

**00052 Evaluating the Impact of a Transfusion Practice Training Program Among Registered Nurses in a Tertiary Hospital**

*Zhong Xinni, Eileen Lew, Lam Ching Mei Joyce*

KK Women's & Children's Hospital

**Aims:** The aim of this study was to evaluate the impact of a hospital-based transfusion practice training program among the registered nurses (RNs), through administration of a knowledge based questionnaire which consisted of 8 questions before, and after implementation of program. The results gathered would identify gaps in assimilation of knowledge and suggest improvements to the design and implementation of specific content in the nurse-led transfusion training program.

**Methodology:** All RNs from various units and departments were invited to participate in the 'Blood Transfusion Knowledge Questionnaire' in October 2015. After which, a formal transfusion practice training program was introduced. The program consisted of an online learning platform and in-service training sessions. The same questionnaire was administered to the RNs one year later in September 2016 to serve as post-training program evaluation. Individual item scores and proportions of nurses with perfect scores was compared pre- and post-implementation.

**Result:** 1,115 RNs and 964 RNs completed the questionnaires, giving a respond rate of 77.9% in 2015 and 67.3% in 2016 respectively. The mean score in 2015 was 6.24 points (range 0 to 8) and 6.57 points (range 2 to 8) in 2016. The pre- and post-implementation scores were compared, and statistical significance analysed using Pearson Chi-Square test. Statistical calculations were performed with SPSS Version 19. A p value of <0.05 was considered statistically significant. The percentage of RNs having perfect scores of 8 increased from 8.8% in 2015 to 20.5% in 2016.

**Conclusion:** The implementation of a hospital-based, nurse-led transfusion practice has led to an encouraging improvement in blood transfusion knowledge amongst RNs. It is therefore mandatory that the transfusion training program continues to be implemented and evaluated regularly to sustain improvements in transfusion knowledge and safe practices.