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Title: Non invasive positive pressure ventilation experience in Iran

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Body: Background: Non invasive ventilation (NIV) is a kind of ventilations which does not need intubation and receives oxygen with positive pressure. There are different studies about using of NIV in different countries but we could not find any survey about this topic in Iran. So, we did this study to find answers for these main questions: How common is NIV? What were the most diagnoses? Where was the most common area for using of NIV? Method: We collected information for this cross-sectional retrospective study by reviewing 326 patient's document who received NIV in their admission period because of different reasons between January, 2011 – March, 2012 in Masih Daneshvari Hospital-National Research Institute of Tuberculosis and Lung diseases (NRITLD)- and filled out special checklist. Then, we evaluated the information to find the answers. Results: We found that in that period, 326 patients received NIV .Their mean age was 61.99 years old. There Hypertension was the most basal diseases in 40.5% patients. Chronic obstructive pulmonary disease with 55.26 % and sleep apnea with 9.21 %were the most common diagnosis for receiving NIV. There were 4.26 % mortality between samples.NIV were used in pulmonary wards (65.08%), emergency room (25%), ICU or CCU were in the next level. Conclusion: According to the study, Patients with COPD and Sleep apnea were the most users of NIV. NIV were used in any area out of intensive care units. NIV because of using in any area out of intensive care units can be more cost benefit for patients and hospitals. We recommend using of a trained group of nurses under a pulmonologist guide for easier and safer using of NIV out of intensive care units and more NIV educational classes for related specialists.