Consequences of gynecological cancer in patients and their partners from the sexual and psychological perspective

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Abstract

The diagnosis of gynecological cancer and the following consequences of the treatment radically change the lives of cancer patients and their partners. Women experience negative consequences in terms of sexual, psychological and social functioning. Surgical treatment may result in a decrease in sexual pleasure and pain during intercourse. Chemotherapy and radiotherapy can cause a loss of libido and negatively affect the capacity to experience pleasure or orgasm.

Treatment-related changes may include the occurrence of body image disorders, decreased quality of life as well as depressive and anxiety disorders among patients. Furthermore, a negative influence on the relationship between the affected women and their partners, as well as an adverse effect on the social activity, can be observed. Cancer is not an individual experience. It also affects partners of the sick women in terms of psychological and sexual functioning.

This article depicts possible problems encountered by cancer patients and their partners from the psychological and sexual perspective. The emphasis is put on understanding sexuality not only in the context of sexual performance, but also in a wider perspective.

Key words: oncology, psychology, gynecological cancer, sexuality, male partners.

Introduction

Treatment of gynecological cancer may be associated with negative consequences related to sexual, psychological, and social functioning both in women and their partners [1]. According to the World Health Organization (WHO), sexuality, together with sex, sexual identity, orientation, eroticism, pleasure, intimacy and reproduction, is one of the central aspects of human lives. Sexuality comprises thoughts, fantasies, attitudes, roles, behaviors, and desires. It depends on biological, psychological, social, cultural, historical and legal factors [2]. The sexuality of women is a complex process, including many different aspects [3], and can be analyzed in three different spheres: physical, psychological, and social [4]. The physical component refers to the capacity of experiencing sexual excitement and obtaining physical satisfaction. The psychological component applies to affective and cognitive processes preceding and appearing during sexual reactions. The social component pertains to the relation with the partner and the need to enter into an intimate relation. Cancer treatment and its consequences may induce physiological barriers and the following psychological difficulties, which may hinder sexual reactivation. In the psychological domain, some women may experience body image disorders, negative auto-judgmental thoughts, depression, and anxiety – all of which may aggravate sexual and social functioning. Also, partners of the affected women face problems with sexuality, intimacy, and psychological strain, resulting from the sense of distress, burden, and changes within the relationship.

Sexual and psychological functioning among women with gynecological cancer

Consequences of the treatment

The treatment of gynecological cancer is very often associated with the occurrence of poor sexual functioning [5], or even sexual dysfunctions (SD) [6]. Those difficulties can be caused by changes in the hormonal secretion levels or removal of the reproductive organs. Hysterectomy may be associated with loss of sexual pleasure as the uterus plays an integral role in sexual reactions. Ovarietomy decreases estrogen secretion and, in consequence, diminishes the level of lubrication in the vagina [7]. Vulvectomy changes the appearance and
functioning of the genitals. Pelvic surgery can damage the nerves. Chemotherapy causes the decrease in the libido, fatigue, and temporary or permanent menopause. It can also cause neuropathy of the clitoris, which affects the desire and sexual pleasure. Radiotherapy may damage the vaginal tissues, nerves or blood vessels [3]. It can also cause the following sexual problems: vaginal atrophy, vaginal stenosis, and loss of tissue flexibility [8].

Painful intercourse remains the most common sexual problem reported by cancer patients [9]. According to some authors, almost 70% of gynecological patients are at risk of dyspareunia associated with impaired vaginal elasticity [10]. Other problems include vaginal lubrication dysfunction, bleeding after coitus, decreased sexual activity due to fatigue, limited capability to achieve sexual arousal and orgasm, diminished sensitivity of sexual organs [11, 12], sense of numbness [13], fear that the intercourse would cause health injury or that the cancer might be sexually transmitted [14].

Psychological consequences

The treatment and its effect on sexual functioning cause psychological aftermaths in gynecological cancer patients. These consequences depend on the cancer type, timing of the diagnosis, and the applied treatment [15]. According to some authors, patient quality of life (QoL) remains unchanged in spite of the onerous therapy [16-18]. For example, in a study conducted by Jaruskowa [19], no differences were observed in sexual functioning of patients undergoing treatment for cervical and endometrial cancer in comparison to mild gynecological lesions and cancer patients before surgery. A study by Rowlands et al. [20] demonstrated that one-third of uterine cancer patients reported high sexual comfort within 3 to 5 years after surgery. It has to be noted that the highest scores were obtained by older women, who were less educated, had lower levels of depression at the time of diagnosis, and underwent only surgical treatment. However, another study revealed that even up to 80% of women diagnosed with gynecological cancer experience sexual dysfunctions [21].

Interest in sexual activity is connected with the treatment stage and well-being of the patient. At diagnosis, many women experience a complete loss of sexual drive. During the treatment, sexual activity remains low or rises, depending on the psycho-physical condition of the patient and the belief about the influence of sex on health. Notably, sexual life after treatment completion becomes a challenging issue for many women. Diminished sexual desire may lead to sexual abstinence and, in extreme cases, to sexual aversion [14], and in some women it may also cause distress. Lack of information about the treatment and its consequences leads to lack of understanding of the situation and intensifies the sense of tension among the patients [7]. Women who experience discomfort during the intercourse have a tendency to avoid sexual contacts if they cannot openly communicate the problem to their partners. A good relationship with the partner constitutes a succoring/supporting factor in the coping process [18]. Satisfaction from sexual life is not limited to the quality of sexual functioning defined as the number of intercourses with the partner. Satisfactory experiences are associated with the possibility of feeling intimate rather than having sex only.

A combination of different types of treatment promotes the occurrence of negative symptoms and reinforces adverse psychological consequences. There is strong evidence that cancer treatment is associated with negative consequences in many areas of patient life [14]. In case of gynecological patients, sexual dysfunctions, resulting from the treatment routine, may have a disruptive influence on their personal relations or the sense of sexual identity. In this sense, dysfunctions affect coping and QoL [22]. The most commonly reported problems include decreased interest in sexual life, and a negative shift in perceiving the body image and themselves as sexual beings [23]. Other issues mentioned in the literature are decreased QoL, satisfaction with the relationship, depression, and anxiety [8]. Women in the reproductive period who become infertile due to the treatment may perceive themselves as incomplete, insufficient, or worthless [14]. Those attitudes may be favored by the conviction that femininity corresponds to the ability to bear children [24]. Premature menopause may have a vastly negative impact on the interest in sexual activity and sexual functioning, causing vaginal dryness, hot flashes, insomnia, and emotional dysregulation [3]. Another reported problem is pain, which decreases sexual pleasure and impedes orgasm [7]. Sexual dysfunctions may be accompanied by anxiety relating to sexual activity [1, 14]. For example, in a study by Lindau et al. [25], one of the concerns reported by the patients was the level of their sexual performance in terms of feeling pleasure and having orgasms. Painful intercourse was interpreted as a signal of disease recurrence by some of them. Fear of pain may also influence a decision to avoid sexual contacts [26].

Treatment of gynecological cancer very often implies changes in the body appearance. Scarification or loss of organs commonly associated with the concept of femininity may provoke a distorted body image and the following sense of sadness and sufferance [14]. Body image has been defined as the picture of the body which is formed in the mind of an individual. Among other things, the term includes the sense of being feminine and attractive. Gynecological cancer patients report lower self-esteem and attractiveness, as well as feeling insecure about their sexuality [27]. Loss of organs like the uterus or the ovaries for many women has a symbolic meaning, depriving them of their femininity [28].
A study of Green *et al.* [29] showed that 41 patients who underwent the surgery reported changes in the body image and perceived themselves as inadequate, not meeting the common standards of beauty. In reference to their bodies, women may use negative descriptions, e.g. asymmetrical, incomplete, destroyed. In fact, body image and sexuality are often considered in terms of time perspective: before and after the surgery. The diagnosis and the subsequent treatment are the defining moments for the sexual functioning [30]. Self-schemas seem to play an important role in the process of coping [28]. Self-schemas are defined as a permanent and stable set of convictions, attitudes, experiences and generalizations about oneself. They also refer to sexuality, incorporate past experiences, and are expressed in the form of decisions, judgments, prejudice, and behaviors. Gynecological cancer patients with a negative sexual self-schema report a higher sexual dysfunction. It is assumed that those women are less open to different sexual experiences and have generally a negative attitude towards sex. As a result, they might be less interested in sexual activity or experimenting, and more ashamed with the changes of their bodies [13].

The consequences of cancer and its treatment may be associated with a diminished level of QoL [31, 32]. Reis *et al.* [14] conducted a study on 100 women assessing the level of their sexual functioning and its relation to QoL after treatment. Most women reported low to moderate levels of QoL. Low scores correlated with higher levels of anxiety and depression. According to Frumovitz *et al.* [33], also the type of the treatment influences the levels of well-being in gynecological cancer patients. Women with cervical cancer after hysterectomy had a higher level of QoL in comparison to those who underwent radiotherapy as well. The timing of the diagnosis also seems to be associated with the QoL level [12].

Similarly to other types of cancer [34], women with gynecological cancers suffer from depression and distress [35, 36], PTSD symptoms, anxiety [37], or even suicidal ideation [38]. Depressive and distress symptoms may be associated with the levels of sexual dysfunction [22]. Depression is one of the main reasons for a decreased libido. Problems in sexual life may also cause negative feelings like frustration, anger, sadness, and shame, further deteriorating a generally poor psychological condition [30].

**Social consequences**

Social consequences of cancer may manifest themselves in the area of the relationship with the partner and family, group functioning, and role taking. Some patients find it difficult to pick up the old roles which can slow down the process of social rehabilitation [39]. The symptoms, e.g. constant fatigue, edema, lack of comfort while sitting, losing control of urine, or nausea may also limit outdoor activity [40].

Changes caused by the treatment may bring about the fear of losing the partner or, in case of single women, not finding one [3]. Diminishing satisfaction with the relationship can be accompanied by lower QoL as well as higher levels of anxiety and depression in cancer patients and their partners [41]. Sexual dysfunction issues seem to be the most troubling for the patients, who may consider decreased sexual performance as a threat to their relationship [7]. The consequences of the treatment related to the alteration of body appearance are believed to be the reason for the absence of sexual interest in the partner [1]. Numerous cancer patients decide to distance themselves physically and emotionally from their partners in order to avoid being rejected [3]. Lack of communication concerning sexual issues may even deepen those feelings [28]. In a study of Juraskowa *et al.* [24], women described the difficulties of their partners to accept the diagnosis and the following lack of communication. Absence of speaking hinders the process of setting new rules of sexual functioning. For many women a satisfactory sexual relation does not necessarily include intercourse [28], but they fear that this type of arrangement would be unacceptable for their partners. Therefore, the interest of their partner in sexual activity can be considered by some of them as burdening and threatening [23]. Changes in sexual functioning of a couple demand a renegotiation of the old sexual life rules, which is not always easy for the partner, who may find it difficult to alter his role from a caregiver to a lover. Partners who provide intimate care to their sick spouses may find it challenging to perceive them as sexually attractive [42]. Furthermore, some of them may believe that their needs are secondary [43]. Problems in a relationship and sexual life may be associated with the lack of basic knowledge about cancer, treatment, and its consequences both in patients and their partners. It is considered a good practice to engage the partner as well during medical consultations [44].

**Consequences of gynecological cancer for the partners of the affected women**

Cancer is not an individual experience as it concerns the entire family [45]. Caring for a sick person is often accompanied by the feelings of burden and fatigue. Partners of cancer patients may experience comparable or even higher levels of distress in comparison to their sick spouses. Distress may be followed by elevated levels of depression and anxiety, together with low QoL. Feelings of loneliness, hopelessness, insecurity, life crisis [46], and resigning from their own needs [47] may occur. Mental problems may coincide with physical health issues [48, 49]. Partners are at risk of developing health complications in the absence of support and relation-
ship problems. Rohleder et al. [50] reported that a year after the initial diagnosis, the partners were diagnosed with malfunction of the neurohormonal and immunological systems. Their study confirms the results of yet another study [51], which reported that the morbidity rates in elder caregivers increased > 63% within 4 years since the diagnosis.

Studies concerning the psychosomatic condition of gynecological cancer patients are published randomly [52], and only a few have shown that QoL and sexual issues following cancer affect both the patients and their partners [43]. Unsatisfying relationship and sexual needs have been increasingly reported. Butow et al. [53] state that the most commonly unfulfilled needs of partners of ovarian cancer patients at the end of life were coping with emotions, fear of disease development, balancing between needs of the patient and their own needs, the influence of caregiving on their professional life, and feeling insecure about the future. Men can also experience contradictory feelings, e.g. concern about the health of the partner, a need for the initiation of sexual contacts and the accompanying sense of guilt, which can drive the partners apart and provoke conflicts [54].

Sexual concerns of the partners of gynecological cancer patients include decreased libido, feelings of being unwanted and unattractive, and fear of restarting sexual activity. Partners may also report feelings of sexual distress such as guilt, grief, or feeling lonely in the sexual relationship. Interestingly, much less sexual distress may be observed in couples which started their relation more recently rather than those in long-term relationships [55]. The study of Lalos et al. [56] reported that partners of cervical and endometrial cancer patients experienced a psychological crisis at the beginning of the treatment. After a year, the psychosomatic symptoms kept increasing, followed by interpersonal problems between the male partners and their relatives and friends. Also, the sexual life of the couple worsened. The men started experiencing sexual dysfunction concerning the sexual desire. Additionally, Andersen et al. [57] reported problems with erection. It is assumed that the loss of sexual satisfaction and libido is partially influenced by the sickness of the partner [58]. The fact that cancer has a negative effect on sexuality has been confirmed by Hawkins et al. [42], who reported that even up to 71% of the partners experience unfavorable changes in their sexual lives after the diagnosis. Abstinence from sexual activity is also associated with the decreased intimacy in the couple. Psychosexual healthcare needs concern both the patients and their partners, and all of them should have an easy access to sexual healthcare specialists [59-61], especially as different models of sexual healthcare for cancer patients are being constantly developed and prove to be efficient in helping the patients [62-64].

Conclusions

Gynecological cancer patients are at risk of developing sexual and psychological problems. It is believed that social support is a buffer against the occurrence of mental issues. Social support moderates the relation between cancer symptoms, treatment, and adaptation to the new situation. It can protect against depression or cancer-specific distress. Partners of cancer patients do not always have the skills to provide adequate support to their female partners. Numerous authors have demonstrated that the partners also require family or professional help. Unfortunately, communication between the couples and healthcare professionals is very unsatisfactory, possibly due to lack of knowledge and practice in providing information and support concerning sexual, relational, and emotional issues. Effective communication models between healthcare professionals, patients and their partners have been successfully developed. Unfortunately, there are few courses providing practical knowledge to medical students, doctors, nurses or other healthcare professionals in Poland. In light of the existence of a relationship between sexual dysfunctions and their psychological and social consequences in gynecological cancer patients and their partners, more attention should be paid to psychoeducation of the patients and their partners in daily clinical practice. The matter of educating healthcare professionals should be also taken under consideration.

Disclosure

Authors report no conflict of interest.

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