

International Conference on

Chest

November 17-18, 2016 Dubai, UAE



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Noninvasive Ventilation (NIV) in Acute Respiratory Failure

Noninvasive ventilation (NIV) is the delivery of positive pressure ventilation to the upper airway without the need for invasive artificial airway. NIV has been extensively used in clinical practice in the last two decades. NIV is well recognized therapy in selected patients with acute respiratory failure (ARF) related to exacerbation of chronic obstructive pulmonary disease (COPD), acute cardiogenic pulmonary edema and immuno compromised patients. Several studies have also shown that noninvasive therapy plays a substantial role in reducing the need for endotracheal intubation, hospital stay, morbidity and mortality. Despite the presence of evidence supporting the use of NIV, there are still wide variations in the actual initiation, usage and NIV utilization throughout the world. This presentation will discuss the rationale to treat acute respiratory failure (ARF) with NIV, considering timing of initiation for such therapy. In early stage of un-established ARF, NIV may prevent invasive ventilation while in established ARF, if predictors of success met, this therapy may help to avoid the endotracheal intubation. Role of NIV in different sittings will be discussed with providing up-to date evidence based medicine. This presentation will demonstrate some data for utilization of NIV.

Biography

Mohammed AlAhmari is a consultant and Assistant Professor of Respiratory Care. He is the Vice Dean of Post-graduate Studies & Scientific Research; Chairman in Respiratory Care department and Institutional Research Board at Prince Sultan College of Health Sciences, Saudi Arabia. He completed his PhD in Respiratory Medicine, UCL, UK. He is a registered Respiratory Therapist (RRT); certified Tobacco Treatment Specialist (CTTS); and fellow of American Association for Respiratory Care (FAARC). In 2008, he was appointed as a Saudi Governor of Respiratory Care at International Council of Respiratory Care. He won research awards from ATS in 2011 and 2012 for his research on "The NIV in OSA and inflammation related to this therapy". He has Chaired and lectured at many national and international scientific meetings. He serves as an Editorial Board Member in scientific journals.

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