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BMJ Open Sexuality post gynaecological cancer treatment: a qualitative study with South African women

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ABSTRACT

Objectives This study investigated women's experiences of their sexuality post gynaecological cancer treatment. Using a holistic sexuality framework, the study explored how women felt their sexual functioning, sexual relationships and sexual identity had been affected by treatment.

Design The study was qualitative in nature and made use of an interpretive descriptive design. Data were analysed using thematic analysis.

Setting Data collection took place at a follow-up clinic within the gynaecology unit at a public-sector tertiary hospital in Cape Town, South Africa.

Participants Purposive sampling was used to recruit participants, and the final sample consisted of 34 women aged 29–70 ($x=52$). All women had received a gynaecological cancer diagnosis and had been treated with either surgery, chemotherapy, radiation or a combination of these. On average, the participants were between 12 and 30 months post treatment.

Results Women expressed how their sexual functioning post treatment was both nuanced and complex, how heteronormative gender expectations influenced their intimate relationships, and how they experienced a re-embodiment of their sexual subjectivity post treatment. Participants felt that more sexual functioning information from healthcare providers, as well as peer support groups, would assist them in navigating the sexuality changes they experienced.

Conclusions The findings of this study broaden conceptualisations of sexuality post treatment by detailing the ways that it is complex, nuanced, relational and ever shifting. More research is needed about how to incorporate holistic psychosexual support post treatment into the public healthcare system in South Africa.

BACKGROUND

Sexuality in the context of gynaecological cancer treatment is frequently sidelined in clinical contexts because it does not relate to the eradication of the cancer itself.^{1 2} In this article, the WHO's 2010 definition of sexuality is used as the underlying understanding of sexuality.³ This states that sexuality encompasses sex, gender identities and roles, sexual orientation, eroticism, pleasure, intimacy and reproduction, and is influenced

Strengths and limitations of this study

- The use of a holistic sexuality framework allowed for sexual functioning to be considered beyond physical acts of intercourse.
- The cross-sectional nature of the study means that comments cannot be made about how participants experienced their sexuality post treatment longitudinally.
- The theoretical framework used is not exhaustive and did not include sociocultural factors relating to sexuality.
- The sample of this study comprised predominantly older cisgender women in long-term relationships with men, and therefore this study could not explore the experiences of younger women, women who are not partnered, queer women and non-binary or transgender persons with cervixes and vulvas.

by the interaction of biological, psychological, social, economic, political, cultural, ethical, legal, historical, religious and spiritual factors. Persons living with cancer are often asexualised because they fall outside of conceptualisations of 'normative' sexuality.⁴ Yet, for many individuals, sexual well-being is an important quality of life factor.^{5 6} Research suggests that 40%–100% of women with gynaecological cancer will experience sexual difficulties post treatment.^{7–9} Common problems include decreased desire; low frequency of sexual activity, sexual pleasure and satisfaction; high levels of discomfort; loss of vaginal elasticity; deep dyspareunia; vaginal dryness and shortening; and difficulty with orgasm.¹⁰ Side effects that manifest in other areas of the body, such as urinary or bowel dysfunction and fatigue, also hinder sexual activity. These alterations can last for years into survivorship and may become chronic.¹¹ Healthcare providers find it difficult and often feel ill-equipped to communicate about sexuality with their patients,^{12–14} which leads to inconsistencies in psychosexual support post treatment.¹⁵

Gaining a comprehensive understanding of women's lived experiences of sexuality post treatment is imperative to patient-centred care and comprehensive support programmes in South Africa.

Cervical cancer is the most common gynaecological cancer in South Africa and the second most common cancer in women after breast cancer, with an age-standardised incidence rate per 100 000 of 23.¹⁶ The age-standardised incidence rates per 100 000 for cancer of the uterus, ovary, vulva and vagina are 5, 2, 1 and 0.7, respectively.¹⁶ Accordingly, most of the research has focused on cervical cancer compared with other gynaecological cancers. Cervical cancer prevention has concentrated on population-based screening in the form of free Papanicolaou smears.¹⁷ Unfortunately, most women typically self-present to health facilities when symptomatic and in advanced stages, commonly stage IIIB,^{18 19} where definitive radiotherapy is the treatment of choice. The higher doses received, compared with adjuvant radiotherapy, may likely result in higher levels of sexual dysfunction.²⁰

METHODS

The main research question was: How do women experience their sexuality post gynaecological cancer treatment? The subquestions were as follows: (1) What are women's experiences of their sexual functioning post treatment? (2) In what ways has this impacted their sexual self-concept? (3) How has this affected their sexual relationships? (4) What are their thoughts on how best their sexual health needs can be addressed as part of cancer care?

Theoretical framework

This study used the neo-theoretical framework of sexuality, a framework conceptualised by Woods,^{21 22} and then expanded on by Cleary and Hegarty²³ through analysis of empirical literature about sexuality in the context of gynaecological cancer. This framework posits that sexuality in the context of gynaecological cancer comprised three interconnected factors: (1) sexual self-concept, (2) sexual relationships and (3) sexual function.²³ The framework was chosen for this study in order to move away from solely biomedical understandings of sexuality post gynaecological cancer treatment to more comprehensive conceptualisations which acknowledge the material, intrapsychic and relational aspects of sexuality.²⁴ Apart from outlining this study's theoretical understanding of sexuality, this framework also guided the research questions and interview schedule and informed the deductive stage of data coding.

Study design

This was a qualitative study that used an interpretive descriptive design. Interpretive description aligns philosophically with naturalistic observation and borrows strongly from grounded theory, ethnography and phenomenology.^{25 26} Interpretive description aims to

provide a comprehensive summary of a phenomenon as well as offer explanations of what the themes within the data signify.²⁷ It also pays attention to subjective perceptions and acknowledges the contextual and constructed nature of human experiences,²⁸ which creates space for exploring multiple perspectives within the data. Interpretive descriptive studies are largely problem-driven and aim to generate knowledge that is clinically applicable.²⁹ Such a research design is effective for health sciences research because it creates 'tentative truth claims'²⁶ about what is common about people's experiences of a clinical phenomenon. In this way, the research output can provide the background for health-related planning, assessment and interventions.²⁶

Sampling and recruitment

Participants were recruited using purposive sampling, which is a non-random sampling technique whereby participants are chosen because they have experience with a phenomenon of interest and thus can provide rich information on the topic.³⁰ Women who had received treatment for gynaecological cancers at a tertiary level, public-sector hospital in Cape Town were recruited from the weekly follow-up clinic that takes place within the radiation oncology unit.

Participants were eligible for the study if they were 18 years or older and had received treatment for cervical, uterine, vulvar or ovarian cancer, or a combination of these, in the past 6–36 months. Participants had to fall into one of the following treatment categories: surgery only, radiation (with or without preceding surgery), or surgery followed by radiation or concurrent chemoradiation. Participants needed to be conversant in either English, Afrikaans, isiXhosa or isiZulu and needed to score 0, 1 or 2 on the Eastern Cooperative Oncology Group performance status to be recruited.

Women who met the inclusion criteria were identified through their hospital files by the radiation oncologist (NF) and gynaecologist (TA) involved in the follow-up clinic. On completion of their follow-up appointment, eligible women were informed about the study and interested women were referred to the research nurse. The research nurse gave further information about the study, and if potential participants wished to proceed they completed the informed consent procedures. This process was conducted in the participant's home language. In accordance with established qualitative research protocols, recruitment ceased when information redundancy was reached.³¹

Data collection and analysis

Data collection occurred in two phases: pilot interviews and actual data collection. The pilot interviews were used to test the interview guide, and the data from these interviews were not included in the final analysis. Both sets of interviews were conducted in participants' home language by either the research nurse or the Gynaecological Cancer Research Centre's qualitative researcher

Table 1 Participant demographics

| N=34 | | | | |
|-----------|-----------|-------------|---------------------------------------|-----------------------|
| Pseudonym | Age group | Cancer site | Treatment modality | Months post treatment |
| Abigail | 51–55 | Vulvar | Surgery and radiation | 31–36 |
| Annabelle | 66–70 | Uterine | Surgery and radiation | 10–16 |
| Bonita | 61–65 | Cervical | Surgery and concurrent chemoradiation | 10–16 |
| Busiswa | 41–45 | Ovarian | Surgery | 3–9 |
| Cebisa | 36–40 | Cervical | Concurrent chemoradiation | 3–9 |
| Cheryl | 46–50 | Vulvar | Surgery and concurrent chemoradiation | 24–30 |
| Doris | 66–70 | Cervical | Concurrent chemoradiation | 17–23 |
| Dumisa | 51–55 | Cervical | Concurrent chemoradiation | 10–16 |
| Edith | 61–65 | Cervical | Surgery | 3–9 |
| Faith | 56–60 | Cervical | Surgery and concurrent chemoradiation | 17–23 |
| Fatiema | 36–40 | Ovarian | Surgery | 17–23 |
| Fiona | 46–50 | Cervical | Surgery and concurrent chemoradiation | 17–23 |
| Gia | 56–60 | Cervical | Concurrent chemoradiation | 17–23 |
| Grace | 46–50 | Vulvar | Surgery | 31–36 |
| Ivory | 56–60 | Uterine | Surgery | 3–9 |
| Ivy | 46–50 | Ovarian | Surgery and chemotherapy | 17–23 |
| Jadeen | 46–50 | Vulvar | Surgery | 24–30 |
| Jane | 46–50 | Ovarian | Surgery | 24–30 |
| Kamilieta | 36–40 | Cervical | Surgery and concurrent chemoradiation | 10–16 |
| Kathy | 56–60 | Uterine | Surgery | 31–36 |
| Kayla | 51–55 | Uterine | Surgery and radiation | 10–16 |
| Lucy | 41–45 | Cervical | Concurrent chemoradiation | 17–23 |
| Maggie | 56–60 | Uterine | Surgery | 17–23 |
| Nadine | 51–55 | Uterine | Surgery | 10–16 |
| Octavia | 41–45 | Uterine | Surgery and chemotherapy | 3–9 |
| Priscilla | 56–60 | Cervical | Concurrent chemoradiation | 31–36 |
| Roxy | 51–55 | Cervical | Concurrent chemoradiation | 24–30 |
| Sam | 61–65 | Vulvar | Surgery | 10–16 |
| Tamzin | 56–60 | Uterine | Surgery | 10–16 |
| Ursula | 61–65 | Cervical | Concurrent chemoradiation | 31–36 |
| Wendy | 26–30 | Ovarian | Surgery | 31–36 |
| Xoliswa | 46–50 | Cervical | Concurrent chemoradiation | 24–30 |
| Yvonne | 41–45 | Cervical | Concurrent chemoradiation | 24–30 |
| Zelda | 51–55 | Vulvar | Surgery | 31–36 |

(SP), both of whom are female. Interviews took place in a private space in the radiation oncology unit and lasted between 30 and 90 min. Only the participant and interviewers were present for the interviews. Before beginning the interview, the participants signed a consent form and completed a brief demographic questionnaire asking about age, home language/s, current relationship status, diagnosis, treatment/s and time post treatment. At the beginning of the interview, the participants were asked to choose a pseudonym, which was used to ensure their anonymity throughout the research process, including

their transcripts, during analysis and in any published material (see [table 1](#)). Partner's and children's names as well as any other identifying information were removed.

The pilot interviews, conducted in May 2018, demonstrated that, despite extensive training of the interviewers with regard to interviewing about sensitive topics, participants struggled to articulate their experiences of sexuality post treatment. This is not unexpected as this study exists at the intersection of two topics which remain highly stigmatised in contemporary South African society: female sexuality and cancer. Given these challenges, the

interview guide was rearranged to flow more logically, and pile sorting was incorporated to facilitate participants' expression.^{32–34}

Pile sorting is a well-established qualitative research methodology and can be used in multiple ways.³⁵ It involves presenting a participant with words, objects or images and asking them to sort these into categories that make sense to them. The purpose of this is to identify the ways in which people think about certain concepts and experiences.³⁵ A structured pile sort using words was employed, where participants were guided as to how to sort the words. For example, 'Please select all the words that describe how you felt about your body image before your cancer treatment'. Participants were also allowed to include any words of their own that they felt best described their experiences but were not on the cards presented by the interviewer. The pile sorting acted as a catalyst for discussion and formed concrete reference points that could be used throughout the interview. This methodology has been widely used in public health research^{35–37} and has been shown to be effective in gender and sexuality research in low- and middle-income countries.^{38,39}

Following the pilot interviews, data were collected through semistructured, face-to-face, in-depth interviews in conjunction with pile sorting. Interview questions were based on the central elements of the neo-theoretical framework of sexuality²³: (1) sexual self-concept, (2) sexual relationships and (3) sexual function. Participants were asked how they experienced these aspects of their sexual lives before and after treatment. They were also asked about the sexual functioning information they received from healthcare providers during their treatment and what kind of support they think women need post treatment (see online supplemental appendix A for interview guide). Each participant was interviewed once between September 2018 and February 2019. Interviews were audio-recorded with participants' consent, transcribed for meaning and, where necessary, translated. Fieldnotes were written after each interview was completed. The interview excerpts that appear in this paper have been edited only to the extent that a few irrelevant sentences and words have been replaced with ellipses, and excessive use of colloquialisms such as 'like' and 'um' has been removed.

In keeping with the iterative and cyclical nature of qualitative research, the data analysis and writing stages happened simultaneously and informed each other. NVivo V.12 Pro was used to manage the data and facilitate analysis. Data were analysed using the thematic analysis steps outlined by Clarke *et al*,⁴⁰ which comprises six stages: familiarisation with the data, generating initial codes, searching for themes, reviewing themes, defining and naming themes, and producing the report. The coding process made use of inductive and deductive approaches. Deductive coding was based on the neo-theoretical framework of sexuality.²³ For the inductive coding, the concepts and categories that emerged from the data were used as codes, rather than being informed by existing theory or

preconceptions about gynaecological cancer and sexuality. Transcripts were not given to participants for review.

Patient and public involvement

First language Afrikaans and isiXhosa speaking members of the public were asked to give feedback on the comprehensibility of the translated interview schedule and pile sorting words. This took place in the form of focus group discussions. Patients were not involved in this research.

RESULTS

Participant demographics

In total, 34 participants were recruited (see table 1). The average age was 52, with a range of 29–70. Most of the women were either married or single; however, although some women classified themselves as 'single', they still had a consistent sexual partner. Afrikaans and English were the most common languages spoken by participants. Cervical cancer was the most common cancer, which is in accordance with national prevalence rates, and most of the women had been treated with surgery. The average time post treatment was 20.3 months, with most women being within 12 and 30 months post treatment.

Overview of results

Four main themes emerged from the interview data: complexity and nuance in sexual functioning experiences; the influence of heteronormative gender role expectations on sexuality; re-embodiment of the sexual self; and psychosexual support during the cancer journey (see table 2). The complexity and nuance in sexual functioning theme comprised the following subthemes: material changes in sexual functioning; impact of prediagnosis symptoms; intimate partnership dynamics; and the coexistence of pleasure and discomfort. The heteronormative gender role expectations theme includes the following subthemes: 'failing' at femininity and sexual violence. Psychosexual support during the cancer journey consists of the following subthemes: information received from healthcare providers and the need for comprehensive support. These findings contribute to expanding understandings of sexuality within the context of gynaecological cancer as well as trouble existing dominant narratives regarding sexuality post treatment.

Complexity and nuance in sexual functioning experiences

This theme confirms existing literature relating to material changes in sexual functioning post treatment as well as foregrounding how sexuality in the context of gynaecological cancer involves a diverse array of experiences and feelings that are nuanced, complex, fluctuating and contingent on the relational context. In particular, these results show that symptoms *prior* to diagnosis also have a detrimental impact on women's sexuality; that women's partners' health and sexual functioning also need to be considered as a factor in sexuality post treatment; and lastly that most participants reported experiencing

Table 2 Summary of results

| Main theme | Subtheme/s | Quotes |
|---|--|---|
| Complexity and nuance in sexual functioning experiences | Material changes in sexual functioning | <p>“The sexual relationship, I couldn’t, there was no sex involved the next year or so, even now it’s still a bit, not sore, but two months ago I was very uncomfortable, because I had a yeast infection. It’s your whole bottom body is on fire all the time, constipated, I have been constipated since the chemo started, feeling constipated all the time. So, your sexual being, it doesn’t exist.” — Ivy</p> <p>“They said the radiation caused scar tissue that is why I think I’m too tight. The dryness is also from the treatment they said, and sometimes he has to do stuff to make me wet, and that is uncomfortable, that is an uncomfortable feeling, when I’m too tight and too dry I’m very uncomfortable. And after sex I’m always tired, I feel so weak, like I have no energy left in my body.” — Fiona</p> <p>“I actually had this uncomfortable feeling and itchiness all the time for years. Yes, it was about three to four years that I had it, I went to the doctor and then I had a Pap smear, and then she said that it’s just fine, I must just use the ointment. And then, because I think I went twice to different doctors, and because it’s a gynaecological problem and you don’t want just any doctor to just look into you, you don’t feel comfortable.” — Sam</p> <p>“Before, I don’t even want to talk about before, before I also didn’t want to have sex, because you know I told you that when we were having intercourse I would start to bleed, that was really messy and that is why we never bothered having sex that much.” — Fiona</p> <p>“Before I received the treatment, I didn’t have a desire to have sex with my husband, because that desire to have sex was not there. So, after the operation that feeling of being a woman came back, that feeling of being a woman... So, after the treatment I felt different. I am the one that wants it most of the time, I feel that I am always ready for my husband, there isn’t a time where I feel tired or worried about the pain.” — Wendy</p> |
| | Intimate partnership dynamics | <p>“I don’t know why but sometimes we won’t have sex for two weeks and we sleep in the same bed. For instance, I touch him and then he will, but I don’t touch... It’s like that, so I can’t say from his side what’s the problem there, maybe he doesn’t feel like it, maybe he is too tired or whatever.” — Roxy</p> <p>“I will be honest with you, it’s been down [their sex life]. Most of the time, it’s not all the time... After the treatment and before because he is a diabetic. So, I had to compromise with his sickness as well, and be patient and tolerant. So, I think that is where the understanding comes from on both sides.” — Ivory</p> <p>“Yes, it’s after the treatment, so I think the operation hasn’t healed on the inside, yes. And unsatisfied on his side, I would say he might also have a problem because I don’t feel him the way I used to. I think that the problem is with him. He thinks about going to the doctor.” — Busiswa</p> |
| | Coexistence of pleasure and discomfort | <p>“I don’t like it as often as I used to, so not often, so that is how I would like to describe it. I’m very well lubricated, not dry at all but I don’t like it that often. I mean it’s still as pleasurable, there is no discomfort. I mean it’s still as pleasurable, it’s as still pleasurable but I still don’t like it as often, and I’m very well lubricated and very comfortable.” — Jane</p> <p>“There’s always a desire, I make myself available after I finish my work, and I wash myself and I make myself sexy but I’m tired [laughs] that is the problem. I make myself available after I finish my work, and I wash myself and then I become angry; because sometimes when I’m tired I don’t feel like it.” — Priscilla</p> |

Continued

Table 2 Continued

| Main theme | Subtheme/s | Quotes |
|--|--|---|
| The influence of heteronormative gender role expectations on sexuality | 'Failing' at femininity | "You doubt your femininity, because now your life has changed – you are sick now. There's always anger in the household because you are sick, everything is going backwards. It seems like there is no mother in the home because mom is sick. So, everything is unpleasant, and so you start to doubt whether you are a real woman. So, all of that makes me feel empty when I am not take care of at home. And also, you aren't desirable because you are sick, and you are always lying in bed, so you lose your desirability and your husband loses interest in you, he doesn't see anything in you because you are also not fixing yourself up because of your health." —Grace |
| | Sexual violence | "What caused it is if we were intimate I would bleed, it wasn't nice and blood clots would come out. And when all is done I would get an itchy discharge which is constant and that is not treatable, so I ended up going to check myself out to see what is going on. That is how I felt but he was also persistent. I would bleed when I'm intimate with a man, it wasn't nice, and I would be in pain, the pain caused me to act. So, what he would do is he would force me, but I would tell him that the discharge would come out while I'm standing. So, he was forcing things, so I ended up calling the police to chase him out of the house." —Cebisa "Let me put it like this he is a man and he wants sex, right but you can't give it to him. You can't give it to him, so he is going to become angry, or he will hit me, and he will fight with me because I don't want to give it to him. Look I must avoid him because why do I have to do that, look he wants to sleep with me, and now my wound has not healed. It's still raw on the inside, now that is why I'm avoiding him." —Maggie |
| Re-embodiment of the sexual self | N/A | "I'm still a woman no matter what has been done to my body, I'm still a woman, it happened and it's done. The operation has been done and I have to live with that." —Edith "I would say that I still find myself attractive, confident, feminine. I'm still whole and I'm comfortable because that is who I was before. And I'm still that person, it doesn't matter what operation I had, what was removed from me, that is from the inside. But I'm a person, my heart is whole, so I still feel attractive and I still feel confident." —Fiona |
| Psychosexual support during the cancer journey | Information received from healthcare professionals | "They just call you into the boardroom to tell you what the procedure is going to be, what they will be doing here in the treatment; but not on a sexual, not telling you about how or you know." —Gia "No, the doctor said I am quite old age, he doesn't think that I am somebody that is a young girl that likes to have a lot of sex and things like that." —Bonnita "They did tell me yes, they explained to me I'm not going to get the feelings because every, they told me that not every woman is the same, every woman has a different body." —Fatiema |
| | The need for comprehensive support | "I would say that they should explain it to a person in more detail, just like myself I don't have much information on what sex would do to me...Even if you give us pamphlets, yes to read, a person to read on their own and see whether sex has an effect or not, and for us not to be worried, or to be too anxious." —Xoliswa "I think that when you come for your visit, doctors don't need to wait for you to say, "Doctor, I'm getting sore when I have intercourse," or "Doctor if I bend too low having sex, I'm getting sore." I think they need to, when you come, they must sit with you and must have a chat with you about that part; because that part is the most, that is the part where you find it most difficult." —Roxy "AND to have a support group would be nice, I mean I know about cancer, cancer is expensive to go through and even some of the other support groups it's very difficult, but to have something as part of the hospital that's here." —Ivy |
| | N/A, not applicable. | |

difficulties in one area of their sexual lives while simultaneously experiencing pleasure and fulfilment in other areas.

Material changes in sexual functioning

Just over half of the participants mentioned sexual difficulties as a result of fatigue post treatment and just under half of the participants struggled with a lack of desire post treatment that was not present beforehand. In addition to this, ongoing pain and dryness were common complaints for approximately a third of participants. Some participants reported significant tightness of the vagina and that it took them longer to lubricate post treatment. Discomfort such as numbness, itching or burning also bothered a few participants, along with some forms of gastrointestinal distress such as constipation, nausea or vomiting.

The impact of prediagnosis symptoms

Women in this study reported that their symptoms prediagnosis negatively affected their sexual functioning. As shown in Sam and Fiona's quotes (see [table 2](#)), living with symptoms such as itchiness and heavy bleeding for an extended period creates disturbances in sexual functioning even before treatment has been received. Sam highlights how her discomfort with having to talk with various doctors about gynaecological problems impeded her from seeking further help even though her symptoms persisted. These excerpts align with what is known in the literature regarding late presentation for diagnosis of gynaecological cancers in South Africa.¹⁹ For these participants, it took time before a cancer diagnosis was made, and further research on factors that delay timely diagnosis is required. However, some women in this study (eg, Wendy) reported experiencing an improvement in their sexual functioning post treatment because they were no longer burdened with unpleasant symptoms. This highlights the possibility for a diverse range of sexual functioning outcomes post treatment.

Intimate partnership dynamics

The results of this study also highlight how partnership level factors, such as partners' health issues and sexual functioning difficulties, can influence women's sexual experiences post treatment. Roxy, Ivory and Busiswa's quotes emphasise how a woman's partner is a vital factor to consider in sexual rehabilitation and renegotiation post treatment. For, as Roxy and Ivory explain, partners' sexual functioning difficulties, such as lack of desire and diabetic erectile dysfunction, can impede sexual intimacy. Busiswa acknowledges that she is still healing from her surgery but contemplates whether her husband might also be experiencing a change in sexual functioning—"he might also have a problem"—and thus it is not only her sexuality that is problematised.

The coexistence of pleasure and discomfort

Participants reported experiencing pleasure and fulfilment in one part of their sexual lives while also experiencing difficulties in others. These results further

emphasise that women's sexuality post treatment should not be considered homogeneous nor wholly ruined. Both Jane and Priscilla articulate varied experiences of their sexuality post treatment. Jane describes how, even though her level of desire has decreased, she still finds sex pleasurable when she does have it and that she is free of discomfort and able to lubricate naturally. Priscilla explains how, even though she usually has a desire for sex, her fatigue makes it difficult for her to be intimate with her partner and that this leads to tension and coercion in their relationship. Other women in the study had similar stories of diverse experiences of their sexuality post treatment and not only in relation to physical intercourse. For example, some women described major changes in their physical sexual functioning yet the continuation of other forms of intimacy with their partners. Likewise, some women spoke of feeling differently about their bodies but not having major changes in their ability to have intercourse.

The influence of heteronormative gender role expectations on sexuality

Sexuality cannot be understood outside of gender, for 'sexuality and gender go hand in hand; both are creatures of culture and society, and both play a central and crucial role in maintaining power relations in our societies...Hence, gender provides the critical analytical lens through which any data on sexuality must logically be interpreted....' (p1).⁴¹ Thus, within this theme, the material effects of cancer treatments on sexuality are acknowledged, while also highlighting how discursive constructions of gender provide the context within which individuals experience their sexual relationships post treatment.⁴²

The main trope that participants drew on to describe their relationships post treatment was that of heteronormativity, which is the assumption that heterosexuality is the 'normal' and default sexual orientation and that gender roles and gender differences are immutable and innate.⁴³ A heteronormative view thus involves alignment of biological sex, sexuality, gender identity and gender roles. In this study, participants narrated a sense of femininity failure post treatment because they were no longer able to fulfil the gender roles expected of them as women. Participants also described how heteronormative expectations of masculinity made sexual violence from their male partners permissible before and after treatment.

'Failing' at femininity

Within the heteronormative gender system women are expected to fulfil certain roles, which are deemed inherent to womanhood, within society and within their relationships. These may include having children, looking attractive, taking care of their husband and child(ren), being responsible for domestic tasks, having a uterus, having an intact and functional vulva and vagina, having intercourse with their male partner, and always desiring this. Hence, if a woman is unable to fulfil these gender role expectations, her femininity is questioned by herself

and others. Grace's quote encapsulates the variety of ways in which women in the study felt that they were 'failing' at being a woman post treatment.

Grace experiences the period post treatment as a disruption to her enactment of femininity because she feels she cannot fulfil the expected roles of a mother, a wife and a sexual partner. Her inability to perform these socially prescribed tasks leads her to question her feminine identity. Although these roles are socially constructed, Grace has internalised them, which leads her to be the first to question her feminine subjectivity; however, she explains that her husband is having similar doubts because "he doesn't see anything in [me]." Other participants also experienced both internal and external shaming of their changed womanhood. For example, Wendy stated how, before her treatment, when she was experiencing severe symptoms "Sometimes I would see myself as not good enough as a woman because I used to doubt myself by not being able to satisfy my husband." However, after treatment, she was once again able to fulfil the role of 'good sexual partner', according to her and her husband, because "He sees me as a good woman, as sexy and as a person that he is willing to sleep with." However, other women only experienced shaming from their male partners. This theme highlights how experiences surrounding gynaecological cancer are embedded within broader unequal gendered systems which have the potential to exacerbate an already trying period in women's lives. Hence we see how, in this theme, broader societal ideas around femininity become internalised and used as a standard against which women post treatment (and their partners) evaluate their gender and sexuality.

Sexual violence

Heteronormative gender role expectations also create space for sexual violence to take place within the context of gynaecological cancer. Participants experienced various forms of sexual violence, such as coercion; forced sex through threats of violence, aggression and infidelity; and rape. As is evident in the quotes by Cebisa and Maggie, many of the women felt that their inability to have sex with their partners due to cancer symptoms or healing post treatment was the trigger for violence. This stems from the idea within the heterosexual script that women are expected to give sex to male partners, which if 'denied' is punishable with violence. Also underlying this violence is the male sexual drive discourse,⁴⁴ which is the idea that men need sex all the time, whereas women generally are not interested in sex: "men are not like us, we can go months even years without it but men want to do it all the time." The internalisation of this discourse resulted in some participants putting pressure on themselves to have sex even when they did not feel ready.

Sexual self-concept: re-embodiment post treatment

The concept of embodiment maintains that the human body and its 'visceral, felt, enlivened bodily experiences'⁴⁵ are a worthwhile object of study. Results from

the present study show that most of the participants also partook in a process of re-embodiment post treatment. Participants took up a re-embodied sexual subjectivity by emphasising feelings of feminine identity, confidence, strength and attractiveness that exist despite changes to the physical body as a result of treatment. For example, Edith states that she is still a woman regardless of her operation, and Fiona says that she is still "attractive, confident, feminine."

Psychosexual support during the cancer journey

The last part of the interview asked participants about the information they had received from healthcare providers about sexual functioning, as well as what kinds of support would have been most beneficial to them throughout their cancer journey. The results show that participants had mixed experiences with regard to the information they received and that most participants would like to receive more information from their healthcare providers as well as be able to participate in a support group.

Information received from healthcare providers

Participants reported a variety of experiences regarding the sexual functioning information they received. Some participants, such as Gia, stated that they did not receive any information; however, most participants did receive information from a healthcare provider about their sexual functioning post treatment, but the results show that this information varied greatly in quality. For example, it appears that some doctors made assumptions about participants' sexual activity based on their age and relationship, as can be seen in the quote from Bonnita. Other participants were told that their sex lives would never be the same again and that this is something they would just have to accept. Other participants, like Fatiema, were given information that was overly generalised and not based on the individual participants' needs and side effects. This emphasises the dire need for healthcare providers working in gynaecology to receive further training about discussing sexuality with patients.

The need for comprehensive support

At the end of each interview participants were asked what kind of support would have been most beneficial to them post treatment. The majority mentioned that they would have liked more detailed sexual well-being information from their healthcare providers. Participants also highlighted that this information could be delivered in a variety of ways, such as in person as well as with informational pamphlets. As is foregrounded in Roxy's quote, participants also want healthcare providers to be the first to broach the topic of sexual functioning. The second most common response was having a support group for gynaecological cancer survivors, and some participants mentioned more empathy from partners and going for individual counselling.

DISCUSSION

Sexuality within the context of gynaecological cancer has predominantly been thought of in limiting ways; however, the findings of this study broaden conceptualisations of sexuality post treatment and trouble dominant tropes of oncosexual research. The results of this study support previous literature which calls for a focus on the material, intrapsychic and discursive aspects of sexuality post gynaecological cancer.²⁴ It also expands this understanding of sexuality post gynaecological cancer by detailing the ways that it is complex, nuanced, relational and ever shifting.

Most women in this study experienced a change in their sexual functioning post treatment, but half of the participants also reported a significant disruption to their sexual lives *prior* to treatment due to severe symptoms. Women with late-stage gynaecological cancers often live with symptoms such as abdominal pain, heavy bleeding, unpleasant discharge and fatigue^{46 47} for an extended period and therefore their sexuality has been negatively impacted beyond the treatment and post treatment phases.²⁴ Limited literature is available on how gynaecological cancer symptoms disrupt sexual functioning before diagnosis and treatment. A few older studies have shown how these symptoms lead to negative changes in all aspects of women's sexual lives.^{10 48–51} However, it has been argued that treatment for gynaecological cancer has a greater negative effect on women's sexual functioning than the symptoms of the disease.⁴⁸ The results from the present study challenge this argument by highlighting that, for some women in South African, the symptoms prior to diagnosis are worse—or at least on par—with treatment side effects.

Other important findings were that not all women experienced a negative sexuality change post treatment, and many reported both pleasurable and difficult sexual experiences. Additionally, many women described a process of re-embodiment post treatment where they came to accept and celebrate their sexual identity. Williams' theory of embodiment and chronic illness⁵² suggests that the presence of illness disrupts 'normal' embodiment, and therefore persons make attempts at 're-embodiment' (p32) to make sense of the bodily changes brought about by chronic conditions. When investigating sexual subjectivities post cancer, Gilbert *et al*⁵³ found that some individuals took up a position of re-embodied sexual subjectivity that comprised acceptance, confidence and engaging in non-coital sexual activity. The dominant narrative around female sexuality post gynaecological cancer treatment in most research and clinical contexts is one of tragedy. The results of the present study trouble catastrophising narratives of sexual identity post treatment and create options for accessing sources of strength and resilience in the recovery process. Feelings of re-embodiment can also be used as a starting point for many women post gynaecological cancer treatment who want to reacquaint themselves with their postcancer body as part of a journey towards resuming their sexual lives.

Some women in this study explained how their partner's sexual (dys)function was a factor in their sexual rehabilitation. Partners are generally overlooked in research on sexuality after cancer,⁵⁴ but existing literature has shown that partners experience a decline in their own libido; fear initiating sex; struggle with regaining a 'normal' sex life; and feel unattractive and unwanted because of sex cessation.^{55–57} Limited research is available on how partners' sexual difficulties are a factor in sexuality post gynaecological cancer; however, Greimel *et al*⁵⁸ found that 12% of their participants were not able to have sexual intercourse post treatment because of their partners' health problems. An interview-based study with male partners of gynaecological cancer survivors⁵⁹ found that male partners also experienced sexual problems after treatment. As an explanation for this, Van De Wiel *et al*⁶⁰ suggest that the cancer diagnosis and its treatment are also a crisis for the male partner, which may lead to methods of coping which are signified by withdrawal and can lead to sexual functioning difficulties. However, it is worth noting that Ivory felt her partner's sexual difficulties due to diabetes had made him more empathetic about her sexual difficulties post treatment. Thus, partner comorbidity can be positioned as a catalyst for compassion, bonding and deeper intimacy.

Other participants mentioned how the state of the relationship before treatment either facilitated or hindered sexual intimacy post treatment. For example, pre-existing alcoholism, possessiveness, infidelity and verbal aggression made intimacy post treatment strained. Women who reported that they were generally happy in their relationships and felt supported pretreatment stated that they and their partners were still "going strong" post treatment. Maree *et al*⁶¹ found similar results in their qualitative study with South African women about partner support through their cervical cancer journey, in that the support experienced post treatment depended on the nature of the relationship prior to treatment. These findings highlight how cancer diagnosis, treatment and rehabilitation are a shared experience for women and their intimate partners,⁵⁵ and thus discussions around sexuality post treatment should focus on the implications for partnerships and not only the individual receiving the treatment. There is debate within the literature about which treatment modality has the greatest negative impact on sexual functioning,^{23 62–65} with some studies suggesting that radiotherapy leads to higher levels of sexual dysfunction than surgery or chemotherapy.^{20 66–69} Yet what this finding suggests is that sexuality post treatment is dependent on more than which treatment modality was used. Considering how intimate *relationships* have been affected by the cancer treatment allows for movement beyond problematising women's sexuality alone.

This study showed how heteronormative gender role expectations negatively impacted women's recovery post treatment and created space for male partners to be sexually violent. Research from the Global North has explored the ways in which heterosexual scripts interact with the

psychosexual recovery process post treatment.^{42 70–73} Findings from these studies highlight how the ‘coital imperative’⁷⁴ impacts couples’ ability to renegotiate sexual intimacy. The coital imperative constructs penetrative vaginal sex as the only ‘real sex’ and as a sign of ‘normal’, healthy relationships, and therefore those who fall outside of this discursive category are positioned as abnormal and dysfunctional.^{75 76} It follows then that women who cannot engage in intercourse post treatment begin to doubt their gender and sexual identity.

The same heterosexual scripts that emphasise the ‘coital imperative’ also make sexual violence post treatment possible. Research on sexual violence within the context of gynaecological cancer care is extremely limited. A few studies regarding the relationship between intimate partner violence (IPV) and cancer exist; however, their focus is largely about whether IPV creates greater risk for cancer among women.^{77–79} The focus of this research is about abuse in general, not sexual abuse, and most of the focus is on cervical cancer. Little attention is paid to whether gynaecological cancer can trigger the perpetration of sexual violence or how it might worsen existing sexual abuse. This issue demands further investigation in South Africa given the country’s high levels of sexual violence and cervical cancer.^{16 80}

Participants in this study stated that they wanted to receive support in the form of more sexual functioning information from their healthcare providers, as well as from support groups. Previous research affirms that people with cancer want healthcare providers to discuss sexuality issues such as when to resume sexual activity,⁸¹ appropriate sexual positioning or the use of sexual aids,⁸² and adjusting to sexual changes.⁷³ Healthcare providers can also give psychoeducation about the effects of gynaecological cancer and its treatments on sexuality throughout the cancer journey,⁸³ as well as help couples renegotiate their sexual intimacy by challenging heteronormative discourses of sexuality which stress the coital imperative.^{42 71 84 85} In this way, healthcare providers can play a vital role in patients’ psychosexual recovery. For, if a healthcare provider legitimises sexuality discussions within a clinical setting, it gives permission to individuals and couples to discuss this on their own.⁸⁶ This can create opportunities for conversations about sexual issues and potentially mitigate relationship tension and sexual violence.^{42 87} Healthcare providers working with patients with gynaecological cancer should endeavour to improve their knowledge about sexuality in the context of cancer by staying up to date with the relevant literature as well as attending workshops and conferences. Additionally, healthcare providers should be the first to broach the topic with their patients as patients want to receive more information about sexuality but often feel uncomfortable asking questions.

Other types of interventions that have been aimed at sexual functioning post gynaecological cancer include psychoeducational interventions,^{88–90} peer support interventions,^{91 92} vaginal dilators after pelvic radiotherapy,^{93 94}

specialist nurse-led interventions,^{90 95–98} reflection-based interventions⁹⁹ and internet-based interventions.¹⁰⁰ Systematic reviews show that solely information-based interventions do not provide long-term benefits to women with gynaecological cancer, but that counselling-based interventions are useful in improving quality of life factors.^{101 102} Other reviews have shown that interventions are most effective when they include information provision, cognitive-behavioural therapy, social support and counselling⁸⁸ and are led by specialist nurses.^{88 96} There is currently no research on such interventions within the South African public healthcare context. Thus, future research should focus on ascertaining what, if any, interventions exist in South Africa and, if not, what resources are available to create comprehensive support interventions post treatment and how these might fit into the existing healthcare system.

CONCLUSION

Research and clinical work need to make room for the complexities highlighted in these findings so that sexuality post treatment can be engaged with beyond biomedical assessments of (dys)function, performance and satisfaction. This research has expanded understandings of sexuality within the context of gynaecological cancer and problematised some taken-for-granted assumptions about sexuality post treatment. Researchers should explore how comprehensive sexuality education and sensitivity training can be better incorporated into healthcare providers’ training curriculums. Further research is required to understand how partners of women with gynaecological cancer experience and cope with the sexual changes post treatment, how the couple as a partnership negotiates changes post treatment, and the facilitators and barriers that healthcare providers experience regarding discussing sexuality issues with patients.

This study had several limitations. The study was cross-sectional in nature and therefore only captured women’s experiences of their sexuality at one moment in time post treatment and comments therefore cannot be made on how they experienced their sexuality over time. This study made use of a holistic framework of sexuality; however, this framework is not exhaustive and did not include sociocultural factors relating to sexuality. Given South Africa’s diverse sociocultural landscape, such an avenue of exploration would have been beneficial. The authors would also recommend adding a sociocultural component to the holistic framework. The sample of this study predominantly comprised older cisgender women in long-term relationships with men, and therefore this study could not explore the experiences of younger women, women who are not partnered, queer women and non-binary or transgender persons with cervixes and vulvas. Lastly, insufficient attention was paid to the ways in

which the different components of sexuality post gynaecological cancer treatment interact with each other.

It is hoped that this research will further scholarly and clinical work within this field in South Africa because all gynaecological cancer survivors and their partners should have the resources to create a sexual life that is pleasurable, consensual and fulfilling.

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