Evaluation of CYP2D6*4, *5,*3 polymorphisms on the Tamoxifen Pharmacokinetics in Breast Cancer Patients, mazandaran, Iran

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Abstract:
This study aimed to evaluate the polymorphisms of CYP2D6 gene in breast cancer patients in Mazandaran province, Iran. A total of 100 breast cancer patients and 100 healthy controls were recruited. The CYP2D6 genotypes were determined using polymerase chain reaction and restriction fragment length polymorphism. The results showed a significant difference in the distribution of CYP2D6 genotypes between the two groups. The frequency of the mutant allele in the breast cancer group was higher than in the control group. The study findings suggest that the CYP2D6 polymorphisms may play a role in the development and progression of breast cancer.