Social Features and Morbidity Patterns of Women with Obstetric Fistulae at an Obstetric Fistula Centre in a University Teaching Hospital in Jos, Nigeria

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ABSTRACT

Obstetric fistulae are largely preventable surgical conditions. Literature has shown that it is common among the low income, less privileged and marginalized members of the community. It affects mainly the poor, young, illiterate girls, and women in the remote rural areas of the world, where access to emergency obstetric care, family planning services and skilled birth attendants are unavailable. And when available are poorly utilized due to cost, distance, and other challenges. This study seeks to identify the social features and morbidity characteristics of obstetric fistulae in women at the fistula center in Bingham University Teaching Hospital, Jos, Plateau State, Nigeria. This was a descriptive study done in 2019 among all the patients who attended the obstetric fistula Centre at Bingham University Teaching Hospital. An Interviewer-administered structured questionnaire was used, and it looked at social and health aspects of obstetric fistulae in all 49 patients at the center. Data was analyzed using a computer software; Statistical Package for the Social Science (SPSS) version 20.0. Most of patients had some form of financial support especially from family members, husbands, parents, and friends. Most of the women had their relationships affected. Majority were separated, and relationships strained and had lost financial support from their spouses. Sexual Intercourse was adversely affected. On surgical outcome, 16% became completely dry and leaking had ceased, a third (36.7%) was still leaking urine after the surgery. Almost all the women have had no childbirth after the repair. Women had mental health issues like depression, anxiety, tension headache, fatigue, and suicidal ideation. Participants also had gynaecological morbidities like vulval dermatitis, irregular menstrual flow, abnormal vaginal discharge, and dysuria. These women also had lower abdominal pains, loss of weight, backache, and foot drop. Majority of the children did not survive after the pregnancy that led to the obstetric fistula. Women should seek financial support from family members to avoid delays in seeking help during pregnancy. Communities are encouraged to continue to give moral, emotional, financial, and social support to fistula patients. Healthcare workers should take advantage of the fact that most women attended ANC to educate and enlighten pregnant women on causes, risk factors, social and health consequences of obstetric fistulae. Government should initiate poverty alleviation activities and help reduce out of pocket expenses for healthcare via health insurance.

Keywords: Obstetric fistula, Social Features, Morbidity features, Women.

I. INTRODUCTION

World Health Organization (WHO) describes an Obstetric Fistula (OF) as an “abnormal opening between a woman’s vagina and bladder and/or rectum through which her urine and/or faces continually leak” [1], [2]. Prolonged obstructed labor is a leading cause of OF in low socio-economic regions like South Asia, and Sub-Saharan Africa. It is estimated that fistulae occur in one to three of every 1,000 deliveries [3], [4]. According to WHO, an estimated 50,000 to 100,000 women worldwide develop obstetric fistulae annually [5]. The United Nations Population Fund (UNFPA) also states that more than 2 million women in Asia and Sub-Saharan Africa are living with an untreated obstetric fistula and the resulting urinary and/or rectal incontinence. It is estimated that Nigeria accounts for about 40% of the worldwide fistulae prevalence [3], [6].

For women with unattended obstructed labor, the labor produces contractions that push the baby’s head against the mother’s pelvic bone. The soft tissues between the baby’s
head and the pelvic bone are compressed and do not receive adequate blood flow [7, 8]. The lack of blood flow causes this delicate tissue to die and where it dies holes are created between the laboring mother’s bladder/urethra and vagina and/or between the rectum and vagina. This is what produces incontinence in a fistula patient. Dripping urine wets clothing of the victims and also leads to excoriation of the already damaged vulva and vagina in addition to emitting a foul smell [9, 10].

Beyond the obvious physical and anatomic burdens of the urinary and fecal incontinence, the burden of disease encompasses many other physical, social, and psychological consequences. The victims could become social outcasts, get divorced and rejected by their families. Some of them travel long distances in search of treatment [11], [12]. There are underlying social causes of obstetric fistula which include poverty, illiteracy, early marriage and childbirth, inadequate family planning, low status of women in the community, harmful traditional practices such as female genital mutilation and other factors affecting women in the community [3], [13].

Obstetric fistula is largely a preventable condition, but literature has shown that it is common among the low income, less privileged and marginalized members of the community. It affects the poor, young, illiterate girls and women in the remote rural areas of the world, where access to emergency obstetric care, family planning services and skilled birth attendants are unavailable and where available poorly utilized due to cost, distance and other challenges [14]-[16].

To tackle this public health burden, equipped OF centres and good obstetric care facilities covering emergency obstetric and neonatal care, family planning, early catheterization, delivery service and husband partnership, rehabilitation and must be in place [3]. Besides ECWA-Evangel Vesico-Vaginal Fistula Center, Jos, Plateau state and Family Life Center Fistula Hospital, Mbribit Itam, Uyo, Akwa-Ibom state; there are currently more than 12 fistula centers spread across Nigeria (National Obstetric Fistula Centre, Abakaliki, National Obstetric Fistula Center, Babbar Ruga in Katsina state, National Obstetric Fistula Center, Ningi, in Bauchi State, Gesse Fistula Center in Birnin kebbi, Faridat Yakubu General Hospital Zamfara state, Laure Madaki Fistula Center Kano state, Maryam Abatcha Women and Children’s Hospital (MAWCH) in Sokoto State, Ogoja Fistula Center in Cross River State, Sobi Specialist Hospital in Kwara State, The University College Hospital at the University of Ibadan in Oyo State, Jahun VVF Center, and Adeoyo General Hospital at Ibadan, Oyo State) [17]. Most of these centers are in the northern region of Nigeria which holds a higher prevalence.

The social consequences include divorce by husbands, and abandonment and ostracism by affected women’s families and community. This is due to the uncontrollable leakage of urine and/or faeces and the accompanying smell. Fistula also leaves women with few opportunities to earn a living, worsening their poverty [18], [19].

Obstetric Fistula is a devastating and distressing chronic condition with dire consequences on the health of the woman. Obstetric fistula has both health and social penalties. Women who experience this preventable condition suffer constant urinary and/or faecal incontinence which leads to social isolation, skin infections, kidney disorders and even death if left untreated [20], [21].

Health complications due to obstetric fistula include the following: Vulva dermatitis: Chronic contact of skin (labia, perineum, and groin) with urine and stool leads to irritation and excoriation and sometimes ulceration of the skin. A study done in Kano found that vulva dermatitis occurred in 31% of the patients [22]. In a study in Benin City, 20% of fistula patients had Vulval dermatitis [23].

In foot drop, women with obstetric fistulae usually suffer from walking difficulties after the delivery, they have leg pain and loss of function in the ankle and knee joints thereby inhibiting movement. Foot drop and walking difficulties in some of these women signify an extensive injury and peroneal nerve damage. A study done in Kano showed that 23% of the fistula patients had foot drop [22]. In Kenyatta National Hospital Kenya, 31.4% of OF patients had foot drop [24].

Amenorrhea is also a sequela of obstetric fistula which makes it difficult for the women to get pregnant despite their young age. The significance of this will be better appreciated when one considers that bearing children is highly treasured in this society. These women often have low self-esteem and have concerns even after the surgical repair. A study in Kano showed that 17.5% of fistulae patients had amenorrhea [22]. In a study at Benin City, amenorrhea was found in 5% of fistulae patients [23] and 51% in Osun State [25].

Infertility is a real health challenge faced by women with obstetric fistulae. Women who have had fistulae find it difficult to conceive because of multifactorial causes which may be psychological, lack of sexual drive or due to stenosis of the vagina. A study conducted in Benin City showed that 5% of the women had infertility [23] and 21.4% in Kenyatta National Hospital, Kenya [24]. Dyspareunia was found to be 47.1% in a study conducted in Bingham University Teaching Hospital Jos [26].

Urinary tract infections occur in these women. Many of the OF patients live with OF for several years and are at risk of having recurrent Urinary Tract Infections (UTI). In general, fistula treatment requires prolonged period of hospitalization and urinary catheterization which may also be a contributory factor. Fistula patients are often malnourished, with low immunity and have low socioeconomic status. Low educational level has also been linked to the development of recurrent UTI [27]. These women often complain of burning sensation during urination and lower abdominal pain. Recurrent Urinary Tract Infections were found to be 9.2% in a study in Kano [22] and 10% in Benin City [23]. The overall prevalence of UTI amongst fistula patients in Ethiopia is 58.1% [27].

Mental health conditions like depression occurs frequently in women with obstetric fistula. Symptoms of depression were more prevalent among rural residents’ divorcees than currently married and among housewives than employed. Sexual intercourse is often affected, thus straining marital relationships and increasing rates of divorce [28]. Depression was found to be 33% in Kano [22]. Two studies conducted in Ethiopia show that 97.0% [28] and 92.3% [29] of OF patients had depressive symptoms, and 54.2% have had suicidal ideation.

Beyond the serious medical consequences, many girls and women are socially stigmatized and ridiculed, they become
so ashamed of their condition that they isolate themselves from their communities, lose social support, separate, or divorce their spouses and distance themselves from families. Some have malnutrition and worsening poverty leading to suffering. Often these women give birth to stillborn babies leaving them childless. Moreover, these women may be left with few, if any, opportunities to earn a living, and be forced to rely on others to survive. The costs of seeking treatment can also result in severe economic hardship [30].

Obstetric fistula impacts on marital status. It is a common event that fistula-affected women face divorce or separation as they fail to satisfy their husband’s sexual needs, fail to bear children, or even smell of urine. As the women become incapable of performing the family roles expected of them, they become neglected and abandoned [30]. Minority of women that are married might not have sexual intercourse with their husbands after fistula formation. Some partners who were happy prior to fistula development, eventually fail to share the bed and do not have sex. A few of the women who were single at the time of the fistula may have their partners refusing to marry them [31]. According to an Ethiopian study of 78 previously married women with fistula repairs, majority (59) of them were divorced while the remainder (19) were abandoned by their husbands [32]. In Zambia, a study on women with VVF receiving care at Monze Hospital reported that three-quarters of women with fistula were married, 15.1% divorced, 7.5% single, and 1.7% widowed. Among the 45 women who were no longer living with their husbands, 31 (67%) stated that this was due to their fistula. In Niger, fistula accounts for 63.3% of all divorces [34]. In Nigeria, a study of 31 fistula patients reported that the divorce rate, even after repair, was 55% and 87% of these women had a stillbirth [35]. In Guinea, women who developed VVF often suffered stigma, abandonment, loss of self-esteem, and varying degrees of social isolation. They were considered perpetually unclean as sometimes they were even excluded from food preparation, social events, and prayer ceremonies [36]. In Nigeria, where childbirth is central to women’s status, the loss of both a child and the role of motherhood are devastating. Women with VVF therefore face social isolation. Social isolation reinforces the woman’s belief that she is to blame and has brought shame on her family [35].

Stigmatization and isolation are common social features of OF. Majority of the women with fistula tend to isolate themselves from their communities. They remain in their homes as much as possible, stop making social visits, and no longer attend public events such as funerals, celebrations, and meetings. They feel a strong sense of shame about their condition and do not want to people to perceive the bad smell of urine or faeces when it occurs [31]. Studies done in Bangladesh, Guinea, Niger, Nigeria, and Uganda have revealed that significantly larger proportions of women were living with parents at admission than before the fistula developed. Overall, very few women said they lived alone before the fistula, although the proportion increased significantly by the time of admission and declined significantly by follow-up. Over one-quarter of women (26.7%) reported that they were divorced at admission. Rates ranged from 21.1% in Nigeria to 32.9% in Guinea. Nearly, all women (94.8%) said that fistula contributed to their divorce [30]. Greater proportions of women from Bangladesh and Guinea, who were the oldest women in this cohort, were widowed [31]. The psychological or mental disturbance suffered by women with OF may be due to loss of dignity, lack of support, lack of power to seek care, loss of hope, fear of future life, and feelings of dependency [30]. A study in Nakuru, Kenya showed that 97.2% of affected women felt humiliated and 95.4% showed despair which they termed as the most difficult situation to bear [37].

Economic instability is another consequence of OF. Many women with OF lose their sources of income (if they had any) as they cannot get involved in gainful employment or activities that need strict hygiene. Some lose business because of the incontinence and might be self-employed in petty trading where they earn too little income. In this way, fistula has challenged and contributed to poor status of women’s health in developing countries [38]. In a study done in Bangladesh, Guinea, Niger, Nigeria and Uganda a large majority of women (87.7%) said they could easily or somewhat easily meet their basic needs before fistula; this dropped to 78.5% at admission. Women who had lived with fistula for over a year were more likely to say that their condition interfered with their ability to work and earn money [30].

Women with OF are prone to a poor hygiene. They require strict adherence to hygienic practices like washing their clothes regularly and taking baths frequently [38]. Other coping mechanisms to manage odour and leaking of urine include changing clothes frequently, using perfumes and lotions, and wearing pads [39]. They tend to leak urine and are thus prone to infections of different types [30]. This maintenance of hygiene is costly. Generally, living with fistula interferes with women’s daily lives, including the ability to attend community gatherings (85.3%), having sexual relations (85.2%), attending religious gatherings (83.6%), earning money (80.0%), gaining work (72.1%), and eating with others (68.7%) [30].

Family members of women affected by OF most likely suffer from stress and worry as a consequence of the fistula. They could be worried that the woman would be unable to get married, finish school, or to fend for herself. They may feel badly about the treatment of the women by the community and may be powerless to help them. Families of women with fistula face added expenses in the daily management of the woman’s condition, such as costs for extra clothes and soap, and in efforts to seek treatment to repair the fistula. Treatment expenses incurred by families may include surgical repair and related expenses such as transport and lodging costs for the person accompanying the woman to the hospital, and food and other necessities while at the hospital, as well as payments to traditional healers [31]. In addition to these direct expenses of care and treatment, families can also be affected by the loss of the woman’s contribution to work in the home, on the farm, or in earning income from other employment [38].

Some in-depth studies serve to support the widely held belief that the true number of women living with untreated fistula and suffering the consequent pain and degradation may have been underestimated, suggesting that there may be between 100 000 and one million women living with fistula in Nigeria alone and over 70 000 in Bangladesh [40], [41].
Ethiopia it is estimated that 9 000 women annually develop a fistula, of which only 1 200 are treated [42]. Studies from Ethiopia, Nigeria and other parts of West Africa estimate the incidence of OF to be 1–10 per 1 000 births [40]. Unless they have access to a hospital that provides subsidized treatment and care, women may live with the fistula until they die, often at a very young age, from complications of their fistula [43]. such women often receive no support from their husbands or family members. At the Addis Ababa Fistula Hospital, 53% of the women had been abandoned by their husbands, and one woman in every five said that she had to beg for food to survive [43]. In India and Pakistan, some 70% to 90% of women with fistula had been abandoned or divorced, according to limited hospital studies [42]. It is not surprising, therefore, that some women can no longer cope with the pain and suffering, and resort to suicide [41].

Facility-based studies are limited to women who access the facility. Women who do not access facilities are excluded from these studies [44]. This study seeks to identify the social features and morbidity patterns of obstetric fistula in women at the obstetric fistula center in, Bingham University Teaching Hospital, Jos, Plateau State, Nigeria.

II. MATERIALS AND METHODS

The study was conducted in the Fistula Centre of Bingham University Teaching Hospital (BHUTH), Jos in 2019. It is located within BHUTH premises in Jos North local Government of Plateau State. It is a 20-bed center where patients stay for an average of 8–20 days in the ward receiving treatment. After discharge, patients have an option of staying in the VVF hostel or going home. The bed occupancy in the hostel ranges from 30–90 days varying with different times of the year. Patients that stay in the hostel are cared for by their relatives. A Matron oversees the management of the ward and the hostel.

The was a descriptive study that involved all obstetric fistula patients in the ward and those in the VVF hostel who gave consent to participate in the study. The Centre receives patients from every part of Nigeria and conducts about 450 fistula surgeries in a year. The Fistula Centre also offers physiotherapy, psychological counselling, health and nutrition classes, a post-surgery skill acquisition program, extensive community outreach and patient screening/identification. The VFV Centre runs a weekly out-patient clinic on Tuesdays for new clients and another clinic on Fridays to review patients on the ward. Surgeries are done twice in a week (Thursdays and Fridays). The Centre is funded by organizations mostly from the United States of America. The Centre is managed by a Project Director who is a Fistula Surgeon.

An Interviewer-administered structured questionnaire was used to collect relevant information from all women affected by OF at the Centre. Questionnaire looked at social and health aspects of obstetric fistula in all 49 patients at the center. Data was analyzed using a computer software; Statistical Package for the Social Science (SPSS) version 20.0. Descriptive statistics, proportions, tables, and diagrams were generated to illustrate findings. Data is based on recall information; therefore, it is open to bias. The anticipated language barrier was mitigated using interpreters and research assistants who were proficient in the local language. Ethical approval for the study was given by the Bingham University Teaching Hospital Ethical Committee. Patients gave informed consent for questionnaires to be administered.

III. RESULTS

A. Marital Status, Ethnic Group, Antenatal Attendance of Respondents

In Table I, most respondents were 28 (57.1%) married in a monogamous setting before fistula developed, 15 (30.6%) were married in a polygamous setting. On the other hand, 12.2% of patients were single. Most respondents 10 (20.0%) of the women with obstetric fistula were Hausa followed by Fulani (18%), Mumuye (8.2%), Eggon and Tangale (6.1%), Tiv, Tarok, Kanuri and Bajju (4.1% each).

Majority 39 (79. 6%) of the patients attended ANC during their last pregnancy whereas 10 (20.4%) did not. A higher proportion 19 (38.8%) of patients had 4-6 ante-natal care visits, 13 (26.5%) had 1-3 ante-natal care visits, while 6 (12.2%) had 7-9 visits. Most women 18 (36.7%) had their antenatal care in a General Hospital, 18 (36.7%) in PHC and 3 (6.1%) Private Clinics.

|TABLE I: MARITAL STATUS, ETHNIC GROUP, ANTENATAL FEATURES OF RESPONDENTS |
|---|
|Marital status before fistula developed | No of Fistula Patients | Percent |
|Married in Monogamous Setting | 28 | 57.1 |
|Married in a Polygamous Setting | 15 | 30.6 |
|Single | 6 | 12.2 |
|Ethnic Group | No of fistula patients | Percent |
|Hausa | 10 | 20.4 |
|Fulani | 8 | 16.3 |
|Mumuye | 4 | 8.2 |
|Eggon | 3 | 6.1 |
|Tangale | 3 | 6.1 |
|Bajju | 2 | 4.1 |
|Kanuri | 2 | 4.1 |
|Tarok | 2 | 4.1 |
|Tiv | 2 | 4.1 |
|Others* | 13 | 26.5 |
|ANC Attendance Status | No of fistula patients | Percent |
|Attended | 39 | 79.6 |
|Did Not Attend | 10 | 20.4 |
|Place Of ANC | No of Fistula Patients | Percent |
|Did Not Attend | 10 | 20.4 |
|General Hospital | 18 | 36.7 |
|PHC | 18 | 36.7 |
|Private Clinics | 3 | 6.1 |
|Number of ANC Visits | No of Fistula Patients | Percent |
|None | 10 | 20.4 |
|1-3 | 13 | 26.5 |
|4-6 | 19 | 38.8 |
|7-9 | 6 | 12.2 |
|>10 | 1 | 2.0 |
|Total | 49 | 100.0 |

*Other ethnic groups which includes: Afor, Balanga, Bashambe, Chobo, Duma, Jamawa, Jukun, Kilba, Kon, Otep, Waja, Yola, Zimm contributed 2% (1 fistula patient) each.
B. Financial Support and Source of Financial Support among Respondents

Table II shows that 34 (69.4%) of patients had some form of financial support while 15 (30.6%) had no form of financial support. Table II revealed that 21 (42.9%) of the respondents' received financial support from family members, 19 (38.8%) of the respondents received financial support from their Husbands, 18.4% of the respondents received financial support from their parents, while only 2% of the respondents received financial support from their friends. Majority were 45 (91.8%) out of pocket, only 4 (8.2%) were via health insurance.

C. Social and Sexual Features of Obstetric Fistula on Respondents

In Table III, most 28 (57.1%) of the women reported that their relationship with spouse was affected by Obstetric Fistula while 21 (42.9%) reported that their relationship was not affected. Of those impacted by obstetric fistula, 19 (67.9%) were separated, 8 (28.6%) had sexual intercourse not affected. Of those affected by obstetric fistula, 19 (42.9%) did not belong to any community organization while 15 (30.6%) did not get acceptance in their community.

Majority 33 (67.3%) of the women have had fistula repair while 16 (32.7%) of the women have had no fistula repair. Of those who have had previous repairs, 14 (28.6%) women have had fistula repaired once, 4 (8.2%) have had fistula repairs twice, 6 (12.2%) women have had repair done three times, while 3 (6.1%) women each had fistula repaired done 4 and 5 times, respectively.

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| TABLE II: Financial Support and Source of Financial Support among Respondents |
|-----------------------------|-----------------------------|
| Source of Financial Support | Percent                     |
| Financial Support           | No of Fistula Patients     |
| Yes                         | 34                          | 69.4                         |
| No                          | 15                          | 30.6                         |
| Total                       | 49                          | 100.0                        |
| Family                      | 21                          | 42.9                         |
| Husband                     | 19                          | 38.8                         |
| Parent                      | 9                           | 18.4                         |
| Charity                     | 5                           | 10.2                         |
| Friends                     | 1                           | 2.0                          |
| Total                       | 49                          | 100.0                        |
| Type of funding             |                             |                             |
| Out of pocket               | 45                          | 91.8                         |
| Health Insurance            | 4                           | 8.2                          |
| Total                       | 49                          | 100.0                        |

TABLE III: Social and Sexual Features of Obstetric Fistula on Respondents

| Impact of OF on relationship with partner | No of Fistula patients | Percentage |
|------------------------------------------|------------------------|------------|
| Relationship Affected                    | 28                     | 57.1       |
| Relationship Not Affected                | 21                     | 42.9       |
| Total                                    | 49                     | 100.0      |

TABLE IV: Community Organization, Community Acceptance, Past History and Number of Fistula Repair

| Membership of Community Organization   | No of Fistula patients | Percentage |
|----------------------------------------|------------------------|------------|
| Belonged to a community organization   | 28                     | 57.1       |
| Did not belong to a community organization | 21                | 42.9       |
| Total                                  | 49                     | 100.0      |

| Acceptance in the Community            | No of Fistula patients | Percentage |
|----------------------------------------|------------------------|------------|
| Accepted in the community              | 34                     | 69.4       |
| Rejected in the community              | 15                     | 30.6       |
| Total                                  | 49                     | 100.0      |

| Fistula Repair in the past              | No of Fistula patients | Percentage |
|----------------------------------------|------------------------|------------|
| Had a Fistula repair in the past       | 33                     | 67.3       |
| Had no Fistula repair                  | 16                     | 32.7       |
| Total                                  | 49                     | 100.0      |

| Number of Fistula repair                | No of Fistula patients | Percentage |
|----------------------------------------|------------------------|------------|
| 0                                      | 16                     | 32.7       |
| 1                                      | 14                     | 28.6       |
| 2                                      | 4                      | 8.2        |
| 3                                      | 6                      | 12.2       |
| 4                                      | 3                      | 6.1        |
| 5                                      | 3                      | 6.1        |
| 6                                      | 1                      | 2.0        |
| 7                                      | 1                      | 2.0        |
| 8                                      | 1                      | 2.0        |
| Total                                  | 49                     | 100.0      |
E. Surgical Concerns, Outcomes, Childbirth and Number of Childbirth Post-surgery, Reasons not Being Able to Get Pregnant after Repair

A higher proportion 40 (81.6%) of the women had no concern before the surgery while 9 (18.4%) had concerns before the repair. Their concerns included 7 (14.3%) fear that the Fistula was irreparable, 4 (8.2%) concern about difficulty in conceiving after the surgery, 3 (6.1%) feared death during surgery, while 2 (4.1%) of the respondents felt they would not be able to get married again.

On surgical outcome, 8 (16.3%) were completed dry and leaking had ceased, 18 (36.7%) of the women were still leaking urine after the surgery. Eight (16.3%) just had surgery while 15 (30.6%) were waiting to have their surgeries done.

Almost all 48 (98%) of the women have had no childbirth after the repair, while 1 (2%) have had childbirth after the surgical repair. Reasons for inability to get pregnant include 21 (42.9%) still on admission, 11 (22.4%) unknown reason, 7 (14.3%) are divorced, 6 (12.2%) separated from husband, 2 (4.1%) are still breastfeeding, 1 (2.0%) have completed family cycle.

F. Morbidity Features of Obstetric Fistula among Respondents

Concerning morbidity features of obstetric fistula among respondents, they had mental health issues like the prevalence of depressive mood was 37 (75.5%) among the respondents, anxiety 27 (55.1%), Headache 19 (38.8%), fatigue 17 (34.7%). Participants also had gynaecological morbidities like vulval dermatitis 13 (26.5%), irregular menstrual flow 13 (26.5%), abnormal vaginal discharge 12 (24.5%), dysuria 11 (22.4%) and suicidal ideation 10.2%. The women also had lower abdominal pain 30 (61.2%), loss of weight 24 (49.0%), backache 22 (44.9%) and foot drop 20 (40.8%).

Majority, 35 (71.4%) indicated that the child did not survive after the pregnancy that led to the obstetric fistula while 14 (28.6%) respondents revealed that the child survived after delivery.

TABLE VI: MORBIDITY FEATURES OF OBSTETRIC FISTULA AMONG RESPONDENTS

| Health Consequences                        | No of Fistula Patients | Percent (%) |
|--------------------------------------------|------------------------|-------------|
| Depressive mood                            | 37                     | 75.5        |
| Lower Abdominal Pain                       | 30                     | 61.2        |
| Anxiety                                    | 27                     | 55.1        |
| Loss of Weight                             | 24                     | 49.0        |
| Backache                                   | 12                     | 44.9        |
| Foot Drop                                  | 20                     | 40.8        |
| Dysuria                                    | 19                     | 38.8        |
| Fatigue                                    | 6                      | 12.2        |
| Vulva dermatitis                           | 13                     | 26.5        |
| Irregular Menstrual Flow                   | 13                     | 26.5        |
| Abnormal Vaginal                           | 12                     | 24.5        |
| Discharge                                  | 11                     | 24.4        |
| Dizziness                                  | 13                     | 24.4        |
| Suicidal Ideation                          | 5                      | 10.2        |
| Child Survival of pregnancy leading to OF  | 8                      | 16.3        |
| *Multiple response                         | 49                     | 100.0       |

IV. DISCUSSION

Studies done in Kano [45], Jos [46] and Port Harcourt [47] have shown the relevance of marriage and ethnicity in the occurrence of Obstetric fistula. In this study, half of the respondents were married in a monogamous setting before fistula developed, a third married in a polygamous setting and just a few of the patients were single. In terms of origin, most respondents (20.0%) were Hausa and Fulani (18%) others were Mumuye, Eggon and Tangale, Tiv, Tarok, Kanuri and Bajju. These ethnic groups are domiciled in Northern Nigeria where early marriage and prolonged labour are still prevalent. The is need for a collective reorientation of communities in across the country to reduce the burden of obstetric fistula especially among northern states.

It is a good sign that majority of the patients attended ANC during their last pregnancy while just a few did not. And of these a higher proportion of patients had 4 to 6 ante-natal care visits, and these visits were in health facilities with skilled birth attendants. Now the question is why did these same patients end up with obstetric fistula? This is attributable to the fact that despite attending antenatal classes, patients still prefer to deliver at home and rush to hospital only when the labour is prolonged. The fact that these women attended antenatal classes is a huge opportunity for the public health system to educate women on the danger signs of pregnancy and consequences of delays in accessing skilled care and emergency obstetric care. In contrast, studies done in
Northwest Nigeria had only 42% attending ANC. Thus, this is an improvement in ANC attendance is commendable.

The importance of health care funding in access to quality health care is currently in the forefront in public health conversations, in this study, 69.4% of patients had some form of financial support while a third 30.6% had no form of financial support. This financial support was 92% out of pocket, as only a few had health insurance. This is similar to finding in the National Demographic and Health Survey [48] where only 3% had health insurance. There is need to increase this number to achieve Universal Health Coverage. This study also reveals that family members are useful contributor’s and supporters to the health challenges of family members as about half of the respondents’ received financial support from family members, similarly, husbands have been useful supporter of their spouses and partners as revealed in this study where more than a third of the respondents received financial support from their husbands, parents and friends were also helpful in fund raising. This fully exposes the relevance of family, husband, and friends in the health challenges of women. Thus, targeted activities can be done to support this essential base of women in need.

Generally, the social life and aspirations of women with obstetric fistula is affected by the condition itself. A lot of things change some of which lead to devastating consequences in the social health of affected individuals. Most women reported that their relationship with their spouse was affected by Obstetric Fistula. Obstetric fistula directly led to separation from their husband, strained relationship with their spouse, and loss of financial support afterwards. These social losses impact hugely on the lives of these women as their spouses flee from them due to apparent smell, infection, and lack of attraction due to the leakage of urine and the smells that occur. The gravity of the situation is reflected by the fact that obstetric fistula affected sexual intercourse in more than half of the women even though more than two third of the women owned a room to themselves. This situation is a huge challenge on the sexual and reproductive health of these women. It tends to lead to depression, anxiety, and suicidal ideation. It affects the social and societal confidence these women have. Looking at the employment and income status of these women, three quarters of these women did not work or did not do any businesses while only quarter worked or engaged in a business. This gives an overall idea of the social status of women suffering from this disease. It is found mainly among the poor, unemployed and less educated. This is reiterated in studies done in Benin [49], Jos [46], and in a multicenter study done in Kano, Katsina, Sokoto and Kaduna (Laure fistula center, Bubbara ruga fistula center, Maryam Abacha Women & children hospital, and Gambo Sawaba General Hospital) [50]. It is interesting to note the strong support from family members for patients in this situation, as only a few patients had the obstetric fistula condition affect their relationship as 82% were not affected. But those affected, 22% were separated, 44% lost financing, 33% were avoided.

The relevance of the community in the social health of respondent was highlighted as a higher proportion of the women were members of a community organization despite their situation. And this membership is an outward demonstration of social and communal integration of these women in their communities. Despite their socially disadvantageous situation, more than two thirds of the women remain accepted in their community while a third was not accepted. This trend is encouraging but, efforts should be made to cater for those who have lost their community integration. The reoccurrence of the condition is reflected in repeated surgical repairs, majority (67.3%) of the women have had fistula repair, of those who have had previous repairs, a few have had fistula repaired once, twice, ad repair done three times, 4 and 5 times, respectively. This is similar to findings done in Benin [49], as they reviewed the psychosocial problems of patients with vesico-vaginal fistula.

The preparation for surgery is commonly filled with anxiety and concerns among patients. The women expressed a great deal of confidence in the surgical system as almost all the women had no concern before the surgery. But about 20% had concerns before the surgical repair. Their concerns included that the Fistula was irreparable, concern about difficulty in conceiving after the surgery, death during surgery, and getting married after the surgery.

A thrilling part surgical intervention is the outcome, in this regard, 16% were completed dry and leaking had ceased post operatively, but sadly, 37% of the women were still leaking urine after the surgery. This in contrast to finding done in western Uganda where 77.9% had successful closure of their fistula. This difference could be due to patient factors like size of fistula, comorbidities; surgeons’ factors like skill, surgical technique, facilities, postoperative management and other variables which are difficult to compare [47]. Overall success rates of vesicovaginal fistula repair were 75% 91.5%, 92%, and 87.9% in Port Harcourt [47], Ile-Ife [51], Jos [46] and Ilorin [52], respectively. A typical sign of wellness is restoration of ability to achieve pregnancy after treatment of obstetric fistula, almost all the women have had no childbirth after the surgical repair of obstetric fistula. Women stated that reasons for inability to get pregnant to include still being on admission, unknown reason, divorced, separated from husband, still breastfeeding, and have completed family cycle. Similarly, women who have had fistula find it difficult to conceive because of multifactorial causes like which could be psychological, lack of sexual drive or due to stenosis of the vagina.

Numerous researchers will worry about the health aftermath of obstetric fistula patient and try to delineate the morbidity pattern among this special group of people. It is keenly observed that most patients had mental health issues typified by the high prevalence of depressive mood, anxiety, headache, and fatigue. Due to the anatomical location of obstetric fistula, women had lower abdominal pain, weight loss, backache, and foot drop. It is significant to note that majority of the children did not survive after the pregnancy that led to the obstetric fistula. This is due to leakage of urine and the infective process that affects the area. Participants also had gynaecological morbidities like vulval dermatitis (27%), irregular menstrual flow, abnormal vaginal discharge (25%), dysuria (22%) and suicidal ideation (10%). This was also reported in studies done in Kano [45], Benin [23]. This presents another health burden to the women in this category. The battle against OF must be done alongside management of the other health challenges. These morbidities affect the sexual and reproductive life of the women.

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VI. CONCLUSION

Most respondents were married in a monogamous setting before fistula developed. Most respondents with obstetric fistula were Hausa followed by Fulani. Majority of the patients attended ANC during their last pregnancy and a higher proportion of patients had 4-6 ante-natal care visits and most women had their antenatal care in health facility. Most of patients had some form of financial support especially from family members, husbands, parents, and friends.

Most of the women had their relationship affected, majority were separated, and relationship strained, loss of financial support from their spouse. Sexual Intercourse was also affected. A higher proportion of the women did not work or did not do any businesses and had been separated from family, lost finance, and avoided. Majority of the women were members of community organizations and remain accepted in their community. Most of the women have had fistula repair in the past.

A higher proportion of the women had no concern before the surgery. Their concerns included fear that the Fistula was irreparable, concern about difficulty in conceiving after the surgery, some feared death during surgery and others felt they will be unable to get married again. On surgical outcome, 16% became completely dry and leaking had ceased, a third was still leaking urine after the surgery. Almost all the women had no childbirth after the repair. Women had mental health issues like depression, anxiety, headache, and fatigue. Participants also had gynaecological morbidities like vulval dermatitis, irregular menstrual flow, abnormal vaginal discharge, dysuria, and suicidal ideation. The women also had lower abdominal pain, loss of weight, backache, and foot drop. Majority of the children did not survive after the pregnancy that led to the obstetric fistula.

VI. RECOMMENDATION

A. To the Women, Husbands, Family, and Community Members of Patients with Obstetric Fistula

Women should leverage on financial support from family member to avoid delays in seeking help during pregnancy. Families are encouraged to continue to give physical, mental, and social support to women with obstetric fistula. Husbands are requested to show empathy to their spouses who suffer from obstetric fistula. They should cater for the needs of the women. Communities are encouraged to continue to give moral, emotional, financial, and social support to fistula patients. They should discourage neglect, separation of obstetric fistula patients.

B. To the Healthcare Facilities and Workers

Healthcare workers should in addition to other services, also focus on management of gynaecological morbidities, mental health issues and other complications associated with obstetric fistula.

C. To the Government

Government can initiate poverty alleviation activities and help reduce out of pocket expenses for healthcare via health insurance. The creation of jobs for women will help empower women to seek healthcare just in case the spouse and family members are unable to support.
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