



Blood Components Logistics Solutions in Srinagarind Hospital, Faculty of Medicine, Khon kaen University: *Successful or Not?*

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Background and Objective: History were reviewed at Blood Transfusion Center, Srinagarind hospital, faculty of Medicine, Khon Kaen university, which have processed blood components of more than 80,000 units per year. The blood transfusion committee requires comprehensive logistics planning and management to deliver blood components with safety specifications for patients. Therefore, a study about packaging and transportation aspects of relatively new blood components logistics is necessary.

Materials and Methods: Experiments were conducted to monitor the temperature change in red cell concentrates and fresh-frozen or thawed plasma during shipping to the final wards. The temperature was maintained in an environmental chamber within 2-10 °C and data were analyzed with transfer for ready use in patients and return to Blood Transfusion Center. For monitoring Crossmatch/Transfusion (C/T) ratio in each ward. The pilot was conducted between 1 to 14 August 2016.

Results: The data was shown patients request 35% (N=266/741) motivate to blood logistic supply. And the temperature determined was between 5-8 °C and the red cell concentrates 197 units and frozen plasma 136 units were transferred to wards with temperature control by logistic team.

Dicussion and conclusion; Logistics blood team are available to transfusion wards. The data showed it could support a work load of 35% also easy and flexible for wards. In the future ; all wards are may ready for everyday use. Even the logistical benefits for blood transfusion services have been demonstrated, the pilot projects are implemented. If the benefits – outside of the cold chain – are seen in logistics, this will definitely prevail in blood transfusion services in Srinagarind hospital

