ANALYSIS OF THE FULFILLMENT OF PRC LEUKODEPLETED AND LEUKOREDUCED BLOOD COMPONENTS AT THE BLOOD TRANSFUSION UNIT (UTD) OF PMI SIDOARJO REGENCY

Nurin Nabila Ahsan
D3 Blood Bank Technology Study Program. Poltekkes Kemenkes Malang. Jl. Besar Ijen No.77C Malang
Email : nabilaanurinn@gmail.com

ABSTRACT

The availability of blood is very important because excess blood stock can result in losses, as blood has a limited shelf life. This research aims to analyze the fulfillment of the need for *PRC Leukodepleted* and *PRC Leukoreduced* blood components at the Blood Transfusion Unit (UTD) of PMI Sidoarjo Regency. The study used a descriptive research method with a quantitative approach. The sample consists of data on the fulfillment of the need for *PRC Leukodepleted* and *PRC Leukoreduced* blood at UTD PMI Sidoarjo from 2020 to 2024. The results of the study show that the fulfillment of *PRC Leukodepleted* blood from 2020 to 2024 was 152 bags (18.72%), while the fulfillment of *PRC Leukoreduced* blood during the same period was 660 bags (81.28%). This indicates that the blood stock exceeds the demand, and the excess stock is then distributed to collaborating hospital blood banks. The researcher suggests that future studies should comprehensively record the monthly blood demand, not only for patients but also for blood distribution to hospitals and other UTDs. This will ensure that, when the demand is met, the distribution to other hospitals and UTDs can be effectively carried out.

Keywords: Blood Component Fulfillment, Leukodepleted, Leukoreduced