



Service Priorities and Programmes
Electronic Presentations

Convention ID: 805

Submitting author: Mr Man Nok CHAN

Post title: Registered Nurse, North District Hospital, NTEC

Prevention of Post-operative Pneumonia Program to reduce postoperative respiratory complications

Chan MN (1), Lee Y (1), Wong WY (1), Lee SK (1), Lo KK (1), Lau WY (1), Lun PY (1), Ng YK (1), Leong HT(1)

(1)Department of Surgery, North District Hospital

Keywords:

Post-operative Pneumonia
postoperative respiratory complications
deep breathing exercise
oral hygiene
early ambulation
engagement of family members

Introduction

Introduction: As post-operative pneumonia can increase both the morbidity and mortality rate, the Prevention of Post-operative Pneumonia Program was introduced in September 2012 to protect patients from developing post-operative pneumonia.

Objectives

Objectives: (1) To prevent patients from acquiring post-operative pneumonia (2) To facilitate their recovery

Methodology

Methodology: Subjects were patients admitted for colorectal surgery, gastric surgery, breast surgery or urological surgery. Before the launch of the program, a department-wide promotion of the Prevention of Post-operative Pneumonia Program was conducted. The importance of this program in salvaging patient's life was emphasized among the whole team including doctors, nurses, nursing students and to the health care assistants. After preparing the health care professionals, patients are prepared. A Chest Promotion Video about deep breathing exercise is shown to patients before the operation. It can ensure patients to have a proper technique on deep breathing exercise. The importance of compliance in the breathing exercise is stressed. Besides, to reduce the oral bacterial count and improve the lung expansion, the maintenance of oral hygiene and early ambulation are also emphasized in the program. Most importantly, the engagement of family members for patient support can never be neglected. Outcome measures were categorized as: (1) Health related parameters for pneumonia, (2) Patient satisfaction survey.

Result

Results: During July 2010 to June 2011, the period before the implementation of the Program, there were 65 out of 1510 patients acquired post-operative pneumonia. In

September 2012, the Prevention of Post-operative Pneumonia Program was launched. From September 2012 to December 2012, after the implementation of the program, there were 3 out of 458 patients acquired post-operative pneumonia. It is an 83.7% reduction ($p < 0.01$) as compared with the result in 2010-2011. Conclusions: The Prevention of Post-operative Pneumonia Program was effective in protecting patients from acquiring post-operative pneumonia and facilitating their recovery. Engagement of patient and family members, emphasizing the importance of deep breathing exercise and staff engagement are the key elements for success.