Molecular analysis of BRCA1 and BRCA2 Genes among Iranian women being at risk of hereditary breast cancer

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Breast cancer is the most common type of cancer among women. In families afflicted with hereditary breast and ovarian cancer, genetic analysis provides opportunities to prevent recurrence of the disease. We established a diagnostical strategy for determining BRCA1 and BRCA2 (BRCA1/2) gene mutations which have been believed to be the most common cause of hereditary breast and ovarian cancer. Our diagnostical strategy consists of scanning for various mutations of BRCA1/2 genes using DNA sequencing for all of the exons and their flanking regions.

When a vandal mutation presents in BRCA1/2 gene, the risk of developing breast and/or ovarian cancer will increase and the doctor, who referred sample to us, will be informed to decide on preventive strategies.

Keywords:
BRCA1, BRCA2, Mutation, Sequencing

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