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Red Blood Cell Alloimmunization among the Transfusion Recipients at Sanglah General Hospital, Denpasar, Bali: A Preliminary Study

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Abstract

Background Red blood cell (RBC) alloimmunization is the formation of alloantibodies among the recipients which is related to the frequency of antigen-positive blood transfusion received by the recipient. The difficulty to obtain compatible RBC and a higher risk of hemolytic transfusion reactions due to alloimmunization become a challenge in clinical practice. Objectives: This study aims to analyze the characteristics of RBC alloantibodies in the recipient following transfusion at Sanglah General Hospital, Bali, as a preliminary study. Methods A cross sectional study was conducted among 40 recipients with a history of RBC transfusion at least 3 times and willing to participate in this study from December 2015 to March 2017 at Sanglah General Hospital. Data were analyzed using SPSS ver. 16 software to determine the