

## ABSTRACT

Aisha Chandra Zafira (2023).The Description of Deferral Factors for Thrombopheresis Donors at UDD PMI Surabaya. D-3 Blood Bank Technology Study Program, Department of Pharmacy and Food Analysis, Health Polytechnic of the Ministry of Health Malang. Supervisor Nia Lukita Ariani, S.Si., M.Sc.

Thrombopheresis is a donor blood collection technology with the principle of taking only platelet components and returning other components that are not needed to the donor's body. The duration of thrombopheresis blood collection is longer than the conventional method so that it requires stricter acceptance requirements compared to donor selection in ordinary donors. This increases the risk of rejection in donors and can affect blood fulfillment efforts, especially thrombopheresis products. The purpose of this study was to determine the factors of rejection of thrombopheresis donors at UDD PMI Kota Surabaya. This research method is probability sampling with the Slovin sampling formula and obtained a research sample of 40 samples. The results of this study were rejection factors due to serological examination, there were no samples with IMLTD reactive and positive blood antibody screening. In the rejection factor due to hematological examination, high lipemic levels (65%), HCT levels  $>0.75$  (10%), and hemoglobin levels  $>17$  g/dL (5%) were obtained. Other rejection factors included high blood pressure (2.5%), infection/injury (2.5%), resting  $<7$  hours (2.5%), canceled hospital request (2.5%), and more than 1 rejection factor (10%).

Keywords: Donor, Thrombopheresis, Rejection Factors