

Blood Groups Among the Bhoksa of Vikasnagar Block of Dehradun, Uttaranchal

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INTRODUCTION

Blood group offers us to study the genetic variations among various populations. Hence, this valuable tool is employed by biologist, geneticist, anthropologist and human biologist on humans to evaluate the ethnic variation and affiliations between different populations. In the present study an attempt has been made to study the distribution of ABO and Rhesus blood group among the Bhoksas of vikasnagar block of Dehradun district, Uttaranchal.

MATERIALS AND METHODS

Blood samples from 213 unrelated Bhoksas were collected from Sherpur, Tipparpur and sabawala villages of vikasnagar block of Dehradun district. The samples were analyzed for the ABO and Rh (D) blood groups using standard antisera with adequate controls (Bhasin and Chahal, 1996). The gene frequencies were calculated after Mourant et al. (1976).

RESULTS AND DISCUSSION

Distribution of the ABO and Rh (D) blood groups among the Bhoksas in presented in table 1. The phenotypic frequency of O blood group (35.21%) is found maximum followed by phenotypic frequencies of A (33.80%), B (23.0%)

and AB (7.98%) blood groups similarly the phenotypic frequencies of Rh (D) positive and Rh (D) negative are (96.71%) and (3.28%) respectively. The *A*, *B*, *O* alleles frequencies were observed in *O>A>B* pattern. Though the trend in the central and western Himalayan region is The frequency of is quit low. For the higher frequency of allele *B* than *A*. (Mourant et al., 1976; Tills et al., 1983; Mandal, 1992; Choudhary and Malik, 1997) Bhasin et al., 1992; and same is true for the Rh (D)-ive blood group incidence.

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Table1: Shows Distribution of ABO and Rh (D) Blood groups and their allele frequencies among the Bhoksa.

<i>Blood Groups</i>	<i>Absolute Number</i>	<i>Percent</i>	<i>Allele Frequencies</i>
<i>ABO Blood Groups</i>			
O	75	35.21	<i>A</i> =0.2371 <i>B</i> =0.1693 <i>O</i> =0.5936
A	72	33.80	
B	49	23.00	
AB	17	7.98	
<i>Rhesus Blood Groups</i>			
Rh (+ive)	206	96.71	<i>D</i> =0.8189
Rh (-ive)	7	3.28	<i>d</i> =00.1811

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