

## RESEARCH ARTICLE

**How blood grouping affect on skimmed milk likeliness?**Muhammad Imran Qadir<sup>1</sup>, Muhammad Ali Mehdi\*<sup>1</sup>*Institute of Molecular Biology and Biotechnology, Bahauddin Zakariya University, Multan, Pakistan***Received on: 20/06/2018, Revised on: 30/07/2018, Accepted on: 15/09/2018****ABSTRACT**

Objectives of the present study were to correlate blood grouping with skimmed milk. A total number of 179 subjects were participated in this study. The participants were the students of Bahauddin Zakariya University Multan. Their age was in between of 20-25 years. We checked the blood groups of all the participants and related with their blood group to the skimmed milk likeliness. We elaborated from this detailed study that the maximum skimmed milk likeliness lie in blood group AB<sup>+</sup> and minimum likeliness was lie in blood group O<sup>-</sup>.

**Keywords:** Blood Grouping, Skimmed milk likeliness, Bahauddin Zakariya University students.**INTRODUCTION**

A series of antigens exhibiting similar serological and physiological characteristics are inherited according to a specific pattern. Blood group A contains antigen A and antibody B. Blood group B contains antigen B and antibody A. Blood group AB contain antigen AB without any antibody. Blood group O has neither antigen A nor antigen B but antibody A and B are present. The term Rh was derived from Rhesus factor. It was found in Rhesus monkey red blood cells. Someone who is A<sup>+</sup> has antigen A and Rh (D) antigen whereas someone who is A<sup>-</sup> lacks the Rh (D) antigen. Antibodies to Rh antigens can be involved in hemolytic transfusion reactions. Milk from which the cream has been removed is known as skimmed milk or simply lassi. It is made from yogurt. It is also known as yogurt based drink. Most of its fat has been removed. It is very nutritious to human health. It helps indigestion. It is used to prevent stomach problems. It contains probiotics that help to reduce bad cholesterol level in the body. It is a popular drink among the weight-conscious people. It helps in burning belly fat which covers inside of the stomach wall. It helps to strengthen the immune system. It is a source of vitamin D and lactic acid. It improves the health of brain and heart. Most of the people prefer to drink lassi especially villagers.

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**MATERIAL AND METHOD**

A total number of 179 subjects were participated in this study. The participants were the students of Bahauddin Zakariya University Multan. Their age was in between of 20-25 years.

**Blood Grouping**

Monoclonal antibodies (Anti-A, B and D), blood lancet, alcohol swabs, tooth picks, clean glass slide, biohazard disposal container. We set the table with all the materials required. We opened alcohol swab and rub it the finger tip from where the blood was sampled. We opened the lancet cover, put pressure on the tip of the finger from where the blood will be sampled. We pricked the finger tip with the opened lancet. As blood starts oozing out, made 1 drop fall on the 3 depression of glass slide. We took the anti-A (blue) bottle and placed a drop on the 1<sup>st</sup> spot of blood with help of dropper. We took the anti-B (yellow) bottle and placed a drop on the 2<sup>nd</sup> spot. We took the anti-D (colorless) bottle and placed a drop on the 3<sup>rd</sup> spot. We took a tooth pick and mixed the content in each well. We discarded the tooth pick after using in one well. After mixing, wait for a while to observe the results.

**Project**

A questionnaire was prepared about skimmed milk (lassi). We checked the blood groups of all the students of the class and examined their views about the likeliness of the skimmed milk.

**Statistical Analysis**

Statistical analysis was performed by using MS word.

## RESULTS AND DISCUSSION

Skimmed milk likeliness is given in table 1. We checked the blood groups of my colleagues and related them to skimmed milk likeliness. We observed that those fellows whose blood group was A<sup>+</sup>, their likeliness of skimmed milk was about 78.78%. Those with A<sup>-</sup> blood group liked skimmed milk 100%. Fellows having blood group as B<sup>+</sup> preferred skimmed milk 71.67%. Similarly those having blood group B<sup>-</sup> were 100% with likeliness of skimmed milk. Those bearing blood group AB<sup>+</sup> were 100% related to likeliness of Lassie. The likeliness of skimmed milk was 100% for those with blood group AB<sup>-</sup>. O<sup>+</sup> carriers likeliness was 70%. Some students whose likeliness of skimmed milk was 30% have blood group O<sup>-</sup>. Finally it was seen from whole experiment that the likeliness of skimmed milk was 75.42%.

**Table 1: Influence of blood grouping on skimmed milk likeliness (In Percentage)**

	Yes		No	
	Male	Female	Male	Female
A <sup>+</sup>	100	66.67	0	33.33
A <sup>-</sup>	100	100	0	0

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B <sup>+</sup>	100	66.67	0	33.33
B <sup>-</sup>	100	100	0	0
AB <sup>+</sup>	100	100	0	0
AB <sup>-</sup>	0	100	0	0
O <sup>+</sup>	94.11	60	5.88	40
O <sup>-</sup>	0	70	0	30

Questionnaire based studies has been given important outcomes in current researches. Research has been showed that for the blood group A and blood group O, the skimmed milk is to avoid for such blood groups. And for blood group B, the skimmed milk is recommended diet. The skimmed milk is neutral diet for blood group AB. It is proved from the above experimental data that the students having blood groups A<sup>-</sup>, B<sup>-</sup>, AB<sup>+</sup> and AB<sup>-</sup>, all those students having such blood groups like skimmed milk.

## CONCLUSION

It was summarized from the present study that the maximum skimmed milk lover was those whom blood group was A<sup>-</sup>, B<sup>-</sup>, AB<sup>+</sup> and AB<sup>-</sup>. And those, whom blood group was O<sup>-</sup>, were the minimum skimmed milk lover.

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