Obstetric Fistula

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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, South America

Sub-Saharan
 Africa: 2/1000
 deliveries



Classification

Simple fistula

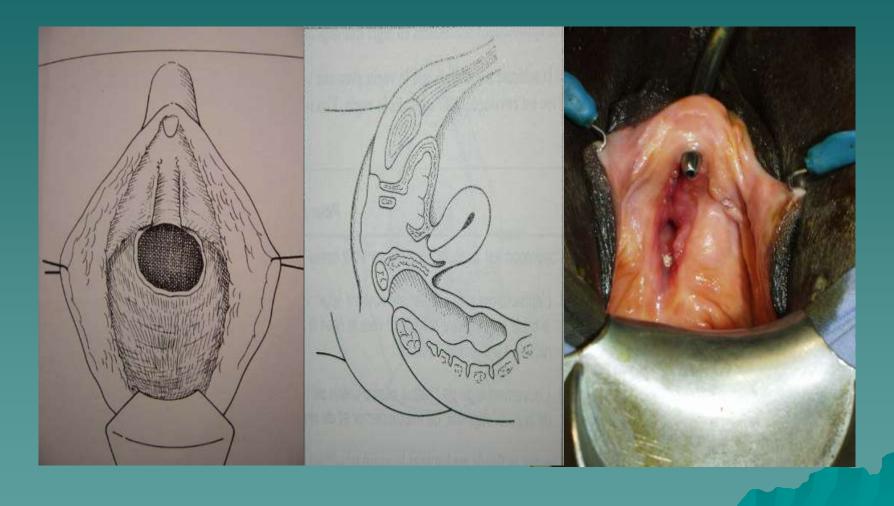
- Non-fibrotic tissue
- Easy to access

Complex fistula

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



Complex VVF





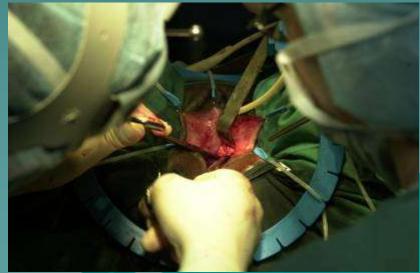
http://www.gfmer.ch/Video/Extrait fistules.wmv

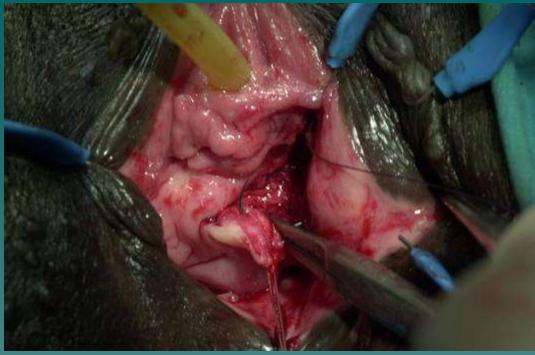
Surgical tips

Extended Trendelenburg position
Scott retractor
Headlight
Sharp scissors
Suture material

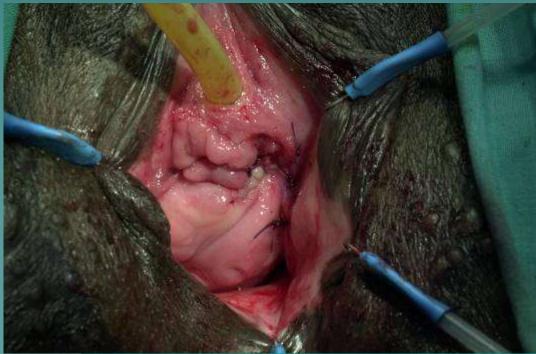
- Post op follow-up
- Cave: obstructed catheter !

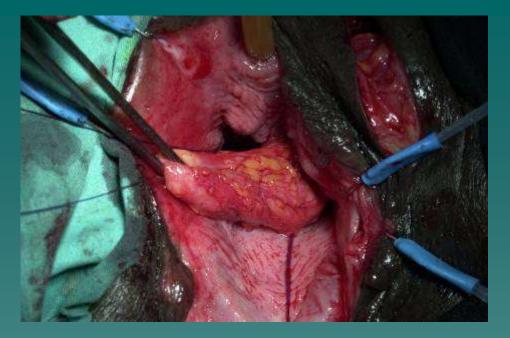


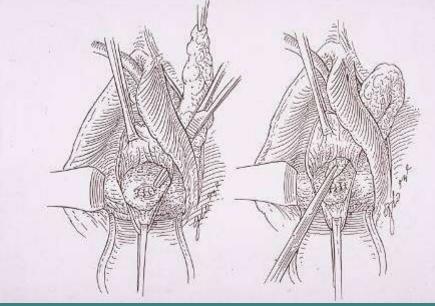


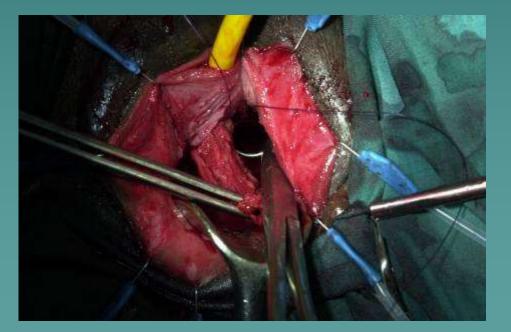


Simple closure

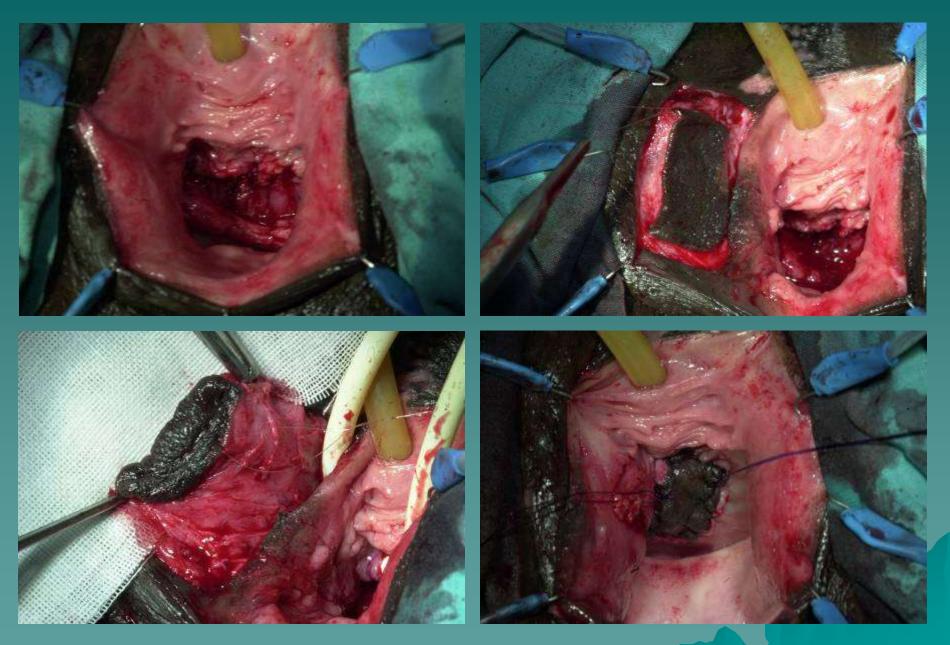




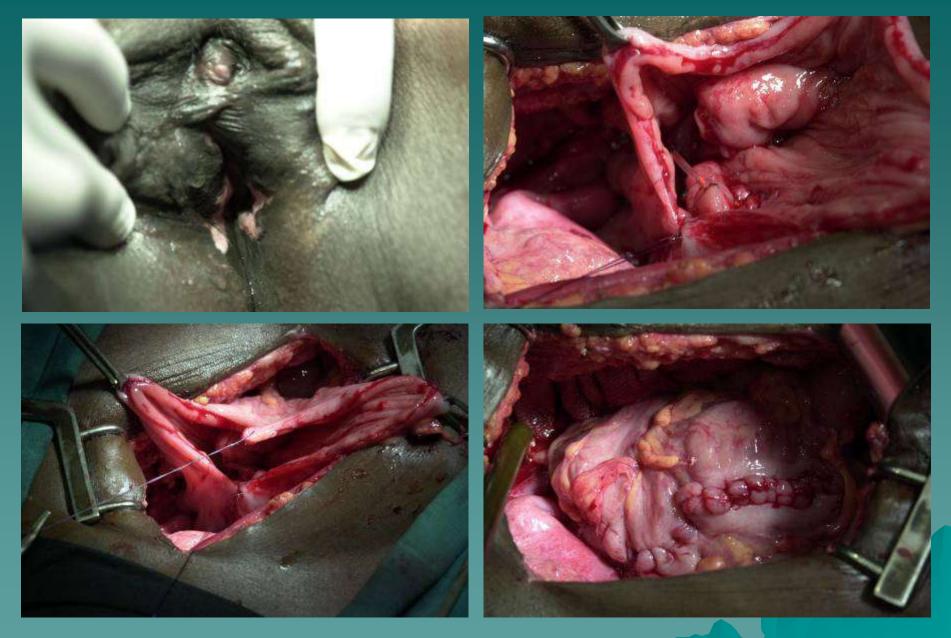




Martius Flap



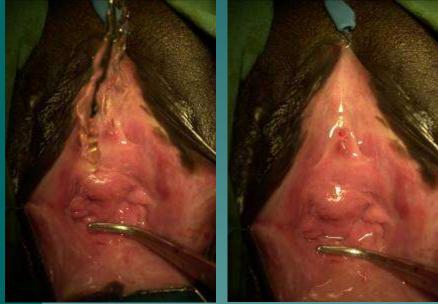
Symmonds / Falandry



Mayence II

Stress incontinence

- Junction bladder/urethra most often concerned
- Closure mechanismus damaged
- Residual stress incontinence
- Surgical challenge



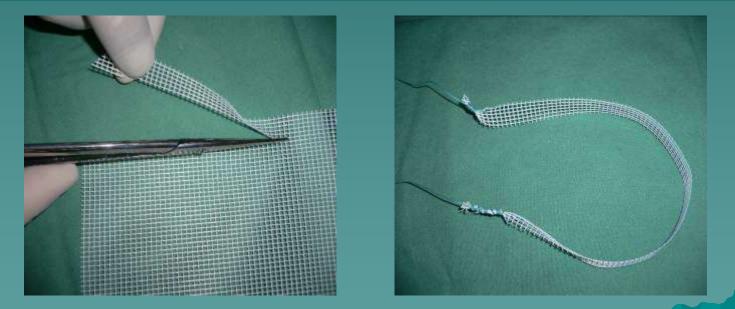
For experts and motivated surgeons



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

African tape TVT / TVTO

2001	Mopti	6 cases
2005/2006	Tanguieta	8 cases



Preliminary study



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

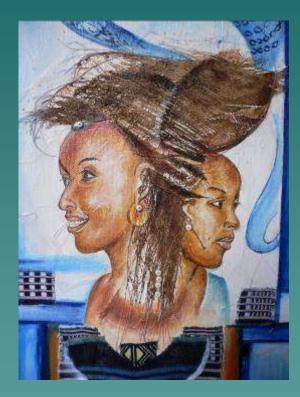
The model of Tanguieta



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







Tanguieta personal case series 1996 - 2006

Hospital northern Benin
 13 surgical missions since 1993
 Since 1996 specific visits for surgical fistula repair

• obstetric fistulae N = 202

Tanguieta personal case series 1996 - 2006

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)

Tanguieta personal case series 1996 - 2006

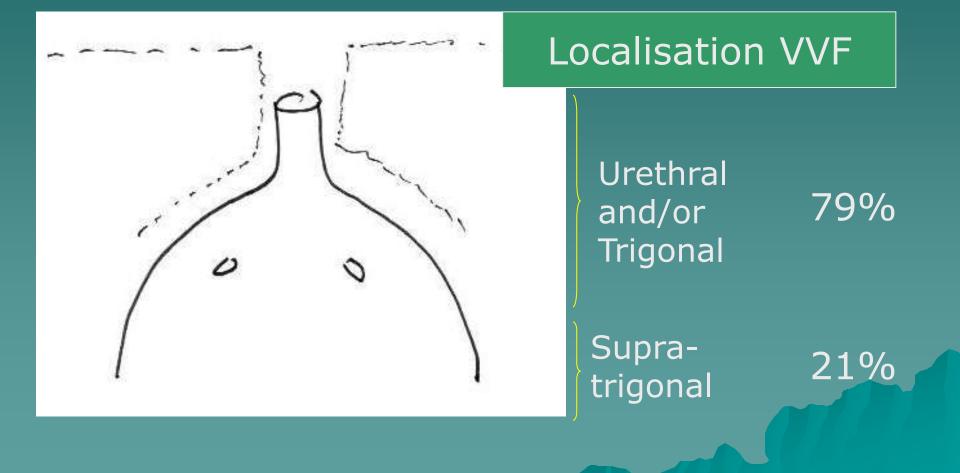
Complications at the time of delivery

- perinatal mortality: 98%
- Ruptured uterus: 10%

Caesarean section rate: 40%

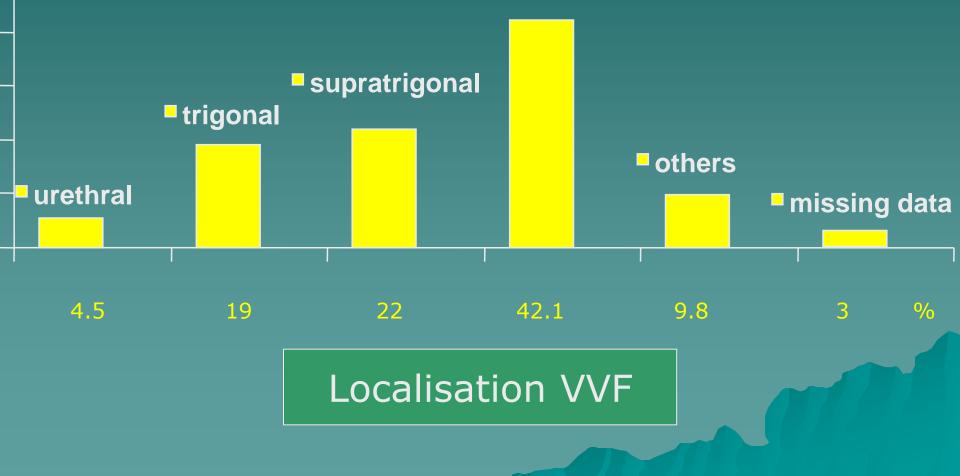
Maternal mortality?

Tanguieta personal case series 1996 - 2006



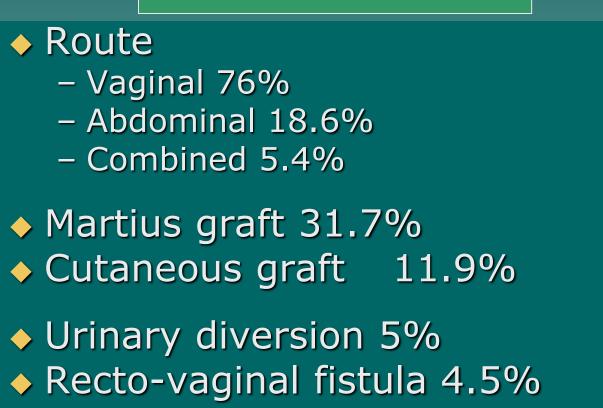
Tanguieta personal case series 1996 - 2006

combined



Tanguieta personal case series 1996 - 2006

Surgical data



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