

## RESEARCH ARTICLE

### How blood grouping impart affinity for badminton game

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**Received on: 01 December 2018; Revised on: 30 December 2018; Accepted on: 05 April 2019**

#### ABSTRACT

ABO blood group system is of significant identified by Karl Landsteiner. ABO typing involves both antigen typing and antibody detection. Gene for allele-I is present which determines blood group type. Further, differentiation of blood group takes place by Rh factor. Blood group type also effect on person interests toward different things including games. 180 students took part in study that how blood group type effect on trend toward games and results were different for each blood group.

**Keywords:** Affinity, Blood grouping, Badminton

#### INTRODUCTION

All of the specific antigen exhibiting similar physiological characteristic and inherited according to specific pattern form blood group system. In 1900, Karl Landsteiner reported ABO blood group system.<sup>[1]</sup> ABO antigens are glycolipids in nature. A person with antigen A have blood Group A and antibody will be antibody B and person with antigen B has blood Group B and antibody will be A. Person with no antigen has blood Group O and both anti-A antibody and anti-B antibody are present. Further, differentiation of ABO blood group takes place by positive and negative sign so another blood group antigen is present called Rh factor. D, C, C, and E are the most important antigen of Rh blood group system. Karl Landsteiner and Alexander discovered Rh factor who believed it to be similar antigen found in monkey.<sup>[2]</sup> A person with Rh factor on RBC is Rh<sup>+</sup> and person with DD genotype do not have Rh factor and are Rh<sup>-</sup>. Unlike, the naturally occurring anti-A antibody and anti-B antibody of ABO system anti-Rh antibody require stimulus by human Rh antigen.

Badminton is one of the world's most popular sports. Like other matters, blood group type also imparts tendency toward badminton game.<sup>[3]</sup>

Person with different group have different tendency of likeness and dislike.

#### MATERIALS AND METHODS

A total of 180 subjects participated in this study. They were student of Bahauddin Zakariya University. Range of student's age was 18–22 years.<sup>[4-7]</sup>

#### Blood group detection experiment

An experiment was performed by us on grouping blood in laboratory using material such as needles slides and serum of antibody first of all with the help of needle we made a hole in my fingertip to obtain blood sample. Then, sample of blood poured on three different slides. Then, on the first slide, serum of antibody A poured and on the second slide poured serum of antibody B and on the third slide poured serum of D protein. If in the first slide clots of blood were formed, then blood group will be A. Otherwise blood group will be other than A. If clots of blood are formed on slide second, then blood group will be B otherwise other than B. If clots of blood are formed on the third slide, then blood group will be positive if clots are not formed, blood group will be negative. If clots are not formed in three slides, blood group will be O<sup>-</sup>. If clots are formed in all three slides, blood group will be AB<sup>+</sup>. Mixing of serum and blood sample was made with different small sterilized metal wire; otherwise, result might differ and might be wrong.<sup>[8]</sup>

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**Table 1:** How blood group impart affinity for badminton game<sup>[10]</sup>

Blood grouping	Liking % of badminton game (%)	Disliking % of badminton game (%)
A+	75	25
B+	71	29
AB+	72	28
O+	55	35
A-	50	50
B-	80	20
AB-	50	50
O-	70	30

### Project

A questionnaire was prepared about how blood group variation imparts affinity for badminton game.<sup>[9]</sup>

### Statistical analysis

Statistical analysis was performed using MS Excel.

### RESULTS AND DISCUSSION

Almost student with positive blood group like A+, B+, O+, AB+ has affinity toward the badminton game and student with negative blood group like A- has 50% chances of likeness and dislike [Table 1]. Questioner-based study has been given importance in this research. Actually taste of each student has been asked one by one on which whole project is based on. Badminton is a racket sport with two or four people with a temporal structure characterized by action of short duration and high intensity.

### CONCLUSION

It is concluded from the present study that as people with blood group variation are present; similarly, taste of people toward different games can also exist. Similar situation is studied by us.

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