

عنوان مقاله:

The Use of Albumin Add-on Therapy to Loop Diuretic for the Management of Pleural Effusion in Mechanically Ventilated III Children

محل انتشار:

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خلاصه مقاله:

Background: Pleural effusion (PE) is common in children with acute illness that are admitted to the intensive care unit (ICU). The present study aimed to investigate the efficacy of albumin add-on therapy to furosemide in contrast to furosemide treatment only for treating transudative PE.Methods: The present randomized clinical trial was conducted on fifty 1-1Y-year-old children (under mechanical ventilation admitted at ICU randomly allocated to treatment with daily furosemide only (Y mg/kg) or albumin () gr/kg) add-on therapy to furosemide (Y mg/kg) for three days. The vital signs, venous blood gas, the pleural effusion volume, serum potassium level, potassium, and dopamine requirement were measured daily and compared between the groups. Results: Comparison of the two groups showed a significant decrease in the pleural fluid volume (P<...), base excess (P<...), diastolic blood pressure (P=...), heart rate (P=∘.∘∘٩), and potassium (P=∘.∘∘۵) in the intervention group than the control group. The mean of dopamine and potassium doses requirement were Y.Ya±o.9a and Y.9o±o.A9 for the intervention group, and 1.oo±o.oo and Y.oo±1.F1 for the control group, respectively. The comparison of the two groups showed an insignificant difference between them (P=∘.YF for the dopamine injection and P=∘.∆Y for the potassium prescription). Conclusion: As the first study worldwide, considerable benefits were observed in the use of albumin and furosemide combination among PICU-admitted children under mechanical ventilation who required negative fluid balance. In addition, no hemodynamic instability or death was reported. During this short-term follow-up period, a satisfactory percentage of children were separated from .the ventilator and transferred to the ward

كلمات كليدى:

Loop diuretics, Albumin infusion, Mechanical ventilation, Intensive care

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