

W1: Innovations in Obstetric Fistula Surgery

Workshop Chair: Sohier Elneil, United Kingdom 13 September 2016 09:00 - 10:30

Start	End	Торіс	Speakers
09:00	09:15	Welcome and Overview of OF Complications	Christopher Payne
09:15	09:45	Evaluation / Treatment of Post OF Incontinence	Dirk de Ridder
09:45	10:10	Sexual Dysfunction / Vaginoplasty After OF Surgery	Fekade Ayenachew
10:10	10:30	Questions	All

Aims of course/workshop

- Understand that a large percentage of patients suffer ongoing problems after "successful" OF surgery.
- Explain the types of post-OF urinary incontinence and the risk factors
- Develop a logical, efficient approach to evaluation of post-OF incontinence
- Describe the surgical treatment options for post-OF incontinence
- Identify techniques for prevention and treatment of post-OF sexual dysfunction

Target Audience

Physicians, Physiotherapists, Nurses, Paramedical Staff, Health Economists

Advanced/Basic

Advanced

Dirk De Ridder

Obstetric fistula can be successfully closed in many women. In some women incontinence will persist due to a persistent fistula. In other women stress incontinence and/or OAB and/or poor bladder compliance can lead to severe incontinence. We will discuss preventive measures that can be taken during the fistula repair as well as the diagnostic possibilities and treatment options for post OF repair incontinence.

Complications of Obstetric Fistula Surgery: the hole is closed but all is not well

Christopher K. Payne, MD

Vista Urology & Pelvic Pain Partners Emeritus Professor of Urology, Stanford University

Christopher Payne, MD	С
Affiliations to disclose ⁺ :	
Allergan—consultant	
Astellas—consultant	
Seikagaka—consultant	
t All financial ties (over the last year) that you may have with any business organisation with respect to the subjects mentioned during yo	ur presentation
Funding for speaker to attend:	
Self-funded	

- Institution (non-industry) funded
- X Sponsored by: *ICS Board of Trustees*

Workshop Reminders

All handouts available on ICS website



Evolving World of Obstetric Fistula

- The past: develop awareness
 - Lewis Wall
 - Walk to the Beautiful
 - Nicholas Kristof
- The present: significant progress
 - Many outstanding fistula surgeons
 - Declining numbers of cases
 - Rising awareness of obstetric complications
- The future: safe deliveries for all

OF in Transition

- Fewer cases, better surgeons → OUTCOMES
- Parallel to studying SUI surgery 1990s
- To know outcome we need:
 - Anatomic outcome
 - Functional outcome
 - Patient perspective
 - Durability

Lessons from one center





6 Month Follow-up OF Repair

- Anatomic outcome—Dye test
- Functional outcome—no
- Patient perspective—wet or dry
- Durability—6 months

Ouedraogo, I, et. al.: Int Urogyn J, in press

6 Month Follow-up OF Repair

Difficulty of Repair	Number of Cases	"Closed and Dry"	"Closed but Wet"	Failed Repair
Easy	98	88 (90.0%)	3 (3.1%)	7 (7.1%)
Intermediate	99	54 (54.5%)	22 (22.2%)	23 (23.2%)
Difficult	187	65 (34.8%)	38 (20.3%)	84 (44.9%)
TOTAL	384 (100%)	207 (53.9%)	63 (16.4%)	114 (29.7%)

Ouedraogo, I, et. al.: Int Urogyn J, in pres

6 Month Follow-up OF Repair

- Sexual Function—No data
- Functional outcome—No data
- Patient perspective—Important/Limited
- Durability—Significant contribution

Ouedraogo, I, et. al.: Int Urogyn J, in press

Our Panelists

- Dr. Dirk de Ridder
 - Professor of UrologySurgeon in Congo
 - 8 8
- Dr. Fekade Ayenachew
 - Director of Surgery, Hamlin Fistula Center
 - Urogynecology Fells





Surgery for low fistula

Dirk De Ridder, MD, PhD, FEBU University Hospitals K.U.Leuven, Belgium St. Luc Hospital, Kisantu, RD Congo

> 127 Hensman 49 www.admonton Lamm 8 - 2020 Lamm Hel-122 (6 32 22 1) UNIVERSITY HOSPITALS LEUVEN

Complications

- Recurrent /persistent Fistula:
 Success rate of uncomplicated vesicovaginal fistula (VVF) 70-80%
 Success rate of complicated VVF 50-60%
- Infections: wound, UTI and pyelonephritis and urosepsis
- Voiding Dysfunction (overactive bladder incomplete micturition – Dysuria)
- Ureteric obstruction (ligation fibrosis injury)
- Outlet obstruction
- Bladder contracture

- Vaginal stenosis (overcorrection fibrosis)
- Sexual dysfunction (vaginismus dysparunia)



Assessment

- Clinical examination
- Assessment of urethral function
- Assessment of bladder function



Clinical diagnosis

- -Location
- -Size
- -Urethral involvement
- -Scarring
- -Ureters
- -Posterior wall







Assessment of urethral function

- · Inspection and Palpation
- Bonney test during cough & Valsalva
- Measure length with graduated catheter
- Assess mobility
- E.g. Q-tip test



Assessment of bladder function

- · Capacity?
 - Fill with catheter
 - Eye-ball urodynamics
 - 'bladder length'
 - <8cm : reduced bladder capacity (Waaldijk)</p>





OAB

- History
- Clinical exam
- Urodynamics



TREATMENT



Secondary fistula repair SUI procedures Vaginal reconstruction Ureterosigmoidostomy





Fistula repair

- Identifying the fistula
- Gaining access and exposures
- Incision, dissection and mobilisation
- Closure of the fistula
- Continence
- Post-op care



Complex fistula

Postoperative incontinence Urethral involvement Large size: for each cm Vaginal scarring Low bladder capacity

- OR 8.4 OR 1.34 OR 2.4

Principles of closure Same as for simple fistula

- Additionally
- Maintain urethral length
- Urethra <2.4cm, urethral defect > 4mm: add slingprocedure
- If done so: reduction of postop incontinence by 50%

Browning 2004, 2006, Waaldijk 1994

OR 4.1



Suburethral fibro-muscular sling









Urethra without support

Dissection of fibromuscular flap





Harvesting of fibromuscular flap



Forming a sling by bringing both fibromuscular flaps together over the midline

Alternative techniques

- Vesical rotational flaps
- · Transvesical repairs
- Bladder augmentation techniques with ileal interposition
- Bladder urothelial graft
- Combined abdominal/perineal approach
- Urinary diversion

Goyal 2007, Kapoor 2007



Post-op care

- Bladder drainage 10-14d
- Preferably silicon catheters
 Larger internal diameter
- · High fluid intake
 - Prevent cloth formation, hematuria
- No need for standard antibiotics
- · Supervise/train nursing staff
- Provide pelvic floor therapy



Experience with a low-pressure colonic pouch (Mainz II) urinary diversion for irreparable vesicovaginal fistula and bladder extrophy in East Africa

Mark A. Morgan • Mary Lake Polan • Habte H. Melecot • Berhane Debru • Ambereen Sleemi • Amreen Husain

- · 35 women , 55% had previous repairs
- LoS 21 days
- FU in 29 pat. was 18 months
- Nighttime incontinence 31%
- Acidosis 91%
- 4 died from sepsis

Int Urogynecol J (2009) 20:1163-1168





CAB Bladder training Medication Oxybutinin if available Bladder augmentation

Bladder emptying disorders

- Obstruction

 Urethroplasty ?
- Intermittent catheterisation
 - Reusable catheters



Conclusions

- Complications occur often and must often be investigated with minimal means
- A large armamentarium of skills is required to treat OF complications

