

Mutation detection in exons 3,10 ,12 of BRCA1 gene

in 30 patients affected with familial breast cancer

H.Teimori * (M.Sc) , P .Mehdipour (Ph.D) , M Atri (M .D) , M.R.Mirzai (M.Sc)

Department of genetic , Gorgan University of Medical Sciences. *

Abstract

Breast cancer is one of the most common cause of death due to cancer in woman. More than half of hereditary breast / ovarian cancer families could be attributed to mutation in breast cancer susceptibility gene BRCA1 . This study was performed on blood samples of 30 women who affected with familial breast cancer. Non- radioactive PCR-SSPC technique was utilized for mutation screening in exons 3,10, 12 of BRCA1 gene . Two shifts in exon 3 and also two in exon 12 was detected, but no shift in axon 10 was found .Due to low number of recognized mutations, the statistical analysis didn't show a meaningful correlation between mutations and pathological characteristics . Results from this study showed that there was a low possibility of germline mutation in these three exons . Low rate of mutation in this report was concordance with the others

Breast cancer , mutation , BRCA1 , PCR-SSCP Key words: