Monitoring Blood Consumption with Emphasis on MSBOS Table in Educational Hospitals Zahedan, Iran, 2014

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ABSTRACT

The proper utilization of blood is only clear in the application of blood transfusion to treat cases that lead to mortality and cannot be effectively prevented or treated by other methods 1. Blood transfusion process faces cases such as storage time limitation and high preserving costs 2 . This study was conducted with the aim to determine blood consumption indices in patients hospitalized in educational hospitals in Zahedan. This descriptive-analytic study was carried out in educational hospitals of Zahedan, Iran, 2014. All submitted orders from the hospitals sections to the blood bank were assessed. Two major indices of crossmatch-to-transfusion ratio (C/T ratio) and Transfusion probability (TI%) were calculated for all the patients and individual sections and compared with the standard value. In relation to the C/T ratio index: the anesthetic section had the highest value with a ratio of 2.7 and the hematologic section had the lowest value with a ratio of 1.04. Furthermore, pediatric, internal, ICU and hematology sections were in a good position in terms of the C/T index. In relation to the TI index: the internal section had the highest value of 2.8 and the pediatric section had the lowest value of 0.87. In general, the orders of blood products and consumption are in a proper situation in the educational hospitals in Zahedan. Despite this, comparisons between the different studies can reveal contradictions in the situation of blood orders and consumption in the country.

Key words: Blood Transfusion, Cross Match, Blood Products, Transfusion Probability