

primary studies - published RCT

# Continuous versus intermittent infusions of ceftazidime for treating exacerbation of cystic fibrosis.

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

multicenter, randomized crossover study

# **Participants**

Patients with chronic Pseudomonas aeruginosa colonization. 69 of the 70 patients enrolled in the study received at least one course of antibiotic treatment

## Interventions

patients received two successive courses of intravenous tobramycin and ceftazidime (200 mg/kg of body weight/day) for pulmonary exacerbation administered as thrice-daily short infusions or as a continuous infusion.

#### **Outcome measures**

The primary endpoint was the variation in the forced expiratory volume in 1 s (FEV1) during the course of antibiotic treatment

#### Main results

The improvement in FEV1 at the end of therapy was not statistically different between the two treatment procedures (+7.6% after continuous infusion and +5.5% after short infusions) but was better after continuous ceftazidime treatment in patients harboring resistant isolates (P

# **Authors' conclusions**

the continuous infusion of ceftazidime did not increase its toxicity and appeared to be as efficient as short infusions in patients with cystic fibrosis as a whole, but it gave better results in patients harboring resistant isolates of P. aeruginosa.

http://dx.doi.org/10.1128/AAC.00174-09

## See also

Antimicrob Agents Chemother. 2009 Sep;53(9):3650-6. Epub 2009 Jun 15.

# Keywords

Adolescent; Adult; Anti-Bacterial Agents; Ceftazidime; Continuous; Drug Administration Schedule; Intermittent; pharmacological\_intervention; Intravenous; Bacterial Infections; Respiratory Tract Infections; Respiratory Tract Diseases; Infection; Exacerbation; Pseudomonas aeruginosa; Pseudomonas; Tobramycin; Cephalosporins; Aminoglycosides;