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of	
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Q Keywords	
Authors	<u>Abstract:</u> Polymorphisms in the genes encoding cytochrome p450 (CYP) and thiopurine S-methyl transferase (TPMT) enzymes catalyze the metabolic reactions of several drugs. These polymorphisms might be responsible for adverse drug reactions. Turkish population data for these genes still needs to be elucidated. We aimed to detect the allele frequencies of thiopurine S-methyl transferase (TPMT), cytochrome p4503A4*1B (CYP3A4*1B) and cytochrome p4503A4*3 (CYP3A5*3) gene variants in the
@	Turkish population. We examined the TPMT (*1, *2, *3A, *3C), CYP3A4*1B and CYP3A5*3 variant allele frequencies in a group of healthy Turkish Caucasian blood donors by using PCR-RFLP, allele-specific
medsci@tubitak.gov.tr	PCR and direct sequencing techniques. The frequencies of four allelelic variants of TPMT gene, are *2 (238G>C)(2.0%), *3A (460G>A and 719A>G)(1.0%), *3B (460G>A)(0.0%) and *3C (719A>G) (1.4%). We observed CYP3A4*1B allele frequency in 1.4% and CYP3A5*3 allele frequency in 7.5% of our
Scientific Journals Home Page	population. This study provides the first analysis of TPMT, CYP3A4*1B and CYP3A5*3 mutant allele frequencies in the Turkish population.
	Key Words: pharmacogenetics, TPMT, CYP3A4, CYP3A5
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