عنوان مقاله:

Effects of mild hypothermia therapy on the levels of glutathione in rabbit blood and cerebrospinal fluid after cardiopulmonary resuscitation

محل انتشار:

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خلاصه مقاله:

Objective(s): The aim of this study wasto investigate the effects of mild hypothermia therapy on oxidative stress injury of rabbit brain tissue after cardiopulmonary resuscitation (CPR). Materials and Methods: Rabbit models of cardiac arrest were established. After the restoration of spontaneous circulation, ۵۰ rabbits were randomly divided into normothermia and hypothermia groups. The following five time points were selected: before CPR, immediately after CPR, ۲ hr after CPR (hypothermia group reached the target temperature), ۱۴ hr after CPR (hypothermia group before rewarming), and ۲۴ hr after CPR (hypothermia group recovered to normal temperature). Glutathione (GSH) concentrations in both the blood and cerebrospinal fluid of the normothermia and hypothermia groups were measured. Results:At ۲, ۱۴, and ۲۴ hr after CPR, the GSH concentrations in both the blood and cerebrospinal fluid were significantly higher in the hypothermia group than in the nomorthermia group. Conclusion:Mild hypothermia therapy may increase GSH concentrations in rabbit blood and cerebrospinal fluid after CPR as well as promote the recovery of .cerebral function

کلمات کلیدی:

(Cardiopulmonary resuscitation (CPR), Mild hypothermia therapy Glutathione (GSH