Reports

Ganesh Dangal, MD, FICS

Senior Consultant, Kathmandu Model Hospital, Phect-Nepal General Secretary, NESOG Editor-in-Chief, NJOG; Council Member, SAFOG

OBSTETRIC FISTULA IN NEPAL

innovating to save lives







an affiliate of Johns Hopkins University

NESOG-SAFOG CONFERENCE 2015

Disclosure and Acknowledgments

- The presenter gratefully acknowledge the invitation of Jhpiego for this presentation in the international conference of NESOG-SAFOG.
- However, I have no conflicts of interest.
- Some of the slides are from Hamlin Hospital.

Presentation Outline

- Some basics about obstetric fistula (OF)
- Overview OF care in Nepal
- Some national and international initiatives
- Opportunities and challenges
- Conclusions

Overview of Obstetric Fistula

Obstetric fistula is the only major public health problem where—prevention and treatment—take place at secondary health level by high-quality surgery by highly qualified staff in highly specialized units, with individual patient care.

Prevention by well-trained nurses/midwives, using the partogram and if necessary vacuum extractor; secondly, by well-trained registrars and obstetricians, when an operation/CS is necessary.

Treatment is by selective complicated reconstructive surgery by gynecologists, urologists, general surgeons, reconstructive surgeons as such—prevention and treatment—require well-trained health workers of all categories, specialists and staff, and well equipped operation theaters; all of this is expensive (*Source*: Dr Kees Waaldijk, International Society of Fistula Surgeons).

THE CAUSE OF OBSTETRIC FISTULA

Unrelieved obstructed labor

- Urban poverty
- Lack of free medical care
- Remote dwellings
- No transport
- No hospitals/no CS facility

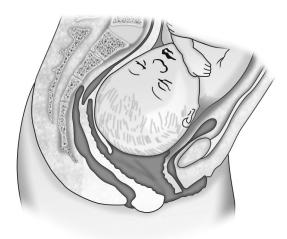






Unrelieved Obstructed Labor

Prolonged pressure of the babies head crushes the base of the bladder against the back of the pubis



RESULT

A hole between the vagina and bladder vesicovaginal fistula (VVF)



Effect of VVF

She will be incontinent of urine for life. She will become a social outcast unless she can find a skilled surgeon.



Causes of Fistula

- Childbirth—95.4%
- Surgery—1.2%
- Others—0.5%
- Coitus—2.1%
- Trauma—0.8%

Epidemiology

- Prevalent in Africa and Asia
- Obstetric fistula: 0.3% deliveries (WHO)
- Worldwide: 100,000 new cases per year
- Prevalence of up to 2 million
- Ethiopia: 9,000 new cases per year
- Nepal: 400 to 500 new cases per year; prevalence—5,000 cases

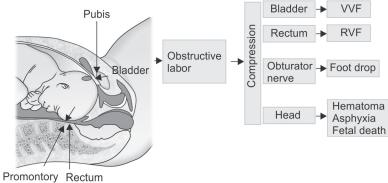
Geographic Distribution of Obstetric Fistula

Almost all in OF belt from Mauritania to Eritrea, Middle-East and South of Asia. Waaldijk 1994; Danso 1996; Ijaiya 2004; Sefrioui 2001; Stanton 2007.

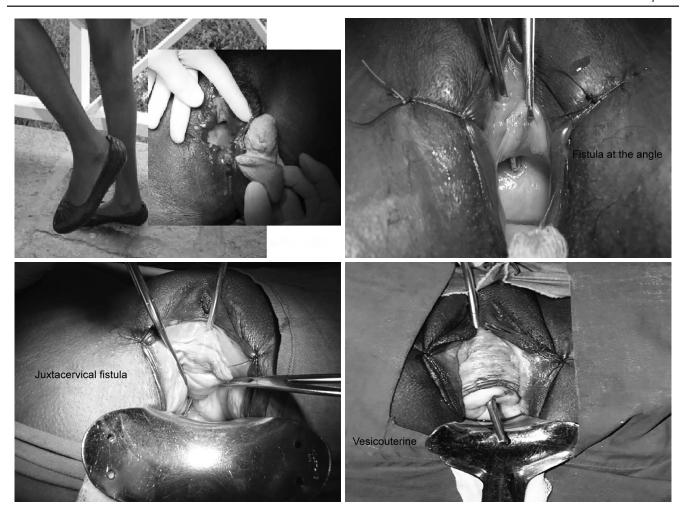


Physiopathology of Obstetric Fistula

WHO, UNDP, UNICED, World Bank IMPAC 2003







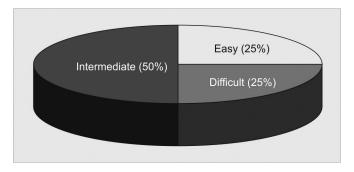
Treatment

Supportive and surgical

- Counseling
- Nutritional support
- Medical treatment
- Physiotherapy
- Psychotherapy
- Local care
- Infection management

Can All Patients with VVF be cured?

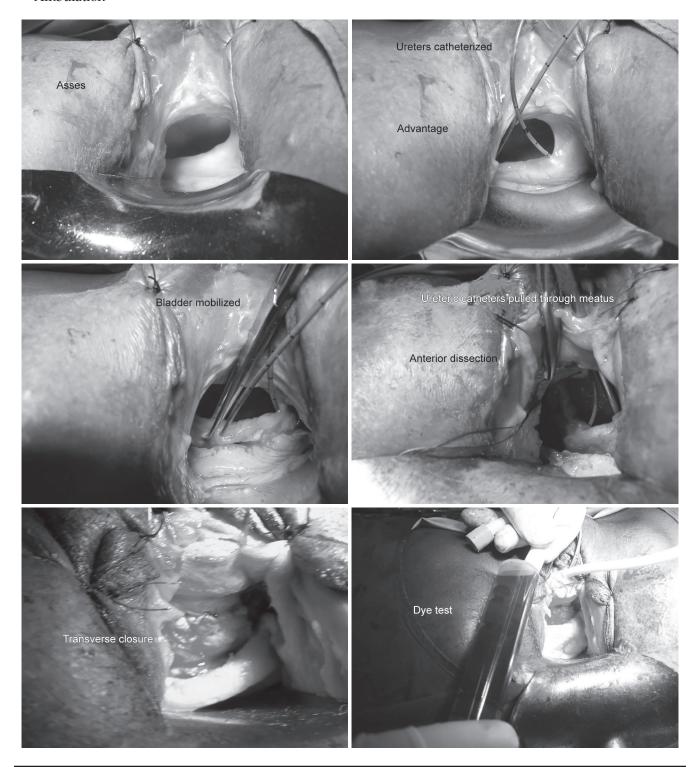
- One quarter are easy with near 100% success.
- One half are intermediate in difficultly, 90% success for an expert.
- One quarter are very difficult, 50% success rate for an expert.
- Success means closure of the fistula and no stress incontinence.



Surgery (Preoperative and Postoperative Care)

Principles of Surgery

- Timing of surgery 3 months
- Protect the ureters—stent them
- Wide mobilization
- Excision of scar tissue
- Tension-free closure; check with dye
- Graft?
- Proper postoperative care: The 3Ds
- Ambulation





FIGO Surgical Training Program at Hamlin Hospital, Addis Ababa



- The hospital was founded in 1974
- Charitable hospital
- Operated more than 40,000 patients
- Training, research and publication
- Five surgeons from Nepal trained there
- One selected for 2015 (from Nepal)

Fistula Surgery Training—Hamlins



Nepal Experience: Very Limited

- There has been lot of work in recent years—obstetric fistula workshops, studies (UNFPA, FHD), national (Nepal Treatment Network of FF, Sessions), regional (KTM, Pakistan) and international meetings (FIGO, Tanzania).
- UNFPA, Fistula Foundation, Australian Embassy (DAP) and others have been supporting the program.
- Community-based outreach clinics, camps and awareness raising activities are on the rise.
- National training package on OF has recently been prepared and piloting done (Jhpiego, UNFPA, NHTC, FHD).
- Publications national/international and presentations in conferences/meetings.

Background: Obstetric Fistula Training in Nepal

Until very recently, obstetric fistula was not officially recognized as a public health problem in Nepal.

Every year 500 women suffer from obstetric fistula in Nepal, but most of the cases remain hidden in Nepal due to the lack of knowledge about its treatment and shame.

Preventing and managing OF contributes to the MDG 5 of improving maternal health.

There was no competency-based training under National Health Training System for OF. So, a need for developing training curriculum as well as training site.

COMPETENCY-BASED ON-THE-JOB TRAINING

Training Package Development

Training package developed with technical support from Jhpiego through UNFPA program (funds) in close co-ordination with Family Health Division and National Health Training Center.

- First workshop—December 27 to 29, 2013
- Finalization workshop—March 4 to 6, 2014
- Review and technical inputs by national and international consultants



Glimpses of workshops for training package

Management of Obstetric Fistula for Health Care Providers – On-the-Job Training

Management of Obstetric Fistula for Health Care Providers – On-the-Job Training

Reference Manual March 2014 Facilitators' Guide March 2014





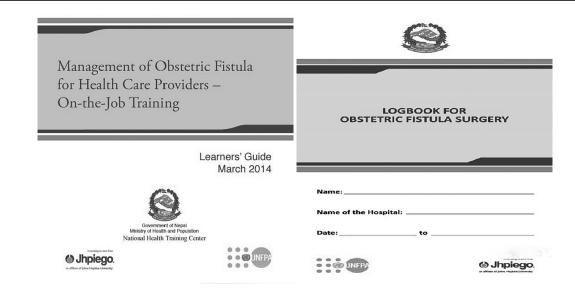














TRAINING SITE DEVELOPMENT

Memorandum of Understanding signed

- BPKIHS was selected as obstetric fistula training site by NHTC
- MoU signed between BPKIHS, NHTC, UNFPA and Jhpiego
- Strengthened training site by providing necessary training materials through UNFPA/Jhpiego program



On-the-Job Training-Field Test of Training Package

- Conducted OJT—May 16 to Sept 19, 2014
- One Trainer, four participants: two doctors and two nurses



Participants Practice at Satellite

- Participants (two doctors and two nurses) visited Mid Western Regional Hospital for 6 days, Nov 17 to 21, 2014.
- All participants got hands on practice with Dr Shirley Heywood on three patients.



Achievement

- National Obstetric Fistula Training Site established under National Health Training Center.
- Competency-based on-the-job training package finalized.
- Skills standardization workshop conducted through UNFPA/Jhpiego program in coordination with National Health Training Center.

Still Learning and Working to improve

- Patan Hospital—working for two decades with 500 VVF surgeries.
- INF working with the Regional Hospital in Surkhet—few hundred cases—since 2010 and camp-based approach.
- BPKIHS, Dharan—working for few years—few hundred VVF surgeries.



- Kathmandu Model Hospital is a new fistula center and has three FIGO-trained fistula surgeons >50 surgeries in
- TUTH, PWMH and other institutions—involved in OF care.

Obstetric Fistula Surgical Workshops

- 2014: Dr Tom Rasson, ISOFS—BPKIHS
- 2014: Dr Steve Arrowsmith, Fistula Foundation—KMH/phect
- 16 to 20 March 2015: FIGO-Hamlin-phect—Nepal workshop, Dr Fekade, Director, Hamlin Hospital, Ethiopia

Workshops (Dr Arrowsmith of FF)

- Needs Assessment on OF in Nepal: Dr Tebeu Pierre Marie, MD, MPH, Gynecologist, Obstetrician, Fistula Expert, Dr Meera Thapa Upadhyay MBBS, DGO, MD, Sr Consultant Gynecologist, 8 Dec 2011, UNFPA.
- RH Morbidity Study by FHD/UNFPA in 2014





Studies- Clinic based: Dharan, Patan, KMH experiences published

REVIEW ARTICLE

Obstetric Fistula in the Developing World: An Agonising Tragedy

Dangal G,¹ Thapa K,² Yangzom K,³ Karki A¹
¹Department of Obstetrics and Gynaecology, Kathmandu Model Hospital, Kathmandu,

Inpiego, Lalitpur, Nepal Department of Obstetrics and Gynaecology, Patan Academy of Health Sciences, Lalitpur

Obstetric fistulae is the most tragic of preventable childbirth complications in the developing world, as affected wome often abundenced by their husbands and family, and forced to live in shame. They occur almost entirely in the develowed and their incidence is poorly studied. Their management requires accurate diagnosis, sufficient pre-operative very consistent of the properties of the properties and the properties are consistent of the properties and skilled staff available locally to obstetric fistula for improving the lives of women currently living with this condition. Moreover, effective prove strategies for obstetric fistula such as better education to women and provision of improved obstetric care and search in the properties of the prevention and treatment should be the priority. The materials published in PubMed, Le Medline, WHO and Google Scholar web pages from 1990 to 2013 have been utilized to propare this paper.

Keywords: fistula prevention, fistula repair, Nepal, obstetric fistula, obstructed labor.

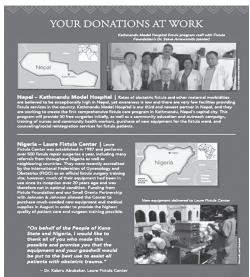
Obstetric fistula remains a major public health problem in developing world where unattended obstructed labor is common and maternal mortality is unacceptably high. It is a tragedy of developing world because of illiteracy, poverty, ignorance and lack of health facilities. Obstetric fistulas can be completely prevented by the provision of proper health care. Obstructed labor fistula occurs almost exclusively indeveloping countries where access to intra-partum clinical care is far from the

The evaluation and treatment of obstetric fit obstetric fittuls in Developing jog is nost challenging clinical scena for surgery, surgical technique, and post-opera wound healing each bear significant impact on final outcome. The first operation presents the opportunity for successful outcome. Fistula recurs for more fibrotic, or more complex. Optimal fish programming is predicated on the principle that fistula warrant hyper-vigilant attention to the detection of patient preparation, meticulous reconstructions are surgical technique, and rigorous postoperative of paradigms. 1-2

CORRESPONDENCE

Dr Gancsh Dangal Department of Obstetrics and Gynaecology, Kathmandu Model Hospital, Exhibition Road, Kathmandu, Nepal. Email: ganesh.dangal@gmail.com Phone: +977-9851055036

Coverage: FF Newsletter, Headline in National Daily













OPPORTUNITIES

- Funds, support and commitment: FF, DAP, UNFPA, direct relief, etc.
- Advocacy for prevention and care: NESOG, FHD, others
- Capacity building: Jhpiego, NHTC, FIGO, UNFPA
- Collaboration—Nepal Treatment Network, Asian Treatment Network of FF
- Community mobilization: NGOs

CHALLENGES

- Case-finding, bringing them for treatment and follow-up
- Outcome of treatment, e.g. failure, stress incontinence-demoralizes physicians/staff
- Social reintegration needs to be addressed
- Awareness raising, education, prevention
- Training of nurses and health workers for fistula care
- No physiotherapy and rehabilitation center
- Inoperable cases—need of expertise

CONCLUSION

Fistula does not occur in isolation. Therefore, its prevention and treatment require an integrated and coordinated approach and collaboration.

