

**“Distribution of ABO and Rh blood groups among HIV infected patients attending National AIDS Program (NAP) clinic of 300-bedded Pyin Oo Lwin General Hospital”**

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**Abstract**

The ABO blood grouping is the most important grouping system among the blood group systems. There are four different ABO blood groups, determined by whether or not an individual's red cell carry the A antigen, the B antigen, both A and B antigens or neither. This study aimed to detect distribution of ABO and Rh blood group among the HIV participants. A cross-sectional descriptive study was done at National AIDS Program (NAP) clinic of 300-bedded Pyin Oo Lwin General Hospital during the period from January to April 2017. After getting informed consents from the participants and explaining the purpose, risks and benefits of the research, a total of 400 participants were included in the study. Among them, male were 188 cases (47%) and female were 212 cases (53%). Three drops of blood were collected with sterile lancet on disposable glass slide. ABO and Rh blood groups were determined by tile method using anti-sera A, anti-sera B and anti-sera D. Data entry and analysis were done by using SPSS 20.0 version. According to age group distribution 94 cases (23.5%) were in 18-30 years, 260 cases (67%) in 31-50 years and 38 cases (9.5%) in 51-80 years. Mean ( $\pm$ SD) age of the participants was 38 ( $\pm$ 10) years. The youngest was 18 years and eldest was 72 years old. The highest number of participants was found to belong to blood group O (38.8%), followed by blood group A (29.3%), blood group B (27.8%) and blood group AB (4.3%). For the distribution of Rh blood group, Rh positive were 399 cases and Rh negative was only one. By doing this study, participants could know their ABO and Rh blood group so that they can provide information for their blood transfusion services.