

NTM Info & Research, Inc.



NTM Lung Disease & Bronchiectasis: Resources for **Patients**

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The pamphlet: A resource for patients



We Hear You and We Give Voice to Your Priorities and Concerns

Website:

- The patient's source of information on NTM lung disease
- Secure online chat forum

Patient Support:

- By phone and email
- Support groups
- Online support
- Social media: continually updated Facebook page, Twitter



A Catalyst for Research:

- Funded NTM section of Patient Registry
- Surveys on patient preferences and experiences gives patients a voice
- NTM & Bronchiectasis Research Consortia
- Help recruit for clinical trials and studies
- Work with other organizations on patient-reported outcome screening tools

Advocacy:

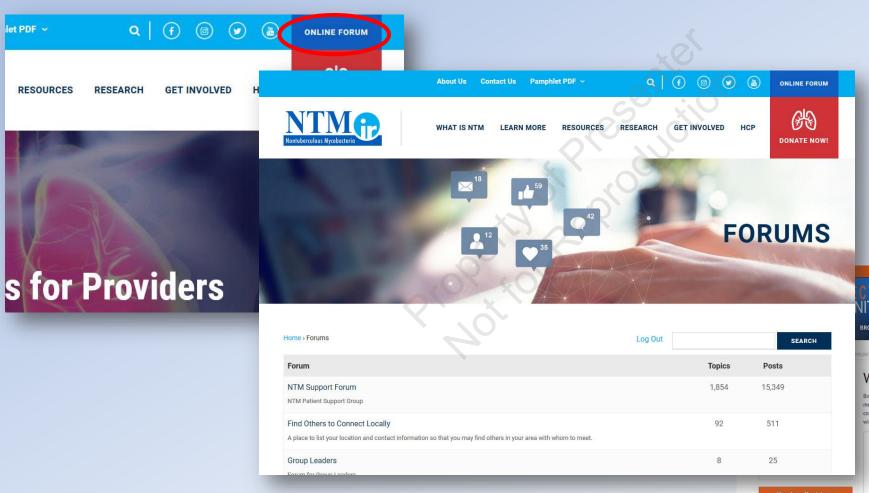
- Government, health and regulatory agencies
- FDA's Patient-Focused Drug Development program
- Pharmaceutical companies
- Expert panelist for FDA workshops on the development of antibiotics and clinical trial design

Education:

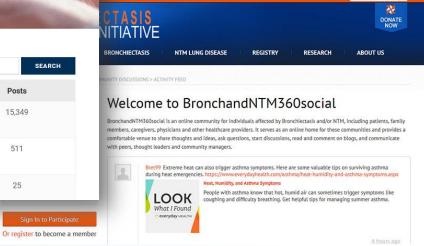
- "Insight" patient pamphlet
- Patient/physician conference



Online Forum for Patients



360Social





Resources for Patients

Local Support Groups





Additional Resources for Patients





Or give us a call:

305-667-6461

ext. 26 or ext. 32



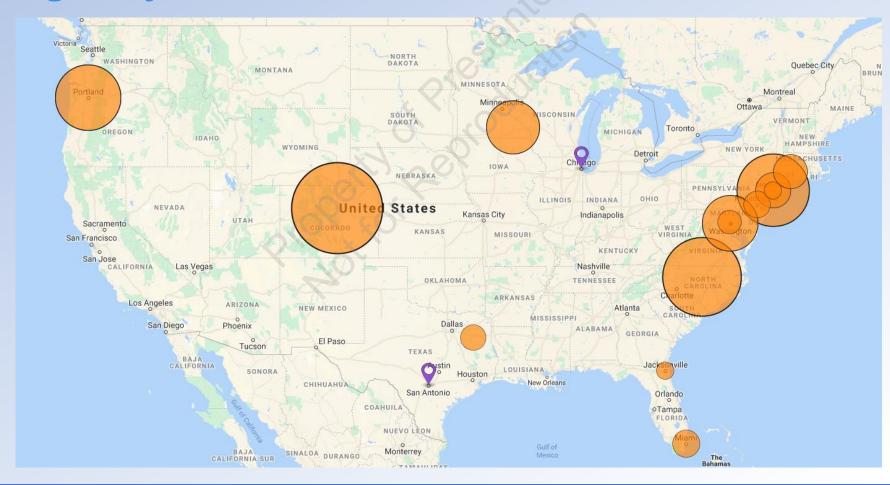
Live Events NTM & Bronchiectasis Conference

- CME-accredited Physician/Patient Conference
- o May 14-15, 2020, Philadelphia, PA
- May 14: Patient sessions; May 15: clinical & scientific sessions





Bronchiectasis & NTM Research Registry





NTM Research Consortium

ANNALSATS SUPPLEMENT

Patient-Centered Research Priorities for Pulmonary Nontuberculous Mycobacteria (NTM) Infection

An NTM Research Consortium Workshop Report

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Abstract

Nontuberculous mycobacteria (NTM) cause an increasingly important chronic and debilitating lung disease in older adults. Diagnosis is often delayed, although awareness among clinicians and infection; approval of more effective treatments with fewer side eff patients is increasing. When necessary, treatment often lasts 18-24 and easier administration; understanding the best chest physiother months and consists of three or four antibiotics that can have serious methods; validating and using tools to measure quality of life; and side effects. Relapses are common and commonly require resumption of prolonged therapy. Given the need for improved diagnostic techniques and clinical trials to identify new therapies or to improve are critical to ensure the best achievable outcomes for patients: (1 existing therapies, a group of North American clinicians and researchers formed the NTM Research Consortium (NTMRC) in

NTM infections; and (2) development of a geographically distribution. 2014. The NTMRC recognized the importance of including the patient network of experts in NTM disease to offer consultation or direct voice in determining research priorities for NTM. In November 2015, therapy after a diagnosis is made. patients, caregivers, patient advocates, clinical experts, and researchers gathered for a 1-day meeting in Portland, Oregon funded by the Patient-Centered Outcomes Research Institute. The meeting goal was quality of life

to define patient-centered research priorities for NTM lung infect Patients expressed frustration with the number of people who has endured years of missed diagnoses or inadequate treatment of N Participants identified as top research priorities the prevention of N developing a disease-specific activity and severity assessment too Workshop participants agreed that two complementary objective additional clinician education to improve screening and diagnosi

Keywords: nontuberculous mycobacteria; pulmonary disease

ANNALSATS SUPPLEMENT

Topic	Priority	Potential Specific Questions and Next Steps
Prevention	Strengthen the role of patients in preventing NTM infection or reinfection	Evaluate whether aspiration increases the risk of NTM infection or reinfection
	Limit the risk of patient-to-patient transmission of NTM infection in cystic fibrosis clinics	Estimate the risk of person-to-person or indirect transmission in CF clinics Comparative effectiveness of standard and
		expanded infection control precautions
ti Diagnosis	 Improve the timeliness of diagnosis and develop molecular techniques for rapid species identification and susceptibility 	Validate molecular diagnosis techniques being developed by National Jewish Healthcare
(0)	Develop a screening algorithm for patients at risk for pulmonary NTM disease	Predictors of positive culture Predictors of meeting ATS disease criteria at diagnosis
nc ol ve	Develop better methods for sputum collection and testing	Identify techniques that improve sputum collection Develop new collection devices
(7 Quality of life	 Reduce the impact on patients of anxiety and depression 	Evaluate anxiety and depression after diagnosis or during treatment in patients with NTM disease Association between anxiety/depression and poorer treatment adherence
70,	Develop an NTM-specific Health-Related Quality of Life tool	Validate NTM Symptom Module* tool
	Promote quality-of-life measures for assessing the effectiveness of treatment	Validate correlation between NTM Symptom Module and clinical outcomes
Treatment	Reduce the burden of antibiotic treatment for NTM disease	Develop and evaluate alternative delivery systems for intravenous antibiotics
		Repurpose existing therapies Develop new, more effective drugs with a shorter therapy duration
	 Develop and test the efficacy of nonpharmacological therapies and holistic medicine approaches 	Comparative effectiveness of exercise and lung clearance devices, taking into account ease of use and affordability
	 Improve understanding of who needs or benefits from antibiotic therapy 	Role of therapy in mild cases to prevent disease progression
Officiant automorphism		Predictors of treatment response
Clinical outcomes	 Develop a composite measure of disease activity or severity 	Develop a composite index of disease activity or severity that includes microbiological, chest imaging, and quality of life measures
	 Identify and validate biomarkers associated with disease risk, prognosis, and treatment response 	Identify biomarkers associated with disease risk, prognosis, or treatment response

Definition of abbreviations: ATS = American Thoracic Society; CF = cystic fibrosis; NTM = nontuberculous mycobacteria. *From Reference 22.



Patient Initiative: Taking Action

Leads to improved quality of life

NTM is not a passive disease

The more active you are in decision-making, the more you participate in your own care, the more you improve your chances of a better outcome.

In addition to taking medicine, you must commit to:

- Airway clearance
- Nutrition
- Exercise and fitness
- Proper rest
- Psychological support mechanisms



How Do You Feel?

Depressive symptoms are common in patients with COPD and those with severe COPD have a 2.5 times greater risk of developing depression.¹

Limitations on activity imposed by chronic medical illness may lead to gradual withdrawal from rewarding activities.²

- 1) Van Manen JG, et al. Risk of depression in patients with chronic obstructive pulmonary disease and its determinants. *Thorax* 2002;57:412-416.
- 2) Prince M, et al. A prospective population-based cohort study of the effects of disablement and social milieu on the onset and maintenance of late-life depression. The Gospel Oak Project VII. *Psychol Med* 1998;28:337-350.



What to Look For

- Sadness
- Anxiety
- Fear
- Social isolation
- Anger
- Sleep disruption (too much or too little, not related to illness or treatment)
- Feeling of "not wanting to get up or go on"
- Suicidal thoughts or ideas



What to Know, What to Do

- Depression can be exacerbated by fear, lack of knowledge, and the illness itself or its side effects
- You and your family may benefit from counseling and/or anti-depressant medications
- PLEASE DO NOT ignore this component talk to your doctor about getting the mental health support you need for yourself and your family
- Continue to educate about your illness¹
- Make sure your physicians all work together; nearly 50% of patients with clinical depression are first diagnosed by a primary care physician^{2,3}
- 1) Zhang Q, et al. Disease knowledge level is a noteworthy risk factor of anxiety and depression in patients with chronic obstructive pulmonary disease: a cross-sectional study. *BMC Pulmonary Medicine* 2014, 14:92.
- 2) Mental Health Care Services by Family Physicians Position Paper. American Academy of Family Physicians web site. http://www.aafp.org/about/policies/all/mental-services.html. Accessed October 4, 2017.
- 3) Position Statement 13. Integration of Mental and General Health Care. Mental Health America web site. http://www.mentalhealthamerica.net/positions/integrated-care. Accessed October 4, 2017.



Patient-Focused Drug Development

- Patients reported these three symptoms as having the most significant clinical impact on their daily lives:
- Cough
- Fatigue
- Shortness of breath

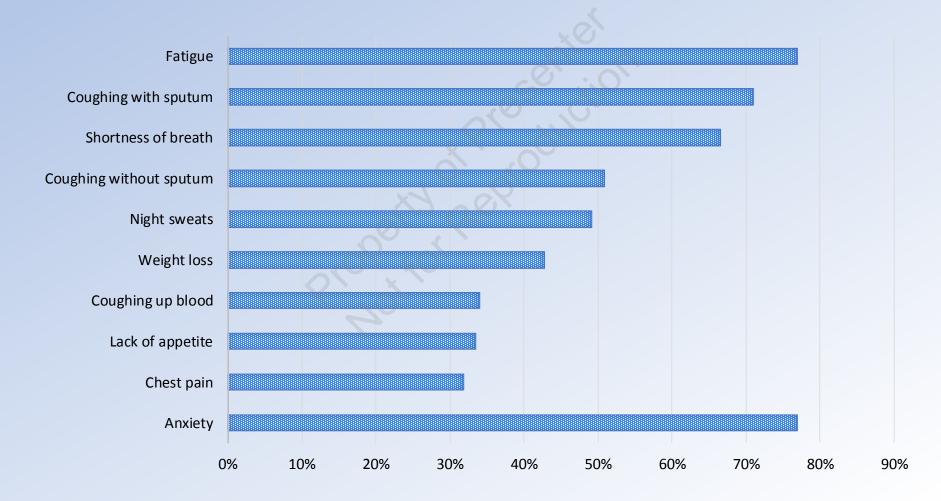


Survey: Patient Preferences in Clinical Trials & Treatment Outcomes

- 57 questions
- Joint project with Spero Therapeutics
- Reviewed by internal and external staff and researchers, NTM patients
- Circulated through NTMinfo.org, social media channels, blast emails, Social360 forum
- 465 respondents
- Results presented at April 8th FDA workshop on Development of Antibacterial Drugs for the Treatment of Nontuberculous Mycobacterial Disease

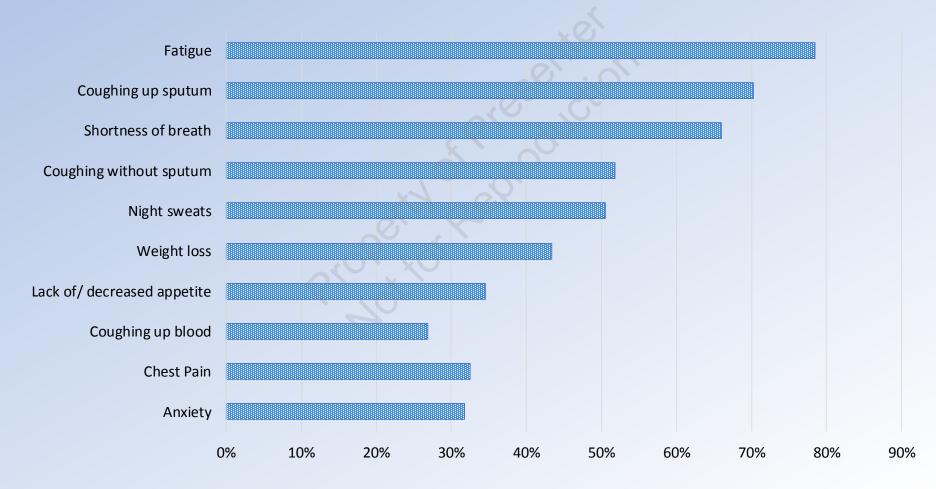


Top Symptoms Patients Experienced



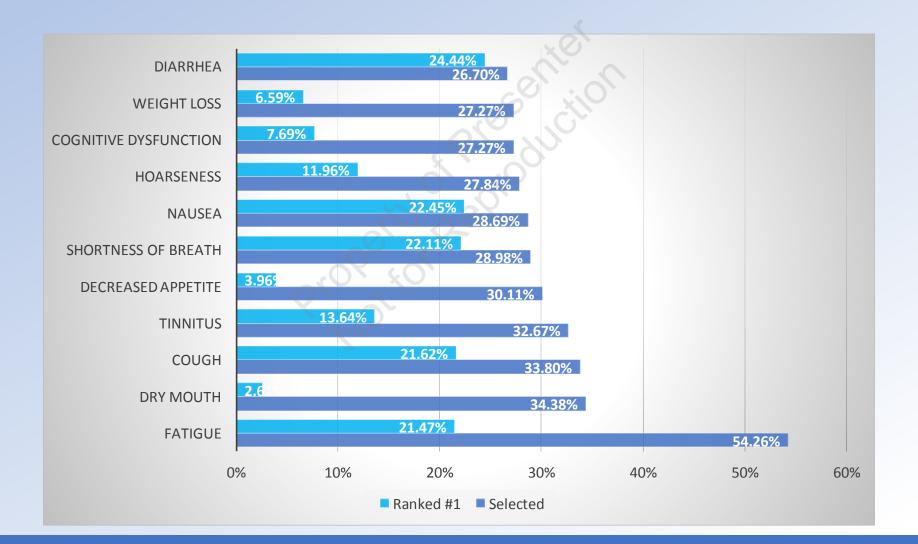


Most Bothersome Symptoms





Side Effects of Antibiotic Treatment





Survey: Airway Clearance

- 5-8 minutes long
- Take the survey today at ntminfo.org





FDA Workshop Nov. 18-19, 2019: Exploring the Clinical Trial Enterprise for Antibacterial Drug Development in the United States

- Co-sponsored by FDA, IDSA, and Pew Charitable Trusts
- Strategies to better support clinical trials for antibiotic development





THANK



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