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## **ABSTRACT**

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Dengue and Typhoid fever are among the most prevalent diseases worldwide. The most important mosquito borne diseases in the world is dengue viral infections. People that are living mainly in cities are affected by this disease. There are about 2.5 to 3 billion people are affected living in tropical and subtropical regions. In many low- and middle-income countries, typhoid fever remains a major threat. This study was undertaken to investigate that which blood group is most affected by dengue and typhoid fever using ABO blood group and Rh factor. For study, data of dengue and typhoid fever was collected directly from the patients of Government hospital and their staff. A questionnaire was designed to record the relevant information of the patients including gender age, marital status, education, occupation, blood group and Rh factor. Data were analyzed using SPSS version 22.0. Official permission letter was also taken from Government College University, Lahore. A total of 266 patients' data of dengue fever and 235 patients' data of typhoid fever were included in this study. The most frequent ABO blood group for dengue patients was group B (105, 39.4%) followed by group A (68, 25.5%) of the study subjects. Blood group O accounts (66, 24.8%) and blood group AB accounts (27, 10.1%). While for Typhoid patients, the most frequent ABO blood group system was blood group B (77, 32.7%) and blood group O (77, 32.7%). Blood groups B for dengue patients and for typhoid patient blood group B and O are in higher proportion than the other. Although, there was variation in the prevalence of dengue and typhoid fever between different blood groups but statistically association was not significant.