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**ASSOCIATION OF ABO BLOOD GROUP WITH LEFT-HANDEDNESS
AMONG UNDERGRADUATES IN FACULTY OF HEALTH SCIENCES**

By

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ABSTRACT

Left-handed individuals accounts for only 10% of world population. Among these group of people, the most prevalence of ABO blood group is yet to be determined. This study aims to determine the association between ABO blood group with left-handedness and the prevalence of left-handedness among undergraduates in Faculty of Health sciences, UiTM Puncak Alam. In this study, a cross sectional survey was used to collect data. It is done by randomly distributing 200 close-ended questionnaire to students in Faculty of Health Sciences, UiTM Puncak Alam. Among 200 students that participated, 31 students were left-handed; which 16 persons were O group, 7 persons were A group, 7 persons were B group and one person was AB group. In conclusion, by doing statistical analysis using SPSS version 24, there was no association of ABO blood group with left-handedness ($p=0.948$).

Keywords: Left-handedness, ABO blood group, Questionnaire, Prevalence, Association

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CHAPTER 1

INTRODUCTION

1.1 Background of study

Among world population, left-handed individuals were the least common group of people to be found. Many scientists have found that several genetic diseases are correlated with the ABO blood group, such as heart diseases. The purpose of this study is to determine the association of ABO blood group with left-handedness. In other word, it is to find if the ABO blood group plays important role in determining person handedness. Both of ABO blood groups and left-handed are congenital, which inherited from parents to their child. Therefore, this study is performed to see any correlation of ABO blood group with left-handedness. Frequency of left-handedness among undergraduates of Faculty of Health Sciences is yet to be known. Therefore, in order to obtain the data from the students, the distribution of questionnaires was performed throughout the Faculty of Health Sciences, UiTM Puncak Alam.

1.2 Problem statement

Left-handed individuals are the minority group of people in the world that accounts for only 10% of world population. Although previous studies have stated that the prevalence of world population for left-handed person is 10%, however the prevalence of left-handed among Health Sciences students in UiTM Puncak Alam is yet unknown. Many research has been done to associated ABO blood group with some genetic diseases, such as diabetes mellitus. However, the association of ABO blood group with left-handedness has never been performed. Both of these are congenital, which inherited from parent to