

عنوان مقاله:

Cryopreservation of ovarian tissue for fertility preservation in young female with breast cancer

محل انتشار:

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خلاصه مقاله:

Introduction: Increasing survival rates in young breast cancer patients, new reproductive techniques and the growing interest in quality of life after gonadotoxic cancer therapies have placed fertility preservation as an important issue to oncologists , fertility specialists and patients. Girls and women suffering from breast cancer that requires treatment with gonadotoxic drugs may experience cessation of reproductive function as a side effect. The potentially effective method of reproductive function protection, is ovarian tissue cryopreservation. This paper summarizes the medical and scientific knowledge in this medical field an also consider the risk of re-introducing of malignancy when transplanting ovarian tissue. Material and methods : To present this article , researcher , was searched google scholar, BMC journal, Pubmed, Cochrane library, and Uptodate sites with using breast cancer, autotransplantation, fertility preservation and ovarian tissue as key words. The result contains 46 articles and 9 articles were selected and their data was used to writing present article. Findings: A modern and potentially effective method of reproductive function protection is ovarian tissue cryopreservation. Ovarian tissue can be extracted by laparoscopy without any significant delay of chemotherapy. It can be cryopreserved and transplanted in case the women experience premature ovarian failure. It may be the only acceptable method for any prepubertal or premenarchal female patients receiving chemotherapy or pelvic radiotherapy when the chemotherapy has to be initiated immediately or when stimulation is contraindicated. Transplanted tissue supports survival and growth of follicles, giving rise to menstrual cycles and hormone production for several years. It is an easy, fast, and inexpensive technique. Worldwide, the procedure has resulted in birth of healthy children. Systematic reviews show that no metastases were detected in ovarian tissue from breast cancer patients who had their ovarian tissue cryopreserved. Conclusions: At present, cryopreservation of ovarian tissue appears a very promising method of providing the cancer patient with a realistic chance of fertility preservation.

کلمات کلیدی:

Breast cancer, autotransplantation, fertility preservation, ovarian tissue

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