 2x in para I (0 alive) with severe scarring, poor-quality tissue and total cervix fixation pulling on repair

95 complicated 4/5 circumferential uvvf-repair of type **IIAb** fistula in para I (0 alive)

96 vvf-repair of type **I** fistula as **early closure** in para IX (3 alive) due to anterior trauma

97 repair of type I fistula in para IV (1 alive)

lecture

a. stool continence mechanism, pathophysiology and development of sphincter ani rupture as **cut-thru** trauma and systematic reconstruction of the functional anatomy in this complex trauma

14.00 selection of patients

15.30 wardround of postoperative patients

16.15 end of the working day

day 3

wednesday 29.06

7.00 preparations for the day

8.00 wardround

8.30 surgery: with step-by-step teaching

98 state-of-the-art lecture and demonstration of cervix/pcf fixation onto levator ani muscle fascia thru superior pubic bone periost/atf/atl/internal obturator and levator ani muscles in para IV (3 alive) with total 3° cervix prolapse for 9 yr which started spontaneouöls after delivery I at 16 yr of age

99 end-to-end reconstruction of small anterior sphincter ani defect + perineal body reinforcement as **last resort** in severely obese para IX (all alive) complaining about tusa pv

100 early closure minimum surgery with transverse por repair/bilateral fixation of type **IIAa** or **IIBa** fistula in para I (0 alive)

101 early closure of **retracted** type **IIAa** fistula within 4x1 cm pcf defect by trainee doctor under direct supervision of chief surgeon in para II (1 alive)

102 uvvf-repair of type **IIAa** fistula as **early closure** in para I (0 alive) due to anterior trauma

103 complicated repair of mutilated type IIBa fistula in para VI (4

alival aparated and alaquibara

104 urethra reconstruction of **mutilated** type **IIBa** fistula in para I (0 alive) already 3x operated elsewhere

105 catheter treatment of **necrotic** type **IIAa** fistula of 10-day duration in para I (0 alive)

lecture

b physiopathology and development of total 3° uv prolapse in relation to pelvis (span too wide), sacrouterine ligaments and pubocervical fascia with **mini-invase** uterus-sparing fixation

15.00 selection of patients

16.00 wardround of postoperative patients

logbook discussion with tranee doctors about his own procedure

16.30 end of the working day

day 4

thursday 30.06

7.00 preparations for the day

8.00 wardround

8.30 surgery with st ep-by-step teaching

106 state-of-the-art lecture and demonstration of uterus-saving fixation of cervix/pcf in 3° total cervix prolapse with total intrinsic-stress incontinence grade III in para III (1 alive)

107 urethralization by longitudinal fascia repair/bilateral para-euo fixation of total post **IIBb** postdelivery urine intrinsic-stress incontinence as **last resort** in para VI (1 alive) with **3rd obstetric leakage/fistula** who still delivered at home after 2 days of labor

108 + 109 urethralization + pcf fixation as **last resort** in **mutilated** total post **IIAb** intrinsic—stress incontinence grade III and rvf-"repair" in **mutilated** type **la** rvf in para I suffering for 7 yr and operated 4x elsewhere

110 dilatation, repair and pcf refixation of minute type **Ab** fistula with seve re uv-stricture as **second obstetric** fistula in para II (0 alive) after suc cessful circumferential repair after delivery I

111 repair of residual type **IIAb** fistula in para XI (7 alive) after **complica ted** repair after 1x operation elsewhere

112 bladder neck elevation by pcf fixation in total post **IIAb** urine intrinsic-stress incontinence in para II (0 alive) being completely ok for 1.5 yr until period of lower abdominal pain/fever (?miscarriage?)

113 repair of residual lungu fistula R after proximal pouch of **extensive in operable IIAb** fistula since everything fixed in para VI (3 alive) with rvf **healed**

114 repair of recurrent type **IIAb** fistula after urethralization for post IIAb total urine intrinsic_stress kincontinence in para I (0 alive)

bladder neck elevation in total post extensive IIAb; rvf healed

15.30 postoperative wardround 16.00 end of the working day

day 5 friday 01.07

7.00 preparations for the day

8.00 wardround

8.30 surgery with step-by-step teaching

115 + 116 state-of-the-art lecture and demonstration early closure of type IIAa fistula with special emphysis on the urine continence mechanism in the female and step-by-step reconstruction of anorectum, sphincter ani with adaptation of perineal body with special emphasis on

the stool continence mechanism in the female in para I (alive) with **inflammation/ contamination ++** after immediate suturing pp

117 repair of type **IIAa** fistula as **early closure** immediate management in para I (0 alive with ar neg and flatus incontinence

118 uvvf-repair of type IIAa in para II (1 alive) already operated 1x else where

11.30	chief surgeon	travelled	back to	katsina

15.00 arrival in babbar ruga hospital

18.00 end of the working day

day 6 saturday 02.07

katsina

7.00 selection of patients + preparations for the day

119 catheter treatment of large **necrotic** type **IIAa** fistula with **necrotic** type **Ia** rvf in para II (1 alive) leaking for 6 days

120 catheter treatment of small type **IIAa** fistula within 4x1 cm transverse avw trauma/pcf defect in para III (1 alive) with anterior sphincter ani trau ma; leaking for 2 mth

121 catheter treatment of extensive type **IIAb** fistula, **necrotic** proximal pvw and total breakdown of episiotomy L with visible stool incontinence of 12-day duration

122 catheter treatment of small **scarred** type **IIAa** fistula of 21-day dura tion following yankan gishiri by wanzami bco not sleeping with husband in 13-yr-old para 0

123 first bladder drill for 2-4 weeks for urge incontinence **++** in 13-yr-old para 0 (already divorced by husband) who started to leak 7 yr ago following period of high fever; if not responding then for further examina tion/decision

124 primary suturing **minimum surgery** of **severely mutilated** type **IIAa** fistula following vaginal hysterectomy bco total 3° cervix prolapse in para VIII (4 alive)

125 assessment of **extensive** type **IIBb** fistula due to **total circumferen tial trauma** in para I (0 alive); **inoperable now** since everything fixed at 71–day duration; probably "**operable**" after 6-8 mth since good bladder capacity; (sub)total avw loss

126 complicated repair of type **I** tah-cs-vcv fistula as **second** obstetric fistula in para III (1 alive); due to **severe obesity**

127 distal urethra_euo reconstruction as **last resort** in post **IIBb** total urine intrinsic_stress incontinence in para I (0 alive); both urine/stool fistulas **healed**

128 closure of sigmoidostomy (elsewhere) after successful type **Ib** recto vaginal fistula repair in para I (0 alive) also with **extensive inoperable** type **IIBb** urine fistula

wardround
surgery
wardround
selection of partients for next day + administration
end of working day

kano no operations since all the staff of kano state is due for personal screen ing of their employment particulars

day 7

sunday 03.07

katsina

preparations for the day 7.00

8.00 wardround

surgery with step-by-step teaching 8.30

> 129 state-of-the-art bilateral ureter catheterization and repair with trans verse fascia repair of large vankan gishiri type IIAa fistula bco total 3° cervix prolapse; **nb** she was planned for cervix fixation but decided to go for yankan gishiri by wanzami

> 130 continent state-of-the-art urethralization of total post IIBb urine intrinsic-stress incontinence in para I (0 alive) leaking for 14 years; 5x operated also for rvf; with repair of dehiscent perineal body for better

configuration of both urine/stool continence mechanisms

12.30 wardround

13.30 traveling of chief surgeon by road to kano

17.00 arrival in hotel

kano no operations since clinic day

12.00 wardround

12.30 screening of new patients including history, examination, height etc and

instructions about personal hygiene and drinking

examination of patients coming for follow-up at different stages following

their repair

17.00 end of the working day

day 8

monday 04.07

preparations for the day 700

800 wardround

surgery with step-by-step teaching 8.30

> 131 state-of-the-art continent urethralization/fascia/avw reconstruction for third consecutive obstetric leakage now post IIBb delivery total urine intrinsic-stress incontinence in para III (1 alive) as last resort; had successful uvvf/rvf-repair for extensive obstetric trauma during delivery I **132 step-by-step** teaching of 4/5 circumferential vesicourethrostomy with transverse fascia repair/bilateral refixation onto paraurethra euo atf of type **IIAb** fistula in para I (0 alive) not healed by catheter treatment

> 133 state-of-the-art circumferential dissection and circumferential bladder fixation into "euo" as first stage in reconstruction of extensive type **IIBb** fistula whereby bladder neck slipped upwards and got fixed to cephalad brim of symphysis in para I (0 alive) as part of immediate management; if necessary for continent urethra/fascia reconstruction as second stage

> **134** repair of type **IIBa** fistula as first stage in para I (0 alive) operated 1x elsewhere

> 135 catheter treatment of total postpartum urine intrinsic-stress inconti nence grade III in para I (0 alive) leaking for 17 days

> **136** catheter treatment of total postpartum urine intrinsic-stress inconti nence grade III in para I (alive) leaking for 8 days

13.30 selection of patients

14.00 **lectures**

> a the complex trauma of the obstetric fistula **b** pelvis anatomy and pelvis floor anatomy

c the pressure gradient of obstructed labor in relation to pelvis floor

15.00	postoperative wardround
15.30	end of the working day

day 9

tuesday 05.07

7.00 preparations for the day

8.00 wardround

8.30 surgery with step-by-step teaching

137 state-of-the-art lecture + step-by-step demonstration of urethraliza tion by longitudinal fascia repair of 6x2 cm median defect with bilateral retraction + bilateral fixation to para-euo atf of genuine postpartum total urine intrinsic-stress incontinence grade III in para I (alive) leaking urine for 1 yr; with urethra length of 0.4 cm

138 minimum surgery for **severely mutilated** type **IIAa** fistula in para I (0 alive) from ondo state after abdominal repair and vaginal repair else where; leaking for 14 yr

139 complicated repair of **mutilated** sth-cs type **I** fistula in para VIII (4 alive) operated 2x; leaking urine for 15 yr; for rvf-repair as 2nd stage

140 assessment under anesthesia of **inoperable extensive** 1 cm 0 type **IIAb** fistula operated 10 yr ago as **last resort final** with only one try possible; rvf **healed**

141 repair of type I fistula in para I (0 alive)

13.00 selection of patients

14.00 lectures

d obstetric pubocervical fascia defectse sphincter ani rupture; a complex trauma

f fistulas for beginners

15.00 wardround

15.30 end of the working day

day 10

wednesday 06.07

7.00 Dieparations for the da	7.00	preparations for the day
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8.00 wardround

8.30 surgery with step-by-step teaching

142 demonstration of what goes wrong if the trauma is not understood well and what to do **step-by-step** to correct it in residual sphincter ani rupture type **IIb** in para II (all alive) repaired 1x; the **meticulous repair** of the internal sphincter cannot be overstressed

143 state-of-the-art continent urethra/fascia/avw reconstruction second stage after nicely healed circumferential bladder fixation as first stage minimum surgery of extensive type IIBb fistula in para I (0 alive)

144 + 145 catheterization R ureter and repair of large type **IIAa** fistula with re-inforcement of sphincter ani + perineal body in para V (2 alive) opera ted 2x for sphincter ani rupture

146 uvvf-repair as **early closure** of type **IIAa** fistula in para I (0 alive); lea king 28 days

147 closure of recurrent type **IIBa** in para IX (all alive) following success ful closure and then urethralization; went for another surgery with this fistula as result

148 urethralization by fasciorrhaphy and bilateral fixation of pc fascia in post **extensive IIAb** total urine intrinsic-stress incontinence in para I (0 alive) leaking urine for 11 yr

14.00 selection of patients

no lasturas sinas participants left us to collect their calany for iuna

14.45	postoperative wardround
15.15	end of the working day
day 11	7.07
thursday 0 7.00	preparations for the day
8.00	wardround
8.30	surgery with step-by-step teaching
	149 lecture and demonstration of the complicated repair of minute
	type IIAa fistula with objective total urine intrinsic_stress incontinence where the dye was needed to indentify the fistula after
	dissection/excision of scar tissue in para VI (1 alive) leaking for 5 yr
	150 continent urethra/fascia/avw reconstruction as last resort in
	second now extensive type IIBb fistula in para II (0 alive) after
	successful clo sure + urethra reconstruction after delivery I 151 + 152 assessment of inoperable mutilated type IIBb fistula and
	inop erable type la fistula in para I (0 alive) leaking urine/passing stools
	pv for 20 yr and operated 1x in university teaching hospital; severe
	stone-hard fibrosis/scarring
	153 vvf-repair as early closure of type I fistula in para II (0 alive) leaking for 39 days
	154 gradual dilatation of severe introitus stenosis and catheter
	treatment of overflow incontinence due to atonic bladder in para I (0
14.00	alive) lectures
14.00	g clinical lecture + demonstration of the complexity of minute fistulas
	h spinal anesthesia and its advantages by dr idris suleiman abubakar
15.00	postoperative wardround
15.30	end of the working day
day 12	
friday 08.07	
7.00	preparations for the day wardrouind
8.00 8.30	surgery with step-by-step teaching
0.00	155 uvvf-repair with bilagteral pcf (re)fixation of second obstetric type
	IIBb fistula after successful urethra/avw reconstruction 15 years ago in
	para II (0 alive)
	156 repair of third obstetric intracervical type I in para VII (3 alive) after catheter treatment post delivery IV and cs-vcvuvf-repair post delivery VI;
	nb patient reported to hospital for booked elective cs, she spent 2 days
	in the hospital and then delivered vaginally without any action taken
	157 urethra reconstruction of extensive type IIBb as last resort final in para I (0 alive) operated 3x; the problem: right from the beginning she
	presented with severe scarring/fibrosis with vagina depth of only 4 cm
11.00	lectures
44 45	i pre-, intra- and post-operative care by dr amir imam yola
11.45 12.00	postoperative wardround end of the working day so that everybody can prepare for the mosque
12.00	ond of the working day so that everybody dan propare for the mosque
day 13	

day 13 saturday 09.07 7.00 pre

preparations for the day wardround

8.00

8.30	surgery	with	step-	bv-ste	p teaching
0.00			OLOP	\sim $_{\rm J}$	p

158 demonstration of longitudinal repair of 4x1.5 cm pc fascia defect with bilateral refixation onto paraurethra-euo atf + excision of mutilated avw in post **IIAb** total urine intrinsic-stress incontinence grade III in para I (0 alive)

159 final assessment under spinal anesthesia of inoperable type IIBb fis tula after successful rvf-repair in para I (0 alive) due to severe scarring/ everything fixed

160 disobliteration of neourethra with uvvf-repair of **second** obstetric type **IIBb** fistula in para IV (0 alive)) who delivered at home after a 3-stage repair of extensive fistula post delivery III

161 repair of type **IIa** rvf as **first stage** in para I((0 alive) with also **extensive** type **IIBb** fistula operated 1x elsewhere and leaking/passing stools pv for 16 yr

162 uvvf-repair of **second** obstetric type **IIAb** fistula in para III (0 alive) who delivered at home ("miscarriage" of sb male) after successful repair post delivery I

12.00 evaluation of the training programme by trainees and trainers

small closing ceremony

handing out certificates to participants

farewell wishes

13.00 postoperative wardround

13.30 chief surgeon travelled by road to katsina

15.00 administrative work19.00 end of the working day

day 14 sunday 10.07

7.00 preparartions for the day

8.00 wardround

8.30 surgery + preparations for the 3rd training session in katsina starting with the arrival of the trainees today

sincerely yours,

participants

dr charles onyra	pmo	gen hosp	gwarzo
alh yusuf abdullahi dannafada	po nurse	gen hosp	gwarzo
hajiya binta waziri kin	acno	gen hosp	gwarzo
dr aminu a gumel	smo	fmc	b/kudu
hajiya mariya garba Hassan	cno	fmc	b/kudu
dr adamu tella garba	pmo	gen hosp	gezawa
alh nadabi mohammed shitu	cno	gen hosp	gezawa
hajiya dije adamu gaya	cno	gen hosp	gezawa
dr gabari habib dauda	pmo	mmsh	kano

trainers			
dr idris suleiman abubakar	consultant obs&gyn	akth	kano
dr amir iman yola	pmo	mmsh	kano

facilitators pre-, intra- and post-operative care

alh abdullahi haruna	cno	babbar ruga hospital
		•
hajiya binta musa	cno	mmsh
hajiya asma'u mado	cno	mmsh
hajiya mairo ahmed	cno	mmsh
hajiya zainab mohammed	cno	mmsh
hajiya usaina suleiman	no	mmsh

chief trainer

dr kees waaldijk chief consultant surgeon babbar ruga hospital

acknowledgment

since MDG, the **main sponsor of this training programme**, is highly interested in cooperation and since this training is only possible by contributions of other parties in the past and present

I would like to commend the following organizations/individuals

Federal Ministry of Health will select the trainers and trainees and will monitor the training and is responsible for all the logistics and will handle the available funds

UNFPA for combining their pooled efforts with this training programme

Katsina State Government for their financial, moral and personnel support

Kano State Government for their personnel support

The Yar'adua family of Katsina for building our first postoperative ward and for their continuing major support

Service to Humanity Foundation for donating our operating theatre etc

MDG Katsina for donating 4 high-quality wards, 2 powerful Perkins generators and 2 ambulances etc

USAID_Acquire for renovating our training/teaching class room and for providing the hospital with internet facilities

SK Foundation with TTT Foundation for sponsoring the running cost for 17 years; without this there would be no national project

WAHA-international for sponsoring the running costs for the last 1.5 yr for supplying computers etc and for developing teaching/training materials

Family care for their rehabilitation programme

Hajiya Amina Sambo, former president of National Task Force on VVF

Other individuals and organizations who provided support during the last 27 years like feeding our patients etc

ISOFS for developing the training manual

FIGO for developing the training manual

RCOG for developing the training manual

last of all, each and every of the staff of Laure Fistula Center of Murtala Muhammad Specialist Hospital in Kano and of Babbar Ruga Fistula Teaching Hospital in Katsina since it is team work that counts