ABSTRACT

Aurelia Gisella Afdilah (2025). Characteristics of Blood Donor Rejection at the Sidoarjo Regency PMI Blood Donor Unit January - October 2024. Scientific Writing, D-III Blood Bank Technology Study Program, Department of Pharmaceutical and Food Analysis, Health Polytechnic of the Ministry of Health Malang. Supervisor Dr. Ekowati Retnaningtyas, S.Kp., M.Kes.

Background : Blood donation is an activity that has many benefits for donors, in blood donation activities there are many criteria that must be met by donors. When going to do blood donation, there can be donor rejection during the donor selection stage caused by various factors. At UDD PMI Sidoarjo Regency there were 10,968 rejected donors in the period January - October. **Research Objective :** To determine the characteristics of donor rejection based on age, blood type and gender. **Research Method :** This study uses a descriptive quantitative method that contains a description of the characteristics of donor rejection. In this study, there were 99 samples calculated using the slovin formula and will be taken randomly from a total population of 10,968. **Research results :** Data obtained on donor rejection based on age from 99 donors occurred mostly in adolescents (17-25 years) as many as 46 (46.5%), adults (26-45 years) as many as 35 (35.4%), elderly (46-60 years) as many as 18 (18.2%). Donor rejection based on blood type from 99 donors is divided into blood type A rhesus positive as many as 17 (17.2%), B rhesus positive as many as 26 (26.3%), O rhesus positive as many as 28 (28.3%), AB rhesus positive as many as 9 (9.1%), unknown blood type as many as 19 (19.2%), donor rejection based on gender occurs mostly in men as many as 61 (61.1%) and women as many as 38 (38.4%). **Conclusion:** From the results of the study, it was found that the characteristics of donor rejection were dominated by adolescents with positive O rhesus blood type and male.

Keywords : Donor Rejection Characteristics, Blood Donor Rejection