



FISTULA
GROUP

Obstetric Fistula in Developing Countries: What Did I Learn in 25 years of Practice?

Charles Henry Rochat, MD
Urologic Surgeon
Clinique Generale-Beaulieu
Geneva, Switzerland



NYU Long Island School of Medicine
11.11.22



An Early Commitment :

- In Pakistan
- In Afghanistan
- On the Cambodian border
- In Iraq

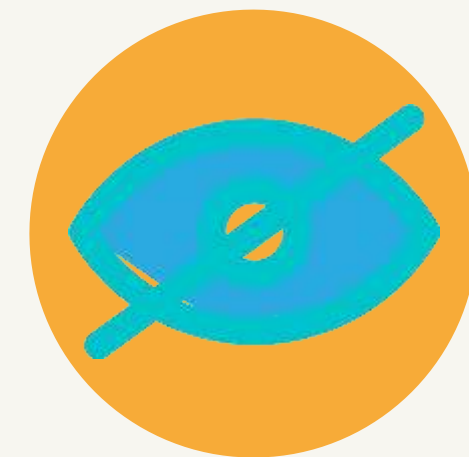
Obstetric Fistula : Pathology of the Poor Woman



2 million
women in the world



Mainly in Africa and Asia
More generally in poor countries



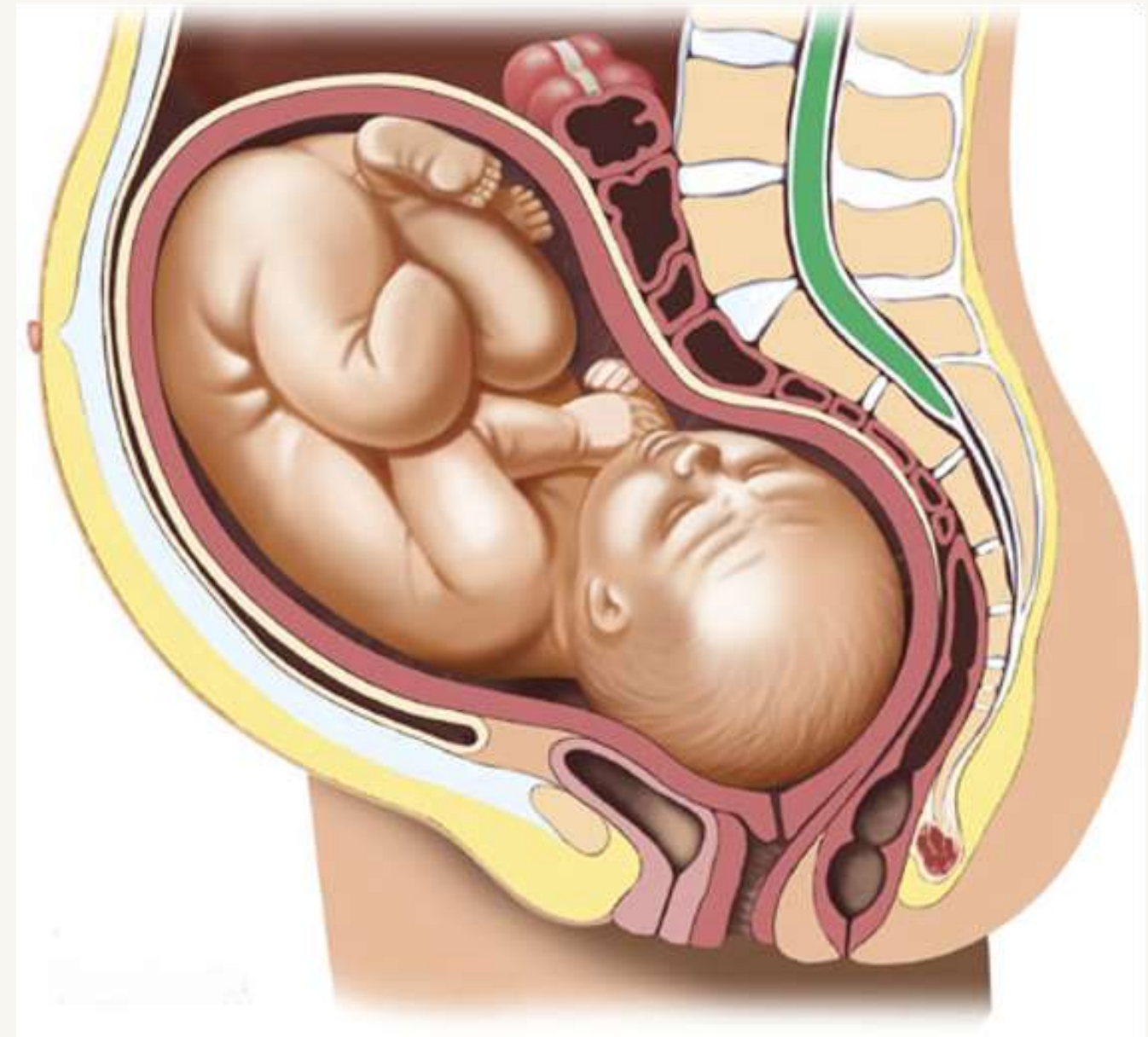
A taboo pathology



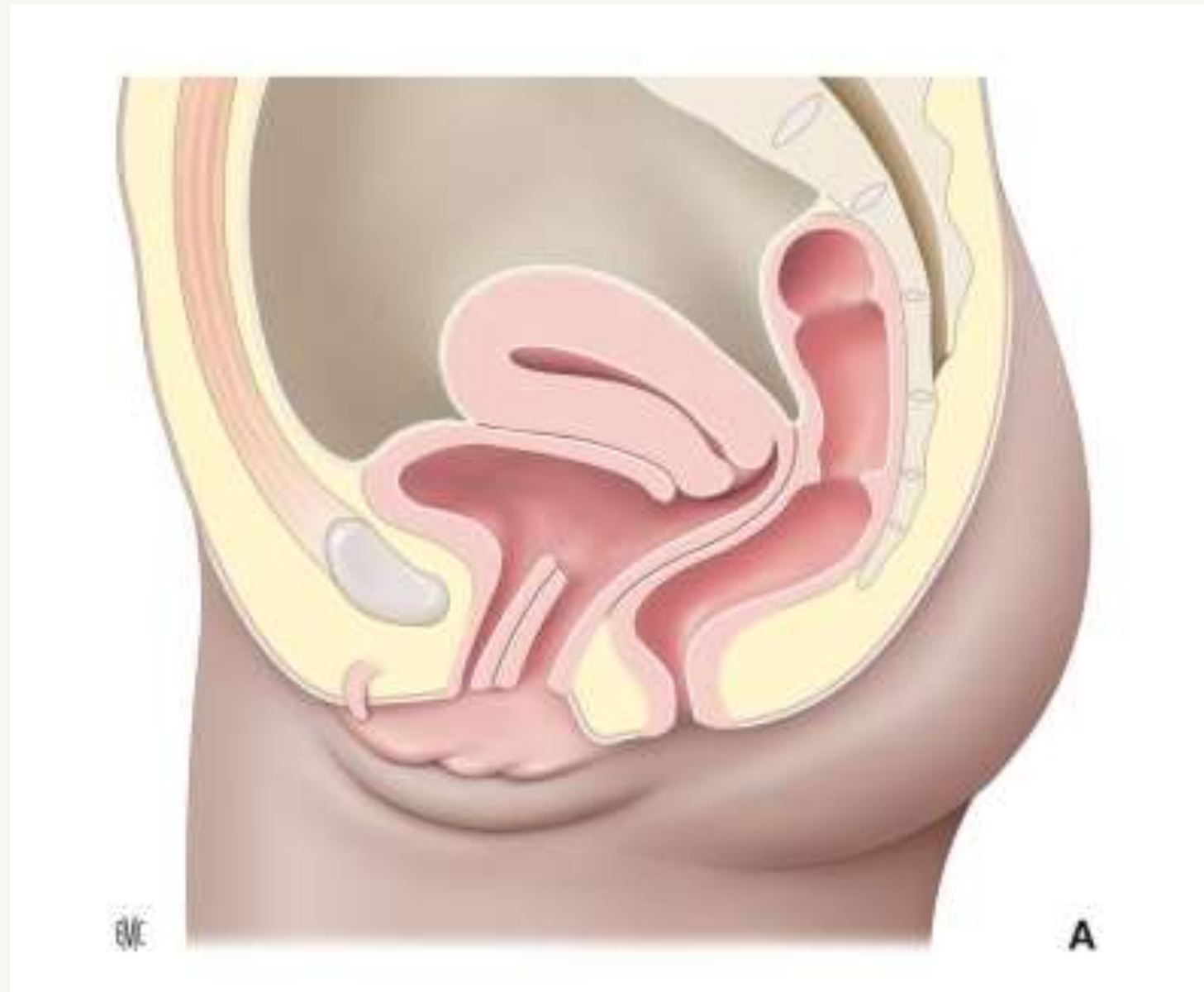
Discovery of
Obstetric Fistula
with
Frère Florent in
Tanguiéta

Obstetric Fistula

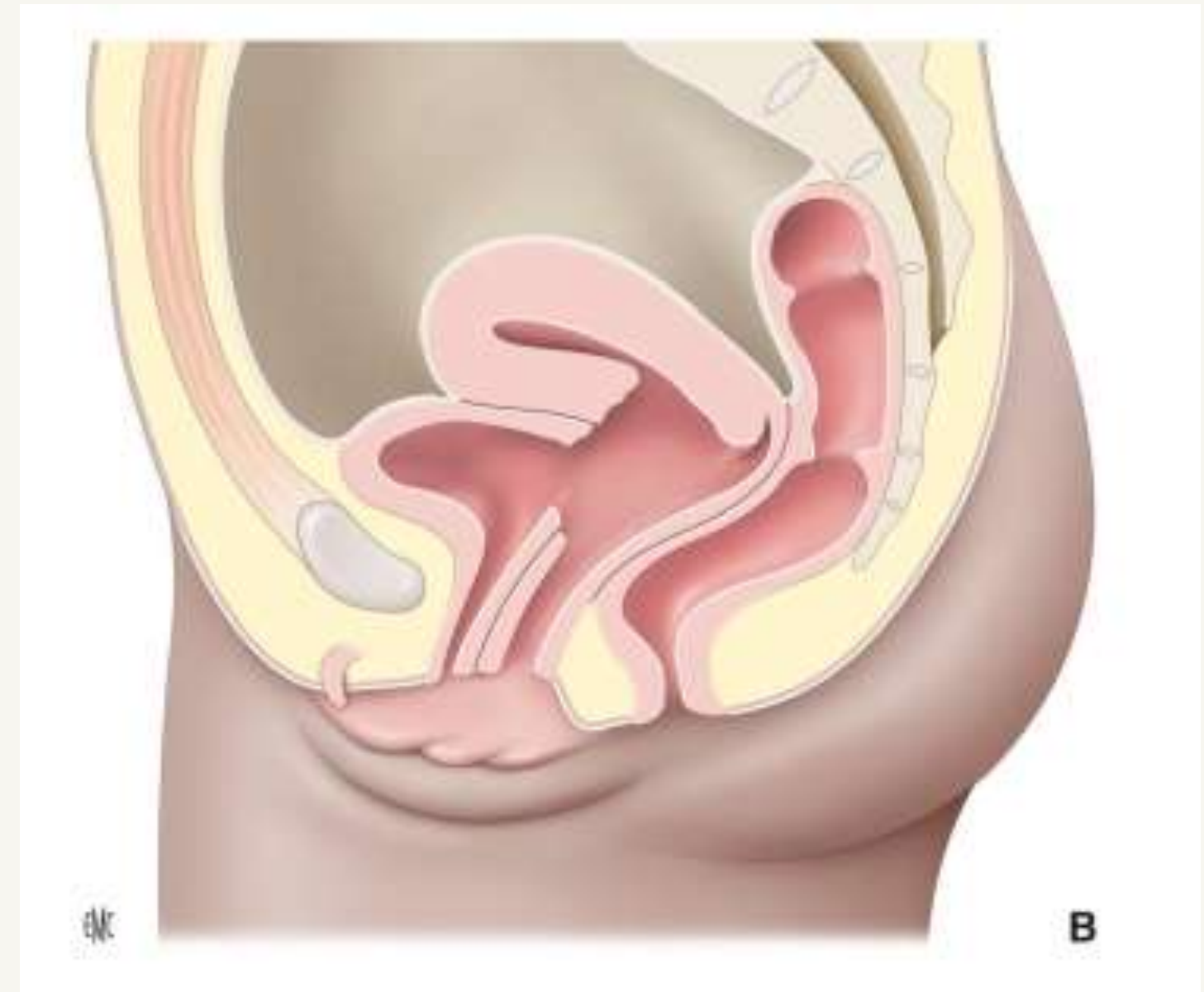
- Fetopelvic disproportion
- Delayed access to Cesarean Section
- Tissue necrosis due to compression
- Iatrogenic lesions



Vesico–vaginal fistula



Juxta–cervical fistula



Juxta-urethral fistula



Circonférentielle fistule



The Obstructed Labor Injury Complex

- VVF/VRF
- Stress incontinence
- Vaginal scars
- Infertility

Medical and Social Problems Associated with OF

- Family Abandonment
- Co-morbidity :
 - Infections
 - Bladder Stones
 - Infertility



Simple fistula

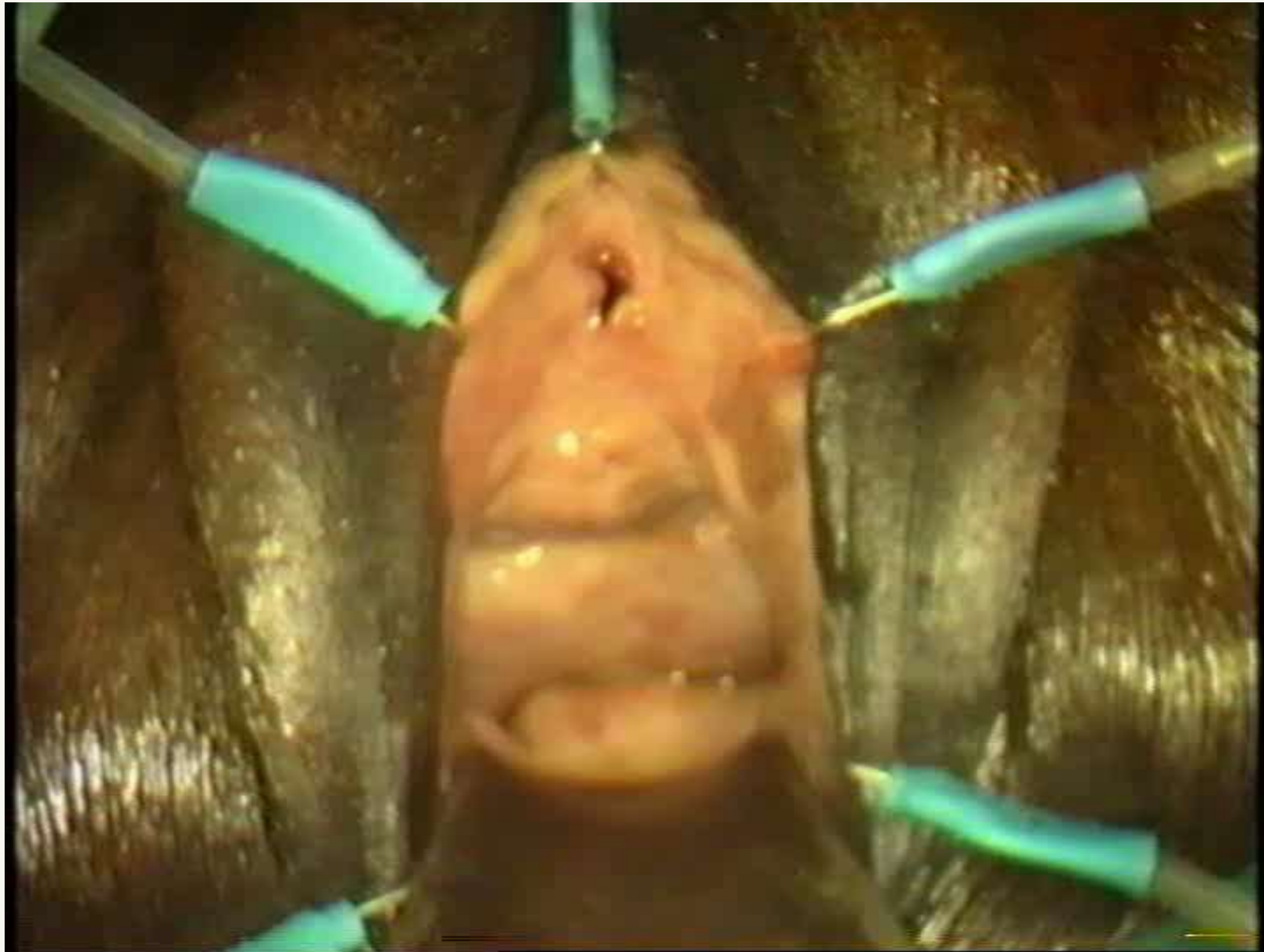
- Soft tissue
- Easy access



Complicated fistula

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



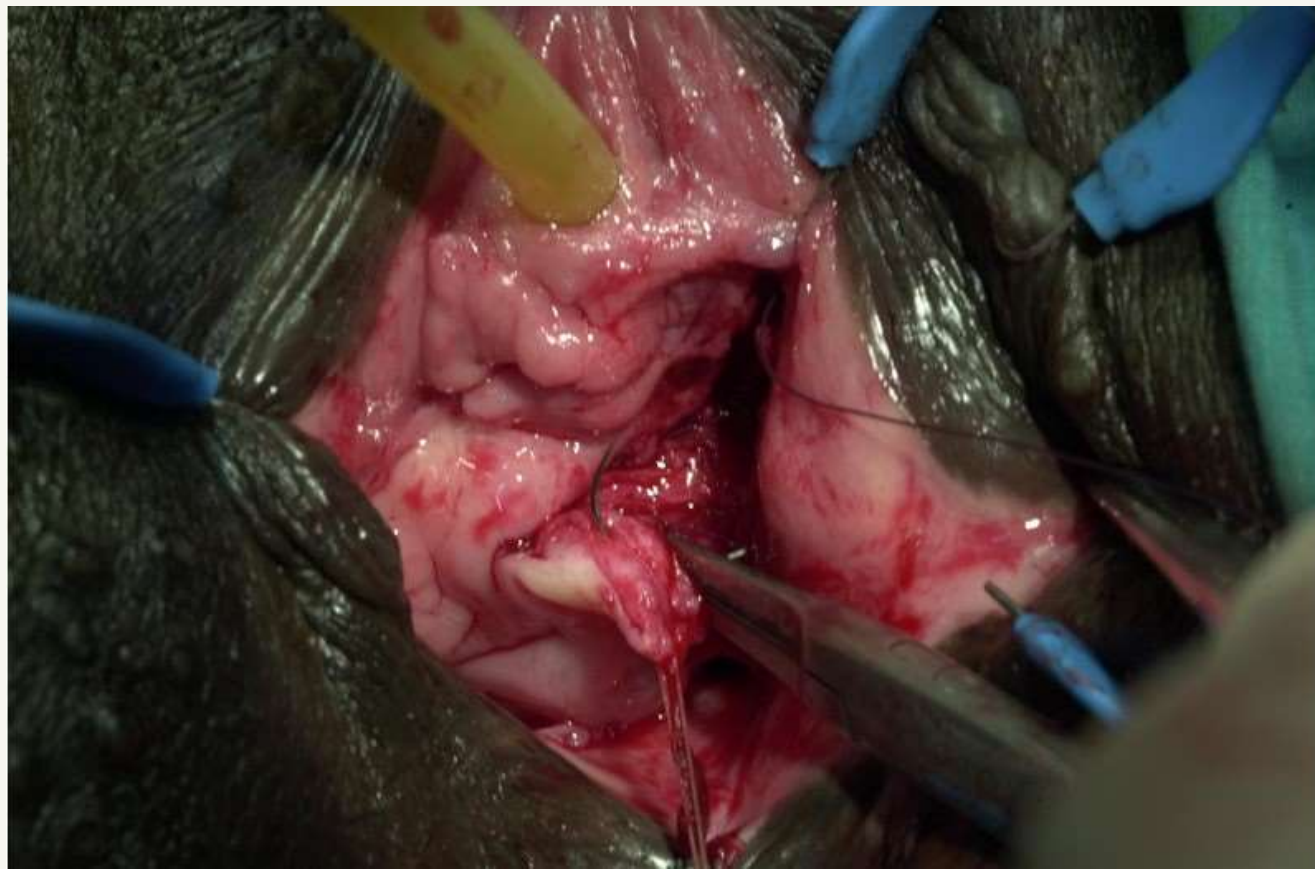


Obstetric Fistula in Developing Countries: What Did I Learn in 25 Years of Practice?

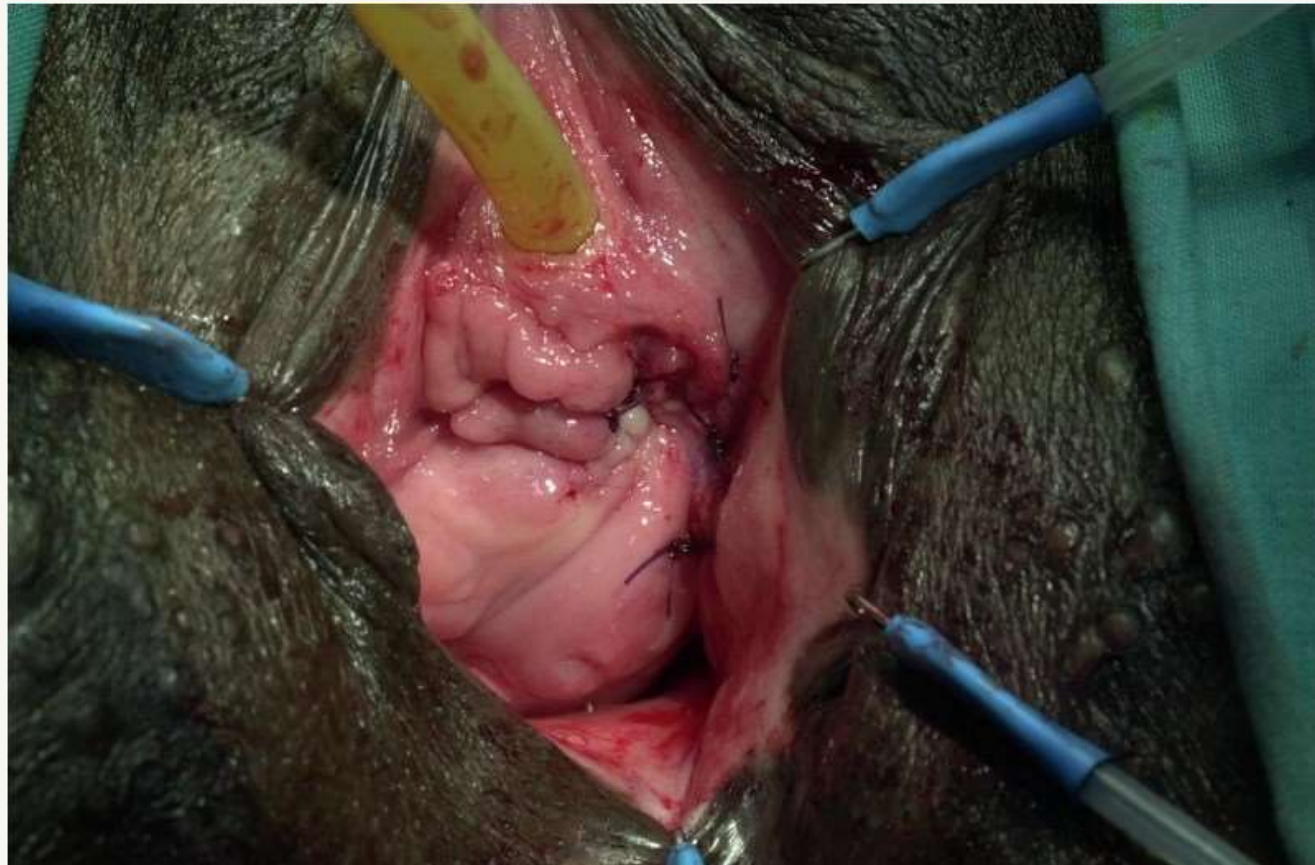
Surgical Tips

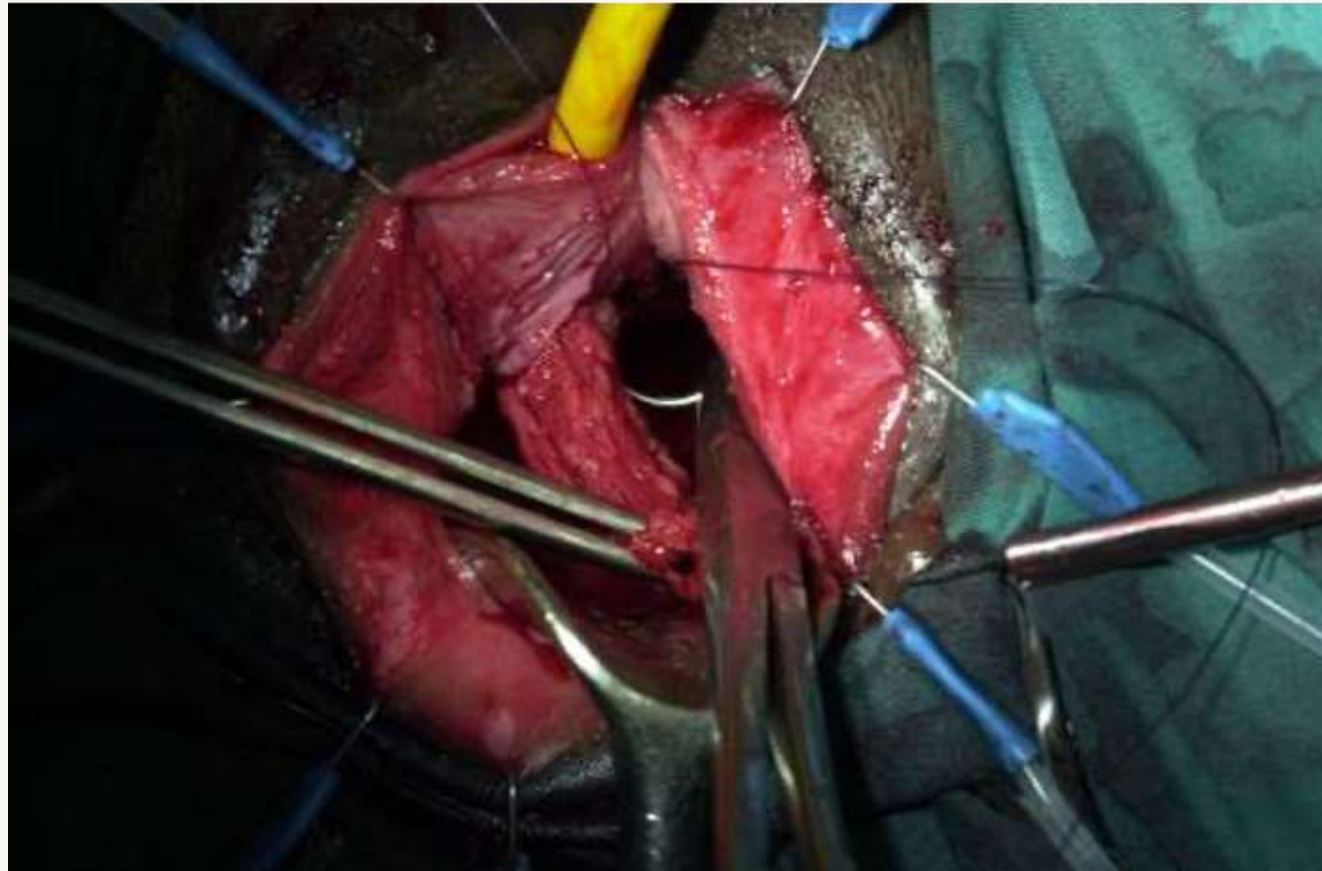
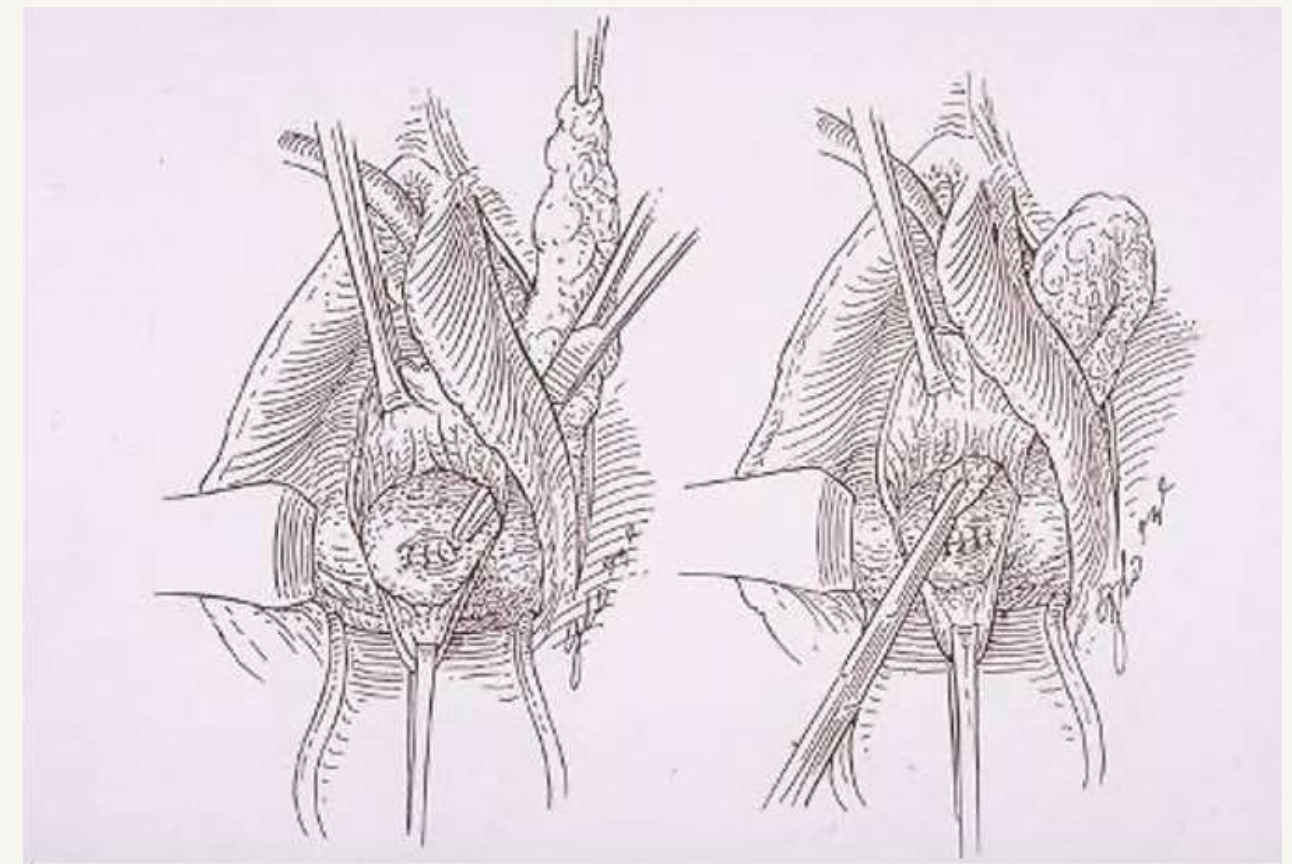
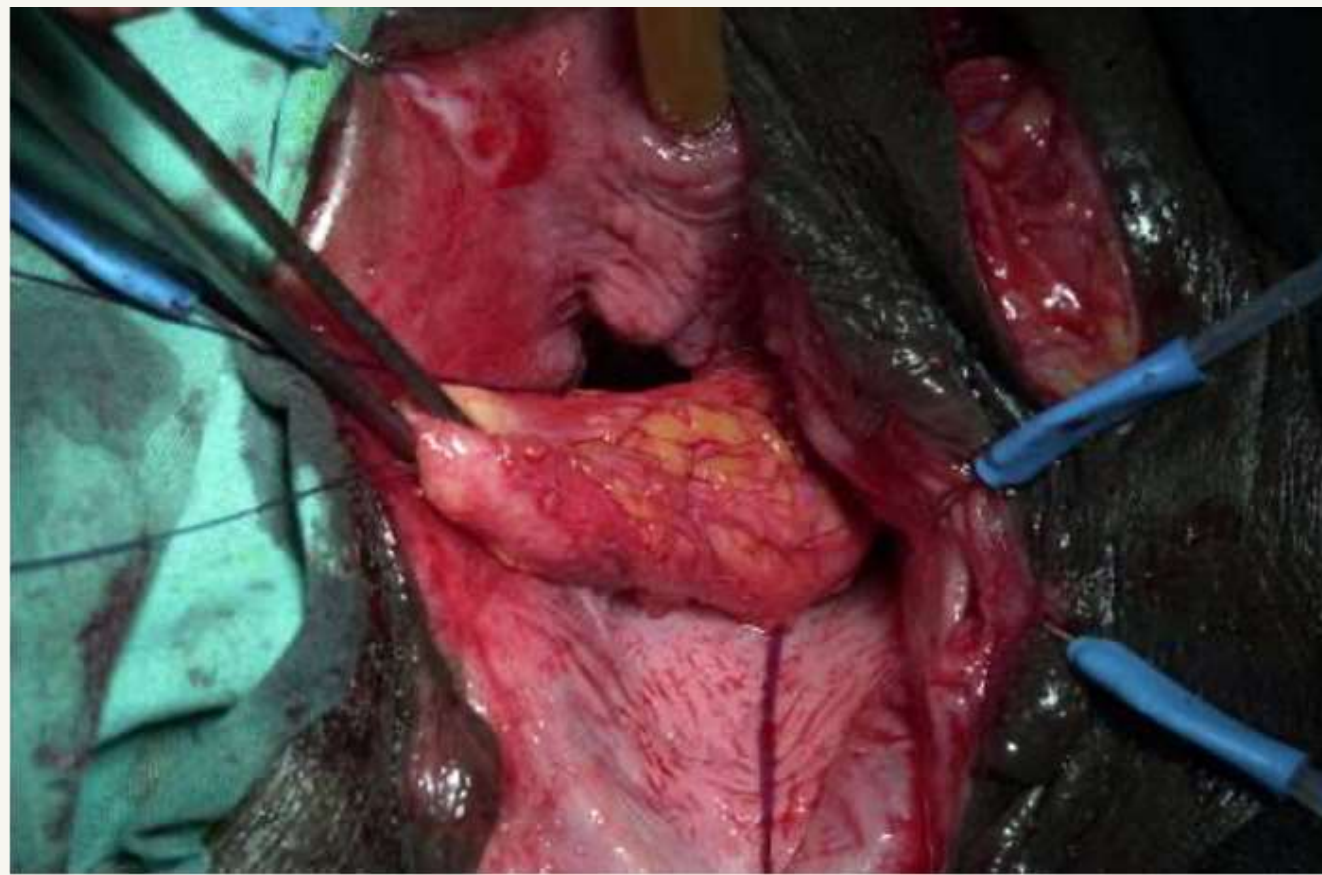
- Extended Trendelenburg position
- Scott retractor
- Headlight
- Sharp scissors
- Suture material
 - Post op follow-up
 - *cave* : obstructed catheter !



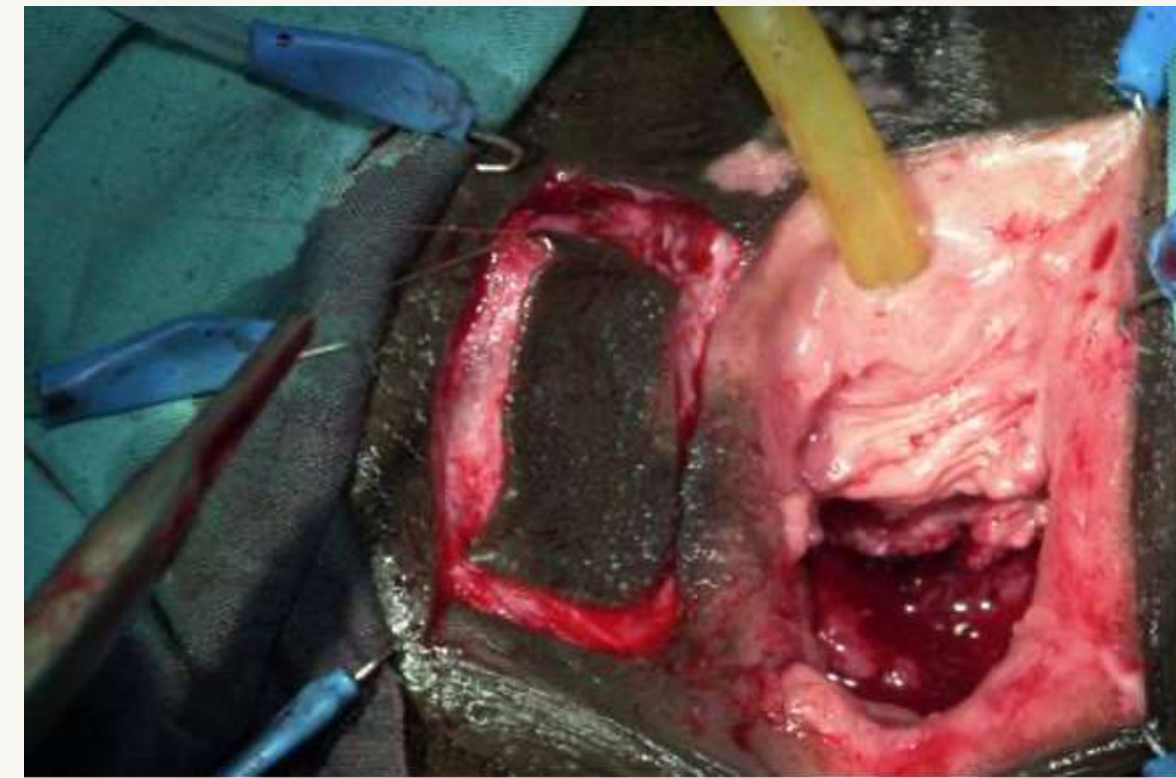


Vaginal Flap

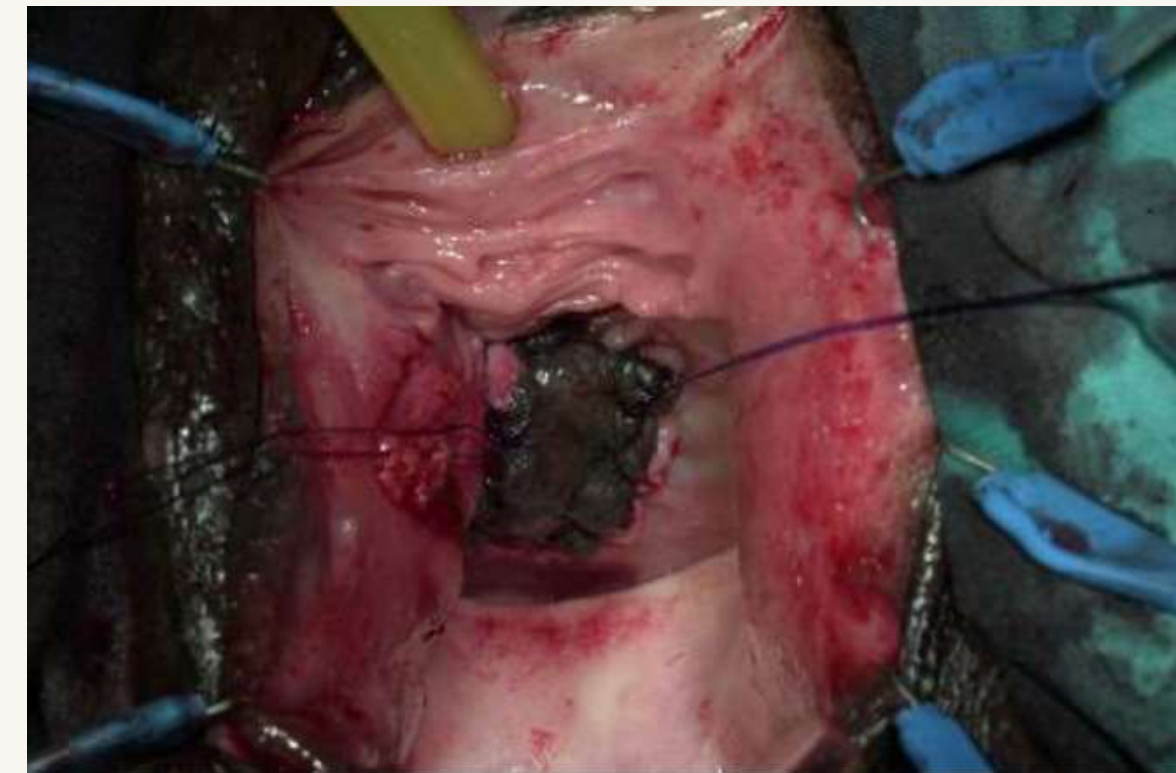
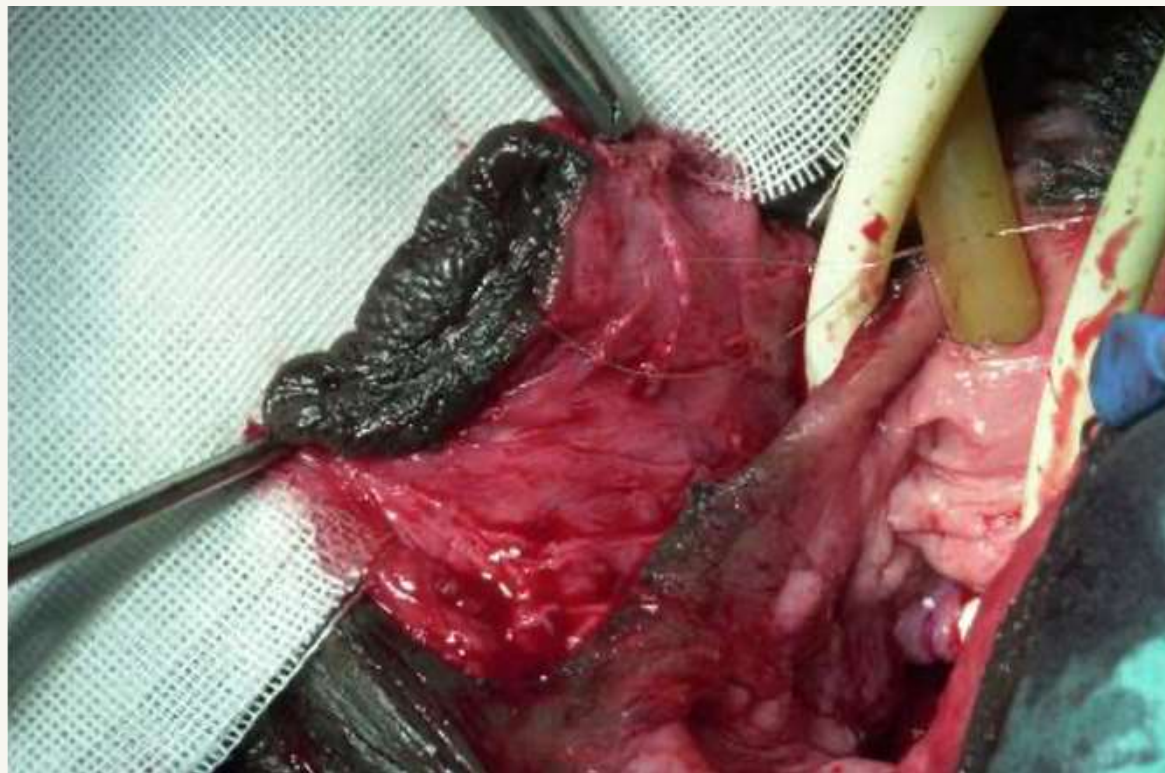




Martius Flap



Cutaneous Flap



Development in Treatment : flaps

	1996-2001	> 2002
Martius Flap	30%	10%
Cutaneous Flap	12%	2%



Study of the outcome of surgical management of vesico-vaginal fistulas with and without interposition of the Martius graft: A Cameroonian experience.

P.-M.Tebeu, J.Fokom-Domgue, G.Kengne Fosso, P.Tjek Biyaga, J.Nelson Fomulu, C.-H.Rochat

Introduction

This study aimed to investigate whether Martius' graft has an effect on the outcome of the surgical management of genitourinary fistula.

Patients and methods

This was a retrospective comparative study of all cases of genitourinary fistula that underwent curative surgery in two Cameroonian hospitals. Patients were all operated between January 2005 and July 2011 in the gynecology unit of the Maroua Regional Hospital and the University Hospital Centre of Yaoundé by a well-trained surgeon. The characteristics of women with fistulas operated without graft of Martius were compared with those of women operated with graft of Martius.

Results

Among the 81 genitourinary fistulas operated, 28 (34.6%) had benefited from graft of Martius. Depending on the characteristics of obstetric fistula, the two groups (that of patients who had a cure with, and that of patients who had a cure without interposition of graft of Martius) were similar: there was no difference in the proportion of rigid edges (89.3% vs. 73.6%, $P = 0.0989$); in the proportion of vaginal flanges (78.6% vs. 60.4%, $P = 0.0986$), in the proportion of cervical localization (42.9% vs. 28.3%, $P = 0.3762$), in the proportion of fistulas with a size greater than 2 cm (64.3% vs. 39.6%, $P = 0.0702$), nor in the proportion of recurrent fistulas (28.6% vs. 41.5%, $P = 0.2523$) between the two groups. Similarly, both groups were comparable according to the results of surgery: there was no difference in the overall closure rate (85.7% vs. 79.2%, $P = 0.347$) nor in the closure of fistula with continence (60.7% vs. 67.9%, $P = 0.260$) between the two groups. The use of graft of Martius had no effect on the overall closure of genitourinary fistula in our series [OR: 1.57; 95% CI: 0.4 to 6.6; $P = 0.680$].

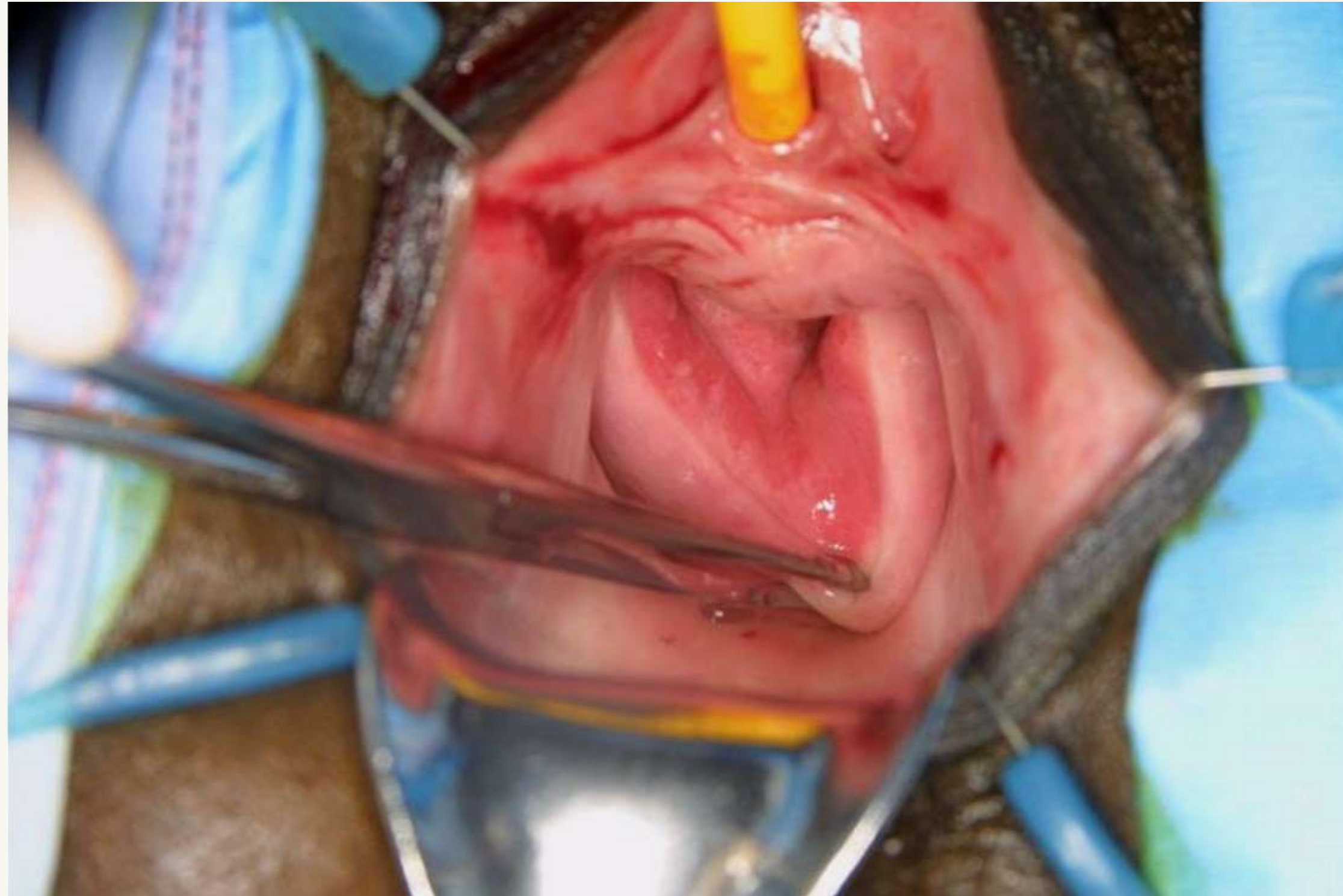
Conclusion and interpretation

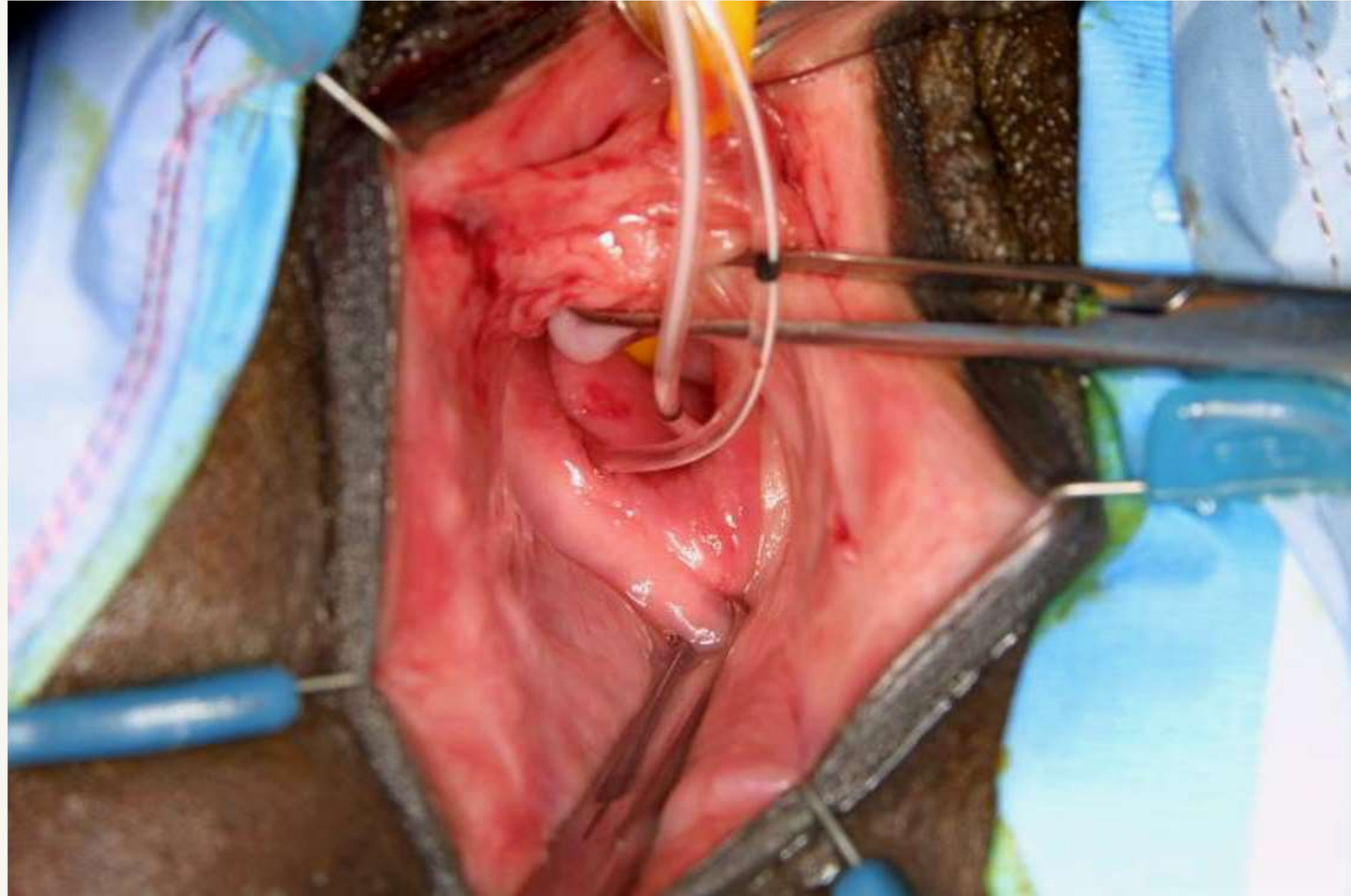
The Martius graft does not seem to affect the outcome of the surgical management of genitourinary fistula. These results need to be confirmed by studies on a larger population.

Development in Treatment : more complicated cases

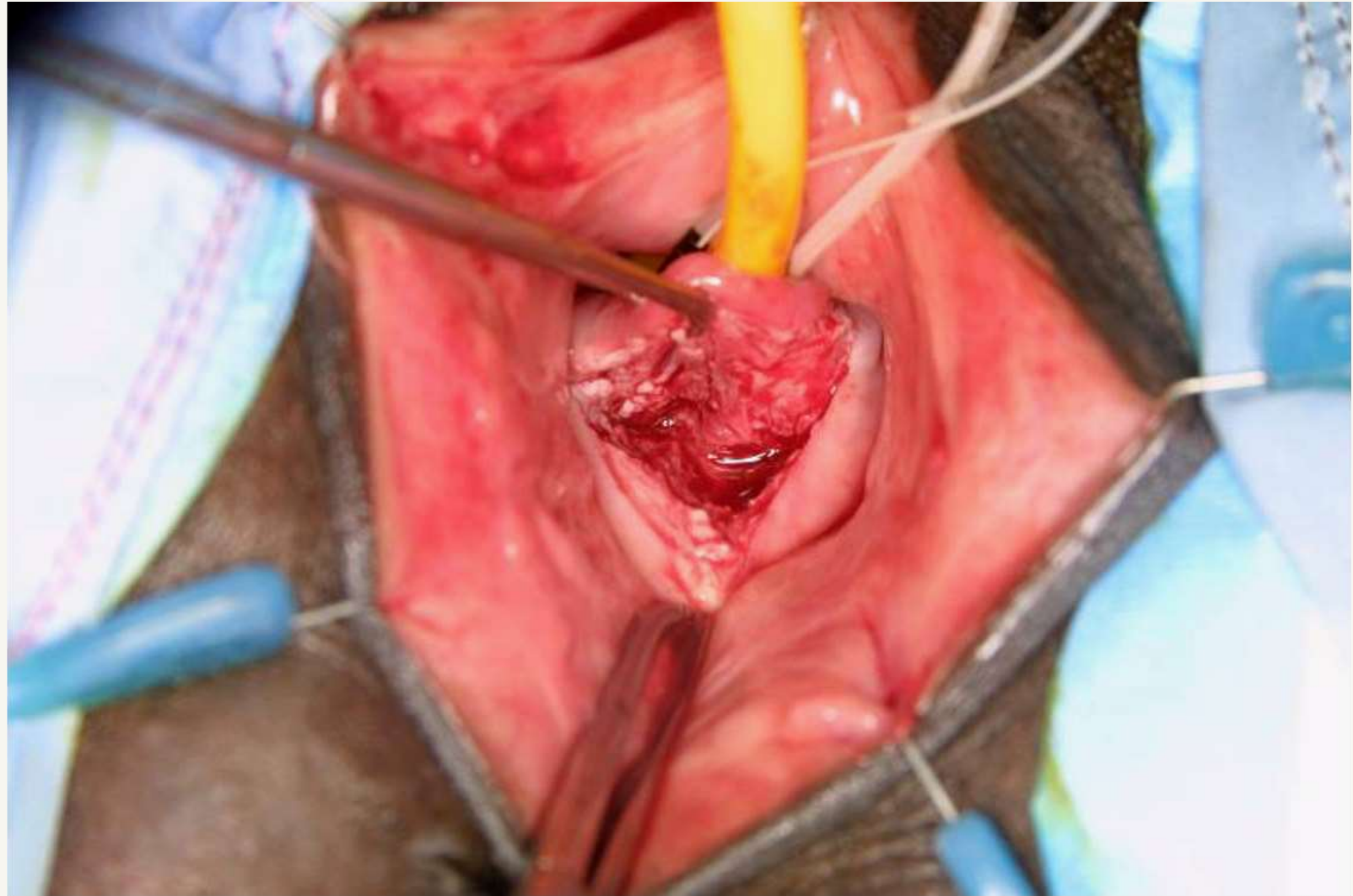
- Circumferential dissection
- Urethral reconstruction
- Diversions
 - Ureterosigmoidostomy
 - Mayence II

Circumferential dissection

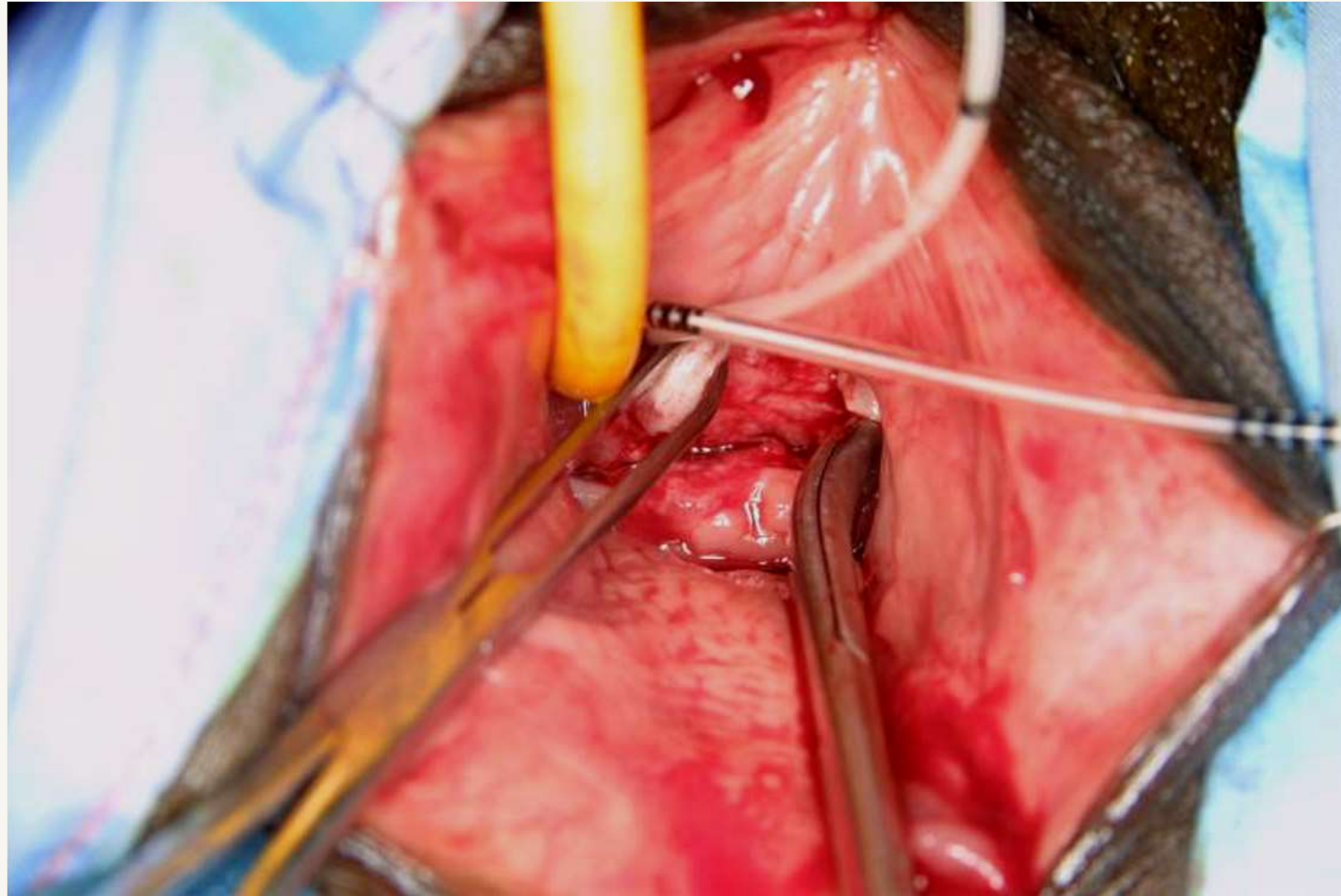




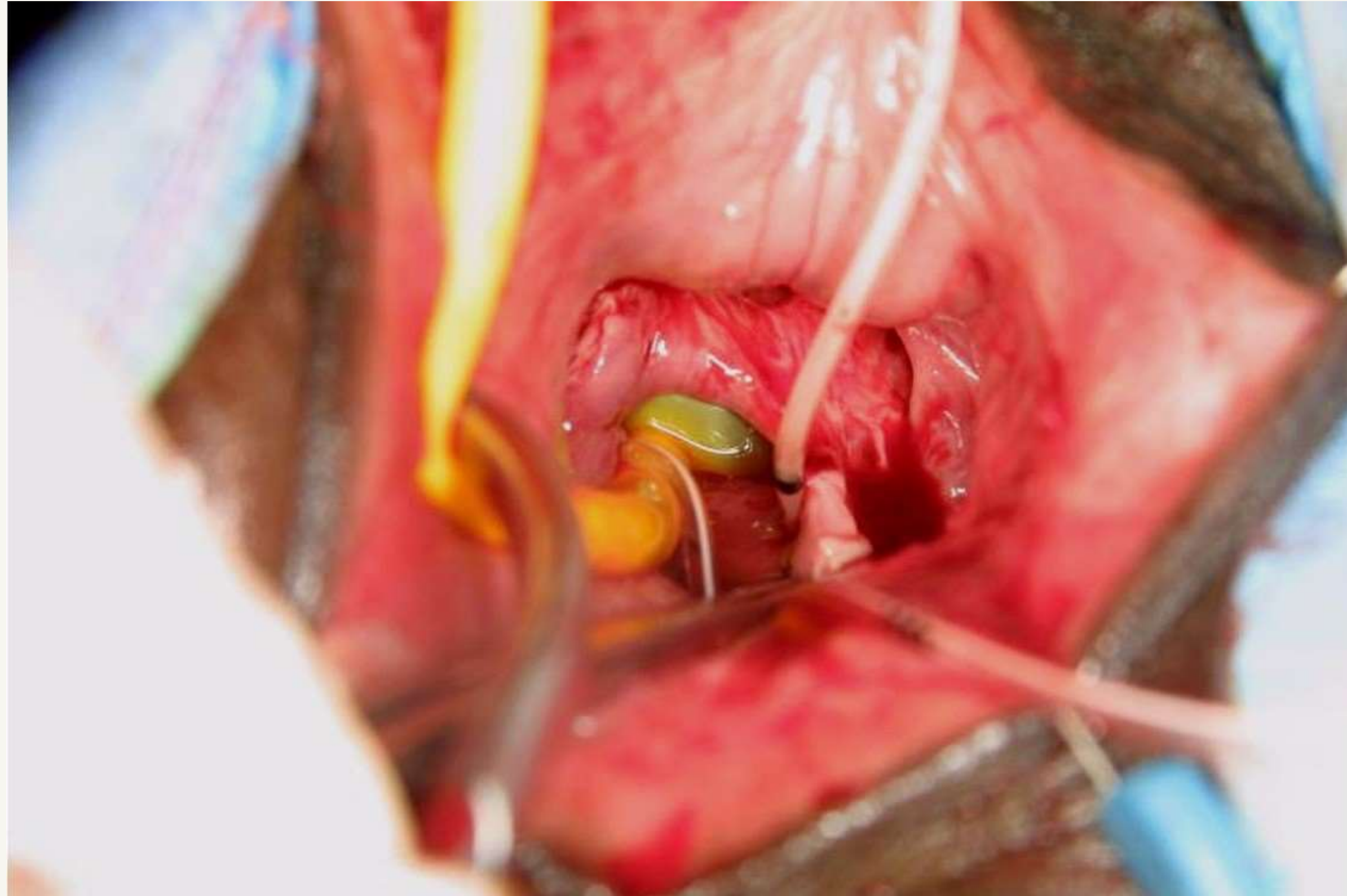
Obstetric Fistula in Developing Countries: What Did I Learn in 25 Years of Practice?



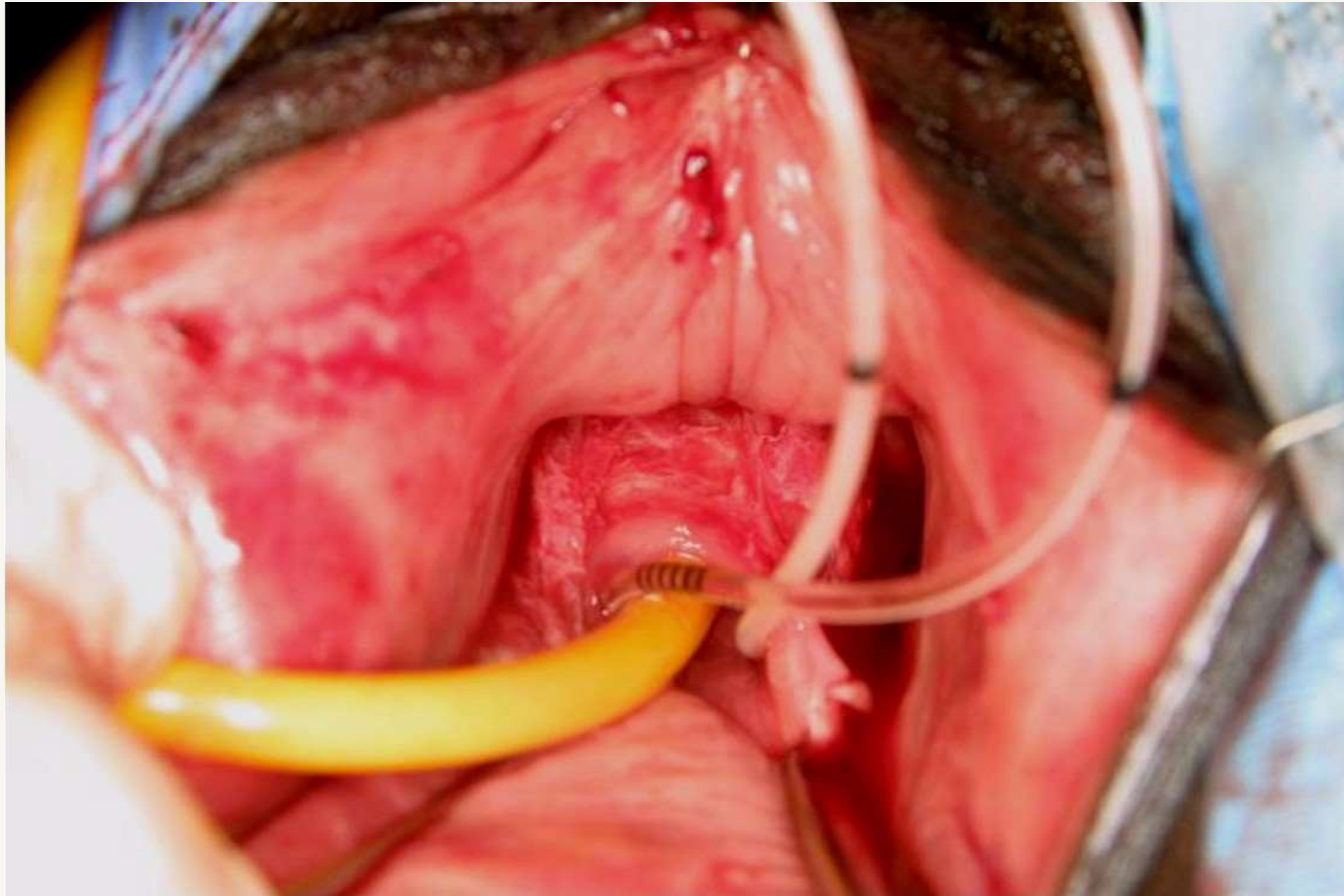
Obstetric Fistula in Developing Countries: What Did I Learn in 25 Years of Practice?



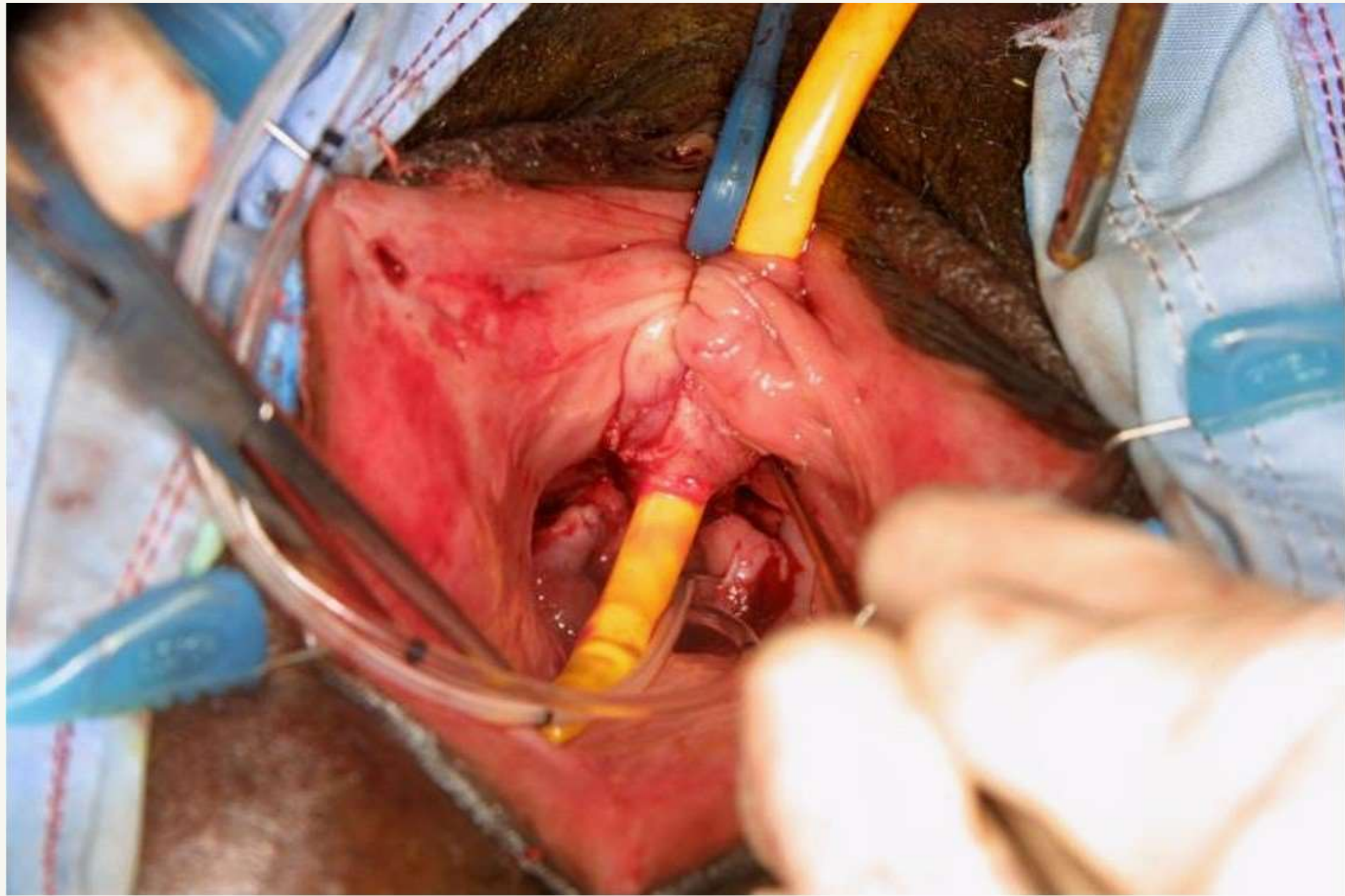
Obstetric Fistula in Developing Countries: What Did I Learn in 25 Years of Practice?



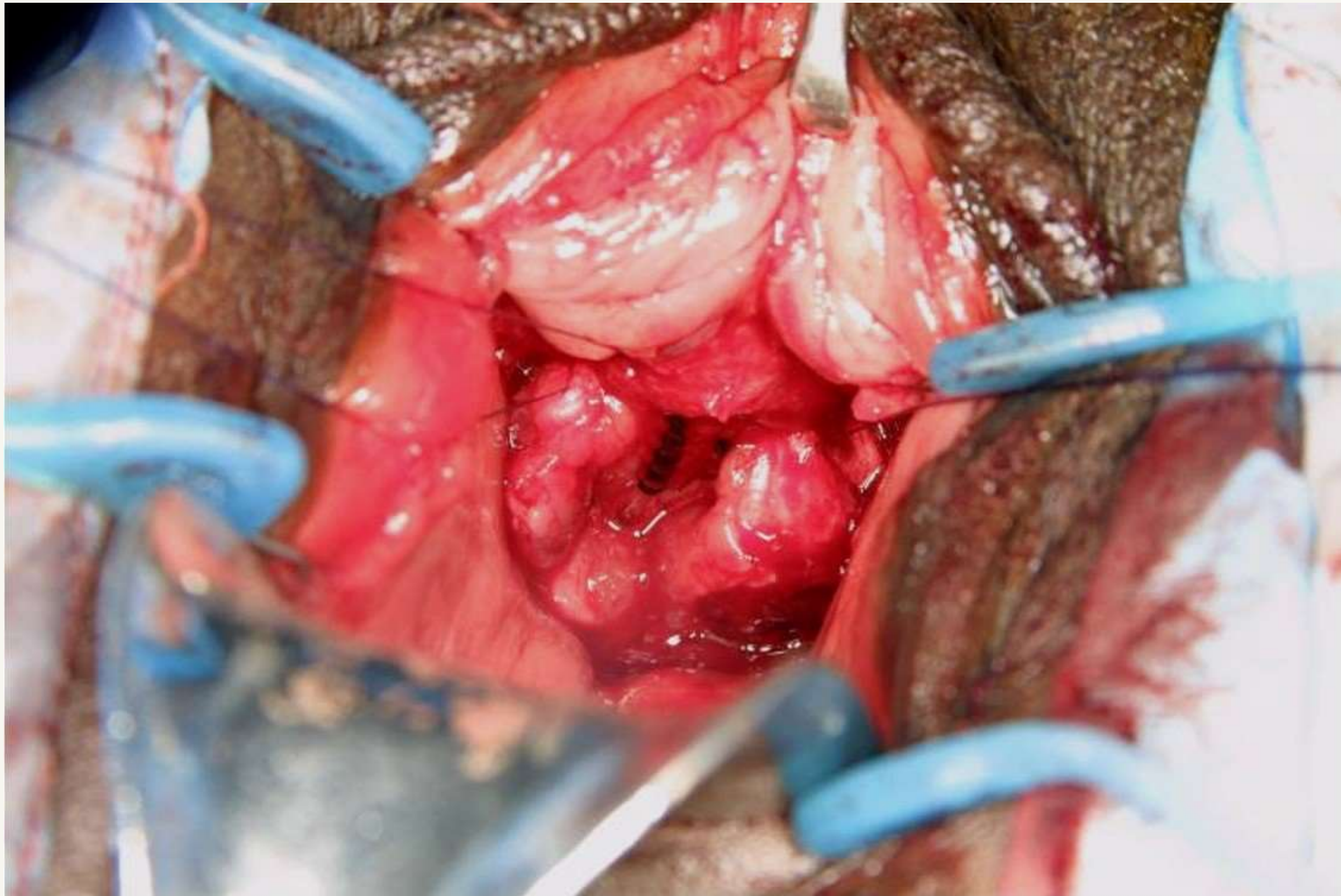
Obstetric Fistula in Developing Countries: What Did I Learn in 25 Years of Practice?



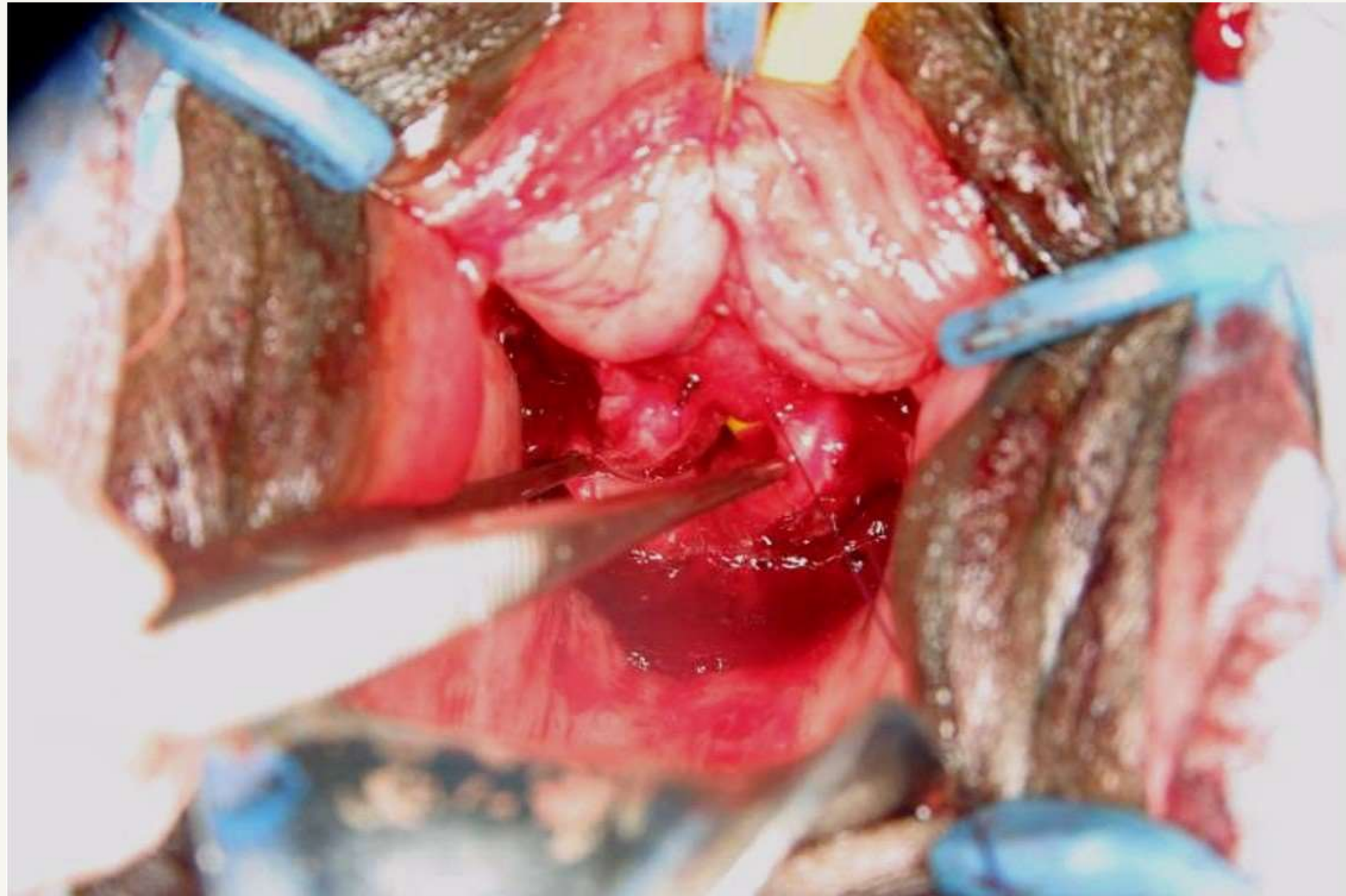
Obstetric Fistula in Developing Countries: What Did I Learn in 25 Years of Practice?



Obstetric Fistula in Developing Countries: What Did I Learn in 25 Years of Practice?



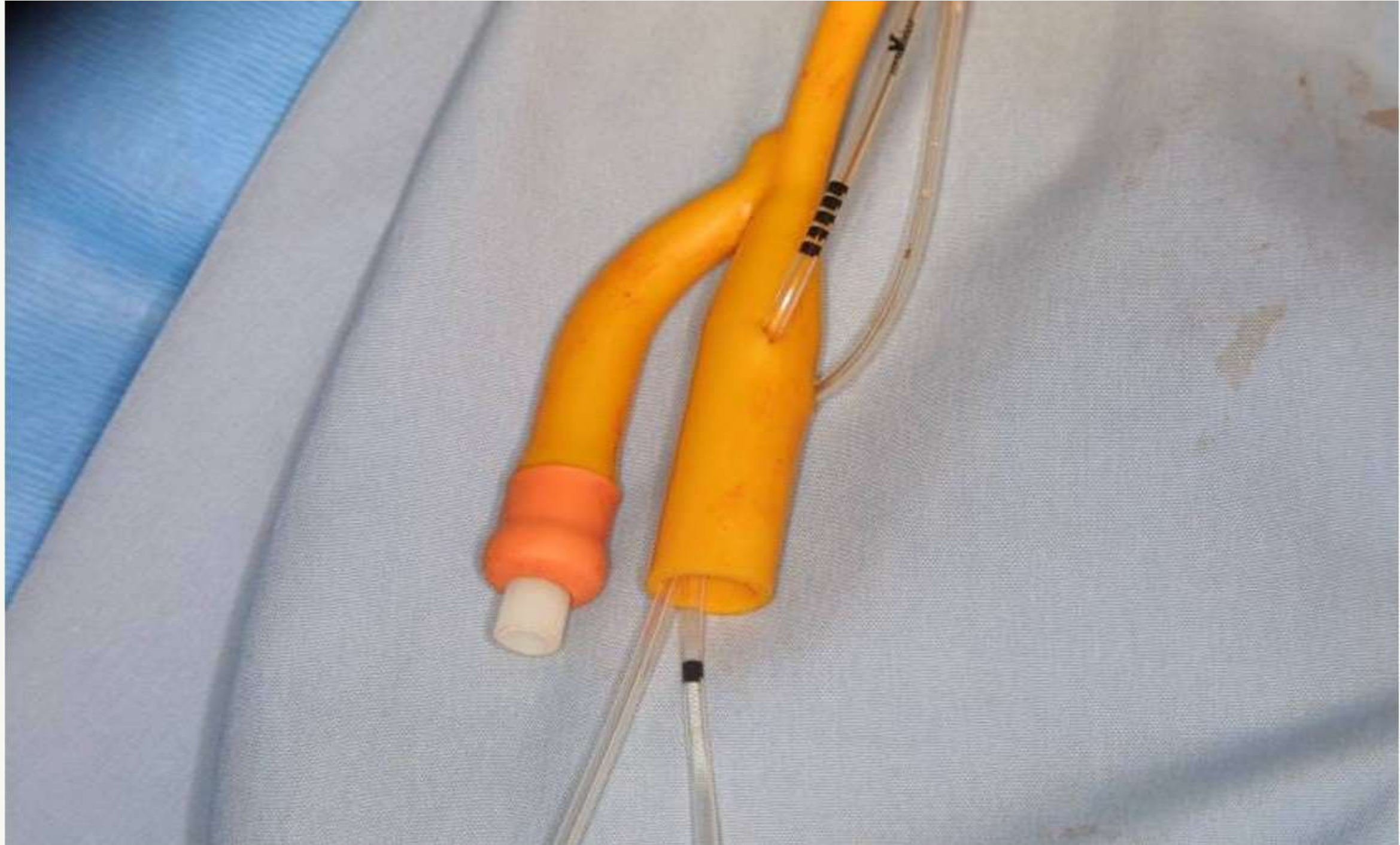
Obstetric Fistula in Developing Countries: What Did I Learn in 25 Years of Practice?



Obstetric Fistula in Developing Countries: What Did I Learn in 25 Years of Practice?

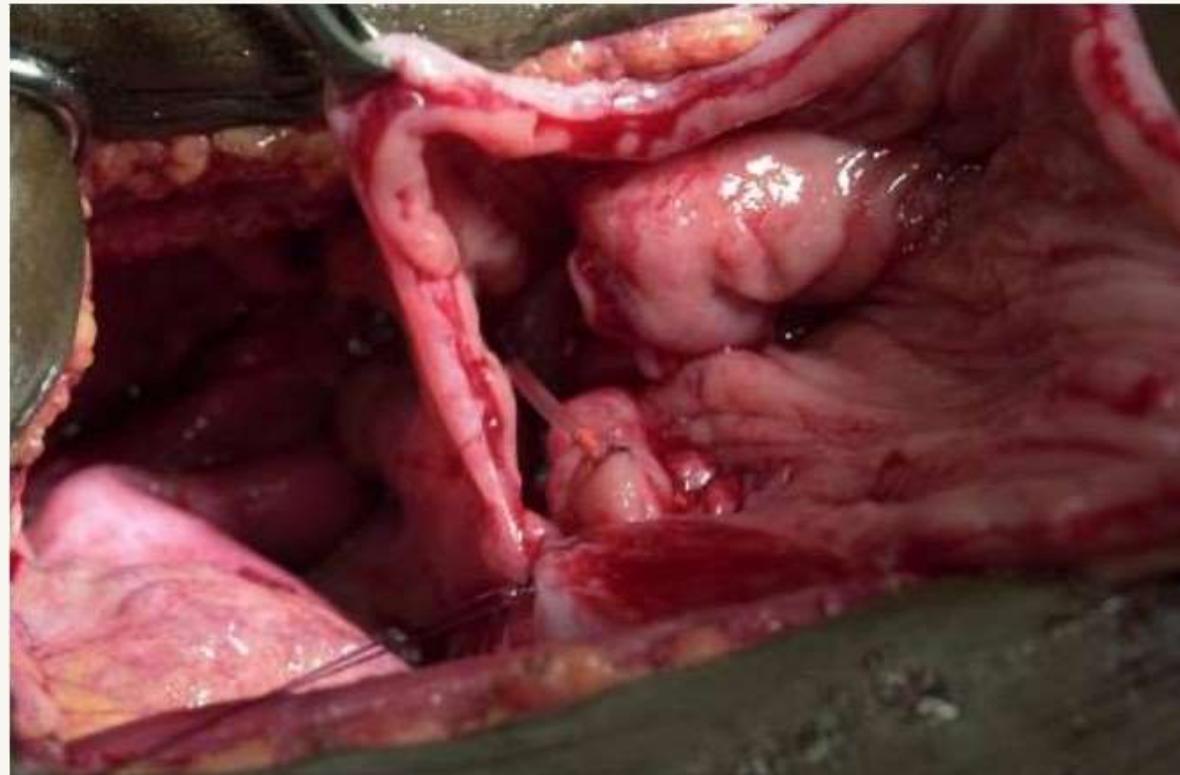


Obstetric Fistula in Developing Countries: What Did I Learn in 25 Years of Practice?

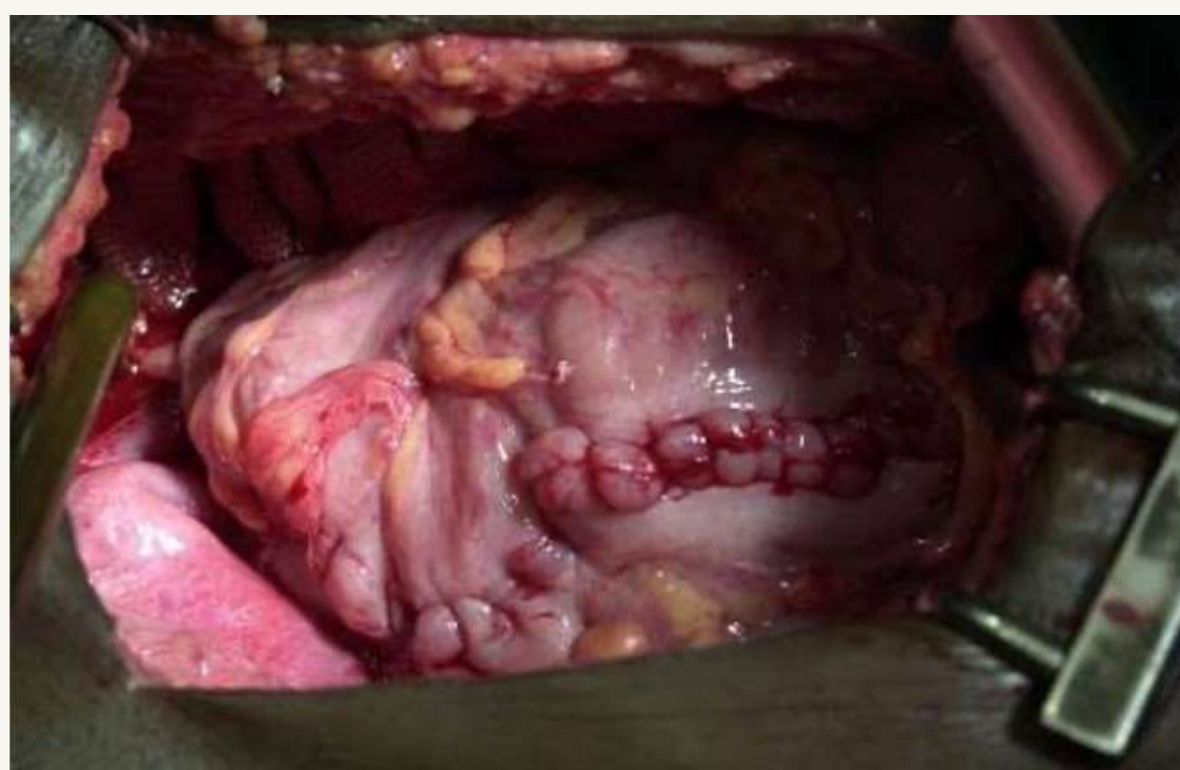
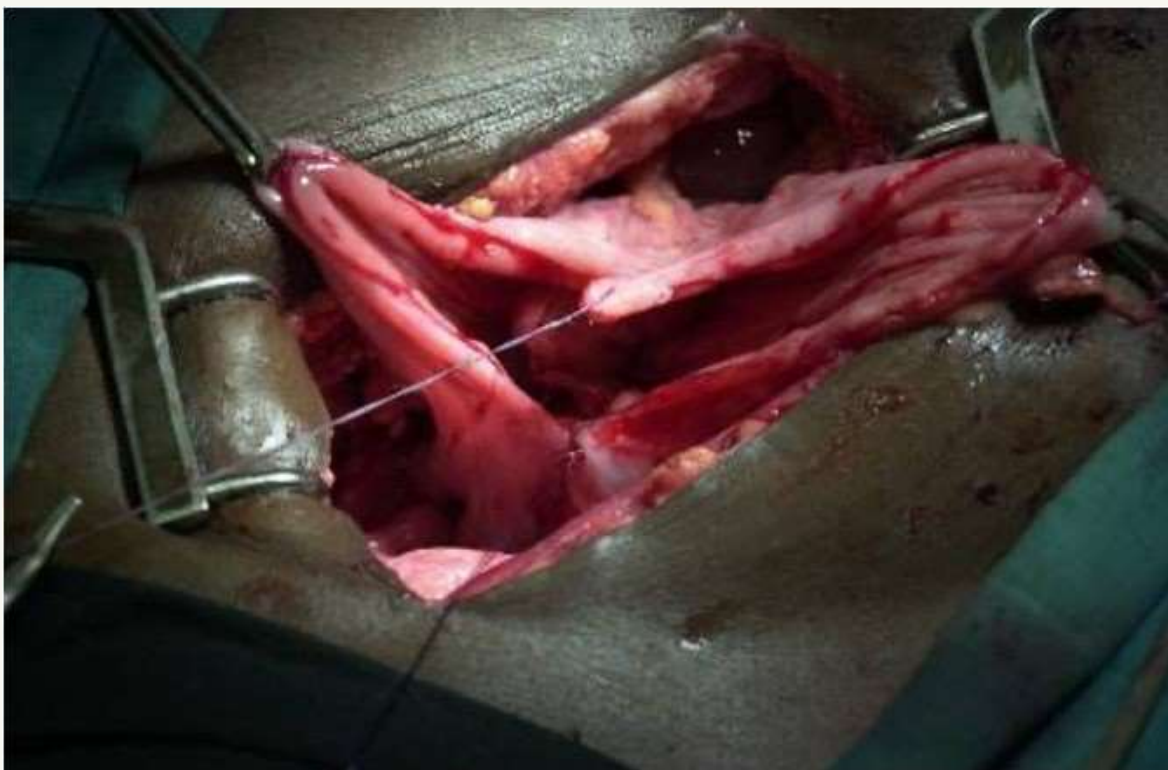


Obstetric Fistula in Developing Countries: What Did I Learn in 25 Years of Practice?





Mainz II Diversion



Retrospective survey 2005-2011

21 patients with urinary diversion Tanguiéta

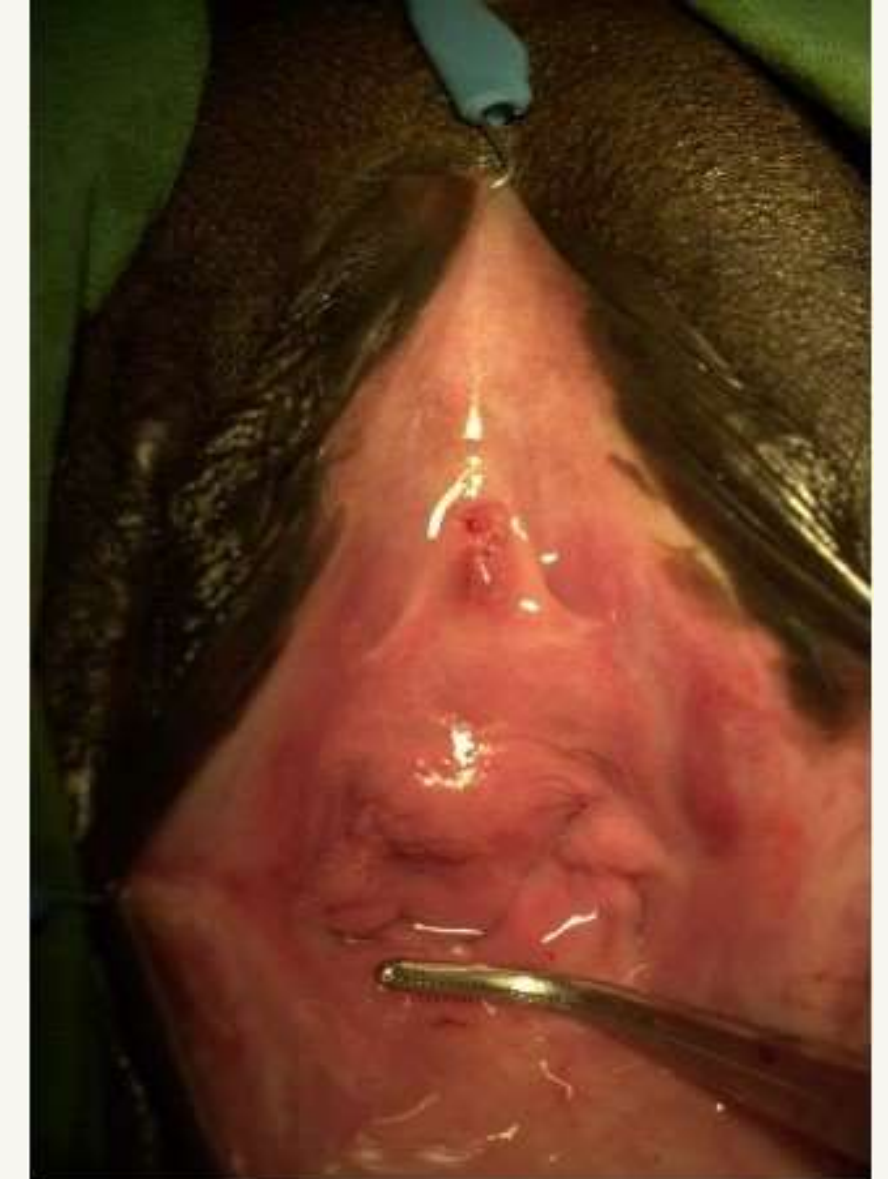
	Uretero sigmoïdostomy	Mainz Pouch II
Post operative morbidity	0	4/10
Long term mortality	5/11	4/10
Stools frequency	1 to 4	1 to 2
Sexual activity	5/6	3/7

Morbidity and mortality acceptable?

Stress Incontinence after Fistula Repair

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

For experts and motivated surgeons

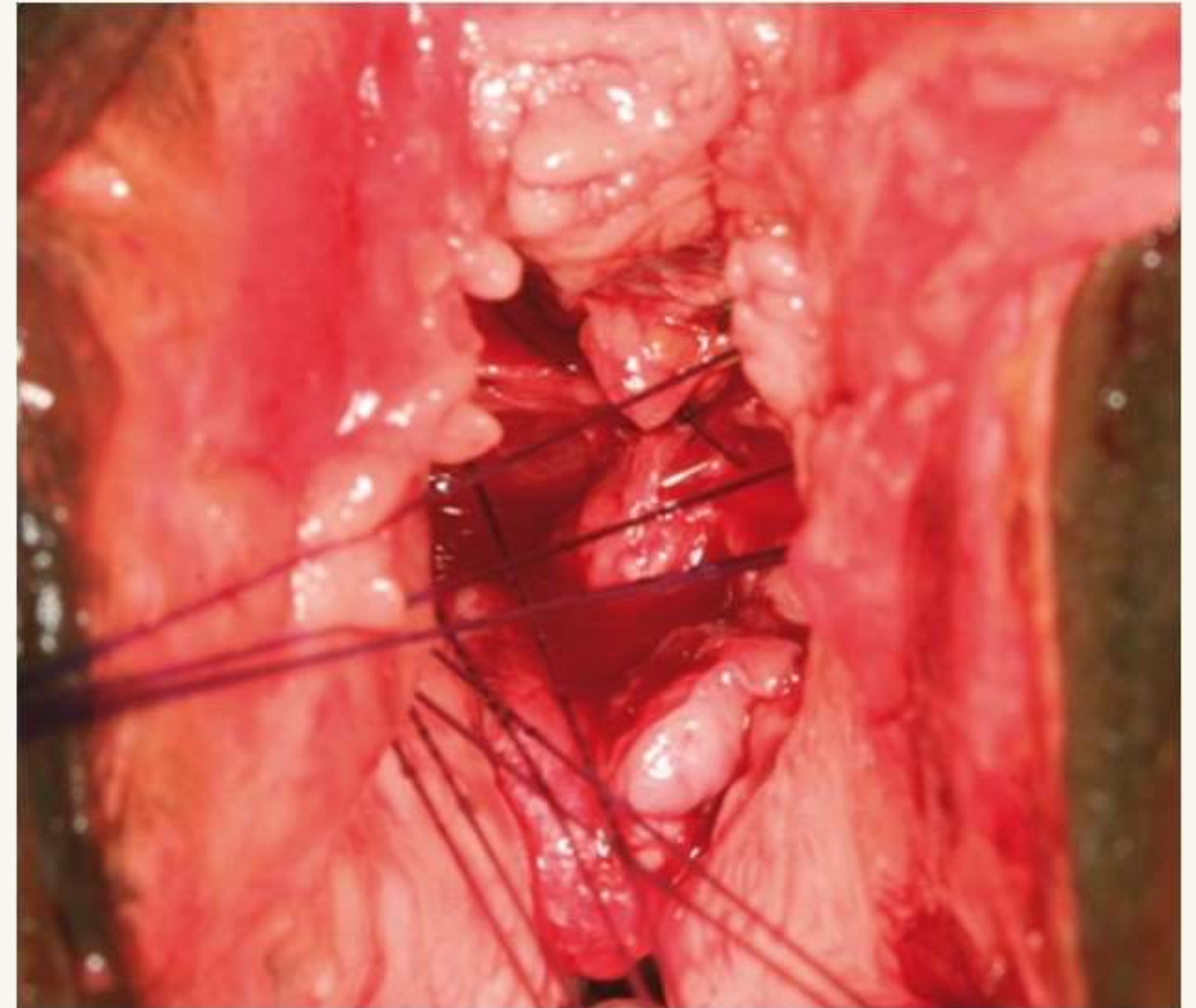


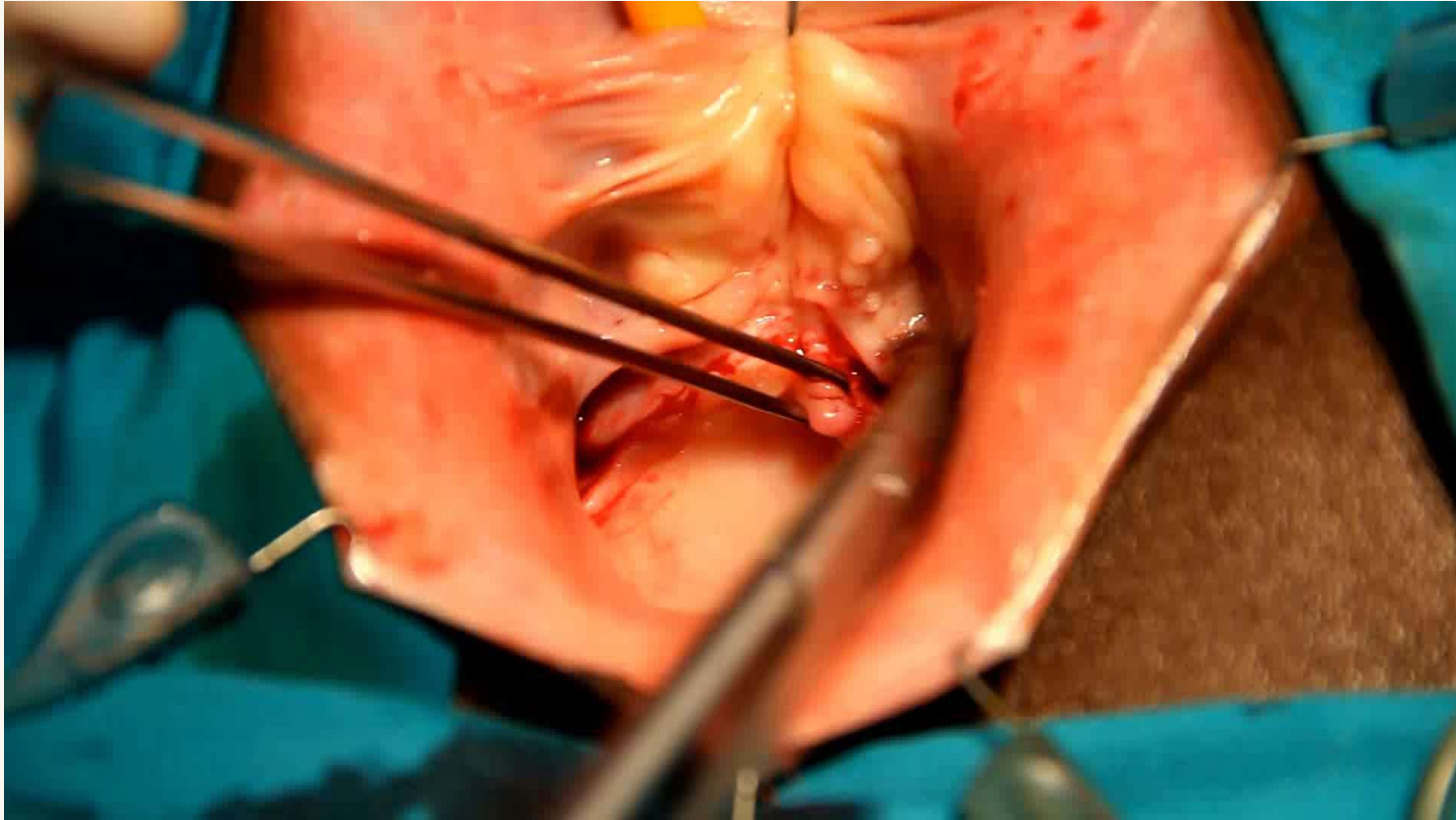
Development in Treatment : Stress Incontinence

- 2002 colposuspension by vaginal flap
- 2005 TOT (African Tape) abandoned !
- 2010 trigonisation and endopelvic fascia elevation
- 2012 colposuspension with tape of « rectus fascia »

Trigonisation with the plicature of pubocervical fascia.

Elevation of bladder neck to endopelvic fascia after large opening of the periurthral spaces.





« Rectus fascia sling »

Rectus Fascia Sling After Repair of Obstetrical Fistulas: A Review of 12 Cases of Stress Urinary Incontinence in Tanguieta, Benin

Jessica Harroche, MD

Department of Obstetrics & Gynecology and Women's Health



Conclusion

Rectus Fascial Slings :

- Viable and sustainable long term solution to post op SUI
- Next Step: Identifying surgical patients for prophylactic procedure

Premise of a Model to Fight a Poorly Understood Disease

1996

FIRST CAMPAIGN

2001

FIRST DONATION

PRODUCTION OF THE FILM:
NOÉLIE OR THE FORGOTTEN REALITY



Creation of the GFMER Foundation, an International Network



2002

**FOUNDATION
BOARD
GFMER**

Network,
Visibility
New partners



2003

**CAMPAIGN TO END
OBSTETRIC
FISTULA**

UNFPA
WHO



2004

**SUPPORT
FROM THE CITY
OF GENEVA**

15 years of collaboration

The Keystone of the Model : Training, Recruitment, Monitoring and Networking

SURGICAL CAMPAIGNS

Getting to grips with this
demanding surgery

DATA BASE

Sharing information
with other NGOs

RECRUITMENT AND FOLLOW-UP

NGO: ESSOR
Sentinelles

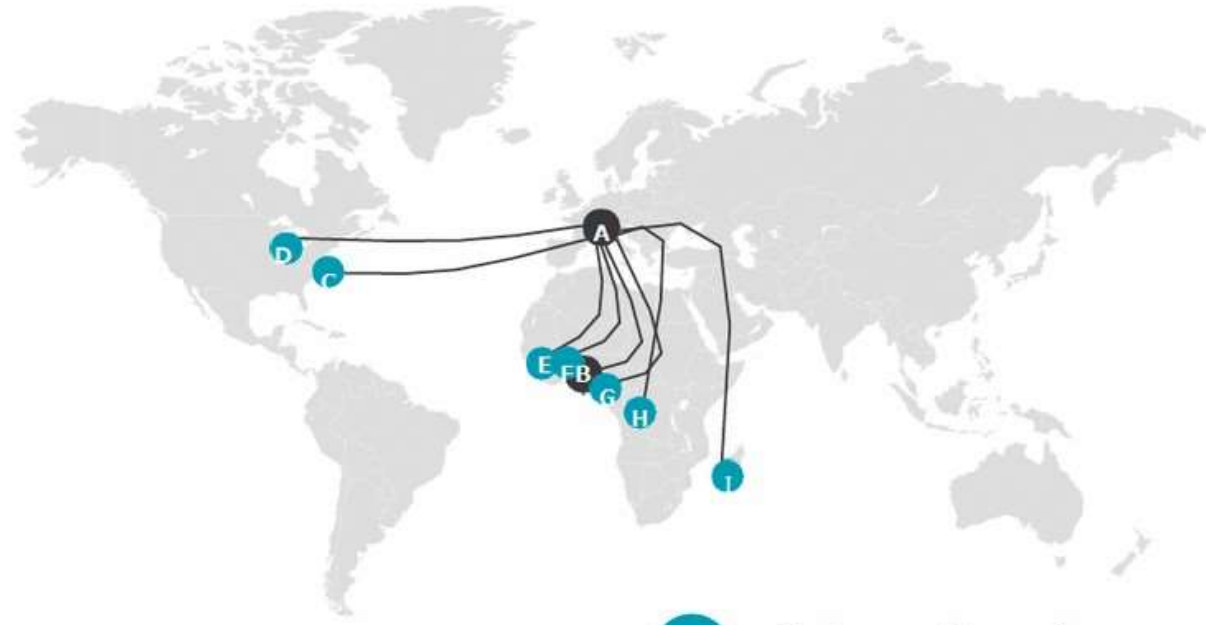
UNIVERSITY PARTNERSHIPS

- Faculté des sciences de
Cotonou (2006)
- Albert Einstein College of Medicine
New York (2008)

WORKING GROUPS

FIGO
IOFWG
AFOA

Worldwilde



A Switzerland
Headquarters of Fistula Group (Geneva) and of Sentinelles in Lausanne.

B Benin
Focal point of the Fistula Group programme.

C New York (USA)
Albert Einstein College of Medicine, a collaboration of over 10 years.

D Detroit (USA)
Collaboration with Henry Ford Hospital, Detroit, in particular Dr James Peabody, urologist and Department vice chairman.

E Guinea Conakry
Cooperation via the AFOA (Association of Obstetric Fistula in Africa) and Engender Health led by Dr Jérôme Blanchot and Dr Jean-Marie Colas.

F Burkina Faso
Collaboration with Dr. Moussa Guiro for operations in both Burkina Faso and Benin.

G Cameroon
Collaboration with Prof. Pierre-Marie Tébeu for operating missions in Yaoundé and Central Africa.

H Congo Brazzaville
Headquarters of CIESPAC, a partner of Fistula Group.

I Madagascar
Collaboration with SALFA.

An Inspiring Model

- Treatment
- Training
- Research
- Prevention
- Rehabilitation of patients
- Awareness of populations

First published: 28 November 2019

Prognostic factors and long-term outcomes of obstetric fistula care using the Tanguiéta model

Anne-Caroline Benski, Martine Delavy, Charles-Henry Rochat, Manuela Viviano, Rosa Catarino, Valérie Elsig, Abdoulaye Douougou, Patrick Petignat, Pierre Vassilakos

Abstract

Objectives

To identify factors influencing the long-term prognosis after surgical repair of obstetric fistula, establish a prognosis-based classification system, and examine changes in quality of life after surgery.

Methods

A retrospective study of 308 women who underwent obstetric fistula repair at Saint Jean de Dieu Hospital, Tanguiéta, Benin, between 2008 and 2016, and were supported by a multidisciplinary management model. All participants were from rural areas of Burkina Faso. The women completed interviews before, immediately after, and 2, 4–6, and 12 months after surgery to assess their clinical state and socioeconomic and psychologic status.

Results

Overall, the fistulae of 230/274 (83.9%) women were considered to be repaired after 12 months. Factors associated with poor repair outcome included the presence of sclerotic tissue (odds ratio [OR], 0.25; 95% confidence interval [CI], 0.11–0.53) and intraoperative complications (OR, 0.16; 95% CI, 0.07–0.39). Women with successful surgery had a better quality of life as compared with women with an unrepaired fistula (Ditrovie score, 1.1 vs 3.9; $P < 0.001$).

Conclusion

The multidisciplinary Tanguiéta model for management of obstetric fistula allowed successful fistula closure, thereby facilitating the women's long-term social reintegration, and improved quality of life.

Int J Gynaecol Obstet. 2015 Mar;128(3):264-6.
doi: 10.1016/j.ijgo.2014.09.028. Epub 2014 Dec 3.

One-year follow-up of women who participated in a physiotherapy and health education program before and after obstetric fistula surgery

[Yves-Jacques Castille](#), [Chiara Avocetien](#), [Dieudonné Zaongo](#), [Jean-Marie Colas](#), [James O Peabody](#), [Charles-Henry Rochat](#)

Abstract

Objective

To investigate whether the positive impact of a program of physiotherapy and health education on the outcome of obstetric fistula surgery was maintained after 1 year.

Methods: The present follow-up analysis included 108 women who underwent obstetric fistula surgery at a center in Tanguiéta, Benin, between March 2011 and March 2012, and who had received a structured program of physiotherapy and health education before and after surgery. After discharge, follow-up visits were made 3, 6, and 12 months after surgery. The Ditrovie scale was used to measure quality of life (QoL), and continence and performance of the physiotherapy exercises were assessed.

Results: Mean QoL score was 36.9 (range 16.0-49.0) before surgery. Overall, 84 women were followed up for 1 year. Their mean QoL score had improved significantly to 18.5 (range 10.0-47.0; $P < 0.001$). Between hospital discharge and 1 year, the number of women with a closed fistula increased from 48 (57.1%) to 53 (63.1%) and the number with urinary stress incontinence reduced from 11 (13.1%) to 9 (10.7%).

Conclusion

Results obtained after surgery and physiotherapy were maintained at 1 year, and QoL had improved significantly. When women are encouraged to continue exercises, improvements are also seen in residual stress incontinence.





Challenges

- Intensify recruitment
- Provide free fistula surgery
- Improve the training of obstetric gynecologists (*cave*: iatrogenic fistula)
- Improve the quality of technical equipment
- Integration of prolapse surgery in the model
- Diversify support for social reintegration

Other Challenges: Fistula GFMER Internet Data Base

Security Access Login	
User ID	<input type="text"/>
Password	<input type="text"/>
<input type="submit" value="Submit"/>	

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

On-line Training Course

Version française



Maternal Health **Task Force**



Obstetric Fistula

The fourth online training course in the field of maternal and perinatal health by GFMER/MHTF/OMPHI/TGHN

An interactive course for health professionals

Access the Course 



May 2022 A première: Live Surgery in Tanguiéta

A live video-transmitted fistula operation followed by an interactive debate took place on Monday 2 May 2022 from the Saint Jean de Dieu Hospital in Tanguiéta. The surgery was performed by Dr Renaud Aholou with the team from the Saint Jean de Dieu Hospital in Tanguiéta and commented on by Dr Charles-Henry Rochat and Dr Gilbert Fassinou.



May 2022 Special Mission for Complex Cases

A special mission to Cotonou dedicated to persistent incontinence and extreme obstetric fistula cases, with experts from Benin.



April-May 2022
Synergies with the
Training Scholarship
Program.



April-May 2022
Training of 9 Doctors
from Cotonou
(gynecologists and
urologists)



A Humanitarian Field Project

Obstetric fistulae in West Africa: patient perspectives

Lisa M. Nathan, MD, MPH; Charles H. Rochat, MD; Bogdan Grigorescu, MD; Erika Banks, MD

OBJECTIVE: The objective of this study is to gain insight into the nature of obstetric fistulae in Africa through patient perspectives.

STUDY DESIGN: At l'Hôpital Saint Jean de Dieu in Tanguieta, Benin, 37 fistula patients underwent structured interviews about fistula cause, obstacles to medical care, prevention, and reintegration by 2 physicians via interpreters.

RESULTS: The majority of participants (43%) thought their fistulae were a result of trauma from the operative delivery. Lack of financial resources (49%) was the most commonly reported obstacle to care, and prenatal care (38%) was most frequently reported as an interven-

tion that may prevent obstetric fistulae. The majority (49%) of the participants requested no further reintegration assistance aside from surgery.

CONCLUSION: Accessible emergency obstetric care is necessary to decrease the burden of obstetric fistulae in Africa. This may be accomplished through increased and improved health care facilities and education of providers and patients.



New Research Area: Sexuality and Obstetric Fistula

In 2020, Fistula Group planned to develop a qualitative study on the socio-psychological and sexual accompaniment of patients from the rural region of North Benin and the urban region of Yaoundé. Today, Fistula Group would like to continue the project with Dr Anne-Caroline Benski, the University of Geneva and the University Hospitals of Geneva in parallel with research projects and the development of telemedicine.

The Next Generation



PIERRE-MARIE TEBEU MD
CAMEROON / CENTRALE AFRICA



RENAUD AHLOU MD
BENIN



JEAN DE DIEU YUNGA FOMA MD
BENIN



JEAN- CLAUDE OTSHUDI DIUMI MD
RDC



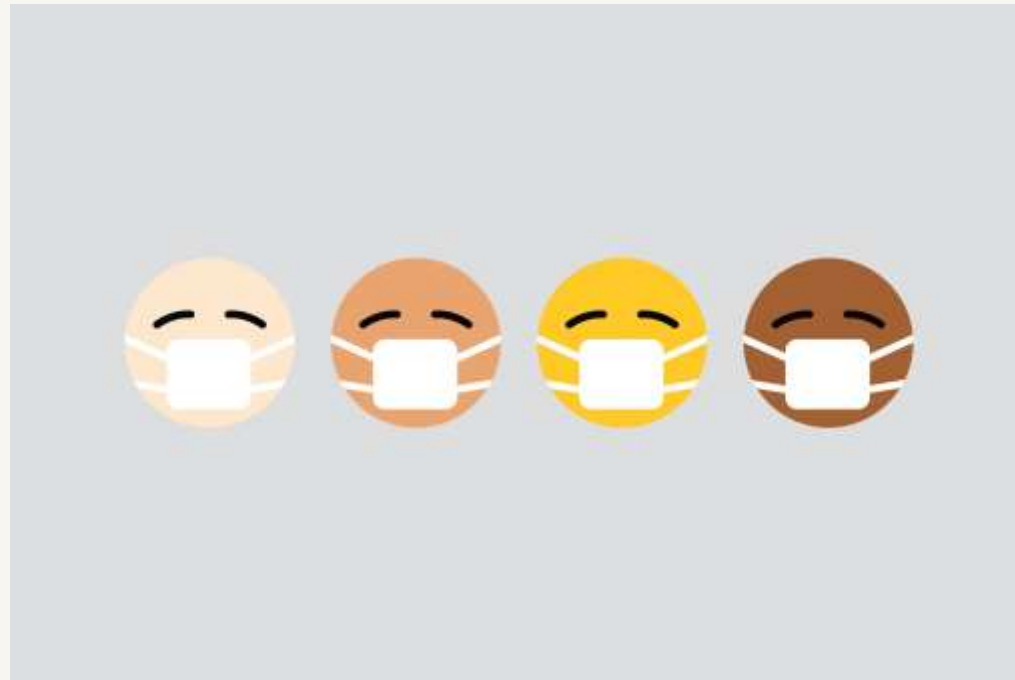
MOUSSA GUIRO MD
BURKINA FASO



JACQUES MARTIN RANDRIANTSALAMA MD
MADAGASCAR / SENEGAL

More than 150 doctors and surgeons were trained in the course of the surgical workshops, of which about fifteen were able to treat the most difficult cases.

The Health Crisis and Terrorist Risks



CLOSINGS

Airports
Bush taxis



FEARS

Patients' fears of
going to consultations



TERRORIST ACTIVITIES

Border with Burkina Faso

Concluding Remarks

- Fieldwork is an ongoing process and requires adaptation to local pathologies and existing resources
- It is a privilege to be able to care for and learn from our patients
- The care of women with obstetric fistula must be comprehensive and holistic
- The eradication of obstetric fistula remains a major socio-economic issue

... but today, more than before, we have to deal with an uncertain world.





TO GIVE ALL WOMEN THEIR DIGNITY: www.fistulagroup.org