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عنوان مقاله:

Evaluation of the Effect of Three Different Tidal Volumes on Internal Jugular Vein Collapsibility Index in Hypovolemic Mechanically-Ventilated Patients

Before and After Fluid Therapy

محل انتشار:

مجله علمی پژوهشی دانشگاه علوم پزشکی زنجان, دوره 31, شماره 147 (سال: 1402)

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خلاصه مقاله:

Background and Objective: The diameter of the internal jugular vein changes with variations in intrathoracic pressure during inhalation and exhalation and this difference increases during hypovolemia. One of the causes of increased intrathoracic pressure in patients under mechanical ventilation is the tidal volume, which can affect the diameter of the internal jugular vein. On this basis, the present study was designed to investigate the effect of tidal volume on the internal jugular collapsibility index. Materials and Methods: In this clinical trial, r hypovolemic patients under mechanical ventilation were studied and three tidal volumes of λ , λ , and λ cc/kg were applied to the patients. Subsequently, patients received fluid therapy and the measurements were repeated. Finally, the internal jugular vein diameters and the indices before and after the fluid therapy were measured in the three mentioned tidal volumes. A repeated measures t- test was used to compare the data. Results: The means of the internal jugular collapsibility index in the three tidal volumes of λ , λ , and λ cc/kg were λ v. λ d. λ v. λ v. λ d. λ v. λ v. v. λ v. v. λ v. v. λ v. λ

كلمات كليدى:

Internal jugular vein, Collapsibility index, Tidal volume, Hypovolemia, Ventilator

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