Bronchitis

Key Points:

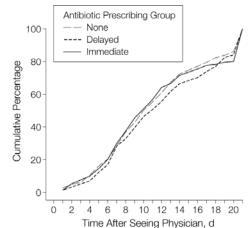
- 90% of bronchitis is secondary to a viral infection
- Antibiotics should not be prescribed for bronchitis, unless pertussis is suspected
- Antibiotics are no more effective in smokers than nonsmokers
- Cough will last at least 3 weeks for the majority of patients

Diagnosis:

Treatment:

- Antibiotics should <u>not</u> be prescribed for bronchitis
- Meta-analysis of 9 randomized trials showed no benefit of antibiotics
- There is no good quality evidence supporting or refuting the benefit of antitussives or mucolytics
- Symptomatic Treatment Options:
 - o Intranasal ipratropium (URI symptoms, rhinorrhea)
 - o Decongestants (URI symptoms, post nassal drip)
 - o Inhaled bronchodilator (concurrent wheeze)
 - o Antitussive dextromethorphan

Duration of Cough After Physician Visit



References:

- 1. Essential Evidence Plus. Acute Bronchitis
- 2. NCQA. An Algorithm to Improve Appropriate Antibiotic Use for Patients With Acute Bronchitis 3. Little P, Rumsby K, Kelly J, et al. Information leaflet and antibiotic prescribing strategies for acute
- Linder, Kunsoy K, Kely J, et al. monitation reariest and antibiotic prescribing strategies for actual lower respiratory tract infection. A randomized controlled trial. JAMA 2005;293:3029-3035.
 Linder LA Sim L Antibiotic treatment of acute bronchitis in smokars: a custamatic raviany. J Can.
- Linder JA, Sim I. Antibiotic treatment of acute bronchitis in smokers: a systematic review. J Gen Intern Med 2002;17:230-234.



• Acute bronchitis is a clinical diagnosis based on cough in the absence of other signs and symptoms of other respiratory causes (pneumonia, asthma, COPD, etc)

• Fever and sputum production may or may not be present

Microbiology:

• 90% of bronchitis is viral (coronaviruses, rhinoviruses, RSV, adenoviruses, parainfluenza and influenza viruses)

Imaging:

- Chest x-ray is not necessary
- Indications for chest x-ray
 - Heart rate >100 beats/min
 - o Respiratory rate >24 breaths/min
 - Temperature of >38°C
 - Chest examination findings of focal consolidation, egophony, or fremitus

Prognosis and Course:

- Cough will last about 3 weeks for the majority of patients and for at least 1 month in about 25% of patients
- Sputum color does not indicate the presence of a bacterial infection