

RESEARCH ARTICLE

Affiliation of blood grouping with fear of rides

Muhammad Imran Qadir, Alishba Rasheed*

Department of Biology, Institute of Molecular Biology and Biotechnology, Bahauddin Zakariya University, Multan, Pakistan

Received on: 18 November 2018; Revised: 18 December 2018; Accepted on: 04 February 2019

ABSTRACT

The objective of the current study was to correlate blood grouping with fear of rides (dragon boat). A survey was done. Blood groups of the subjects were recognized first. Blood Groups A, B, and O are due to the presence or absence of certain antigens on the erythrocytes. On the other hand, Rh⁺ is due to the presence of antigen D and its absence causes Rh⁻ blood group.

Keywords: Blood groups, Coaster phobia erythrocytes, Antigens

INTRODUCTION

ABO blood group was proposed by Landsteiner, in 1931. These are due to inherited properties of erythrocytes. Blood Groups A, B, and O are due to the presence of certain types of specialized antigens on erythrocytes. ABO blood group incompatibility may cause erythroblastosis fetalis. The presence of the antigens A and B causes blood Group A and B, their absence causes blood Group O. In human blood transfusions, ABO blood group plays an important role. Mismatch blood transfusion may prove fatal.^[1,2]

Rh blood group is the second most important blood group of 31 known blood groups still known. They may be Rh⁺ or Rh⁻. Rh⁺ is due to the presence of D-antigen while its absence causes Rh⁻ blood group. It was first observed by Landsteiner in rhesus monkey, but in humans, Rh factor is much different from the rhesus monkeys Rh factor. D-antigen is present on the cell membrane of erythrocytes. Its incompatibility may cause erythroblastosis fetalis. Five major antigens are known, i.e., A, a, e, e and D.

Ride phobia is a slang term often used in describing an individual's fear of rides. This phobia related to other phobias also. As some people are afraid of height, speed, close rooms, etc., on dragon boat, some people may feel nauseated, afraid, and unsafe. This phobia is related to phobias such

as aerophobia and vertigo. Coaster phobia is an anxiety condition. Its main symptom is panic attack which includes rapid breathing, irregular heartbeat, nausea, and a sense of dread.

The objective of the present study is to correlate blood grouping with the fear of rides (dragon boat).

MATERIALS AND METHODS

A total of 160 subjects participated in this project who are the students of Bahauddin Zakariya University between the age of 18 and 22 years.

Blood grouping

I went to the laboratory for blood grouping. I took the blood of 160 subjects and then performed experiment to find the blood group of the subjects. For this purpose, I put few drops of blood on the slide on two opposite ends of the slide, and then, I put some drops of antibody A on blood on one end and antibody B on the other. Whichever antibody causes lysis of blood indicated the blood group. For finding whether blood group is Rh⁻ or Rh⁺, I took some drops of antigen D and drop them on the blood present on slide and its lysis gave Rh⁺ result and vice versa.

Project

A questionnaire was prepared which contained question like whether they are afraid of rides or

*Corresponding Author:

Alishba Rasheed,
 E-mail: alishba0661@gmail.com

Table 1: Association of blood groups and fear of rides in percentage

Blood groups	Yes (%)	Yes (%)	No (%)	No (%)
	Male	Female	Male	Female
A+	11	22.05	89	78.94
A-	100	0	100	0
B+	75	54.16	25	45.83
B-	0	50	100	50
AB+	0	100	50	50
AB-	0.00	0	0.00	100
O+	46.66	42.85	53.33	57.14
O-	0.00	60	0.00	40

not.^[3-10] It was distributed among the subjects which gave the answers. I compiled the results on the basis of the various blood groups such as A+, A-, B+, B-, AB+, AB-, O+, and O-.

Statistical analysis

Statistical analysis was performed while using MS Word.

RESULTS AND DISCUSSION

Influence of blood grouping on fear of rides is given in Table 1.

Table 1: A total of 160 subjects were taken, of which 122 were girls and 38 were boys. 39.47% of boys and 44.26% of girls were afraid of dragon boat while 60.52% of boys and 55.73% of girls were not afraid of dragon boat. 11% of boys and 22.05% of girls of blood Group A+ were afraid of rides while 89% of boys and 78.94% of girls were not. 100% of boys and 0% of girls of blood Group A- were afraid of dragon boat. 75% of boys and 54.16% of girls of blood Group B+ were afraid of rides. 0% of boys and 50% of girls of B- were afraid of rides. 0% of boys and 50% of girls of blood Group AB+ were afraid of rides. 100% of girls of blood Group AB- were unafraid of rides. 46.66% of boys and 42.85% of girls of blood Group O+ and 60% of girls of O- were afraid of dragon boat.

Questionnaire-based studies have been given important outcomes in the current researches. Research on affiliation of blood grouping with fear of rides has never been done yet. This research has given many important results. Usually, people are not afraid of dragon boat. Among boys and girls, girls are less afraid of dragon boat as compared to boys.

CONCLUSION

From the recent study, it was concluded that fear of rides is highest among the objects with blood Groups A- and AB+ and lowest among the blood Groups B- and AB-.

REFERENCES

1. Qadir MI, Malik SA. Comparison of alterations in red blood cell count and alterations in hemoglobin concentration in patients suffering from rectal carcinoma undergoing 5-fluorouracil and folic acid therapy. *Pharmacol Online* 2010;3:240-3.
2. Qadir MI, Anemias NA. *Rare and Uncommon Diseases*. Newcastle, England: Cambridge Scholars Publishing; 2018.
3. Qadir MI, Javid A. Awareness about Crohn's disease in biotechnology students. *Glob Adv Res J Med Med Sci* 2018;7:62-4.s
4. Qadir MI, Saleem A. Awareness about ischemic heart disease in university biotechnology students. *Glob Adv Res J Med Med Sci* 2018;7:59-61.
5. Qadir MI, Ishfaq S. Awareness about hypertension in biology students. *Int J Mod Pharm Res* 2018;7:8-10.
6. Qadir MI, Mehwish. Awareness about psoriasis disease. *Int J Mod Pharm Res* 2018;7:17-8.
7. Qadir MI, Shahzad R. Awareness about obesity in postgraduate students of biotechnology. *Int J Mod Pharm Res* 2018;7:14-6.
8. Qadir MI, Rizvi M. Awareness about thalassemia in post graduate students. *MOJ Lymphol Phlebol* 2018;2:14-6.
9. Qadir MI, Ghalia BA. Awareness Survey about Colorectal Cancer in Students of M. Phil Biotechnology at Bahauddin Zakariya University, Multan, Pakistan. Multan: Novel Approaches in Cancer Study; 2018.
10. Qadir MI, Saba G. Awareness about Intestinal Cancer in University Student. Multan: Novel Approaches in Cancer Study; 2018.