

DISTRIBUTION OF ABO AND RH (D) ALLELE FREQUENCY AMONG ASTHMATIC PATIENTS

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ABSTRACT

The present study was undertaken to investigate the association of ABO and Rh (D) allele frequency with asthma. A total of 180 subjects (120 asthmatics and 60 controls) were analyzed for ABO and Rh (D) blood typing. Blood group O (42.5%) was found to be more frequent in asthmatics as compared to controls (15%). Allele frequency of O was highest in asthmatics (0.652) followed by B (0.247) and A (0.101). Chi-square value for ABO blood group was significant ($p < 0.05$) in case of asthmatics while non-significant ($p > 0.05$) in controls. In both asthmatics as well as healthy subjects Rh (D)⁺ phenotype was more abundant (87.5% and 88.33% respectively) than Rh (D)⁻ phenotype. D allele was more frequent in both the groups (0.647 in asthmatics and 0.658 in controls).

KEYWORDS: Asthma, ABO Blood Group, Allele Frequency