

عنوان مقاله:

Evaluation of the levels of cardiac troponin I as an end point in resuscitation of dogs with hemorrhagic shock

محل انتشار:

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خلاصه مقاله:

This study sought to assess the levels of cardiac troponin I, as a resuscitation end point, along with oxygen delivery (DO₂) and oxygen consumption (VO₂) during resuscitation of dogs with experimental hemorrhagic shock using lactated Ringer's solution or 6% hydroxyethyl starch. After induction of anesthesia (control measurements), hemorrhagic shock was induced by rapid removal of blood to achieve a mean arterial pressure (MAP) of 40 to 50 mmHg within 30 minutes and then maintained in hypovolemic situation for additional 30 minutes (second and third stages of measurements). Afterward, the dogs were randomly assigned to two groups which received 20 ml/kg lactated Ringer's solution or 5 ml/kg Hydroxyethyl starch, in four consecutive 15 minutes intervals (forth stage of measurements). One hour after the last resuscitation step, final measurements were performed. Hemorrhagic shock caused marked elevation in the levels of cTnI and reduction in DO₂ and VO₂ ($p < 0.05$). Following resuscitation, a significant reduction was observed in the levels of cTnI and VO₂ but a significant elevation was seen in DO₂ levels ($p < 0.05$), without significant differences between the groups ($p > 0.05$). The results of this study proved that cTnI can be evaluated for better monitoring during fluid therapy in hemorrhagic shock, as a novel resuscitation end point.

کلمات کلیدی:

cardiac troponin I, Dog, hemorrhagic shock

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