Predictive factors for the success of non invasive mask ventilation in infants and children with acute respiratory failure

Summary / Zusammenfassung
Objective: Noninvasive mask ventilation (NIV) is a treatment option in acute respiratory failure in adults. This study was performed to determine prognostic variables for the success of NIV in a group of infants and children with respiratory failure for a wide range of reasons.

Design: Prospective, clinical study.

Setting: Multidisciplinary, neonatal–pediatric intensive care unit of a university teaching hospital.

Methods: Descriptive study of infants and children 80% after 1 hr of NIV predicted nonresponse with a sensitivity of 56%, specificity of 83%, and positive and negative predictive value of 71%.

Conclusion: NIV can be successfully applied to infants and children with acute respiratory failure in the setting of a pediatric intensive care unit. The level of FIO2 after 1 hr of NIV may be a predictive factor for the treatment success.

Publications / Publikationen

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