

Frequency distribution of ABO and Rh blood groups among blood donors

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Setting

- Jamila Sultana Foundation, 6th Road Rawalpindi
- 420 registered patients
- Services
 - Planned blood transfusion
 - Chelation therapy
 - Screening
 - Prenatal diagnosis

Objective

The objective of this study was to document the local frequency of blood groups.

- Duration 2006 – 2008(two year three months)
- Total patients 4427
 - Males 3520(79.5%)
 - Females 907(20.5%)

The donors

College and university students	2754
NGOs and private firms	474
Industrial workers	446
Madrassa students	335
Walk in's	360
Govt employees	57

Results

ABO Blood group	No of patients	%age
O positive	1314	29.8
O negative	109	2.5
A positive	954	21.5
A negative	81	1.8
B positive	1377	31.2
B negative	128	2.8
AB positive	435	9.8
AB negative	28	0.6

Results

Rh group	No of patients	%age
Positive	4082	92.2
Negative	345	7.8

~~Frequency Distribution of Blood~~

Groups a comparison

Blood Group	Pakistan <i>Our study</i>	Pakistan Rehman & Iodhi	US Caucasians	US African Americans	Western Europeans	Nigeria
O	32.3	30.5	47	46	46	50
A	23.3	22.6	41	27	42	22.9
B	34.0	32.4	9	20	9	21.3
AB	10.4	8.5	3	7	3	5.9
Rh Positive	92.2	93.9				94

Conclusion

- Among healthy volunteers most common blood group is B positive(31.2%) followed by O positive(29.8%)
- Least common group is AB negative(0.6%)
- 92.2 % of people are Rh positive