primary studies - published RCT

Purified fusion protein vaccine protects against lower respiratory tract illness during respiratory syncytial virus season in children with cystic fibrosis.

Code: PM8684872 **Year:** 1996 **Date:** 1996 **Author:** Piedra PA

Study design (if review, criteria of inclusion for studies)

double blind, placebo-controlled study

Participants

17 CF children (mean age 4.5 years) treated, 17 CF children (mean age 5.8 years) non treated

Interventions

children received PFP-2 vaccine or a saline vaccine.

Outcome measures

At enrollment the Shwachman clinical score, Brasfield radiographic score, oxygen saturation (SpO2), anthropometric indices and other variables were recorded. After vaccination the reactions were assessed daily for 7 days. During the RSV season weekly telephone interviews were performed and children with an acute respiratory illness were evaluated and cultured for RSV. Serum was drawn before vaccination, 1 month after vaccination and at the end of the RSV season and tested for antibodies to RSV.

Main results

Other than age the baseline measurements at enrollment were similar between groups. The PFP-2 vaccine produced mild local reactions and induced a significant neutralizing antibody response in two-thirds of the vaccinees and a significant enzyme-linked immunosorbent assay-fusion glycoprotein antibody response in nearly all the PFP-2 vaccinees. Vaccine-enhanced disease was not observed in PFP-2 vaccines infected with RSV. Protection against RSV infection was not observed; however, a significant reduction (t test, P

Authors' conclusions

Efficacy of the PFP-2 vaccine against lower respiratory tract illness during the RSV season was shown in RSV-seropositive children with CF.

http://dx.doi.org/10.1097/00006454-199601000-00006

See also

The Pediatric infectious disease journal YR: 1996 VL: 15 NO: 1

Keywords

Child; fusion; Immunization; Infant; Infection; pharmacological_intervention; placebo; Proteins; Respiratory Syncytial Virus Infections; Respiratory Tract Diseases; Respiratory Tract Infections; Virus; Bronchiolitis;