RESEARCH ARTICLE

Affiliation of blood grouping with fear of rides

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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+ve or Rh−ve. Rh+ve is due to the presence of D-antigen while its absence causes Rh−ve 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
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>
<thead>
<tr>
<th>Blood groups</th>
<th>Yes (%)</th>
<th>Yes (%)</th>
<th>No (%)</th>
<th>No (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Male</td>
<td>Female</td>
<td>Male</td>
<td>Female</td>
</tr>
<tr>
<td>A+</td>
<td>11</td>
<td>22.05</td>
<td>89</td>
<td>78.94</td>
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<tr>
<td>A−</td>
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<td>0</td>
<td>100</td>
<td>0</td>
</tr>
<tr>
<td>B+</td>
<td>75</td>
<td>54.16</td>
<td>25</td>
<td>45.83</td>
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<tr>
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<td>0</td>
<td>50</td>
<td>100</td>
<td>50</td>
</tr>
<tr>
<td>AB+</td>
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</tr>
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<td>O+</td>
<td>46.66</td>
<td>42.85</td>
<td>53.33</td>
<td>57.14</td>
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<tr>
<td>O−</td>
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<td>60</td>
<td>0.00</td>
<td>40</td>
</tr>
</tbody>
</table>

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

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

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