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Wang Li,Zhao Jinning,Hu Zhangxue,et al.High frequency oscillatory ventilation combined with surfactant in treatment of preterm infants with respiratory distress syndrome: report of 100 cases[J].J Third Mil Med Univ,2014,36(19):2034-2036.

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高频振荡通气联合肺表面活性物质救治早产儿呼吸窘迫综合征的临床疗效观察 分享到:

《第三军医大学学报》[ISSN:1000-5404/CN:51-1095/R] 卷: 36卷 期数: 2014年第19期 页码: 2034-2036 栏目: 论著 出版日期: 2014-10-15

Title: High frequency oscillatory ventilation combined with surfactant in treatment of preterm infants with respiratory distress syndrome: report of 100 cases

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关键词: 早产儿; 呼吸窘迫综合征; 高频振荡通气; 肺表面活性物质

Keywords: preterm infants; respiratory distress syndrome; high frequency oscillatory ventilation; pulmonary surfactant

分类号: R605.973; R722.6; R725.638

文献标志码: A

摘要: 目的 观察并比较高频振荡通气 (high frequency oscillatory ventilation, HFOV) 和常频机械通气 (conventional mechanical ventilation, CMV) 及其联合肺表面活性物质 (pulmonary surfactant, PS) 治疗早产儿呼吸窘迫综合征 (respiratory distress syndrome, RDS) 的临床疗效。 方法 将100例需机械通气联合PS治疗的RDS早产儿,按随机数字表法分为两组: HFOV+PS组 (n=48) 及 CMV+PS组 (n=52); 比较两组患儿治疗前后临床症状、血气分析结果、平均住院天数、上机时间、治愈率及并发症发生率。 结果 HFOV+PS组治疗后临床症状、血气分析结果较CMV+PS组改善更为明显,平均住院天数、上机时间较CMV+PS组明显缩短,治愈率较CMV+PS组明显提高 (P<0.05); 而并发症的发生率两组比较差异无统计学意义 (P>0.05)。 结论 HFOV+PS联合治疗早产儿RDS疗效显著,减少早产儿病死率并提高其治愈率。

Abstract: Objective To determine the therapeutic effects of pulmonary surfactant (PS) combined with high frequency oscillatory ventilation (HFOV) or conventional mechanical ventilation (CMV) in preterm infants with respiratory distress syndrome (RDS). Methods One hundred preterm

RDS infants within 12 h after birth admitted in our department from August 2012 to December 2012 were randomly divided into 2 groups, HFOV+PS group (n=48) and CMV+PS group (n=52). Their clinical symptoms and the results of blood gas before and after treatment, mechanical ventilation time, hospitalization time, cure rate and the incidences of complications were compared between the 2 groups. Results In HFOV+PS group, both clinical symptoms and blood gas got better ($P<0.05$), while, hospitalization time and mechanical ventilation time were obviously shorter than CMV+PS group ($P<0.05$). What's more, cure rate was significant higher in HFOV+PS group than CMV+PS group ($P<0.05$). But the incidences of complications had no statistically significance between the 2 groups ($P>0.05$). Conclusion HFOV+PS shows remarkable curative effect in treatment of RDS, and it has important significance in reducing premature mortality and improving cure rate at the same time.

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更新日期/Last Update: 2014-09-29

