



Service Priorities and Programmes
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Enhancement Program on Non-Invasive Ventilation Care for Chronic Obstructive Pulmonary Diseases Patients with Acute Hypercapnic Respiratory Failure

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Introduction

Over the last decade, non-invasive ventilation (NIV) has become the standard of care in treating Chronic Obstructive Pulmonary Disease (COPD) patients with acute hypercapnic respiratory failure. COPD patients contribute a major group of hospitalizations and the trend is still rising. To meet the growing demand of COPD patients, a NIV service for COPD patients has been launched in five pilot hospitals in September 2013. As nurses play an important role in the success of NIV treatment, nurses should be equipped with appropriate NIV knowledge and technical skills in NIV care. Therefore, a training program was organized by the respiratory division of the United Christian Hospital during July to August 2013 to enhance nurses' competency in NIV care.

Objectives

To enhance nurses' competency in NIV care for hospitalized COPD patients with acute hypercapnic respiratory failure.

Methodology

The enhancement program was run by experienced and qualified respiratory nurses which consisted of 4 identical sessions related to NIV care. The duration was 2.5 hours per each session. Target attendants were nurses working in medical wards who had experience in caring patients on NIV treatment. A pre & post test consisted of 15 multiple choice questions (MCQ) will be completed by each attendant before and after the training session. CNE point will be granted to the attendant who has passed the post test.

Result

There were 4 identical sessions related to NIV care organized during July to August 2013. A total of 49 nurses who were working in medical wards of local hospitals have attended the lectures. From the evaluation of the pre & post 15 MCQ test, the pre test mean score was 9.65 and post test was 11.67. We use paired-samples T-test to compare the mean scores and the p-value was < 0.001. The result shows that after

attending the enhancement program, there was a significant improvement in nurses' competency in NIV care. Competent nurses contribute a major role in the success of NIV service. Our training program could help nurses to enhance their knowledge and skills in NIV care.