Obstetric Fistula

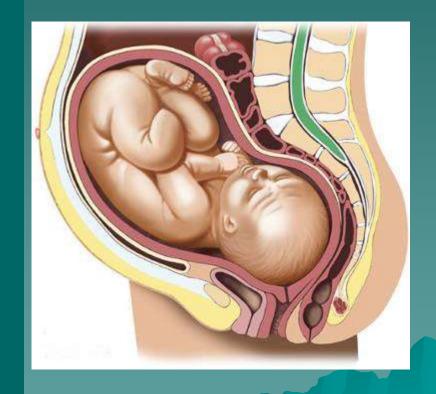
C-H Rochat, MD

Geneva Foundation for Medical Education and Research (www.gfmer.ch)
Faculty of Health Sciences Cotonou, Benin

Training Course in Sexual and Reproductive Health Research
Geneva 2010

Definition

- Tissue destruction secondary to the prolonged pressure of the head during obstructed labour (ischaemic laesion)
- Tissue laceration during instrumental delivery, Caesarean section or Caesarean hysterectomy



Problem

- Abandoned from their families
- Co-morbidity
 - Infections
 - Bladder stones
 - Infertility





Prevalence

- Estimated : 2 mio women worldwide
- Africa, Asia, SouthAmerica
 - Sub-SaharanAfrica: 2/1000deliveries



Classification

Simple fistula

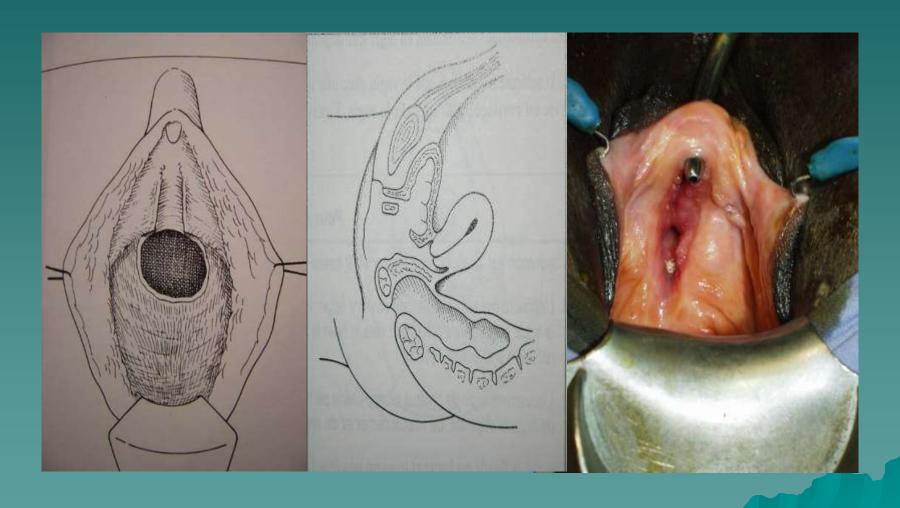
- Non-fibrotic tissue
- Easy to access

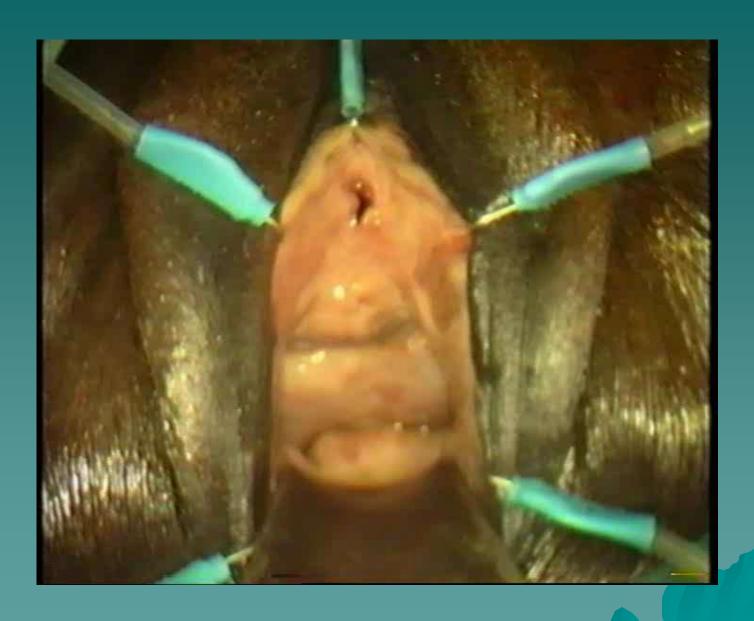
Complex fistula

- Fibrotic tissue
- Loss of tissue
- Urethral involvement
- Retracted bladder
- Aberrant tract
- Previous failed surgery



Complex VVF





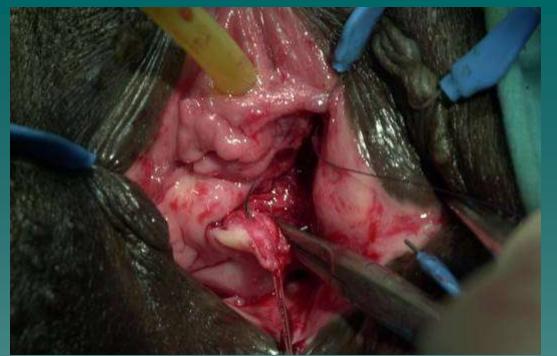
http://www.gfmer.ch/Video/Extrait_fistules.wmv

Surgical tips

- Extended Trendelenburg position
- Scott retractor
- Headlight
- Sharp scissors
- Suture material
 - Post op follow-up
 - Cave: obstructed catheter!

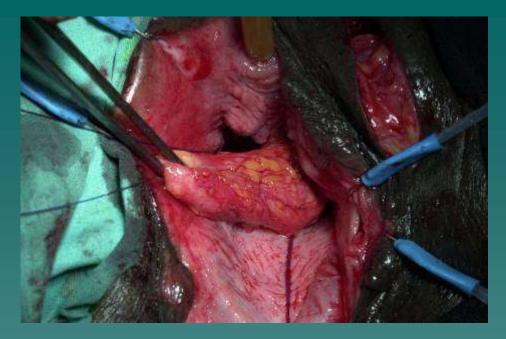


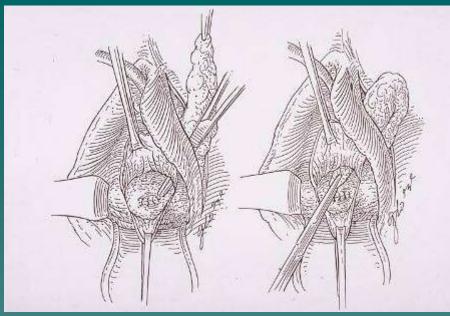


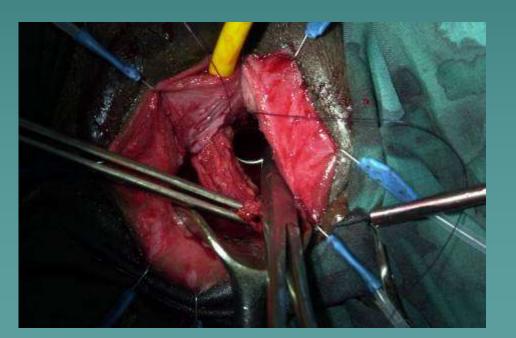


Simple closure

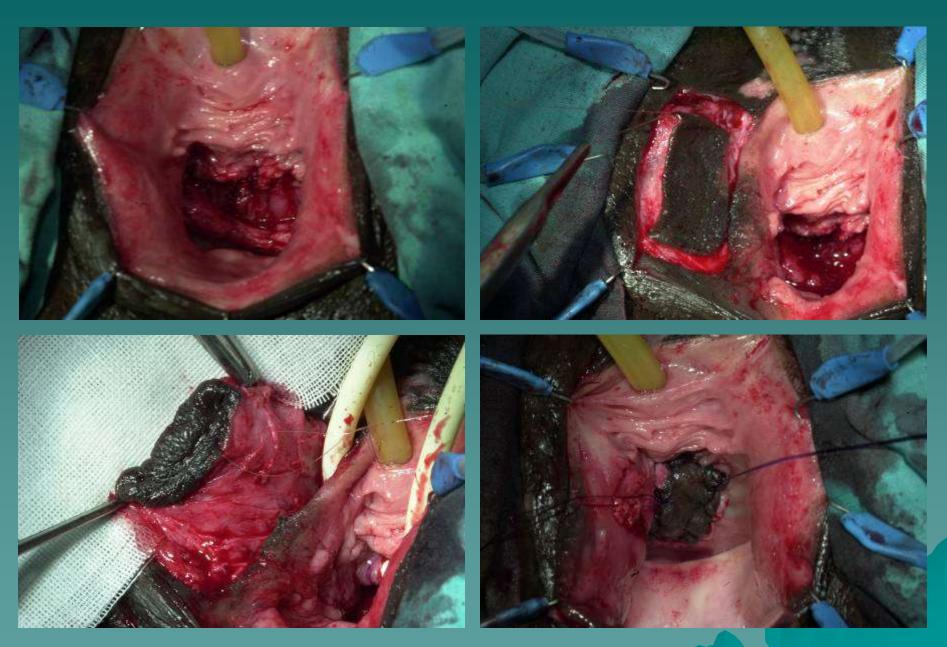




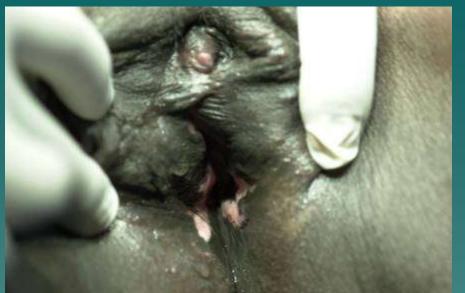


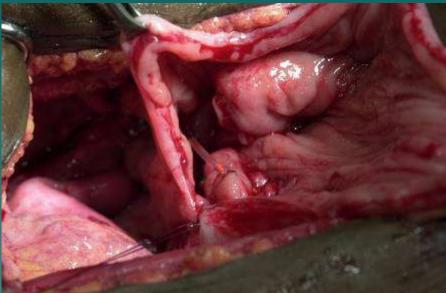


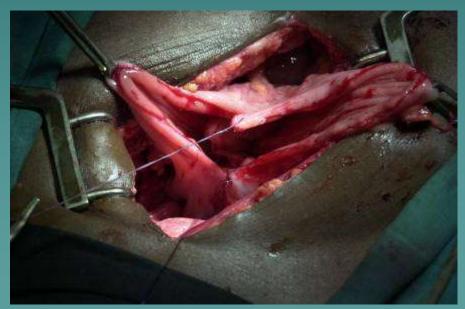
Martius Flap

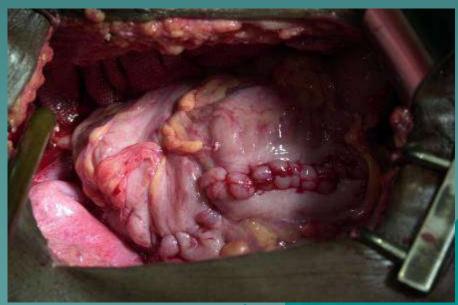


Symmonds / Falandry









Mayence II

Stress incontinence

 Junction bladder/urethra most often concerned

- Closure mechanismus damaged
- Residual stress incontinence
- Surgical challenge





For experts and motivated surgeons



http://www.gfmer.ch/Video/Reconstruction_cervico-uretrale.wmv

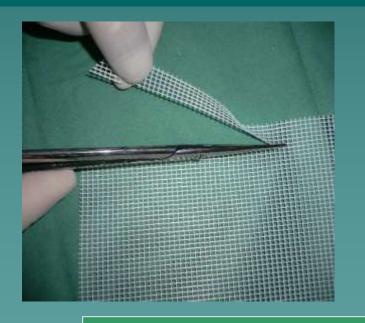
African tape TVT / TVTO

20012005/2006

Mopti Tanguieta

6 cases

8 cases





Preliminary study



http://www.gfmer.ch/Video/Bandelette.wmv

The model of Tanguieta



Treatment

Training

Prevention



Internet Database (GFMER)

The model of Tanguieta

- GFMER, St. Jean de Dieu Hospital and Faculty of Health Sciences, Cotonou
- Comprehensive strategy for training health care providers
- Treatment and prevention of obstetric fistula
- Exported to centres in Guinea (Conakry), Burkina Faso (Fada N'Gourma) and Cameroon (Maroua)

A new Web-Based Data Entry System: the GFMER Database

- Collection and evaluation of prospective data
- Demographic characteristics of fistula patients
- Various surgical and clinical procedures for fistula repair
- Social reintegration

A new Web-Based Data Entry System: the GFMER Database

- Facilitate the development of a standardized fistula classification
- Comparative research across surgical centres
- Identification of cases requiring expert fistula surgeon

Areas covered by the GFMER Database

- Circumstances leading to the occurrence of fistula
- Socioeconomic and preoperative health status
- Surgical and other medical treatments received
- Postoperative health status and follow-up



GFMER Research and Studies

3 critical areas of research in collaboration with WHO/RHR

- Prevention:
 - analysis of underlying sociocultural and economic factors
 - caesarean sections
 - labour management techniques
- Treatment:
 - review and assessment of current surgical and medical procedures
- Reintegration:
 - evaluation of existing reintegration strategies



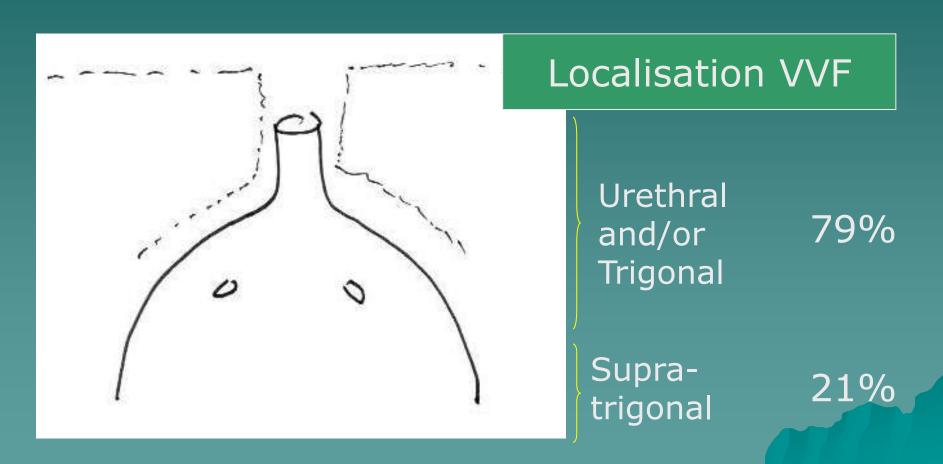


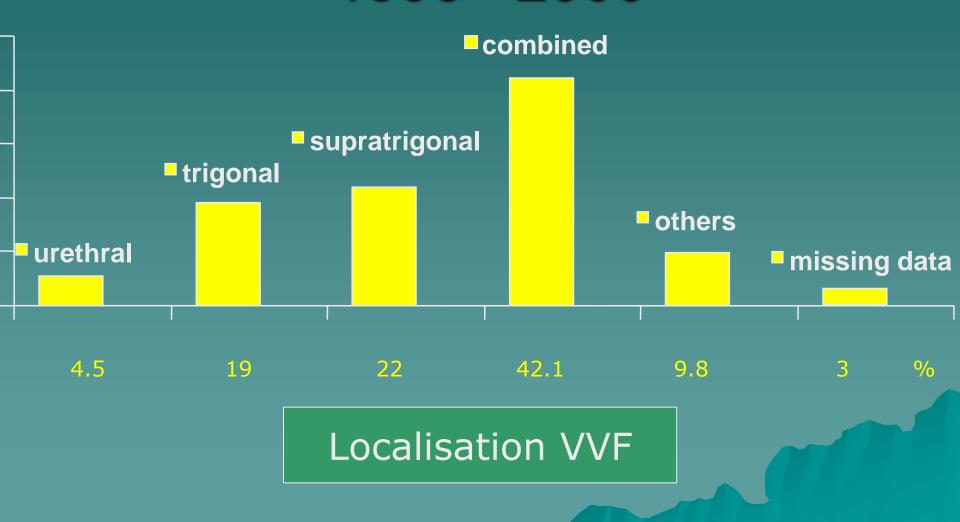


- Hospital northern Benin
- ◆ 13 surgical missions since 1993
- Since 1996 specific visits for surgical fistula repair
- obstetric fistulaeN = 202

| Baseline data | | n=202 |
|-------------------------|-------|--------------|
| Age | У | 28.9 (15-63) |
| Parity | n | 2.0 (1-11) |
| Duration | У | 3.0 (0.1-20) |
| Previous fistula repair | n (%) | 72 (35.6) |
| Lost to follow-up | n (%) | 23 (11.4) |

- Complications at the time of delivery
 - perinatal mortality: 98%
 - Ruptured uterus: 10%
- Caesarean section rate: 40%
- Maternal mortality?





Surgical data

- Route
 - Vaginal 76%
 - Abdominal 18.6%
 - Combined 5.4%
- Martius graft 31.7%
- ◆ Cutaneous graft 11.9%
- Urinary diversion 5%
- ◆ Recto-vaginal fistula 4.5%

Case series 1996 – 2006 Outcome of Vesico-Vaginal Fistula repair n=179

- Success rate 84%
- ◆ Stress incontinence 21%

- Complications:
 - 1 fatal peritonitis
 - 4 reinterventions for secondary suture