



**Service Priorities and Programmes
Electronic Presentations**

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Submitting author: Ms Pui Chun TSUI

Post title: Advanced Practice Nurse, Queen Mary Hospital, HKWC

Increase nurses' competence and confidence in deliver advance cardiac surgery instruments information to patients with the aid of an informative pictured advance cardiac surgery instruments booklet in Department of Cardiothoracic Surgery (CTSD), Queen Mar

*Lee MS, Tsui PCB, Li WCR and project team of CTSD
Department of Cardiothoracic surgery*

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Increased in nursing competency

Increase level of confidence in deliver advance cardiac surgery instrument

Education program to nurses

Effectiveness and efficiency of the program

Patient advocate

Introduction

Scientific and technological developments over the past several decades have revolutionized health care and care of sick. Adopting rapid advancement of technologies, newer and better medical consumables are able to treat diseases effectively and efficiently in a less traumatic and invasive way. Regarding the limited surgical information on the use of advance cardiac instruments to patients, we conducted an educational program to our nursing staff by developing an informative pictured advance cardiac surgery instruments booklet for nurses to enrich their information. Therefore, it can enhance nurses competency and confidence in deliver advance cardiac surgery instruments information to patients in CTSD, QMH. As a result, they are well equipped as patient advocate and collaborate with the explanation by surgeon when introducing the patients for those advance cardiac surgery instruments.

Objectives

1. To increase nurses' knowledge on advance cardiac surgery instruments 2. To increase nurses' competency and confidence in deliver advance cardiac surgery instruments

Methodology

An informative pictured advance cardiac surgery instrument booklet was developed as an educational tool and it contained colorful pictures of instruments regarding indications, characteristics, applications, pros and cons of surgery on using these instruments and related nursing care. The booklet was reviewed and edited by experienced surgeons, advanced nursing practitioners in CTSD, QMH. The pilot study was conducted from Aug 2011 to Sept 2011. A same set of questionnaire for pre and post test on the nurses' knowledge on advance cardiac surgery instruments and the

level of competency and confidence in deliver these information to patient before and after the program implemented. The questionnaire composed demographic data and included three sections: Part A, used the 5 point Likert scale to test the level of and competency and confidence in deliver advance cardiac surgery instruments; Part B, 10 questions testing the nurses' knowledge on these advance cardiac surgery instrument within the booklet and one mark for one correct answer that 10 was the full marks; Part C, open questions for nurses to express their opinion freely. The target group was the registered and enrolled nurses over six months of working experience in CTSD.

Result

35 set of questionnaires were distributed and 27 completed sets of questionnaires had been returned. 1. The response rate was 77%. 2. There was 86% registered nurse and 14% was enrolled nurses. 3. The experience of nurses was ranged from less than one year to more than 10 years. 4. The pre and post test score on level of nurses' knowledge on advance cardiac surgery instruments were 5.1 and 9.11 respectively. 5. The pre and post test score on level of nurses' competency and confidence in deliver advance cardiac instruments were 2.79 and 4.6 respectively. The post score on nurses' knowledge on advance cardiac surgery instruments was 9.11 which was much higher than the pre score 5.1. This showed that after implement the informative advance cardiac surgery instruments booklet program to the nurses will increase their advance cardiac surgery instruments knowledge. Therefore, the post test on the level of competency and confidence in deliver advance cardiac surgery instruments was 4.6 which was higher than the pre test score 2.79. This showed that the education program by using this informative pictured advance cardiac surgery instruments booklet to frontline nursing staff was effective and efficiency that they can act as patients advocate with competency. However, there is still limitation on the study that the responds rate was only 77%. Therefore, the result may not be generalized. Thus, further increasing the sample size to elaborate the effectiveness and efficiency in increasing nurses' competency and confidence in deliver advance cardiac surgery instruments with the aid of this booklet are needed.