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Cochrane Database of Systematic Reviews - - Cochrane Review

# Antibiotic treatment for nontuberculous mycobacteria lung infection in people with cystic fibrosis

**Code:** CD010004

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

Any randomized controlled trials comparing nontuberculous mycobacteria antibiotics to no antibiotic treatment, as well as one nontuberculous mycobacteria antibiotic regimen compared to another nontuberculous mycobacteria antibiotic regimen, in individuals with cystic fibrosis.

## Participants

Adults and children diagnosed with CF who have NTM pulmonary infection (at least one respiratory specimen positive by culture for NTM)

## Interventions

antibiotics to treat NTM pulmonary infections. NTM antibiotics vs no antibiotic treatment as well as one NTM antibiotic regimen compared to another NTM antibiotic regimen. Single or multiple, oral, inhaled or intravenous antibiotics.

## Outcome measures

Primary outcomes: 1. Lung function (FEV1, FVC, FEF25<sup>75</sup>); 2. Pulmonary exacerbations; 3. Adverse events.

## Main results

One completed trial was identified by the searches, but data specific to individuals with cystic fibrosis could not be obtained from the pharmaceutical company.

## Authors' conclusions

This review did not find any evidence for the effectiveness of different antimicrobial treatment for nontuberculous mycobacteria lung disease in people with cystic fibrosis. Until such evidence becomes available, it is reasonable for clinicians to follow published clinical practice guidelines for the diagnosis and treatment of nodular or bronchiectatic pulmonary disease due to *Mycobacterium avium* complex or *Mycobacterium abscessus* in patients with cystic fibrosis.

<https://doi.org/10.1002/14651858.CD010004.pub5>

## See also

Waters V, Ratjen F. Antibiotic treatment for nontuberculous mycobacteria lung infection in people with cystic fibrosis. Cochrane Database of Systematic Reviews 2020, Issue 6. Art. No.: CD010004. DOI: 10.1002/14651858.CD010004.pub5.

## Keywords

Adult; Aged; Bacterial Infections; Infection; Mycobacteriosis; pharmacological\_intervention; Respiratory Tract Diseases; Respiratory Tract Infections; Anti-Bacterial Agents;