MOBILE VENTILATOR SUPPORT (MOVES) - ENHANCEMENT ON CARING PATIENTS WITH VENTILATOR SUPPORT

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Introduction
Invasive mechanical ventilation (IMV) and non-invasive ventilation (NIV) support are commonly employed to treat patients with acute respiratory failure. However, not all these patients are suitable candidates to be admitted to Invasive Care Unit and some of them are cared in general wards. The quality of care may not be optimized. In 2017, our respiratory team launched a new program MOBILE VENTILATOR SUPPORT (MOVES) aims at providing medical and nursing support to patients with IMV and NIV on the general wards of the Medical & Geriatrics Department in the United Christian Hospital.

Objectives
To evaluate the effectiveness of the quality of care by MOVES programme for patients with IMV and NIV support on general medical wards.

Methodology
The MOVES team consists of specialist respiratory physicians and nurses, the team actively assesses patients on NIV or IMV, and provides professional input on ventilator care on general medical wards. The service includes optimizing ventilator parameters, ascertaining diagnosis causing respiratory failure, NIV mask fittings, medication modifications and taking over of patients to respiratory beds for further management. The role of the MOVES nurse is to monitor patient progress, provide education to general medical nurses on ventilator nursing care and to communicate with respiratory physician on the treatment of patient's care.

Result
After the implementation of MOVES program, the number of NIV days was greatly reduced from 4.9 days to 2.9 days. The average NIV mask leakage and medical device related pressure injuries were significant reduced. The successful weaning rate for IMV cases was nearly 60%. The feedback from healthcare providers and patients to our MOVES program was positive. MOVES programme greatly reduces ventilator days and hence reduces healthcare utilization and ventilator-associated complications. It is cost-effective in patient care and assures high-quality patient care. Doctors and nurses in MOVES team can extend their specialist skills to
patients requiring IMV/NIV on general wards by leveraging upon members of the general wards.