

IR – PERPUSTAKAAN UNIVERSITAS AIRLANGGA

THESIS

**PROFILE OF BLOOD TRANSFUSION PRACTICES IN INTENSIVE
OBSERVATION UNIT (*RUANG OBSERVASI INTENSIF/ROI*) RSUD DR.
SOETOMO IN JANUARY-DECEMBER 2020**



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FACULTY OF MEDICINE

UNIVERSITAS AIRLANGGA SURABAYA

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ABSTRACT

Introduction: Blood transfusion is the process of transferring blood or blood components such as red blood cells, plasma, and platelets from donor to recipient. The most common indication of blood transfusion is anemia. Anemia is frequently seen in critically ill patients in the Intensive Observation Unit (*ROI*). These patients received blood transfusion to increase hemoglobin level and improve oxygen delivery, hence preventing death from organ dysfunction due to tissue hypoxia.

Objective: This study aims to determine the profile of blood transfusion performed on the patients in *ROI* RSUD Dr. Soetomo in January-December 2020.

Methods: This study is a retrospective descriptive study conducted using medical records. 258 patients met the inclusion criteria.

Results: This study revealed that the majority of the patients were female (55.04%), aged 26-35 years old (26.36%), had blood type O (39.53%) and rhesus positive (100%). The most common indication for transfusion was anemia (69.10%) particularly severe anemia (48.45%). Majority of them were from the surgery department (57.36%) and stayed in *ROI* for 2-3 days (36.05%). The most common blood component and unit transfused was packed red blood cells (57.50%) as much as 439 units (47.82%). Most of the transfusions were transfused within 3-4 hours (37.80%). Some of the recipients were experiencing pruritus (0.39%), febrile (0.39%), urticaria (0.39%), and chills (0.39%).

Conclusion: The understanding of blood transfusion practices including the distribution of blood type can prevent shortage of blood and estimate the need of blood among *ROI* patients in RSUD Dr. Soetomo, and further ensure that all transfusions are ABO and rhesus compatible.

Keywords: ABO blood type, profile, preventable death, rhesus, Intensive Observation Unit (*ROI*), transfusion.

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ABBREVIATION

BDRS	: <i>Bank Darah Rumah Sakit</i>
CTR	: Cross match to Transfusion Ratio
ENT	: Ear, Nose, and Throat
FFP	: Fresh Frozen Plasma
GSH	: Group, Screen, Hold
Hb	: Haemoglobin
ICU	: Intensive Care Unit
ITD	: <i>Instalasi Transfusi Darah</i>
PC	: Platelet Concentrate
PMI	: <i>Palang Merah Indonesia</i>
PRBC	: Packed Red Blood Cell
RBC	: Red Blood Cell
ROI	: <i>Ruang Observasi Intensif</i> /Intensive Observation Unit
UTD	: <i>Unit Transfusi Darah</i>