



Service Priorities and Programmes Electronic Presentations

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Respiratory Failure Management Course-Surgical Class

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Introduction

Managing patients with respiratory failure especially in post-operative period is always a challenge to frontline staff. Moreover inappropriate management for patients on mechanical ventilation would lead to fatal consequence. Therefore HAHO triggers the development of Respiratory Failure Management Course-Surgical class in the Multi-disciplinary Simulation Skills Center of Queen Elizabeth Hospital in 2016.

Objectives

The objective of this course is to equip the newly recruited doctors and nurses with the practical skills and updated knowledge in the management of respiratory failure patients who are put on mechanical ventilation.

Methodology

The course targets on doctors and nurses from surgical, neurosurgical and cardiothoracic wards who would take care patients on mechanical ventilation or portable ventilator.

It is a 4.5 hours training program with three training components

- i) Pre-course basic knowledge delivery: Pre-course self-learning program including physiological aspect of mechanical ventilation and basic knowledge of ventilator management are provided to all candidates. Afterwards all candidates would be assessed with a pre-course MCQ test.
- ii) Practical skills section: It focuses on basic set up and hand-on management of commonly used ventilator and portable ventilator. Candidates can learn valuable practical tips concerning trouble shooting from the corresponding trainer in an interactive manner.
- iii) Scenario based simulation sessions: Total three scenario based simulation sessions are provided. These simulation sessions cover problems which are encountered commonly in daily ward duty. Candidates are guided to detect complications associated with mechanical ventilation and then solve it appropriately. After each simulation sessions, there are reflection and group discussion sessions. It makes sure that all candidates can be confident in dealing with similar problem in the future. Finally a post-course MCQ test is performed to evaluate the efficacy of the

course.

Result

Two surgical classes have been held on 6 Aug 2016 and 11 Jan 2017. Total 19 nurses and 15 doctors are enrolled. They are recruited from Department of Surgery, Department of Neurosurgery and Department of Cardiothoracic Surgery of Queen Elizabeth Hospital.

For doctors, the average score of pre-course test is 6.30 out of 10 and average score of post-course test is 8.85 out of 10 which show 40% improvement.

For nurses, the average score of pre-course test is 5.11 out of 10 and average score of post-course test in 7.99 out of 10 which show 56% improvement.

This shows that all candidates have significant improvement after attending the course.