Depression and Anxiety in Ovarian Cancer

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Abstract
Patients with ovarian cancer have a poor prognosis and often undergo aggressive surgery and chemotherapy. In the long-term and exhausting treatment of the disease, unfortunately, the psychological distress of these patients can be overlooked. These patients may be prone to psychological disturbances such as sleep disturbance, pain, fatigue, anxiety and depression in their disease process. The purpose of this review is to draw attention to the psychological changes experienced by patients with ovarian cancer.

Keywords: Psychological changes; Gynecological cancer; Psychological distress

Introduction
Ovarian cancer is the most deadly gynecological cancer among the other gynecological cancer such as endometrial, cervical or vulvar cancer [1]. More than half of the patients with ovarian cancer die within five years after diagnosis. The life time risk of developing ovarian cancer is approximately 1/70, or 1.5% [1]. With an ageing population, the number of patients with ovarian cancer is increasing year on year [2].

When cancer is diagnosed in any woman, it is natural that the psychological condition is affected negatively. Moreover, patients in active treatment models of ovarian cancer have a high symptom burden. In fact, surgery, chemotherapy, and radiation contribute to symptoms that are more serious than the disease itself [3]. Psychological condition of the cancer patients is important, but the importance is neglected because of the aggressive treatment processes and the struggle to keep the patient alive. This issue is a relatively neglected area of research.

The purpose of this article, to draw attention to the psychological changes that these patients experience. We reviewed the studies which about psychological changes in patients with ovarian cancer in literature.

Depression and Anxiety
Depression and anxiety are psychiatric disorders that seriously affect the quality of life. The prevalence rates of anxiety and depression reported 14% - 56% in patients with cancer [4,5]. The evaluation and management of psychological distress in patients with ovarian cancer is not well reported [6].

In a prospective cohort study, Price et al. [7] evaluated 798 women with ovarian cancer and founded clinical depression rates were 5.9% and reported that depression is significantly more common in women with ovarian cancer than in the general population.

In a study evaluating psychological distress and quality of life in patients with ovarian cancer; Bodurka et al. [8] Reported depression and anxiety rates were 21% and 29%.

Norton et al reported in their study that psychological distress rate was 50% among women with ovarian cancer [9].

In a meta analysis, Watts et al evaluated 3623 patients with ovarian cancer and reported that the prevalence of depression and anxiety in women with ovarian cancer was significantly greater than in the healthy female population [10]. The rate of depression was highest in the pre-treatment period and decreased in post-treatment according to their meta analysis. Authors founded the depression prevalence rates were 25%, 22%, and 12% in identified pretreatment, on-treatment and post-treatment periods. However, pretreatment, on-treatment and post-treatment anxiety prevalence were founded 19%, 26% and 27%. According to the meta-analysis, despite the depression rate decrease anxiety is increasing over time.

Hipkins et al. [11] evaluated levels of anxiety and depression in patients with ovarian cancer during the 3 month period following the end of chemotherapy treatment. At the completion of chemotherapy, they founded the anxiety rate was 38% and depression rate was 33%. At 3 months follow-up, rates were 19% and 47% for depression and anxiety. It seems a significant reduction in cases of depression but an increase in cases of anxiety in post-treatment period in the study in the study as
well as in meta analysis of Watts et al. In a systematic review, Arden-Close et al reported that the rewash strong evidence for a relationship between younger age, being diagnosed with more advanced disease, more physical symptoms and shorter time since diagnosis with increased levels of anxiety and/or depression [6].

There are interesting findings about the relationship between immune system and psychological condition in patients with ovarian cancer. Costanzo et al. [12] founded in their study that poorer health-related quality of life was associated with higher levels of interleukin-6 in peripheral blood among women with ovarian cancer. Authors asserted interleukin-6 may be an independent marker of health-related quality of life among ovarian cancer patients.

Elevated interleukin-6 serum levels correlate with a poor prognosis in patients with ovarian cancer [13]. Similarly, Lutgendorf et al. [14] demonstrated significant relationships between interleukin-6, cortisol, and depression.

Depression or other psychological distress can affect the treatment processor survival of cancer disease negatively. Freyer et al. [15] in their study demonstrated symptoms of depression was independent prognostic factor for severe chemotherapy toxicity in elderly patients (>70 years) with ovarian carcinoma. Likewise, depression was poor prognostic factors for overall survival in these patients.

Sleep Disturbance

Sleep disturbance is common and persistent in women with ovarian cancer [16,17]. Cleverenger et al published that prior to surgery, 70.7% of patients with ovarian cancer reported sleep quality disturbance [16]. Australian Ovarian Cancer Study Group published 27% of 772 women with ovarian cancer reported sub-clinical symptoms of insomnia and 17% reported clinically significant insomnia.

Pain and Fatigue

About ninety percent of cancer patients suffer pain and fatigue in the course of their illness [18]. Fatigue is common particularly during treatment [19]. Almost all patients with cancer are affected by fatigue and pain as factors affecting quality of life.

Conclusion

Patients with ovarian cancer be exposed to intensive treatment proceeds and have more psychological distress such as sleep disturbance, pain, fatigue, anxiety, or depression than the general population. Especially in the early stages of cancer diagnosis, the risk of depression that can disrupt the treatment plan and adversely affect survival should be considered.

References
