Navigating Nontuberculous Mycobacteria Lung Disease

What is NTM-LD?



- ☐ Infection caused by nontuberculous mycobacteria (NTM) that are found in water and soil
- ☐ Mycobacterium avium complex (MAC) is the most common NTM that causes lung disease (NTM-LD)
- ☐ Can cause permanent lung damage, but is treatable

Risk Factors for NTM-LD



Lung Diseases



Immune Disorders



Others

- Bronchiectasis
- COPD
- · Cystic fibrosis
- Prior infections like TB

- · Autoimmune diseases
- Immunodeficiencies
- Hematologic malignancies
- Certain medications, such as immunosuppressants
- Environmental exposure
- Female sex and older age

Symptoms of NTM-LD



Cough



Chest Pain



Shortness of breath



Fever



Fatigue



Cough up thick mucus or blood

See a pulmonologist if you have symptoms that are unexplained or will not go away, or if you have a treated lung condition with worsening symptoms

How is NTM-LD Diagnosed?



Symptoms described above that cannot be explained by another diagnosis



Chest X-ray or CT scan findings consistent with NTM-LD

<u>and</u>



Presence of NTM in sputum (mucus) samples; bronchoscopy or lung biopsy may be necessary to obtain samples

<u>and</u>

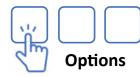
What Should I Know About NTM-LD Treatment?

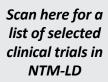


1. Negative sputum (mucus) cultures – culture conversion

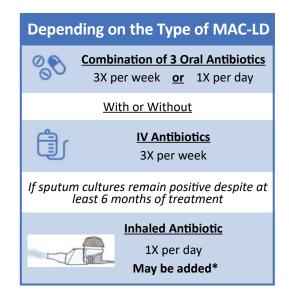
2. Reduce symptoms

3. Improve or stabilize chest X-ray and/or CT scan









Potential Medication Side Effects Include:



Vision Changes



Rash



Hearing Changes



Leg Numbness



Elevated Live Enzymes



Hoarseness



GI Upset, Nausea, Vomiting



Decreases in Blood Counts



- Your doctor should have your sputum tested to determine which antibiotics will be effective
- ✓ Talk to your doctor if you experience any side effects, they are often manageable, and treatment can be continued
- ✓ Treatment should continue for 12 months after your first negative sputum culture

Other Treatments & Management Approaches



Airway Clearance Clears away mucus and improves lung function



Quit Smoking (and Vaping)



Treat Other Coexisting Lung Disease(s)



Pulmonary Rehabilitation



Exercise Regularly



Maintain a Healthy Diet and Body Weight

Additional Resources

Nontuberculous Mycobacteria (NTM) (chestnet.org)

Evolution to Bronchiectasis and NTM 360 | Bronchiectasis and NTM 360 (bronchiectasisandntminitiative.org)

Learn about NTM Lung Disease | American Lung Association