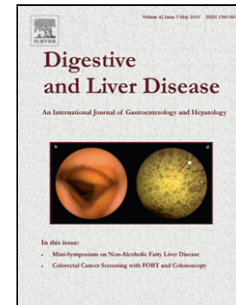


## Accepted Manuscript

Title: Frequency of Thiopurine Methyltransferase mutation in patients of Mediterranean area with inflammatory bowel disease and autoimmune disorders

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**TITLE:** Frequency of Thiopurine Methyltransferase mutation in patients of Mediterranean area with inflammatory bowel disease and autoimmune disorders

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**ABSTRACT**

**Background and aims:** Few studies exist on the frequency of thiopurine methyltransferase (TPMT) mutation in patients from Southern Europe. We aimed to evaluate the frequency of TPMT mutation in a homogeneous Sicilian cohort of patients with inflammatory bowel disease (IBD), autoimmune and hematological disorders, the rate of thiopurine-related adverse events, and its association with the TPMT genotype.

**Results:** Among 105 patients with IBD, 45 with autoimmune disease, and 34 with hematologic diseases, the homozygous TPMT variant genotype was found in one patient only (0.5%), while the heterozygous TPMT genotype was identified in 8 patients (4.3%). In patients with IBD, leukopenia was observed in ten patients: one had the homozygous

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