

OVERVIEW OF FACTORS THAT INFLUENCE BLOOD TYPE DETERMINATION IN UDD PMI CITY OF MALANG IN 2024

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ABSTRACT

Background: Blood typing is an important initial step in the blood transfusion process, which is carried out based on the reaction between antigens on red blood cells and specific antibodies. Inconsistencies in blood typing results can pose a risk to patient safety, so it is necessary to know the factors that influence it. **Research Objective:** To determine the description of the factors that influence blood typing inconsistencies in UDD PMI Malang City in 2024. **Research Method:** This study uses a quantitative descriptive method with secondary data obtained from blood typing confirmation reports. The research sample consisted of 34 cases of blood typing inconsistencies. **Research Results:** The most frequent inconsistencies occurred in blood type A with 12 cases (35.29%), followed by blood type O with 10 cases (29.41%), blood type B with 7 cases (20.59%), and blood type AB with 5 cases (14.71%). The main cause of inconsistencies came from internal factors, namely errors in reading agglutination reactions with 33 cases (97.06%). In addition, 1 incident (2.94%) was found due to data input errors in SIMDONDAR. **Conclusion:** This study concludes that discrepancies in blood type determination at the UDD PMI Malang City in 2024 were influenced by internal factors related to staff accuracy. Therefore, increased accuracy, regular training, and the implementation of a double verification system are needed to minimize discrepancies in blood type determination.

Keywords: Blood type, discrepancies, internal factors.