In Gynecologic (Malignancies) cancers, the Current and Future role of **Genetic Screening**

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Abstract

MThe field of genetic testing is continuously evolving. With the introduction of increasingly powerful genetic mutation panels, it is critical that women's healthcare practitioners consider proper referral and testing for those women who are at higher risk of cancer. In recent years, the world of hereditary cancers has grown at an exponential rate. While hereditary breast and ovarian cancer, as well as Lynch syndrome, account for the majority of mutations encountered by gynaecologists, new harmful genetic variants and their associated cancer risks continue to be discovered. These advancements in genetic cancer predispositions, on the other hand, force practitioners and their patients

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1. Introduction

testing that have happened in the previous two years, especially endometriosis, fibroids, ovarian cancer, pelvic lumps, uterine with the introduction of new panels screening for genetic cancer, vaginal cancer, and vulvar cancer are only a few of them. oncologic mutations and as first-line doctors for women. Genetic testing can help you or a family member receive better Women having a strong family history of gynecologic cancers, medical treatment in a variety of situations. Hereditary testing, such as ovarian or endometrial cancer, and a personal history for example, can provide a diagnosis for a genetic disorder of breast, ovarian, or endometrial cancer should undergo panel like Fragile X syndrome or information about your cancer risk testing, according to researchers many firms now offer genetic [3]. There are numerous types of genetic tests. The practise of panels that test for a variety of genes that have only recently testing a population for a genetic condition in order to identify a been linked to gynecologic and breast cancers since Myriad subgroup of people who have the disease or have the potential to Genetics lost its patent on the BRCA genes [1]. Even five years pass it on to their offspring is known as genetic screening. Genes ago, it was considered that ovarian cancer was only linked to can also enhance a family's risk of developing certain diseases. a detrimental germline mutation in a small number of cases. Habits, diet, and the environment are also shared by families. In some countries, ovarian cancer is the second most frequent These factors have an impact on our long-term health [4]. Your gynecologic malignancy. Ovarian cancer kills more women family knows a lot about you, including what makes you sick. than any other female reproductive system malignancy. Womb, It gives data that can aid in the advancement of treatments, the ovarian, cervical, vulval, and vaginal cancers are the five types creation of management strategies, and the guidance of family of gynaecological malignancies, although knowledge of these planning. Genetic testing should be made mandatory because of tumours is quite poor. Early indications of gynecologic cancer its ability to improve individual health in adults and children, as might be detected with regular visits to your gynaecologist [2]. well as the significant impact it has on the effort to make the Your doctor will examine for lumps and irregularities on the cervix, population healthier. So, how can women's health professionals uterus, ovaries, vagina, and vulva during your pelvic exam. The keep track of these novel germline mutations? In a suspected

to confront the uncertainties of these less commonly identified mutations, as well as the fact that there is limited evidence to guide them in estimating cancer risk and implementing appropriate risk-reduction strategies. Given the rapid pace of information, cancer genetics experts must be consulted when advising these individuals. Furthermore, if accessible, coordinating screening and care with speciality high-risk clinics allows patients to have centralised management for numerous cancer risks under the supervision of clinicians who have experience advising these patients.

Keywords

Gynecologic, Healthcare, Cancer risks

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test. Gynecologic oncologists use a multidisciplinary approach to diagnose and treat malignant and benign (noncancerous) Gynecologists must be aware of the developments in genetic disorders of the female reproductive system. Cervical cancer, existence of cancer cells on the cervix will be determined by a Pap patient, the most important component of patient treatment is to to one of various practitioners, depending on the individual's new changes in order to keep up with new findings. needs. It is more acceptable to recommend patients for genetic counselling and appropriate testing if you have access to a References cancer genetic counsellor, because genetic counsellors are more up-to-date on what to test for and how to counsel patients. The absence of clear information on the relevance of genetic testing is one of the most significant barriers to genetic testing [5]. Panel testing is a viable option if you don't have access to genetic counsellors. However, before making therapy suggestions, it's a good idea to get some advice on how to counsel patients on how to interpret test results. A surgical oncologist can provide better advice on breast cancer methods, while a gynecologic oncologist 3. Palles C, Cazier JB, Howarth KM, Domingo E, Jones can provide better advice on gynecologic techniques. Even if a woman's gene panel is positive, removing her ovaries and tubes before she has children is generally not in her best interests. This necessitates careful counselling and screening suggestions. However, depending on the mutation detected, greater screening for both breast and ovarian cancer may be appropriate.

2. Conclusion

The world of cancer-related mutations has altered considerably in recent years, and it is expected to continue to do so in the future. It is critical to maintain a relationship with a genetic counsellor

acquire a thorough family history and make appropriate referrals and a gynecologic oncologist who can assist sort through these

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