Healthcare professionals’ knowledge, attitudes, and experiences of FGM in sub-Saharan Africa: a systematic scoping review

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Healthcare professionals' knowledge, attitudes, and experiences of FGM in sub-Saharan Africa: a systematic scoping review

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Abstract:

**Background:** Female Genital Mutilation (FGM) remains a challenge as evidence indicates that healthcare professionals (HCPs) who are required to play a role in the elimination of FGM, support the practice. The reasons some HCPs in Sub Saharan Africa still perpetuate FGM is unclear. Thus, this review aims to provide an overview of the existing evidence surrounding HCPs knowledge, attitudes, and experiences of FGM in order to determine the factors that may influence support for the continuation of FGM.

**Methods:** A search was conducted utilising six databases (CINHAL, PubMed, Embase, MEDLINE, PsycINFO and ASSIA) and using key terms such as female genital mutilation, FGM, knowledge, attitudes, experiences, practices, and healthcare professionals. At the end of the search, 12 studies were identified. The 12 studies were situated in sub-Saharan African countries (SSA) and they examined HCPs knowledge, attitudes, and experiences of FGM.

**Findings:** This review revealed three overarching themes: (1) Knowledge of FGM (2) attitudes towards the practice of FGM and (3) experiences of FGM. The review revealed that HCPs have limited knowledge of FGM and its health implications. Furthermore, some HCPs openly disapprove the practice of FGM, but may undermine abandonment messages and perform FGM in secret due to cultural affiliations and financial rewards. This is indicative of HCPs moving towards medicalising FGM by upholding cultural beliefs and practices rather than adhering to professional policies, codes of conducts and the legal position. This review identifies determinants for the preservation of FGM among some HCPs in SSA countries to include pervading cultural beliefs, poor design of professional trainings in the field of FGM and limited knowledge by HCPs.
Highlights:

- This review indicates that FGM practices are still being performed in some areas of the SSA region by HCPs.
- FGM practices are strongly linked to cultural and belief systems which are difficult to navigate by HCPs.
- This review is the first to be conducted which considers HCPs and the practice of FGM across the SSA region.
- There is a strong need for clear guidance by professional bodies to eradicate the FGM practice and its medicalisation.

Background

Female genital mutilation (FGM) is a global challenge with an estimated over two hundred million girls and women worldwide having undergone the procedure (United Nations Children's Fund (UNICEF), 2016) and another three million girls are at risk of being cut yearly (UNICEF, 2016). Statistical forecasts indicate that if more work is not directed towards eradicating the practice of FGM, the prevalence may increase to sixty-eight million by the year 2030 with a projection of nearly five million girls undergoing the procedure yearly (United Nations Population Funds (UNFPA), 2018).

The practice of FGM is concentrated in Africa, Asia, and the Middle East and it is characterised by the partial or total excision of the female external genitalia for non-therapeutic reasons (World Health Organization (WHO), 2020). FGM is associated with entrenched cultural practices in most communities in Sub-Saharan African (SSA) countries, that includes the ritual passage of young girls into adulthood, as part of a marriage ceremony, to control female sexual urges, to maintain virginity, promote cleanliness of the outer female genitalia and to prevent promiscuity during marriage (Ahmed, Kareem, Shabila, & Mzori, 2018; WHO, 2016).

FGM is mostly performed by traditional circumcisers or traditional birth attendants (TBAs) whose role also includes attending to pregnant women and their delivery in a community setting (WHO, 2010). The FGM procedure is often carried out without anaesthetics on infants, young girls and women using razor blades, knives, scissors, and pieces of broken bottles (WHO, 2001). FGM is detrimental and could lead to severe health consequences such as extreme pain, severe bleeding, infections, gynaecological, urogynaecological and psychological problems and even death (WHO, 2018).

Over the years, different strategies have been developed and carried out in many parts of Africa to eliminate the practice of FGM (Johansen, Diop, Laverack, & Leye, 2013; WHO, 2010; WHO, 2020). The strategies include providing information about the health detriments of FGM and training health care professionals (HCPs) to become change agents whilst building their capabilities in educating, counselling and providing direct care for women and girls affected by FGM (Johansen et al., 2013; WHO, 2010). The perceived outcome of these approaches is that practicing communities will reflect on the health dangers caused by FGM and subsequently abandon the practice (Berg & Denison, 2012; Johansen et al., 2013; Njue & Askew, 2004). However, discourses around the outcome of these strategies indicate that some communities began practicing type 1 or 2 of FGM, as seen in Somali and Sudan and increased requests for HCPs to perform FGM in order to reduce health risks.
associated with FGM (Berg & Denison, 2012; Johansen et al., 2013; Njue & Askew, 2004). Consequently, some HCPs capitalised on this demand and began to medicalise FGM with the erroneous belief that the risk for infections and long-term health complications will be reduced when FGM is performed by HCPs (WHO, 2010).

The medicalisation of FGM is condemned globally by all stakeholders including national agencies and the World Medical Association as it violates the right of the woman and the basic ethical principle of ‘do no harm’ (WHO, 2010). Notwithstanding, the rate of medicalisation is alarming as a recent analysis of data from 25 countries in Africa and the Middle East revealed that 26% of girls and women with FGM were cut by HCPs which represents nearly 16 million women (Shell-Duncan, Moore, & Njue, 2017). Despite the implementation of strategies to end FGM and training of HCPs to be change agents, some HCPs still support FGM and perform the procedure, while most HCPs continue to have poor knowledge of FGM and the health dangers associated with the practice (Kaplan, Hechavarría, Bernal, & Bonhoure, 2013; Kaplan Marcusan et al., 2016; Refaat, 2009).

Furthermore, medicalising FGM within settings that have insufficient medical resources and poor health care systems, could contribute to the preservation of the practice and lead to the acceptance and establishment of FGM as a routine procedure within healthcare facilities (Obianwu, Adetunji, & Dirisi, 2018). Therefore, it is important to ascertain if the support for the medicalisation of FGM is due to poor knowledge of FGM among HCPs or the lack of technical capabilities to deal with FGM related issues. Hence there is need for an in-depth review of existing literature on healthcare professionals’ knowledge, attitudes, and experiences of FGM to determine the factors that may continue to influence the practice of performing FGM in SSA countries.

Importantly, this review may present new findings that will showcase an aspect of literature that has not been explored by existing reviews. There are several published reviews on different aspects of FGM which examined HCPs and gathered evidence from studies conducted in high income countries and low-income countries such as Abdulcadir, Say, and Pallitto (2017); Balfour, Abdulcadir, Say, and Hindin (2016); Doucet, Pallitto, and Groleau (2017); Reig-Alcaraz, Siles-Gonzalez, and Solano-Ruiz (2016); Zurynski, Sureshkumar, Phu, and Elliott (2015) or across high-income countries only (Evans et al., 2019). However, this review will focus on gathering evidence from studies that were conducted in SSA countries and examined different groups of HCPs, such as nurses, medics, and midwives. This is because HCPs from these settings belong to communities where FGM is practiced and as insiders, they have unique experiences and challenges that will provide rich and in depth understanding of the practice of FGM.

Methods

A scoping review was conducted to systematically search and evaluate available data with the aim of identifying all relevant literature irrespective of the study design (Arksey & O’Malley, 2005). This scoping review followed the methodological framework which is made up of five steps that provides a guide for an explicit, logical, and systematic presentation of findings (Arksey & O’Malley, 2005).
**Step 1: Identifying the review question**

The formulated question guiding this review is - what is known from existing literature regarding HCPs knowledge, attitudes, and experiences of FGM in SSA countries?

**Step 2: Identifying relevant studies**

An initial search was carried out on Google Scholar and CINHAL using key concepts such as “female genital mutilation” “FGM” “knowledge” “attitudes” “experiences” “practices” “healthcare professionals” “nurses” “doctors” and “midwives”. This was followed by the reviewing of titles, abstracts, and citations to have an overview of the extent and depth of existing literature.

Then an extensive search was conducted using all the key concepts identified in the review question. The key concepts and their synonyms were entered individually into all included databases (CINHAL, PubMed, Embase, MEDLINE, PsycINFO and ASSIA) and then linked together by Boolean operators “OR” and then with “AND”. In addition, a hand and snowball search were conducted on reference list and grey papers in relevant organisation (WHO, UNICEF, UNFPA).

**Inclusion criteria:** The review included studies conducted in SSA countries that explored HCPs knowledge, attitudes, and experiences of FGM. SSA countries in this context represents countries that lie south of the Sahara. The review is limited to SSA countries because the practice of FGM is most prevalent in these countries and there is no evidence suggesting that a review has been published using only studies conducted among HCPs in SSA countries. This review included empirical studies with qualitative or quantitative designs, published in English within any time frame.

**Exclusion criteria:** Studies that did not meet the inclusion criteria were excluded.

**Stage 3: Study selection**

At the end of the search a total of 84 sources were exported to EndNote version X9 reference management software and duplicates were removed leaving a total of 55 sources. After titles and abstracts was reviewed a further 43 sources were excluded and a total of 12 studies were included in the review. (see figure 1)

**Step 4: Charting the data**

Data was synthesised from the 12 included studies and charted using the following format- country, author/year of publication, aim of study, methodology, domains examined and summary of findings. (see table 1)
Step 5: Findings, discussion and conclusion

Presentation of Findings

The search identified 12 studies to be included in this review. They were geographically split into four countries in SSA - Nigeria (n=7), Gambia (n=2), Sudan (n=2) and Somaliland (n=1). The studies examined a total of 3,213 HCPs including doctors (170), nurses (632), midwives (25), nurse/midwives (666), student nurse midwives (269), auxiliary nurses (6), traditional birth attendants (TBAs, but referred to as midwives) (157) with one study (Kaplan Marcusan et al., 2016) where the professional group of 1288 participants was not clearly defined.

The 12 studies were conducted in different settings within the four countries - six studies were carried out in a tertiary, secondary and primary health facilities, two were conducted in urban areas, three in rural areas and one in an urban and rural area. Nine of the studies used quantitative approach and a questionnaire as the instrument of data collection and three used qualitative method and collected data using face to face interviews and participants’ observation (see Table 1).

The included studies examined different domains relating to this review. Ten studies examined HCPs knowledge of FGM, this involved exploring their understanding of the classification of FGM, reasons for practicing FGM and health implications of FGM. The attitudes of HCPs towards FGM was explored by nine studies and this was to determine their opinions towards FGM while HCPs experiences of providing care for women and girls with FGM was examined by eight studies (see Table 1).

The findings of this review will be presented based on the themes that were identified from the 12 studies. The review themes are: (1) Knowledge of FGM (2) Attitudes towards the practice of FGM and (3) Clinical care for FGM patients

Knowledge of FGM

Ten of the studies included in this review explored HCPs knowledge of the types of FGM, reasons people practice FGM and health consequences. Seven of the studies were conducted in Nigeria, two in Gambia and one in Sudan. Only four of the studies from Nigeria and one from Sudan examined HCPs knowledge of the types of FGM. In a survey of 182 nurses in Nigeria, findings show that only a few (6.6%) of the nurses could correctly identify the four types of FGM and less than half (38%) were able to identify types 1 and 2, the commonly referred to procedure for FGM (Onuh et al., 2006). Similar studies in Nigeria reported that only 34% of 100 nurses examined had knowledge about the types of FGM (Umar & Oche, 2014), while Ashimi et al. (2014) reported that 41% of the 350 nurses surveyed did not know any type of FGM. The findings from studies conducted in Nigeria were similar to those reported in a Sudanese study of 157 (TBAs) midwives, where only 7% of the respondents could correctly identify all types of FGM (Ali, 2012).

There is a similarity across all these studies that indicates that knowledge of the different types of FGM amongst nurses and midwives is limited despite the different types of FGM that they might encounter. The synthesising of these findings indicates a potential gap in HCPs capabilities in not only correctly detecting the type of FGM performed but likewise providing the most appropriate care for women who are seeking medical attention. Within
the context of midwifery provision, especially during the onset of labour this lack of knowledge for identifying the types of FGM they witness could lead HCPs inability to recognise women at risk of FGM complications such as prolong labour, multiple lacerations and even neonatal deaths from asphyxiation (Banks et al., 2006).

Exploring HCPs knowledge of the reasons FGM is practiced, Kaplan Marcusan et al. (2016) surveyed 1288 HCPs in Gambia and found that 96.5% of the respondents mentioned that FGM is practiced for cultural reasons and 41.3% stated FGM is performed to initiate young girls into womanhood. While in Nigeria, a study of 350 nurses showed that 53% of the nurses mentioned that FGM is practiced to prevent promiscuity and 28% stated that it preserves virginity while only 3% of the nurses believe that people practice FGM because of lack of ignorance (Ashimi et al., 2014). This latter study reported findings are similar to those reported by Dike et al. (2012) where over half of their participants reported that FGM prevents promiscuity and 17.4% indicated that it makes the external genitalia look neat. Another study in Nigeria also reported that 9.9% of the 182 nurses surveyed believed that FGM makes the female genitalia more attractive (Onuh et al., 2006).

There were other factors for the practice of FGM, including a Gambian study of 468 nurse midwives that showed that 58.8% of the participants stating that FGM is practiced for religious reasons (Kaplan et al., 2013). These findings demonstrate that some HCPs appear to have the understanding that FGM is a practice that is embedded in cultural beliefs but most still believe in the myths and religious beliefs associated with the practice. It appears that some HCPs still have limited knowledge about the reasons why people practice FGM because most perceive FGM as a religious requirement, though there is no mention of FGM in any religious references (WHO, 2008).

Knowledge about health consequences of FGM vary among the HCPs examined in the 12 included studies. Four studies carried out in Nigeria (Adekanle et al., 2011; Ashimi et al., 2014; Dike et al., 2012; Ibrahim et al., 2013) reported that participants demonstrated a good knowledge of the health problems associated with FGM, and almost all participants in these studies could identify risk for HIV, tetanus, haemorrhage, painful coitus, perineal laceration, formation of scar tissue and clitoral cyst as complications of FGM. Similarly, studies conducted in Gambia reported that HCPs cited reduced sexual libido, transmission of infectious diseases and difficult labour and delivery as harmful effects of FGM, although a very small percentage of participants believe that FGM has no health consequences (Kaplan et al., 2013; Kaplan Marcusan et al., 2016). Conversely, a study of midwives (TBAs) in Sudan show that 76.4% of the respondents claim that some types of FGM are harmless while only a few (4.5%) declared no type of FGM is harmful (Ali, 2012). In addition, a recent community based qualitative study (Obianwu et al., 2018), was conducted with the aim to inform the design and implementation of FGM abandonment interventions by understanding the factors of medicalised FGM within Nigeria. This study incorporated interviews with only six auxiliary nurses who are not registered nurses but are often involved in the care of patients who are seeking FGM. Whilst they are not HCPs in the context that this review is considering, the study findings do highlight that these participants lacked knowledge about the types of FGM and the wider health implications (Obianwu et al., 2018). In general, though most HCPs were able to correctly mention some of the consequences of FGM, there were still reports of poor knowledge of the health implications of FGM among the HCPs examined in the included study.
Attitudes towards the practice of FGM

The attitude of HCPs towards FGM was examined by nine studies, six of the studies were conducted in Nigeria two in Gambia and one from Sudan. Findings from studies conducted in Nigeria show that HCPs have different views regarding the practice of FGM and there is a small percentage of HCPs that support the continuation of the practice. All the student nurse midwives (n=269) in a Nigerian study, using a survey, stated that they would not subject their daughters to FGM (Dike et al., 2012). Another survey of 182 nurses in Nigeria revealed that 85.7% of the nurses reported FGM is bad however 2.8% think the practice is good and 4.4% would subject their daughters to FGM while 57.7% of the nurses claim that they will perform FGM in future if requested (Onuh et al., 2006) and 5.1% of 118 of HCPs will encourage the practice (Ibrahim et al., 2013). Similarly, Ashimi et al. (2014) reported that only 8% of the 350 nurses surveyed declared that FGM is beneficial while 17% do not know if FGM has benefits or not and 4% of the nurses reported that they will consent for their daughters to be cut and the same 4% claim they support the practice of FGM and are willing to perform FGM procedures. Despite the declaration that FGM is a violent act against women a large percentage (14%) were reported as still supporting the continuation of FGM in Nigeria (Umar & Oche, 2014). Likewise, a study (Obianwu et al., 2018) with some auxiliary nurses found that nurses indicated that they think FGM is a minor procedure which has significant benefits, this is despite that in Nigeria the practice is illegal.

Most HCPs in the studies conducted in Gambia reported similar views with those in the empirical studies conducted in Nigeria. For example, a study of 468 nurses and midwives (Kaplan et al., 2013) in Gambia reported that 42.5% of the participants still support the practice of FGM, with nearly half stating their intention to allow FGM on their own daughters. The same study conducted also reported that nearly half (42.9%) think allowing medicalisation of FGM enables control of the practice and makes it safer in the long term (Kaplan et al., 2013). Within the Gambian studies (Kaplan et al., 2013; Kaplan Marcusan et al., 2016), there was also evidence of discriminatory attitudes amongst a number of HCPs indicating that females who do not have FGM procedures should be discriminated against, although they did not state in what way. This underlying belief, granted from the two studies in the Gambia, is worrying since these are current practicing HCPs who can influence the next generation of the workforce. Further study (Kaplan Marcusan et al., 2016) however does reveal that overall, the percentage of HCPs who support FGM appears to be reducing in the Gambia. The study examined 1,288 HCPs using surveys and findings show that 76.4% of the HCPs believe the practice of FGM should discontinue, with 77.9% declaring FGM to be a violation of the human rights of girls and women which appears to be a step change from previous work conducted in the country by Kaplan et al. (2013). The negative attitude of the surveyed HCPs in this recent study by Kaplan Marcusan et al. (2016) may be due to the criminalization of FGM in Gambia by the Women’s (Amendment) Act 2015, which introduced Sections 32A and 32B into the Women’s Act of 2010 (Kaplan Marcusan et al., 2016). Despite the existence of FGM law in Gambia, in the recent study (Kaplan Marcusan et al., 2016) respondents still described FGM as a good practice, with 25.4% still supporting the continuation of FGM practices. These overall findings show that some HCPs still have attitudes that positively promote and could encourage FGM practices, irrespective of the legal position within the respected
country and national and international awareness campaigns and the acceptance as a violation of the rights of women and girls.

**Clinical care for FGM patients**

A qualitative study by Isman et al. (2013) with eight midwives at a maternity clinic in Somaliland, explored participants experiences in providing care and counselling to women suffering from the effects of FGM. The study reported that the midwives stated that they had received training in order to provide direct care and counselling for girls and women who had undergone FGM (Isman et al., 2013). Despite the positive messages from these midwives it was evident that there was still ongoing education and skills development required. The study also reported that there was a strong inclination towards superstitious, cultural, and religious beliefs as to some of the challenges that the midwives faced during their clinical encounters with women and their families (Isman et al., 2013).

The same study by Isman et al. (2013) also worrying reported that the midwives, despite their professional training and claim to be against the practice of FGM, declared that they do perform FGM. The reasons cited for this ranged from difficulty in having to abruptly stop FGM, to experiencing pressure from young female family members who would like to be infibulated like their peers (Isman et al., 2013).

In Sudan, an ethnographic study of 17 midwives reported that most of the midwives had themselves undergone infibulation and some had been re-infibulated. They also reported that 11 of the 17 midwives in the study had subjected their own daughters to type 1 or 3 of FGM (Berggren et al., 2004). Like other types of FGM, re-infibulation after childbirth is not permitted in Sudan but remains a common practice among the Sudanese population (Berggren et al., 2004). Midwives sometimes perform re-infibulation with or without the consent from the women or their husbands because it is believed that they are doing the women a favour by helping them preserve the beauty of their genitals and maintain their marriages (Berggren et al., 2004).

The midwives in the study by Berggren et al. (2004) are similar to other studies included in this review (for example Ali (2012); Isman et al. (2013); Obianwu et al. (2018) whereby the HCPs are performing FGM, for financial gain and to satisfy the demands from communities and families. Furthermore, the Berggren et al. (2004) study showed that the midwives were actually performing these illegal practices within their own private clinics. The findings from the ethnographic study by Berggren et al. (2004) was supported by a more recent study in Sudan with a larger sample size of 157 midwives by Ali (2012). The work by Ali (2012) reported that 80.9% of those surveyed claimed to have performed FGM with more than half (66.2%) stating that they will continue to perform FGM for cultural and religious reasons and financial gain, this despite of the legal position of FGM within Sudan.

In the Kaplan et al. (2013) study conducted in Gambia which examined the knowledge, attitudes, and practices of FGM they report that 68.6% of the participants belong to families that routinely practice FGM. Despite this high percentage of potential family pressures to continue the practice only a small number (7.6%) declared that they had performed FGM procedures during their practice as nurses and midwives (Kaplan et al., 2013). This percentage is higher in the recent study by Kaplan Marcusan et al. (2016), where 71.5% of HCPs belong to
families that practice FGM with 10.5% declaring they have performed FGM as part of their role as health care providers.

The same study by Kaplan et al. (2013), the nurses and midwives surveyed had attended to women and girls with health problems arising from FGM leading them to believe that supporting the medicalisation of FGM was the next step and that there was clear role for them to assist eliminating FGM practices in the Gambia. This response concurs with that of the study undertaken by Kaplan Marcusan et al. (2016) whereby some 93.7% of respondents also stated that HCPs have a crucial and important role for the eradication of illegal and detrimental FGM practices.

The findings from studies conducted in Nigeria are similar to those reported in Gambia, Sudan and Somaliland. The study by Ibrahim et al. (2013) in Nigeria with 66 doctors and 52 nurse/midwives in four hospital settings highlights the continuing number of cases where medical health care interventions are required as a direct result of FGM practices. A previous study (Adekanle et al., 2011) that recruited a large sample of 104 doctors and 146 nurse/midwives in Nigeria also showed the extent of FGM complication that they witness. These included 90.4% have seen women with labial agglutination, 5.2% had seen clitoroidal cysts and 4.4% with virginal bleeding (Adekanle et al., 2011). In the same study it was noted that both nurse, midwives and doctors declared that they have been approached to perform FGM (Adekanle et al., 2011).

Umar and Oche (2014) conducted a study among 100 nurses in a hospital setting in the Northern part of Nigeria and found that 7% of the nurses have been involved in the decision-making process of FGM and had performed FGM but none of the FGM procedures was performed within the past one year to the time the study was conducted. These nurses (7%) who had practiced FGM claimed that the procedure was performed outside the hospital setting (Umar & Oche, 2014). This finding is contrary to those reported in the recent community-based study of 6 auxiliary nurses by Obianwu et al. (2018), participants stated that the practice of FGM was not discussed publicly, though the act is not concealed from the hospital management and other HCPs working within same healthcare facilities. The educational qualification of the participants in this study was not verified, therefore is it unclear if the HCPs interviewed in this study represent HCPs who possess a licence to practice from a professional body. This HCPs who practice FGM openly within healthcare facilities could be doing so because they live and work in rural communities within the states (Delta, Ekiti, Imo and Kaduna) where this study was conducted. These states happen to have high prevalence of FGM in Nigeria Ekiti (72.3%), Imo (68%), (Delta (40.3%) and Kaduna (25.1%) and the medicalisation rate is, Imo (61%), Delta (28.9%), Ekiti, (26.2%) and Kaduna (22.4%) and the people practiced FGM for mostly cultural reasons (Obianwu et al., 2018). Thus, the practice may be generally accepted and not seen as bad and illegal even with the availability of state and national laws prohibiting FGM in these settings.

Within the Obianwu et al. (2018) study, participants declared that they learnt the procedure from other colleagues who perform FGM and they practice FGM mostly because they share the same cultural beliefs as the other people who live in the community, therefore they are approving of the practice. This finding was also reported in Gambia by Kaplan Marcusan et al. (2016) where HCPs stated they carried out FGM procedures during their medical care praxis and uphold the practice by either performing the procedure themselves or consenting for their daughters to be cut. This may explain the reason some HCPs perform FGM for free in some
settings (Isman et al., 2013; Obianwu et al., 2018). In the work by Obianwu et al. (2018) some auxiliary nurses declared they perform FGM because they want to learn the procedure while others mentioned that if they refuse to perform FGM, parents and members of the community will think they are professionally incompetent and patronise traditional birth attendants (Obianwu et al., 2018). In addition, most participants in this study claimed to have abandoned the practice however some who claim to be against FGM, still perform the procedure in secret (Obianwu et al., 2018). The participants may have declared they were against FGM but still practice it in secret because of fear of being persecuted as FGM is illegal in Nigeria, because the (Violence Against Persons Prohibition (VAPP) Act 2015) was already in law at the time this study was conducted (Federal Government of Nigeria, 2015).

Importantly, the covert support for FGM appears to be a common practice among HCPs, as we have identified in this review with studies in Gambia (Kaplan Marcusan et al., 2016), Somaliland (Isman et al., 2013) and Sudan (Berggren et al., 2004) reporting that whilst some HCPs publicly disapprove of FGM they still perform the procedure in secret due to pressure from family members and the community and in some cases for financial gain. This could mean that some HCPs may be struggling with balancing their cultural affiliations with their professional obligations.

Discussion

The aim of this review was to explore existing literature on HCPs knowledge, attitudes, and experiences of FGM to determine the factors that may influence their support for FGM in SSA countries.

This review shows that irrespective of the country, most HCPs have general awareness of FGM but lack an in-depth understanding about the types, reasons for the practice and health complications associated with FGM. This is not surprising as studies conducted in other parts of Africa (Egypt) also reported that some HCPs where unable to correctly identify all types of FGM and the related health implications (Mostafa, El Zeiny, Tayel, & Moubarak, 2006; Refaat, 2009). HCPs in Gambia who had some understanding about FGM attributed this to training programmes that were designed to strengthen their capabilities in providing quality healthcare services for girls and women with FGM (Kaplan Marcusan et al., 2016). While in Nigeria, some HCPs associated the knowledge of FGM to increased awareness campaigns that were carried out in the country (Dike et al., 2012; Ibrahim et al., 2013) and years of practice as healthcare providers (Umar & Oche, 2014). However, in the same setting (Nigeria), other sources reported poor knowledge of FGM among HCPs who have also been exposed to nationwide awareness campaigns against FGM (Ashimi et al., 2014; Obianwu et al., 2018; Onuh et al., 2006). It is unclear if the knowledge demonstrated by some HCPs in Nigeria, was obtained from other sources other than awareness campaigns and years of practice as HCPs.

Understanding the practice of FGM seems to play a significant role in the support for FGM and its medicalisation. This is evident in studies where HCPs who had high knowledge of FGM showed a negative attitude towards the FGM (Dike et al., 2012; Ibrahim et al., 2013; Kaplan Marcusan et al., 2016). Whereas the support for FGM and its medicalisation is higher in studies where there was limited knowledge of FGM (Ashimi et al., 2014; Kaplan et al., 2013; Kaplan Marcusan et al., 2016; Obianwu et al., 2018; Onuh et al., 2006). This shows that there is a relationship between knowledge of FGM and support for the practice, as poor knowledge of FGM among HCPs
will hinder the dissemination of correct information about FGM to the public. As a result, the community will be deprived access to accurate information that will enable them to make informed decision about FGM and efforts to eradicate the practice. The support for the medicalisation of FGM is not limited to HCPs in SSA countries alone, studies conducted in Egypt among 193 doctors (Refaat, 2009) and 330 medical students (Mostafa et al., 2006) revealed that 19% and 73.2% (respectively) support the medicalisation of FGM.

Furthermore, continual professional training may not have a significant link to the discontinuation and lack of support for medicalisation because in countries where HCPs have had adequate training to provide direct care and counselling to women with FGM complications, HCPs still practice FGM openly (Ali, 2012; Berggren et al., 2004; Isman et al., 2013; Kaplan et al., 2013; Kaplan Marcusan et al., 2016). This could be because awareness raising amongst HCPs, through professional training, may have increased their confidence and capabilities in performing FGM rather than deterring them from performing FGM or the training perhaps was poorly structured and designed.

Also, there seems to be a conflict of interest amongst HCPs as some are devoted to upholding cultural beliefs and practices than adhering to policies and professional ethics as seen in studies conducted in Nigeria by Obianwu et al. (2018), in Somaliland by Isman et al. (2013) and in Sudan by Ali (2012), and Berggren et al. (2004). Since the studies included in this review did not examine the availability of FGM policies and clinical guidelines, it is difficult to ascertain if such protocols exist in these settings and what the implications for lack of adherence are. Considering that HCPs still perform FGM despite the provision of trainings in some of these settings.

Generally, some HCPs seems to be against the practice of FGM but the ones who support the practice do so to uphold their cultural beliefs and affiliation (Ali, 2012; Berggren et al., 2004; Isman et al., 2013; Obianwu et al., 2018). These beliefs influence HCPs at individual, family, and community levels as they fear social exclusion and ostracism if they refuse to adhere to the cultural beliefs, norms, and practices of the community. Furthermore, some HCPs who publicly claim not to support FGM are still embedded in the practice and support its continuation in secret (Obianwu et al., 2018). Thus, ethnic and cultural bonds is the most significant determinant for the support for medicalisation and continuation of FGM in SSA countries.

Conclusion

This review is the first on HCPs knowledge, attitudes, and experiences of FGM in Sub-Saharan countries and only 12 studies were identified from an extensive literature search, and this suggests that this aspect of FGM is under studied in this region. This review shows that cultural affiliation and lack of ongoing professional training has led to the perpetual knowledge deficit amongst HCPs across the four SSA countries that have produced evidence included in this scoping review. Arguably, the education of HCPs to increase their knowledge of FGM to strengthen their capabilities, on its own is not enough to change HCPs attitudes and support for medicalisation and continuation of the practice of FGM. It is important that the practice of FGM be seen not only as a violation of the right of women but also a deeply rooted practice that is embedded in cultural beliefs. This is because HCPs who perform FGM are largely from the same communities where FGM is most prevalent and where FGM is still largely practiced for cultural reasons. This cultural identity places HCPs in a juxtaposing between their
professional position and their role in the local community, which could cause bias in knowledge, attitudes and the care that is given to women with FGM who seek healthcare services.

HCPs need to receive appropriate training about FGM so they can make informed decisions and choices to support the women and girls that seek medical attention. Any form of continual professional development on FGM appears to be lacking within the healthcare systems in the settings reviewed (Kaplan Marcusan et al., 2016; Obianwu et al., 2018). There appears to be a shortage of community programmes that could be delivered by HCPs, to create awareness and knowledge about FGM amongst communities that currently have high prevalence of FGM. Professional body training could target standardized training and set competence levels for HCPs with the aim to improve overall knowledge of FGM, and skills to offer counselling services that could be implemented. These proposed initiatives need to be supported by national and local Governments and Health ministries, alongside the legal powers that the SSA countries have in existence.


<table>
<thead>
<tr>
<th>S/N</th>
<th>Author (Year)</th>
<th>Country</th>
<th>Aim of study</th>
<th>Methodology</th>
<th>Domains examined/Findings</th>
<th>Knowledge</th>
<th>Attitudes</th>
<th>Experiences</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Obianwu et al. (2018)</td>
<td>Nigeria</td>
<td>To inform the design and implementation of abandonment interventions through enhanced understanding of the factors of medicalised FGM in Nigeria</td>
<td>A community-based, cross-sectional qualitative study in Delta, Ekiti, Imo and Kaduna states of Nigeria</td>
<td>Participants - 6 health workers (auxiliary nurses) and community members Data collection - In depth interviews</td>
<td>General awareness of FGM Limited knowledge about the types and complications of FGM</td>
<td>FGM is a minor procedure with health benefits</td>
<td>Performed FGM because of cultural beliefs Some were taught how to perform FGM procedures by other health workers who practice FGM FGM is not a concealed practice among HWs in these settings FGM is performed within hospital facilities FGM is sometimes performed for free Claim to have abandoned FGM but still practice it One participant declared to still practice FGM</td>
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<td>2</td>
<td>Kaplan Marcusan et al. (2016)</td>
<td>Gambia</td>
<td>To explore, measure and assess changes in knowledge, attitude and practices regarding FGM among health care professionals (HCPs) in The Gambia</td>
<td>A cross-sectional descriptive study Participants - 1,288 HCPs in 6 regions of The Gambia Data collection - Self-administered questionnaire</td>
<td>Good knowledge of FGM 90.5% stated that FGM is practiced for cultural reasons 41.3% says for ritual passage of girls into womanhood 78.5% FGM can lead to transmission of infectious diseases 33% FGM cause lack of sexual libido</td>
<td>76.4% think FGM should be stopped 24.4% subject their daughters to FGM 25.4% support FGM 10.5% claim that girls who have not undergone FGM should be discriminated against 77.9% believes FGM is a violation of the human rights of women 72% FGM is harmful</td>
<td>10.5% have performed FGM 71.5% belong to families that practice FGM 28.7% support medicalisation of FGM 93.7% think HCPs have a role to play in eliminating FGM</td>
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<td>3</td>
<td>Ashimi, Aliyu, Shittu, and Amole (2014)</td>
<td>Nigeria</td>
<td>To determine the knowledge and attitudes of nurses in northern Nigeria concerning FGM</td>
<td>A cross-sectional study Participants - 350 nurses working in 3 tertiary institutions in northern Nigeria Data collection - Self-administered questionnaire</td>
<td>General awareness about FGM (91%) 41% know no type of FGM, 49% could mention one type of FGM 53% FGM prevent promiscuity 10% FGM is a religious requirement 28% preserves virginity 3% people practice FGM out of ignorance Majority mentioned haemorrhage (77%), risk of HIV and tetanus (73%), painful coitus (63%), and difficult labour (54%) as complications of FGM</td>
<td>4% support FGM, would perform FGM, and allow their daughters to be cut 8% FGM has medical benefits 17% do not know if FGM has benefits</td>
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<td>4</td>
<td>Umar and Oche (2014)</td>
<td>Nigeria</td>
<td>To identify the predictors of professional care workers (PHWs) practicing FGM in Sokoto, Nigeria</td>
<td>A descriptive cross-sectional study Participants - 100 female nurses in a teaching hospital in Sokoto, Nigeria Data collection - Questionnaire</td>
<td>75% had general awareness about FGM and the health consequences 34% had knowledge about the types of FGM</td>
<td>14% support the continuation of FGM 86% FGM is violence against women</td>
<td>7% have participated in the decision-making process of FGM and have performed FGM FGM is performed outside hospital environment Ethnicity and positive attitudes were the main reasons for supporting FGM</td>
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<td>5</td>
<td>Ibrahim, Oyeyemi, and Ekine (2013)</td>
<td>Nigeria</td>
<td>To determine the knowledge, attitude, and practice of FGM among</td>
<td>A cross-sectional study</td>
<td>All are aware of FGM Almost all could mention some health complications</td>
<td>4.2% support FGM</td>
<td>Only 1 participant admitted to performing FGM 20% have seen type 1 of FGM</td>
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<tr>
<td>Authors</td>
<td>Country</td>
<td>Study Aim</td>
<td>Study Design</td>
<td>Participants</td>
<td>Data Collection</td>
<td>Findings/Implications</td>
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<td>Isman, Mahmoud Warsame, Johansson, Fried, and Berggren (2013)</td>
<td>Somalia</td>
<td>To elucidate midwives’ experiences in providing care and counselling to women with FGM related problems</td>
<td>A qualitative inductive study</td>
<td>Participants - 8 midwives living in Somalia.</td>
<td>Data collection - Semi-structured interview</td>
<td>FGM information among midwives was poor. Most (95.0%) have undergone FGM, and 75.0% of midwives would perform mild FGM on their daughters. Reasons for performing FGM include meeting family demands, pressure from young female relatives who want to undergo FGM procedures and difficulty in having to abruptly stop performing FGM.</td>
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<td>Kaplan et al. (2013)</td>
<td>Gambia</td>
<td>To examine the knowledge, attitude and practices regarding FGM among health care professionals (HCPs) working in a rural setting in The Gambia</td>
<td>A cross-sectional descriptive study</td>
<td>Participants - 468 nurses/midwives in health facilities in rural areas of The Gambia.</td>
<td>Data collection - Questionnaire</td>
<td>General awareness of FGM was poor. Complications of FGM - transmission of infectious diseases (59.1%), bleeding (53.4%), difficult delivery (26.2%) and 2.1% FGM has no health complications. The majority of midwives (58.8%) are against FGM. The practice should be stopped.</td>
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<td>Ali (2012)</td>
<td>Sudan</td>
<td>To assess knowledge and attitude of midwives towards FGM</td>
<td>A quantitative study</td>
<td>Participants - 154 midwives (Traditional Birth Attendants) in kassala state, Eastern Sudan</td>
<td>Data collection - Opened questionnaire</td>
<td>Poor awareness of FGM among midwives. Only 7% could identify the four types of FGM. 36.4% of some types of FGM are not harmful. 54.3% of FGM decreases the sexual pleasure. 53.5% of FGM do not increase the risk of HIV transmission. 4.5% of no type of FGM is harmful. 66.2% will continue the practice of FGM, for cultural reasons (51.2%), religious reasons (26%) and financial benefits (22.8%).</td>
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<td>Dike, Ojiyi, Chukwulike, and Egwuatu (2012)</td>
<td>Nigeria</td>
<td>To determine the awareness and attitudes of female nursing/midwifery students towards FGM</td>
<td>A quantitative study</td>
<td>Participants - 269 students at school of nursing and midwifery, Afikpo Ebonyi state, Nigeria.</td>
<td>Data collection - Semi structured questionnaire</td>
<td>High awareness of FGM. Almost all mentioned bleeding (86.6%), HIV (84.3%), painful coitus (75.8%), and difficult delivery (26.7%) as complications of FGM. 49.3% of those that have undergone FGM are happy with their status. All participants will not cut their daughters.</td>
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FGM: Female Genital Mutilation
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<td>Nigeria</td>
<td>To assess the knowledge and experience of health workers in obstetrics and gynaecology, paediatrics, and private facilities in Nigeria</td>
<td>A descriptive cross-sectional study with 250 health workers (146 nurse midwives and 104 doctors) practicing in health institutions in Osun, Oyo and Ogun states, Nigeria.</td>
<td>51.2% FGM prevents promiscuity, 26.7% FGM is a traditional practice, 17% make external genitalia neat.</td>
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<td>To determine the knowledge, attitude, and practice of FGM among nurses</td>
<td>A cross-sectional study with 182 nurses working in central hospital Benin city, Edo state Nigeria.</td>
<td>80% have good knowledge about FGM, 66.6% have seen FGM.</td>
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<td>Berggren, Abdel Salam, Bergstrom, Johansson, and Edberg (2004)</td>
<td>Sudan</td>
<td>To explore Sudanese midwives' motives for and perceptions and experiences of re-infibulation after birth</td>
<td>An ethnographic study with 17 midwives working in Khartoum/Omdurman, Sudan.</td>
<td>16 midwives have undergone FGM type 3 (infibulation), 9 of them were re-infibulated, 11 have subjected their daughters to either type 1 or 3 of FGM, Midwives claim they do not perform re-infibulation within the hospital setting, Midwives perform re-infibulation to satisfy the demand from community and for financial benefits, Re-infibulation after birth is illegal, Participants sometimes perform re-infibulation without the consent of the woman.</td>
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