

论著

亚甲蓝在重度失血性休克中的治疗效果

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摘要 摘要: 目的 研究亚甲蓝在重度失血性休克中的治疗效果。方法 采用兔失血性休克-复苏模型, 分为休克组、亚甲蓝组(复苏时应用亚甲蓝), 观察休克前后肿瘤坏死因子 α (TNF α)、白细胞介素(IL)-6、IL-8、一氧化氮(NO)、乳酸(LA)、平均动脉压(MAP)的变化, 及动物12 h存活率。结果 动物失血性休克后, 血浆TNF α 、IL-6、IL-8、NO、LA水平较休克前显著升高($P<0.01$); 复苏后, 亚甲蓝组动物MAP明显高于休克组($P<0.01$), 而血浆中TNF α 、IL-6、IL-8、NO、LA水平显著低于休克组($P<0.01$); 两组动物的存活率差异无显著性。结论 尽管亚甲蓝未改善重度失血性休克动物的预后, 但能帮助升高并维持休克动物的血压, 对休克的治疗有一定价值。

关键词 [失血性休克](#) [细胞因子](#) [一氧化氮](#) [亚甲蓝](#)

分类号

Effects of Methylene Blue on Refractory Hemorrhagic Shock

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Abstract ABSTRACT: Objective To evaluate the effects of methylene blue (MB) on refractory hemorrhagic shock. Methods Totally 24 rabbits subjected to prolonged hemorrhagic shock and resuscitation were randomly divided into hemorrhagic shock group (12 rabbits) and MB group (12 rabbits; MB was administered immediately after resuscitation was performed). The plasma levels of tumor necrosis factor α (TNF α), interleukin (IL)-6, IL-8, nitric oxide (NO), lactic acid (LA), and mean arterial pressure (MAP) were detected before shock, immediately after resuscitation, and 0.5, 2, and 4 hours after resuscitation. The 12-hour survival rates were observed. Results The plasma levels of TNF α , IL-6, IL-8, NO and LA after shock were significantly higher than before shock ($P<0.01$), and maintained at high levels. Compared with the shock group, higher MAP and lower plasma levels of TNF α , IL-6, IL-8, NO, and LA were observed in the MB group after resuscitation ($P<0.01$). The 12-hour survival rates were not significantly different between shock group and MB group. Conclusion Although MB can not improve the prognosis of refractory hemorrhagic shock, it can increase and maintain the MAP and thus play a beneficial role in the treatment of hemorrhagic shock.

Key words [hemorrhagic shock](#) [cytokines](#) [nitric oxide](#) [methylene blue](#)

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