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Distribution of ABO and Rh Blood Groups among Blood Donors in Jiblah University Hospital, Yemen: A Retrospective Study

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Background: The ABO and Rhesus (Rh) blood group system are the most important blood group systems in Transfusion Medicine, genetic studies and in legal medicine study. The distribution of the ABO and Rhesus blood groups is vital for the effective operation and planning of blood banks and secure blood transfusion services. Objective: To determine the distribution of ABO Rh blood groups among blood donors in Jiblah University Hospital in Ibb province, Yemen.

Methods: A retrospective study was conducted at Blood bank of Jiblah university hospital in Ibb city, Yemen from January 2021 to August 2023. Blood groups typing of 4853 blood donors was carried out using Slide Agglutination (antigenantibody) method with antisera anti-A, anti-B, and anti-D. Age and sex of participants were considered. SPSS version 20 was used for data analysis.

Results: The most common blood group was O (55.54%)

and AB was the least common (1.71%). The prevalence of Rhpositive and Rh-negative was 80% and 20% respectively. There were statistically significant association between ABO blood groups and Rh blood group ($P = 0.000$).

Conclusion: The overall phenotypic frequencies of ABO blood groups were O>A>B>AB and O+>A+>O->B+>A->AB+>B->AB- was found to be the order of blood group frequency in the current study. There was a statistical association between ABO blood group system and Rh system.

Biography

Sadeq Kaid Al-Mohani is a renowned professional based in Yemen with expertise in medical research and healthcare. He has contributed extensively to studies in transfusion medicine and blood group distribution. Dr. Al-Mohani holds significant experience in clinical research and data analysis. He is dedicated to advancing healthcare practices in Yemen, particularly in areas related to blood transfusion and diagnostics.