

RESEARCH ARTICLE

Correspondence of fondness of playing football with blood grouping

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ABSTRACT

The objective of the present study was to coordinate the blood grouping with likeness of playing football. The presence or absence of antigens and Rh factor determines the blood group of a person. A questionnaire was prepared about the fondness of playing football in relation with blood group. Blood group test was performed to check blood group of every subject. Football is a game played between two teams in which a baseball is kicked to the net of opposite team to secure the goal. This game is beneficial for both body and mind. Among all blood groups, the subjects of blood group B⁻ were most fond of playing football and AB⁻ containing subjects were least fond of playing football.

Keywords: Antiserum, Blood group, Football

INTRODUCTION

The system in which the blood of different persons is divided into different groups on the basis of the presence or absence of various antigens on red blood cells or the factors of these antigens is called blood group system. The two types of such systems are ABO blood group system and Rh blood group system. Both of these are based on the genetic study of antigens present on the red blood cells. Some genes have more than one allele; such genes express the multiallelic traits. The occurrence of antigens is multiallelic trait. A polymeric gene-I is present on chromosome 9. This gene has three alleles. These three alleles, I^A, I^B, and i, express the four phenotypes. If alleles I^A and i of gene I are present, then antigen A is present in blood and blood group is A. If alleles I^B and I are present, then antigen B is present in blood and blood group is B. If I^A and I^B alleles coexist, then blood contains both antigen A and B and the blood group is AB. If both alleles I^A and I^B are absent, then blood group is O. In Rh system, blood of person may be + or -. This system is based on the presence or absence of Rh factor.^[1-2] Football is a physical game played between two teams. A ball is spun between players of both

teams to secure goal. Ball is kicked toward the net of opposite team and when ball touches net, the goal is secured. Like other physical games, football also has many advantages on physical and mental health of a person. It enhances aerobic activity and health of hear. Playing football builds sense of the coordination and teamwork. It also helps to enhance confidence level. It provides opportunity for the players to improve their hand-eye coordination. Football is now very popular game and this game is being played in >200 countries. Football also has interesting historical background. Football is national game of Mauritius.

The objective of the present study was to coordinate the blood grouping with fondness of playing football.

MATERIALS AND METHODS

The total of 174 subjects participated in this practice. All of these subjects were students of Bahauddin Zakariya University, Multan, Pakistan. The age of participants ranged from 18 to 22 years.

Blood grouping

We performed the blood group test in laboratory. First of all, we took the needle and fixed at the tip of the index finger of the left hand. Few drops of

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blood appeared at the tip of the finger. We poured the drops on slide at three different points. Then, we took antiserum A, B, and D and poured few drops of each antiserum on blood drops. The antibody of different blood types coagulated by exposure of antiserum. From this practice, we concluded that blood groups.

Project

A questionnaire was prepared about the correspondence of fondness of playing football with blood grouping that contained a question that did you like to play football? For this practice, blood group of every subject was tested. Among all the subjects, the persons with blood group B⁻ showed most affinity toward the football and persons with blood group AB⁻ were least fond of playing football. Among A blood group, the subjects of A⁺ were fonder of playing football than A⁻. However, in B blood group, B⁻ was fonder of football game than B⁺.

Statistical analysis

Statistical analysis was performed using MS Excel.

RESULTS AND DISCUSSION

Analysis of correspondence of the fondness of playing football with blood grouping is given in Table 1. From all the participants, the blood group A⁺ showed more affinity and secured 58% of likeness while only 41.94% did not like to play football. Among people of blood group A⁻, the ratio of participants that liked to play football and that did not like to play football was equal. Among the people of blood group B⁺, only 28.81% liked to play football, but 71.19% did not like to play football. From B⁻, 80% liked to play football and it was the highest ratio, 20% did not like to play football. Among the participants of blood group AB⁺, more people liked to play football and percentage is 54.54% while only 45.46% did not like to play football. From the participants of blood group AB⁻, no one liked to play football. From the participants of blood group O⁺, 44.64% liked to play football and 55.36% did not like to play football. Among the participants of O⁻,

Table 1: Correspondence of the fondness of playing football with blood grouping

Blood group	Yes (%)	No (%)
A ⁺	58.06	41.94
A ⁻	50	50
B ⁺	28.81	71.19
B ⁻	80	20
AB ⁺	54.54	45.46
AB ⁻	0	100
O ⁺	44.64	55.36
O ⁻	20	80

20% liked to play football, but 80% did not like to play football. These were analytical results of this project to show affinity different blood groups with football quantitatively.

Questionnaire-based studies have been given important outcomes in the current researches. Already a research was made related to this project, of title, "What does blood groups have to do with the Japan football team?" In Japan national team of 2014 of 23 players, only three had B type blood group and in 2012, there was not a single player with blood group B. It showed that blood type really determines the character. The reason behind this observation was that the coach of national team of Japan played stress on teamwork, but mostly persons with B type blood group were free in thoughts and opinions. They were self-centered and could not survive in team. In the present research and previous researches, it was illustrated that all traits either physical or behavioral are determined by genotype and environment of an individual and all traits are basically interlinked.^[3-10]

CONCLUSION

It was concluded from the present study that the subjects with blood group B⁻ show more affinity toward football and subjects of blood group AB⁻ are least fond of playing football.

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