DIAPHRAGMATIC ULTRASONOGRAPHY AS A PREDICTOR OF VENTILATORY WEANING: A SYSTEMATIC REVIEW

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Abstract

Objectives: To review the evidence on Diaphragmatic Ultrasonography as a predictor of success in ventilatory weaning. Methodology:Systematically review using the PICO methodology and keywords: Ultrasound, Ultrasound, Diagnostic imaging, Diaphragm, Weaning, Intensive Care Unit, Artificial Respiration, Mechanical Ventilation, Ventilator Weaning. Published cohort studies were used without language and year restrictions that addressed the use of ultrasound to predict success in weaning and ventilatory extubation. Studies with patients under 18 years of age, case reports, literature reviews, results that do not bring a cutoff value for thickness and diaphragmatic excursion and the definition of failure in the weaning and extubation process were excluded. In addition, the Boolean operators "and" and "or" were used. Results:459 were found, which after exclusion due to duplication and reading of titles and abstract, only 11 were selected by the inclusion criteria. The samples ranged from 34 to 193 individuals. We can evidence that the use of USG to assess the thickness and excursion of the diaphragm in patients undergoing invasive ventilatory support is effective in predicting success in the weaning and extubation process. Conclusion: It is concluded that Diaphragmatic Ultrasonography has great applicability to assess the ability to predict success or failure in removing invasive ventilatory support.

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