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Ceftolozane/tazobactam sensitivity patterns in *Pseudomonas aeruginosa* isolates recovered from sputum of cystic fibrosis patients

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## ABSTRACT

Ceftolozane/tazobactam is a combination intravenous antibiotic with potentially important activity against drug resistant Gram negative organisms. Ceftolozane/tazobactam's *in vitro* activity was evaluated in 30 samples collected from 23 adult cystic fibrosis patients with extended and pan-resistant *Pseudomonas aeruginosa* (PSAR) in 2015. Testing results demonstrated that 30% of the isolates were susceptible, 13% were intermediate, and 57% were resistant. This suggests that ceftolozane/tazobactam may be a useful antibiotic in carefully selected, multi-drug resistant *Pseudomonas* isolates.

*Pseudomonas aeruginosa* (PSAR) colonizes the respiratory tracts of approximately 65% of adult cystic fibrosis (CF) patients (Cystic Fibrosis Foundation 2014). As CF patients age, there is an increasing amount of antibiotic resistance observed in PSAR. The cause is likely multifactorial, but one association is repeated exposure to intravenous antibiotics and hospital

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