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The unit cost of leukocyte-depleted red blood cell concentrates in blood transfusion center, Faculty of Medicine, Khon Kaen University, Thailand

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Background & Objectives: Leukocyte-depleted blood components are the best quality for multi transfusion in hemato-oncological patients. There are many cancer patients in the Faculty of Medicine, Khon Kaen University, Khon Kaen, Thailand and has been the center of threatening cancer of the northeastern Thais and neighboring countries, such as Loa PDR, Cambodian. Therefore, leukocyte-depleted red blood cells (LDPRC) should concern. The aim of this study is to evaluate the unit cost of LDPRC.

Materials & Methods: Three methods for LDPRC preparation in Blood Transfusion Centre, Faculty of Medicine, Khon Kaen University were compared by calculation from the cost of blood set, infectious screening, blood group testing and antibody screening.

Results: The cost of Reveos system, the pre-storage methods and the post-storage methods is 1,200, 1,346 and 1,682 THB, respectively. The cost of blood bag is 2,461, 1,552 and 379 THB, respectively. In the past three years, the post storage method was 313 set (in record), therefore, the Reveos and pre- storage system were cheaper 150,866 and 105,168 THB.

Conclusion: The data was shown the benefit for the hemato-oncological patients by using the leukocyte depleted blood components. The new technology Reveos system is suitable and decrease budget for LDPRC preparation. We can make the decision and set the policy for LDPRC supply in the hospital.

Biography

Uthenas Larsaeng has completed his Certificate of Medical Science from Khon Kaen University, Thailand. He is a specialist in Blood Transfusion Sciences at Blood Transfusion Centre, Faculty of Medicine, Khon Kaen University, Thailand.

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