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Experience with the Repair of Vesico-Vaginal Fistulas in a Non-Conventional Setting in Sub-Sahara Africa

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Abstract: This study highlights the experience of repairing vesico-vaginal fistulas in health outreach programs in Sub-Saharan Africa. Twenty-six cases of vesico-vaginal fistula were repaired during five missions held between 2006 and 2007. All 26 patients remained continent 21 days after surgery. Fistula repair in un-conventional settings holds great promise and has a role to play in reducing the unmet need for fistula repair in low resource settings.

Keywords: Vesico-vaginal fistulas, repair, non-conventional setting.

Introduction

Among all the morbid conditions that affect women, vesico-vaginal fistula (VVF) is the most debilitating and devastating (1). Disappointingly too, its incidence is not reducing in the developing countries. According to the World Health Organization (WHO), about 2 million women are afflicted with VVF worldwide (2). Available evidence indicates that Nigeria harbours 40% of these with as many as 20,000 new cases occurring every year (3). Browning and Patel (4) estimated that it would take at least 400 years to clear the backlog of VVF patients waiting for repair provided there were no more new cases. This unfolds the unmet need of surgical repair particularly in the developing countries.

in October 2002, Engender health reported that only 33 surgeons repair VVF in Migeria (5). Of the 2,286 cases repaired annually scross the country, only 6.8% of them, were repaired in the country's tertiary in statistics white \$5.2 m were repaired in specialist.

reside. Hence, transportation to these centers could from a major barrier to patients obtaining care.

Realizing this Pro-Health International (PHI), a non-Governmental non-profit organization that offers free health care to the poor and needy at their door steps in rural communities in Africa, initiated a program of training of gynaecologists' on the repair of obstetric fistulas. The first author happened to be one of the beneficiaries of this training and has since been offering these services in non-conventional settings through PHI. This report highlights the experience gained by the authors. It is hoped that this will stimulated the interest of many clinicians in Africa to get involved in VVF repair in order to salvage these young but unfortunate women.

Setting

PFII usually uses any health facility close to or in the community it intends to offer health uses to easy tree to solve interaction secondary meaning uses accordings.

and nurses and other ancillary health staff in the center who will be involved in the pre-and-post operative care of the patients. About five missions were undertaken by the PHI-VVF team between 2006 and 2007. The first mission was in Burundi in Central Africa while the others were held in Adamawa, Taraba and Cross River States in Nigeria.

Methods

For each patient who presented for treatment, the following data were obtained: age, parity, marital status and educational level. The haemoglobin level was assessed and the fistulas were classified according to that proposed by Lawson (6). Simple fistulas were selected for repair. Those with complicated fistulas, including those with partial or total loss of the urethra were referred to specialist centers. Follow up was done by phone calls and continent tests were carried out by the medical officer in the center.

Results

During the five missions, 48 cases of VVF presented. However 26 cases were selected and repaired. The

Table 1: Socio-demographic characteristics of the patients

Variable	No. (%)	
Age	-	
16-20	13(50.0)	
21-25	5(19.2)	
26-30	2(7.7)	
31-35	1(3.8)	
36-40	1(3.8)	
41-45	3(11.5)	
Parity		
0	1(3.8)	
1	21(80.8)	
2	1(3.8)	
3	1(3.8)	
4	1(3.8)	
Marital status		
Married	10(38.5)	
Divorced	13(50.0)	
Single	3(11.5)	
Educational level		
- riman	147.5 Oc	

socio-demographic characteristics of the patients are shown in Table 1. The modal age group was 16-20 years (50.0%). Majority of the patients were primiparous (80.8%) and had primary level education (76.9%), while 50.0% were divorced.

Twenty five patients (96.2%) had pre-operative haemoglobin levels above 11 grams/deciliter while 3.8% of the patients were anaemic at presentation (Table 2). Juxta-cervical fistulas were the most common fistulas encountered (53.8%) while mic vaginal (15.4%) and large fistulas (7.7%) were the least (Table 3). All 26 patients (100%) remained continent after 21 days of surgery.

Table 2: Preoperative haemoglobin level and type o VVF

Variable	No. (%)
Type of VVF	
Juxta-cervical	14(53.9)
Juxta-urethral	6(23.1)
Mid-vaginal	4(15.4)
Very large	2(7.7)
Pre-operative haemoglobin (g/dl)
<11	1(3.8)
11-12	18(69.2)
12-13	4(15.4)
13-14	3(11-5)

Discussion

This study highlights the important role selective reparts of obstetric fistulas in non-conventional setting I trained personnel can play in reducing the number women living with this devastating condition Obstetric fistulas which are virtually solely cause by neglected or prolonged obstructed labour, remains one of the most neglected issues in reproductive heal today (8). Though its exact incidence is difficult ascertain as many women with fistulas do not se treatment, majority of those affected live in porresource countries of Sub-Saharan Africa (6).

Nigeria currently has one of the highest prevaler of obstetric fistulas with about 400,000-1,000.0 women currently living with fistulas (3) Howev

each year (9). Majority of the patients with obstetric fistula are young, very poor, illiterate or barely literate and already ostracized from their families (9). Hence, most of the fistula repairs are performed in the specialist VVF centers which essentially offer free services (3). However, these centers are few and are un-evenly distributed in the six geo-political zones of Nigeria.

To greatly assist in reducing the backlog of VVF cases and indeed bring succor to these unfortunate women, performing fistula repair in non-conventional settings through heath outreach programs has the advantage of providing repair services to the poor women in very remote areas who have little or no access to conventional obstetric services.

Though the total number of cases repaired in our series were relatively small, our results indicate that fistula repair in un-conventional settings holds great promise and definitely has a role to play in reducing the unmet need for fistula repair in low resource settings. In our series, all the fistulas were successfully repaired and the patients remained continent of urine after surgery. Successful fistula repair usually depends on the initial state of the fistula, the skill of the surgeon, and quality of postoperative care.

There is still a large unmet need for repair of obstetric fistulas in Africa. Health care systems in developing countries must strive to improve their ability to meet the need of treating obstetric fistulas, Governments and concerned voluntary organizations with interest in maternal health can greatly contribute to reducing this devastating complication of obstructed labour and help clear the alarming backlog of untreated fistulas by taking fistula repair to the door steps of the patients through outreach health programmes in non-conventional settings.

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