Enhancement program for safety intrahospital transportation of PICU patients

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Introduction
Intrahospital transportation of critically ill patient in PICU is inevitable process because patient need undergo varies diagnostic and treatment procedure or operation which only available outside the unit. Over 80% of PICU patient required at least one intra-hospital transportations during the length of stay in PICU. However, several studies identified there were main adverse events during transportation including cardio-circulatory, respiratory, neurological, equipment Failure etc. (Lahner et al 2007; Gillman et al 2006). In PICU, incidents like incorrect route of transportation leading to parents compliant; patient condition change without early detection; incidents of endotracheal tube dislodgement; peripheral or arterial blood line displacement were reported.

Objectives
A workgroup group was set up. Services gap was identified and an enhancement program was set up which including: (1) To conduct an educational talk and route demonstration to improve knowledge of nurses especially for nurses whose clinical experience less than 5 years. Pre and post educational talk assessment was performed. (2) To identify a standard route for intrahospital transportation to ensure all PICU nurse know the standard route of transportation; (3) To develop a log book for PICU nurse recording and reporting any incidents related to transportation so that the workgroup members could share the incidents with unit staff afterward and to work out further improvement action. (4) To conduct yearly assessment to ensure PICU nurses’ knowledge competence.

Methodology
1. An educational talk was conducted from February till end of April 2014. 2. The standardize route for intrahospital transportation was adopted since April 2014. 3. The log book of all intrahospital transportation was developed to log down all the
intrahospital transportation episode of the unit. Yearly assessment would be conducted to ensure the PICU nurses' knowledge competence.

**Result**

1. Total 13 PICU nurses had participated in the educational talk and route demonstration. The pre and post talk assessment was completed. The mean score assessment increased from 72.1% to 99%. 2. The standardized route for intrahospital transportation was adopted and compliance audit in October 2014 showed 100% compliance. 3. The log book was set up since May 2014. Total 41 cases were reviewed. No adverse event detected except one episode of patient awake while waiting in CT suite. 4. Next yearly knowledge assessment would be conducted in March 2015.