A COMPARATIVE STUDY OF THE MANAGEMENT OF VESICO AND/OR RECTO-VAGINAL FISTULAE AT BUGANDO MEDICAL CENTRE, MWANZA, TANZANIA, EAST AFRICA: A RETROSPECTIVE STUDY

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DEFINITION

VESICO-VAGINAL FISTULA
 (VVF) or URINE FISTULA
 Abnormal communication between the bladder and the vagina



RECTO-VAGINAL FISTULA
 (RVF) or STOOL FISTULA

 Abnormal communication between the rectum and the vagina



CAUSES

- PROLONGED OBSTRUCTED LABOUR:
 - · Obstetric fistulae
- IATROGENIC
 - · Surgery: Hysterectomy, colporrhaphy, caesarean section
- MALIGNANCY
- RADIATION
 - · Carcinoma of the cervix
- DIRECT TRAUMA TO THE BLADDER AND/OR RECTUM
- CONGENITAL MALFORMATION
- INFECTION

OBSTETRIC FISTULA:

Mechanism of formation in prolonged obstructed labour:

The fetal head gets stuck inside the birth canal

The bladder is compressed betweeen the hard fetal skull and the hard maternal pelvic bones (symphisis pubis)

If not releaved within 3 hours by a caesarean section occurs:

Oedema, avascular necrosis (no blood supply)
Slough and a **FISTULA** develops

OBSTETRIC FISTULA HAS **DISAPPEARED**FROM THE INDUSTRIALIZED WORLD

BUT

VERY COMMON IN THE

DEVELOPING WORLD:

85%

OF ALL THE FISTULA WORLD-WIDE



SIGNS AND SYMPTOMS

VESICO-VAGINAL FISTULA

- · Continuous urine leaking through vagina
- Cannot be stopped or cleaned
- Smell and excoriative dermatitis

• RECTO-VAGINAL FISTULA

- · Intermittent passing of stools through vagina
- · Can be stopped and cleaned (unless diarrhoea)



SOCIAL ACCEPTANCE



URINE FISTULA

far **less** acceptable than

STOOL FISTULA

SOCIAL IMPLICATION

woman with VVF is

Ostracized

from her own society and community



LIVES AS AN OUTCAST

PREVALENCE

AT LEAST 2,000,000

WOMEN AWAITING FOR SURGERY WORLD-WIDE

80-90% IN AFRICA



What Is Important?



TO CLOSE THE FISTULA

A retrospective comparative study of the management of vesico and/or rectovaginal fistulae, between the usual and the modified method was done at Bugando Medical Centre, Mwanza, Tanzania, East Africa:

from April 1996 to September 2003

OBJECTIVE OF THE MODIFIED METHOD

To provide a high quality fistulae repair which is:

- SIMPLE
 - SAFE
- EFFECTIVE
 - FEASIBLE
- SUSTAINABLE
- PAYABLE UNDER PRIMITIVE CONDITIONS

- No examination under general anaesthesia(EUA) during first visit
- Early surgical closure, as soon as the fistula edge is clean
- No special light diet before surgery
- No treatement of excoriative dermatitis

USUAL MANAGEMENT

- Some required EUA during first visit
- All to undergo surgery after 3 months

• 3 days light diet

Antibiotic creams

- Two enemas before surgery
- One dose
 prophylaxis
 antibiotherapy
 few minutes before
 surgery
- Spinal anaesthesia

USUAL MANAGEMENT

• 4 enemas

 Preventive and postoperative antibiotherapy

• General anaesthesia

 Starting with RVF repair then VVF

- Absorbable sutures on vaginal mucosa and episiotomy
- Urine bag on foley catheter

USUAL MANAGEMENT

- Starting with VVF
 repair when RVF and
 VVF are combined
- Non absorbable sutures

Free urine drainage

USUAL MANAGEMENT

 Ambulation on day 2 post op

• 14 days in bed

 No routine use of Martius fat graft Routine use

Normal diet at day2 post op

Fluid diet for 14 days

The comparison group of 100 patients has been selected randomly for age, cause and size of vesico and/or recto-vaginal fistula.

All patients were operated vaginally

The age ranged from 14 up to 65 years.

Age distribution for two groups

Age group in years	No of patients
14-19	30
20-24	28
25-29	12
30-34	20
35+	10
Total	100

The common cause of vesico and/or recto-vaginal fistula was prolonged obstructed labour

Aetiology of vesico and/or recto-vaginal fistulae for two groups

Cause of vesico-vaginal fistula	No. of patients
Prolonged obstructed labour	92
Ruptured uterus + hysterectomy	2
Caesarean section	4
Total abdominal hysterectomy	2
Total	100

The size of the fistulae, varied from small to extensive

Size of fistula for two groups

Size of fistula	No. of patients
Small	25
Medium	50
Large	20
Extensive	5
Total	100

• With the modified method:

Total cost of **45-70 USD** per patient Hospital stay of up to **30 days**

• With the usual method:

Total cost of **60-300 USD** per patient Hospital stay of up to **10 months**

RESULTS

MODIFIED METHOD:

USUAL METHOD:

100 patients

100 patients

Success rate 92%

Success rate 90%

Unsuccessful 8%

Unsuccessful 9%

Mortality rate of 0%.

Mortality rate of 1%.

Cause of post-op mortality: uraemia both ureters were tied during VVF repair

CONCLUSION (I)

The proposed modified management of vesico and /or recto-vaginal fistula:

 Prevents the woman from becoming an outcast in her society and her family.

• Prevents her from progressive downgrading medically, socially and mentally.

CONCLUSION (II)

• This management has equal success rate of closure as the usual method.

HOWEVER, IT IS MORE:

- -Simple, fast, safe, effective, easy to learn, cheap
- -Reduces hospital stay
- -Can be applied under primitive conditions

• This is exactly what is needed in developing countries with a high annual incidence of fistula patients!



Thank You