

不同剂量的右美托咪定在全麻儿童全口龋齿治疗中的应用

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【摘要】目的 观察不同剂量的右美托咪定用于全麻下儿童全口龋齿治疗中的效果。**方法** 将 120 例在全麻下行全口龋齿治疗的儿童随机分为 3 组, 对照组 C 组, 低剂量右美托咪定组 (L 组) 和高剂量右美托咪定组 (H 组), 每组 40 例。静脉给予咪唑安定 1 mg, 芬太尼 1.5 $\mu\text{g}/\text{kg}$, 丙泊酚 2 mg/kg, 罗库溴铵 0.6 mg/kg, 气管插管, 吸入 1~2% 七氟烷, 静脉泵入丙泊酚 5~8 mg/(kg·h) 和不同负荷剂量右美托咪定 (10 min 内滴完) 并维持。C 组, 生理盐水; L 组右美托咪定 0.5 $\mu\text{g}/\text{kg}$ 并以 0.2 $\mu\text{g}/(\text{kg}\cdot\text{h})$ 维持, H 组右美托咪定 1 $\mu\text{g}/\text{kg}$ 并以 0.4 $\mu\text{g}/(\text{kg}\cdot\text{h})$ 维持。记录诱导前 (T1)、插管后 (T2)、插管后 15 min (T3)、术后拔管时 (T4) 的收缩压和心率。记录拔管时间以及在苏醒期间的 PAEDs 评分。记录患儿入手术室、术后 15 min、术后 30 min 的 Ramsay 评分。采用 GraphPad Prism5 软件包进行统计学分析。**结果** L 组和 H 组在 T3、T4 时间点的血压和心率均低于 C 组, 且差异有统计学意义 ($P<0.05$)。术后拔管时间 L 组和 C 组间无明显差异, 但 H 组术后拔管时间明显延长。和 C 组比较, H 组和 L 组 PAEDs 评分均有显著性差异。术后 Ramsay 评分有显著性差异: 术后 30 min L 组的均值接近 2, H 组到 45 min 才接近 2。**结论** 右美托咪定用于儿童全口龋齿全麻治疗安全性良好, 能提高苏醒质量, 建议采用右美托咪定负荷剂量 0.5 $\mu\text{g}/\text{kg}$, 以 0.2 $\mu\text{g}/(\text{kg}\cdot\text{h})$ 维持。

【关键词】 右美托咪定 儿童 龋齿 全身麻醉

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Application of different doses of dexmedetomidine in the treatment of complex caries in children under general anesthesia

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【Abstract】Objective To observe the effect of different doses of dexmedetomidine on the treatment of complex dental caries in children under general anesthesia. **Methods** 120 children with complex dental caries under general anesthesia were randomly divided into three groups: control group C, low dose dexmedetomidine group (L group) and high dose dexmedetomidine group (H group) with 40 cases in each group. The children in the experimental group received intravenously midazolam 1 mg, fentanyl 1.5 $\mu\text{g}/\text{kg}$, propofol 2 mg/kg, rocuronium 0.6 mg/kg, after tracheal intubation, they inhaled 1~2% sevoflurane, received intravenously propofol 5-8 mg/kg and different doses of dexmedetomidine, Group C, normal saline; group L, dexmedetomidine 0.5 $\mu\text{g}/\text{kg}$ loading dose within 10 min and then kept at 0.2 $\mu\text{g}/(\text{kg}\cdot\text{h})$, group H, dexmedetomidine 1 $\mu\text{g}/\text{kg}$ loading dose within 10 min then kept at 0.4 $\mu\text{g}/(\text{kg}\cdot\text{h})$. The extubation time and PAEDs score during recovery were recorded. Ramsay score was recorded before drugs injected,