

RESEARCH ARTICLE

Dust allergy in accordance to blood groupingMuhammad Imran Qadir¹, Maryam Saba*¹*Institute of Molecular Biology and Biotechnology, Bahauddin Zakariya University, Multan, Pakistan***Received on: 15/03/2018, Revised on: 20/04/2018, Accepted on: 10/06/2018****ABSTRACT**

Objective of the present study was correlate blood grouping with dust allergy. we determined our blood group in the lab with the help of anti A, B and D, and other students also checked their blood groups and all these students marked my question according to their blood groups. Number of students are 177. we went to the lab and determined our blood group with the help of anti A, B and D. A questionnaire was prepared about dust allergy in accordance to blood grouping that maximum people have dust allergy. It is concluded from this preserved study that the students which have dust allergy are with blood group B+.

Key words: ABO blood system, dust allergy**INTRODUCTION**

A blood group is that antibodies and the substances which are inherited are present or absent. These antigens depend upon the blood group. Red blood cells have antigens on its surface. There are four main blood groups. These are ABO system and Rh blood system. The ABO blood group system is coded by ABO gene. All the four blood types are determined by antigens. People with AB positive and AB negative have special need of AB plasma. O blood type have neither A or B antigen. The people with blood group A are 1 in 3 but the people with blood group A negative are only 6.3% population [1]

Rh blood group system is somehow known as human blood group system. Rh blood group system is a type of protein and it only refers to the antigen D. This protein is inherited. Blood with protein is Rh + and blood without protein is Rh - [2]

Dust allergy is the allergy whose main cause is dust of house. Dust mites are present in this type of dust, who eats dead skin. These can cause huge problems to people with allergy. These dust mites are microscopic. Dust mites are not parasites, these only eat dead tissues. The symptoms of dust allergy are red eye, runny nose stuffiness, watery eyes, sneezing and cough. Dust mites cause allergy in two ways. First one is through their waste and second one is their body part. There are many effects on people in which difficulty in breathing, signs of asthma and wheezing are common. There are some natural remedies for

dust allergy, these are; Remove wall-to-wall carpets, curtains, and drapes particularly in the bedrooms. Keep pets out of the bedroom and minimize household humidity. In this way, dust allergy can be controlled.

Objective of the present study was correlate blood grouping with dust allergy

MATERIAL AND METHODS

Total 177 subjects participated in this project. Those all were the students of BZU and the age of those students were between 18_20.

Blood Grouping

I went to the lab and we pricked a needle in my finger. I put three drops of blood on the slide. Then I put Anti A on one blood drop, Anti B on second blood drop and Anti D on third blood drop. In this way, I found that my blood group is B +. After that other students answered my question according to their blood group.

Project

A questionnaire was prepared about dust allergy.

Statistical Analysis

Statistical analysis were performed by using MS word

RESULTS AND DISCUSSION

Dust allergy in accordance to blood grouping is given in table 1. In this there are 23 students with blood group A +, 2 with A -, 41 with B +, 4 with B -, 5 with AB +, 1 with AB -, 30 with O + and 8

with O - have dust allergy. And the students which don't have dust allergy are 9 with A +, 19 with B+, 1 with B -, 6 with AB+, 26 with O+ and 2 with O- out of 177.

Table # 1: Dust allergy in accordance to blood grouping

Blood groups	(YES)	(YES)	(NO)	(NO)
	Male	Female	Male	Female
A+	34.37%	37.5%	3.12%	18.75%
A-	50%	50%	0%	0%
B+	8.33%	66.66%	6.66%	25%
B-	40%	40%	0%	20%
AB+	18.18%	27.27%	9.09%	36.36%
AB-	0%	100%	0%	0%
O+	17.85%	6%	12.5%	33.92%
O-	0%	80%	0%	20%

Questionnaire based studies have been given important in current researches [3-10].

In this study population blood group B being the most common is at high risk level for developing allergies. Blood groups A and O were found to have nearly same level of allergies while blood group AB being the most protected one. This statistically significant association of various blood groups with allergy development could help in identifying people at risk as an aid to preventive measures.

CONCLUSION

It was concluded from the preserved study that B + have maximum dust allergy and O+ have minimum dust allergy.

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