

عنوان مقاله:

Bacterial contamination in concentrate platelet bags sachets that expire dated in Blood Transfusion Center in yasuj city in 2018

محل انتشار:

بیستمین کنگره بین المللی میکروب شناسی ایران (سال: 1398)

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خلاصه مقاله:

Introduction and Objective: Today in blood transfusion center donors' blood is screening is for some microorganisms. However, since all microorganisms aren't examined Human sepsis associated with blood transfusion is still a major health concern. Therefore, the aim of this study was to evaluate bacterial contamination in concentrate platelet bags sachets that expire dated in Blood Transfusion Center in yasuj city in 2018. Materials & Methods: Totally 118 units of platelet bags were randomly collected, and with using standard microbiology techniques, the presence of microorganisms, were identified and then confirmed by polymerase chain reaction (PCR) in the presence of 16SrRNA genes. sensivity and resistance of these microorganisms determined by standard antibiotics. Results: Out of 118 platelet bags, 3 of them showed contamination, that prevalence of bacterial contamination was 2.55%. All of the isolated microorganisms were gram positive such as: (staphylococcus hominis, staphylococcus haemolyticus and staphylococcus warneri) and their antibiotic sensitivity and resistance to some antibiotics the most sensitive antibiotic was ampicillin against S. warneri bacteria and the lowest sensitivity was penicillin antibiotic against S. warneri bacteria. Conclusion: Few microorganisms are tested in blood transfusion. other microorganisms caused blood and blood derivatives contamination including platelets in blood transmission center this research showed that only three contaminations from 118 platelet bags while in another city which are almost consistent with this study the reasons of these contamination can be Tips that were taken during and after blood transfusion and the anticoagulant agents .may not be met

کلمات کلیدی:

Bacterial Contamination - Platelet - Antibiotic Resistance - 16srRNA Gene

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