

Which is more effective for Nebulization in Bronchiolitis: Hypertonic Saline or Epinephrine

Saba Anwar, R S Sethi, Om Shankar Chaurasiya, Anuj S Sethi

Department of Paediatrics, Maharani Laxmi Bai Medical College, Jhansi (Uttar Pradesh)

ABSTRACT

A prospective, open labelled, controlled trial was conducted in tertiary care centre, using standard therapy ie epinephrine and hypertonic saline as study drug in two group of patients.

Children 2 month to 24 months of age with first episode of bronchiolitis were included in the study while excluding those with cardiac disease, immuno deficiency and critical illness at presentation. Nebulized epinephrine in Group A (epinephrine group) (n=33) and hypertonic saline group B (n=32) was used in patients of bronchiolitis ,respiratory score at admission and after 24 hrs and duration of stay of both the groups were compare.In adrenaline group and hypertonic saline group, there was no statistical significant difference in base line admission clinical score whereas hypertonic saline was more effective for clinical score at 24 hours($p<0.05$) and duration of stay($p<0.05$) Nebulised hypertonic saline was found to be safe, effective and superior to adrenaline (standard therapy) in management of bronchiolitis in this study