

ABO and Rh Blood Groups Among Sindhis of Jabalpur, Madhya Pradesh

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INTRODUCTION

In the present paper an attempt has been made to study the distribution of the ABO and Rh blood groups in Sindhi population of Jabalpur who were migrated from Sindh area, (now in Pakistan). Their main occupation is business.

MATERIAL AND METHODS

506 blood samples are collected in EDTA vials from different Sindhi residing areas of Jabalpur city. All samples are tested for the ABO and Rh blood groups using anti – A, anti – B and anti – D sera. Gene frequencies are calculated by the Bernstein's improved formula (Mourant et al., 1976).

RESULTS AND DISCUSSION

The distribution of the ABO and Rh blood groups among the Sindhi population of Jabalpur is shown in the table 1. Blood group B predominates in distribution with the highest

frequency (48.0%) followed by blood group O (32.2%) and blood group A (10.3%). The frequency of allele B is quite high (33.25%) as compared to A (8.33%). The frequency of Rh-negative is 3.2% ($d = 0.179$).

The present population is compared with population groups of North India and Pakistan (Bhasin et al., 1992) and differences are observed for the distribution of ABO due to the presence of low frequency of allele A (8.33%). Whereas in Rhesus blood group allele d is present in almost similar frequency as observed in this region.

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KEYWORDS Blood Groups. Variation. Sindhi

ABSTRACT The present paper reports the distribution of the ABO and Rh blood groups among the Sindhi population of Jabalpur. Allele frequency of A is observed quite low (8.33%). The frequency of Rh negative is 3.2%. Sindhi population shows differences with population groups of North India and Pakistan.

REFERENCES

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Table 1: Distribution of the ABO and Rh blood groups and their allele frequencies among Sindhi population of Jabalpur

Blood group	No.	%	Allele frequencies
<i>ABO Blood Groups</i>			
A	52	10.3	A=0.0833
B	243	48.0	B=0.3325
O	163	32.2	O=0.5841
AB	48	9.5	
<i>Rhesus Blood Groups</i>			
Rh +ve	490	96.8	D=0.821
Rh -ve	16	3.2	d =0.179

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