

OVERVIEW OF THE UTILIZATION OF PACKED RED CELL (PRC)  
LEUKODEPLETED BLOOD COMPONENTS AT THE PMI UDD OF JEMBER  
DISTRICT

Nur afni Michellia Ramadhani

Program Studi D3 Teknologi Bank Darah Poltekkes Kemenkes Malang, Jl. Besar  
Ijen No 77C Malang.

Email: [michellenurafni78@gmail.com](mailto:michellenurafni78@gmail.com)

**ABSTRACT**

*Background: Leukodepleted PRC is a blood component that has gone through a filtering process. This filtering process is carried out after whole blood is processed. The use of Leukodepleted PRC can reduce transfusion reactions. In the UDD PMI Jember Regency in the 2022 period, 256 bags were produced with a request of 253 bags. Objective: To obtain information regarding the amount of Leukdepleted Packed Red Cell (PRC) blood utilization in the UDD PMI Jember Regency in the 2024 period. Method: Descriptive quantitative research using secondary data from the Donor Management Information System (SIMDONAR) with a total sampling technique on all production and utilization of Leukodepleted PRC in the 2024 period based on age, gender, blood type, and medical treatment room. Results: From the production of 596 Leukodepleted PRCs, there was a demand for 576, with the most common characteristics being age 1-17 years (47.45%), female gender (56.08%), blood type O (54.17%), and internal medicine wards (65.80%). Conclusion: Production and demand for Leukodepleted PRC blood components are stable each year.*

*Keywords: Leukodepleted PRCs, Blood Utilization, Transfusion Reactions*