

primary studies - published RCT

# Alternative antibiotics for the treatment of Pseudomonas infections in cystic fibrosis.

Code: PM6311788 Year: 1983 Date: 1983 Author: Mastella G

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

randomized, double-blind trial

# **Participants**

111 cystic fibrosis patients with predominant and susceptible pseudomonas in their sputum.

#### Interventions

azlocillin, piperacillin, ceftazidime, cefsulodin or cefoperazone

### **Outcome measures**

Results were evaluated by a clinical, radiological and bacteriological scoring system

#### Main results

the best results were obtained with ceftazidime, followed by cefsulodin and piperacillin. However, pseudomonas was eradicated in only 22 (23%) of the cases with the most active drugs and persisted or reappeared in all the cases 1 to 3 months later. Ceftazidime always eradicated Staph. aureus and Haemophilus influenzae associated with pseudomonas. Similar eradication occurred nearly always with cefsulodin but rarely with the other drugs. No serious drug reaction occurred but a later fever and rash with piperacillin, transient diarrhoea with cefoperazone, vomiting with cefsulodin, and very frequent eosinophilia with ceftazidime should be mentioned.

### **Authors' conclusions**

These five drugs offer, in varying degree, alternatives to traditional anti pseudomonas antibiotics in cystic fibrosis pulmonary infections, but they should be used only against well-proven resistant strains. Ceftazidime is best and cefotaxime and latamoxef (moxalactam) least useful.

 $\underline{\text{http://www.mrw.interscience.wiley.com/cochrane/clcentral/articles/295/CN-00032295/frame.html} \\$ 

### See also

J Antimicrob Chemother. 1983 Jul;12 Suppl A:297-311.

## Keywords

Adolescent; Anti-Bacterial Agents; Azlocillin; Bacterial Infections; Cefoperazone; Cefotaxime; Cefsulodin; Ceftazidime; Cephalosporins; Child; Infection; Moxalactam; Penicillins; pharmacological\_intervention; Piperacillin; Pseudomonas aeruginosa; Pseudomonas; Respiratory Tract Diseases; Respiratory Tract Infections; Exacerbation; Haemophilus influenzae; Staphylococcus aureus;