

Blood Groups Among the Khasa Rajputs of Jaunsar-Bawar, Uttar Pradesh

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KEY WORDS Himalaya, Scheduled Tribe, Genetic Marker, Variation.

ABSTRACT The present paper reports the distribution of ABO and Rh (D) blood groups among the Khasas (Rajputs) - a scheduled tribe of Jaunsar Bawar area of Uttar Pradesh in Dehradun district. The observed allele frequencies at the ABO locus are : 0.2653 for A, 0.2613 for B and 0.4734 for O. No Rh(D) negative subject was detected.

INTRODUCTION

The area of Jaunsar-Bawar is in the Cis-Himalayas, located at the north-western corner of state of Uttar Pradesh and forms the northern half of the Dehradun district. The Khasas (Rajputs) of Jaunsar-Bawar is a scheduled tribal population. In the present study an attempt has been made to study the distribution of ABO and Rhesus blood groups among them.

MATERIALS AND METHODS

Blood samples from 175 unrelated Khasa Rajputs were collected from Thana, Duina, Bisoi, Lachha and Nagthat villages of Chakrata tehsil of Dehradun district. The samples were analysed for the ABO and Rh(D) blood groups using standard antisera with adequate controls. The gene frequencies were calculated after Mourant et al. (1976).

RESULTS AND DISCUSSION

Distribution of the ABO blood groups among the Khasa Rajputs is presented in table 1. The

frequencies of A and B blood groups are similar 30.9% and 30.3%, respectively, followed by the frequency of O blood group (23.4%) and AB blood group (15.4%). Though the trend in the

Table 1: ABO blood groups among the Khasa Rajputs

Phenotype	Observed		Expected	Allele frequencies
	No.	%		
O	41	23.4%	39.22	A = 0.2653
A	54	30.9%	56.28	B = 0.2613
B	53	30.3%	55.24	O = 0.4734
AB	27	15.4%	24.26	
Total	175	100.0	175.00	

$$\chi^2_{(1)} = 0.574$$

Table 2: Rh(D) blood groups among Khasa Rajputs

Phenotypes	Number observed	Allele frequencies
Rh (+ ve)	175	D = 1.0000
Rh (-ve)	0	d = 0.0000

Central and western Himalayn region is for the higher frequency of allele B than A.

The distribution of the Rh(D) blood groups (Table 2) shows that RhD (-ve) phenotype is absent among the Khasa Rajputs.

REFERENCES

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