

Clitoral keloids after female genital mutilation/cutting

Kadın genital sakatlama/kesme sonrası klitoral keloid

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Abstract

We aimed to describe the presentation of long-term complications of female genital mutilation/cutting and the surgical management of clitoral keloids secondary to female genital mutilation/cutting. Twenty-seven women who underwent surgery because of clitoral keloid between May 2014 and September 2015 in Sudan Nyala Turkish Hospital were evaluated in this retrospective descriptive case series study. The prevalence of type 1, type 2, and type 3 female genital mutilation/cutting were 3.7%, 22.2%, and 74.1%, respectively (type 1: 1/27, type 2: 6/27, and type 3: 20/27). All patients had long-term health problems (dysuria, chronic pelvic pain, vaginal discharge, and chronic pruritus) and sexual dysfunction. Keloids were removed by surgical excision. There were no postoperative complications in any patient. Although clitoral keloid lesions can be seen after any type of female genital mutilation/cutting, they usually develop after type 3 female genital mutilation/cutting. Most of these keloids were noticed after menarche. Keloids can be removed by surgical excision and this procedure can alleviate some long-term morbidities of female genital mutilation/cutting.

Keywords: Female genital mutilation, infibulation, circumcision, keloids, vulvar mass

Öz

Kadın genital sakatlama/kesme işleminin uzun dönem komplikasyonlarının tanımlanması ve işleme bağlı gelişen klitoral keloidlerin cerrahi eksizyon ile yönetimi. Mayıs 2014 ile Eylül 2015 tarihleri arasında Sudan Nyala Türk Hastanesi'nde klitoral keloid için opera edilen yirmi yedi hasta bu retrospektif tanımlayıcı olgu serisi çalışması için değerlendirilmiştir. Tip 1, tip 2 ve tip 3 prevalansı sırası ile 3,7%, 22,2% ve %74,1'dir (tip 1: 1/27, tip 2 6/27 ve tip 3 20/27). Tüm hastalarda uzun dönem sağlık problemleri ve seksüel disfonksiyon mevcuttur (dizuri, kronik pelvik ağrı, vajinal akıntı, kronik kaşıntı). Keloidler cerrahi eksizyon ile çıkarılmıştır. Postoperatif komplikasyon izlenmemiştir. Klitoral keloid kadın genital sakatlama/kesme işleminden sonra görülebilmesine rağmen genelde tip 3 ardından gelişmektedir. Keloidlerin çoğu menarş sonrası farkedilmektedir. Cerrahi eksizyon ile keloidler çıkarılabilir ve bu prosedür bazı uzun dönem morbiditeleri hafifletebilir.

Anahtar Kelimeler: Kadın genital sakatlama, infibulasyon, sünnet, keloidler, vulvar kitle

Introduction

Female genital mutilation/cutting (FGM/C) is the medically unnecessary modification of the female external genitalia for cultural reasons, which leads to dysfunction⁽¹⁾. Historically, there have been references to its existence in Ancient Egypt; no one actually knows when, how or why FGM/C began. It is important to note that there have been no medically documented justifications that show the benefits of this practice for the purpose of enhancing woman's health. The procedure is named "female circumcision" in countries where it is practiced, but the term "FGM" is used in medical literature because of its harmful physical and psychological consequences⁽²⁾. It is often performed before adolescence. FGM/C is still known to be practiced in approximately 30 countries in Africa, in a few countries on the Arab Peninsula, among some communities in Asia, and among immigrants from these areas who have settled in Europe, Australia, and North America⁽²⁾. It affects approximately 100 million women worldwide and another 2 million procedures are performed each year^(2,3).

Although the practice may show variations from one country to another, it is performed secretly because it is an illegal practice. Typically, the procedure is undertaken by a traditional circumciser using a sharp blade or razor, which is not sterilized, and without any anesthesia⁽⁴⁻⁶⁾.

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The World Health Organization (WHO) has categorized FGM/C into four main groups:

Type 1: Amputation of the prepuce, sometimes along with partial or total removal of the clitoris (sunna).

Type 2: Amputation of the clitoris and part or all of the labia minora (excision).

Type 3: Amputation of the clitoris and labium minora. Cutting of the labium majora and sutured wound edges. A small opening is created to allow the flow of urine and menstrual blood (infibulation).

Type 4: A new category that encompasses a group of other operations on the external genitalia including piercing or incising the clitoris and/or labia, stretching the clitoris and/ or labia, cauterization, scraping and/or cutting of the vagina, introduction of corrosive substances and herbs into the vagina, and similar practices⁽⁷⁾.

Pain, hemorrhage, and infections are the three most important early complications. The long-term complications, especially as related to type 3 (infibulation) and these are infertility, vulvar mass-keloids, vesicovaginal fistula, and vesicourethral fistula, menstrual irregularities, chronic cystitis and dysuria, chronic pelvic pain, and dyspareunia. Maternal and fetal mortality and morbidity is also increased due to dystocia^(8,9). A number of studies also concluded that FGM/C had adverse effects on circumcised women's sexual life, leaving them feeling inadequate at intercourse^(10,11). This study describes the presentation of long- term complications of FGM/C and the surgical management of clitoral keloids.

Case Report

This was a retrospective study of the case notes on 27 patients with FGM/C who had clitoral masses and were referred to Sudan Nyala Turkish Hospital between May 2014 and September 2015. Gynecologic history, long-term complications of FGM/C, size of masses, and short-term complications after surgery were recorded. Surgical excision was performed for all patients by the same surgeon and all specimens were evaluated by the same pathologist.

Twenty-seven patients with clitoral mass were admitted to our gynecology outpatient clinic. All of the patients had a history of undergoing FGM/C. All masses were pre-diagnosed as clitoral keloid before surgery. The demographics and gynecologic history of the patients are shown in Table 1. The mean age of the patients were 18.07±7.16 years. FGM/C had been performed on all patients when they were aged between 7 to 9 years. The mean time between the procedure and notification of vulvar mass was 4.37±1.96 years. The sizes of the masses varied between 3 to 10 centimeters. The mean time between notification of the mass and referral to a gynecologist was 6.15±5.76 years.

The percentages of FGM/C types and symptoms are shown in Table 2. Most of the patients had type 3 FGM/C (n=20), which is the most destructive procedure and has the worst prognosis. The most common symptoms were dysuria with chronic cystitis

and dyspareunia. All patients had at least two long-term health problems.

Surgical excision was performed for all patients. There were no early complications recorded in any of the patients. Pathologically all masses were reported as keloid. Pictures of one patient before and after the surgery are shown in Figures 1 and 2.

Discussion

Currently, over 100 million women throughout the world have been subjected to the practice of FGM/C. Likewise, 66.000 women in the United Kingdom and 50.000 women in France have been reported⁽¹²⁾. The age at which girls undergo FGM/C is mostly before 12 years^(1,2,7). In our study, all patients underwent FGM/C between the ages of 7 and 9 years.

FGM/C is accepted as an assault on the human rights of women by the WHO because the practice deprives women of their rights to experience their sexuality. Its detrimental psychological and psychosexual lifelong effects on women's sexual life have

Table 1. The demographics and gynecologic history of the patients

	Range	Mean ± SD
Age (years)	10-39	18.07±7.16
Gravidity	0-3	0.59±0.79
Age of menarche	11-14	12±0.93
Age of FGM/C	7-9	7.56±0.57
Age of keloid notification	9-17	11.93±1.85
Time between FGM/C and keloid notification	2-10	4.37±1.96
Time between keloid notification and referral to hospital	0-24	6.15±5.76

FGM/C: Female genital mutilation/cutting, SD: Standard deviation

Table 2. Percentages	and numbers of femal	e genital mutilation/
cutting types and sym	ptoms	

Туре	Number of patients	Percentage
Type 1	1	3.7
Type 2	6	22.2
Type 3	20	74.1
Symptom		
Dysuria	17	63
Dyspareunia	14	52
Pruritus	10	37
Chronic pelvic pain	7	26
Infertility	3	11

been examined in many studies. The psychotherapist and social activist Leila Hussein's case can be given to show the seriousness of this non-medical practice. In her report to the Guardian, she stated that she recalled every single detail: She was cut when she was seven years old, four women held her down, she felt every single cut, and she screamed so much that she fainted⁽¹³⁾. Girls who have not been circumcised are considered sexually active and labeled as "ghalfa," which is used for a woman who is sexually free and not respectful, who has the potential not to show fidelity to her family; as such these girls would be a target for abuse in their schools and social environments⁽¹²⁾. In order to protect their daughters from this kind of abuse, families choose to have their daughters marry.

A significant number of children undergo FGM/C when under 1 year of age, which concurs with the global trend of FGM/C occurring at an increasingly younger age. This reduces the chance of the child remembering or being aware that the practice has taken place, thus reducing the chances of presenting to a physician⁽¹⁴⁾. In our study, all patients were aged between 7 to 9 years when FGM/C was performed.



Figure 1. Vulvar mass before surgery



Figure 2. After surgery

The dermatologic findings of FGM/C have been extensively reported in case reports and include keloids, epidermoid cysts, clitoral neuromas, and scarification. Women may delay treatment of keloids in the genital region for years because of embarrassment or fear of surgical options. Large keloids can contribute to obstetric complications⁽¹⁵⁾. We found that the mean time between notification of keloid and referral to a gynecologist was 6.15±5.76 years; this delay was more than ten years in six patients.

Allah et al.⁽¹⁶⁾ performed surgical excision for 149 patients with keloids. The recurrence rate was 100%. The authors concluded that keloids were not homogeneous biologic entities and were related with increased immunologic factors. The best prevention is to avoid the scar itself⁽¹⁶⁾. Gurunluoglu et al.⁽¹⁷⁾ reported a case of clitoral keloid that developed after a traumatic laceration. The keloid was treated with surgical excision, followed by silastic sheet application for six months. The sizes of keloid lesions were between 3 to 10 centimeters in our study. We performed surgical excision for all patients. There were no early complications recorded in any patients, but we did not have results for long-term follow-up.

Women with FGM/C have a significantly higher prevalence of long-term health problems such as dysmenorrhea, vulvar or vaginal pain, problems related to anomalous healing (e.g., fibrosis, keloid, synechia), and sexual dysfunction. They are also much more likely to suffer complications during delivery (perineal tear, obstructed labor, episiotomy, cesarean, stillbirth), and complications associated with anomalous healing. Similarly, newborns were found more likely to suffer complications such as fetal distress and caput of the fetal head⁽¹⁸⁾. In our study, the patients' most common symptoms were dysuria, dyspareunia, and pruritus. All case notes were obtained from the gynecology clinic; therefore, we had no data about obstetric complications. Despite prohibition, FGM/C is performed on girls illegally. These women have significantly higher prevalence of long-term health problems related to the genitourinary system. In cases of vulvar mass, keloid development secondary to FGM/C should be considered for immigrant patients. Keloids can be removed by surgical excision and this procedure can alleviate some longterm morbidities of FGM/C.

Ethics

Informed Consent: Consent form was filled out by all participants. Peer-review: External and Internal peer-reviewed.

Authorship Contributions

Surgical and Medical Practices: Ertuğrul Gazi Özbey, Özer Birge, Concept: Murat Akbaş, Özer Birge, Design: Murat Akbaş, Özer Birge, Data Collection or Processing: Ertuğrul Gazi Özbey, Özer Birge, Analysis or Interpretation: Murat Akbaş, Mehmet Adıyeke, Literature Search: Murat Akbaş, Özer Birge, Writing: Murat Akbaş. Conflict of Interest: No conflict of interest was declared by the authors. Financial Disclosure: The authors declared that this study has received no financial support.

References

- 1. Female genital mutilation. Council on Scientific Affairs, American Medical Association. JAMA 1995;274:1714-6.
- Kiragu K. Female genital mutilation: a reproductive health concern. Popul Rep J 1995:1-4.
- Macready N. Female genital mutilation outlawed in United States. BMJ 1996;313:1103.
- International Planned Parenthood Federation IMAP statement on female genital mutilation. Statement developed by the International Medical Advisory Panel (IMAP) in November 1991, amended by the Panel in October 2001.
- Kandil M., Female circumcision: Limiting the harm. Version 2. F1000Res. 2012 Oct 5 [revised 2012 Nov 8];1:23.
- 6. Shah G, Susan L, Furcroy J. Female circumcision: history, medical and psychological complications, and initiatives to eradicate this practice. Can J Urol 2009;16:4576-9.
- 7. Female Genital mutilation. WHO Technical Working Group Meeting 1995.
- Banks E, Meirik O, Farley T, Akande O, et al. Female genital mutilation and obstetric outcome: WHO collaborative prospective study in six African countries. Lancet 2006;367:1835-41.

- Almroth L, Elmusharaf S, El Hadi N, Obeid A, El Sheikh MA, Elfadil SM, et al. Primary infertility after genital mutilation in girlhood in Sudan: a case-control study. Lancet 2005;366:385-91.
- Catania L, Abdulcadir O, Puppo V, Verde JB, Abdulcadir J, Abdulcadir D. Pleasure and orgasm in women with Female Genital Mutilation/ Cutting (FGM/C). J Sex Med 2007;4:1666-78.
- 11. Utz-Billing I, Kentenich H. Female genital mutilation: an injury, physical and mental harm. J Psychosom Obstet Gynaecol 2008;29:225-9.
- 12. Female Genital Mutilation/Cutting: a statistical overview and exploration of the dynamics of change. UNICEF 2013.
- 13. Ending female genital mutilation in the UK. Lancet 2013;382:1610.
- 14. An update on WHO's work on female genital mutilation (FGM). Geneva: World Health Organisation; 2011.
- Dave AJ, Sethi A, Morrone A. Female genital mutilation: what every American dermatologist needs to know. Dermatol Clin 2011;29:103-9.
- Allah KC, Yeo S, Kossoko H, Assi Dje Bi Dje V, Richard Kadio M. [Keloid scars on black skin: myth or reality]. Ann Chir Plast Esthet 2013;58:115-22.
- Gurunluoglu R, Dogan T, Numanoglu A. A case of giant keloid in the female genitalia. Plast Reconstr Surg 1999;104:594.
- Kaplan A, Forbes M, Bonhoure I, Utzet M, Martin M, Manneh M, et al. Female genital mutilation/cutting in The Gambia: long-term health consequences and complications during delivery and for the newborn. Int J Womens Health 2013;5:323-31.