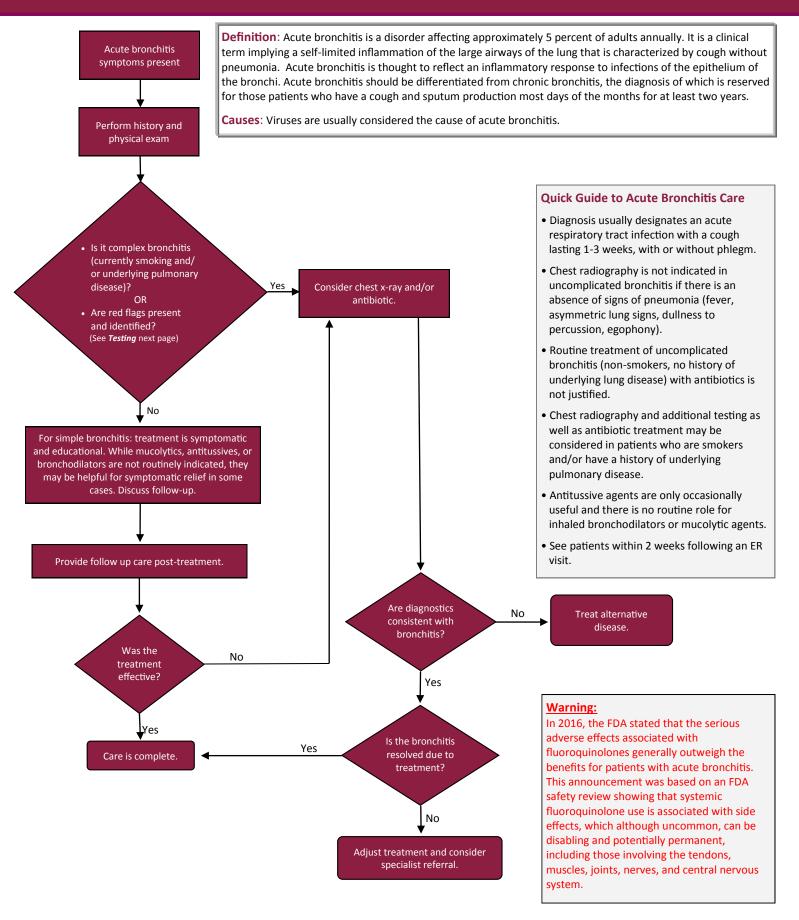


# **Acute Bronchitis Clinical Guideline**



**Acute bronchitis** can be classified as uncomplicated or complicated, based on current smoking status and/or underlying pulmonary disease. Testing and treatment differ for these subsets.

## **Uncomplicated Acute Bronchitis**

#### **Diagnosis**

## History

- Acute-onset cough lasting more than five days, with or without phlegm.
- Cough generally lasts two to three weeks.

#### **Physica**

- Signs and symptoms may include sputum production, dyspnea, wheezing, chest pain, hoarseness, malaise, rhonchi, and rales.
- Fever is relatively unusual and suggests either influenza or pneumonia.
- Sputum may be clear, white, yellow, green, or blood-tinged.
  Sputum production should **not** be deemed to indicate bacterial infection.

#### **Testing**

 Chest radiography is not indicated in uncomplicated bronchitis.

## **Red Flag Indicators**:

- tachycardia (pulse greater than 100/minute)
- tachypnea (respiratory rate greater than 24)
- fever (temperature greater than 38° C /100.4° F)
- rales or signs of consolidation on chest examination
- hypoxemia
- · mental confusion
- signs of systemic illness.
- Indications for chest radiography and/or antibiotics, antitussives, anti-inflammatory therapies:
  - unexplained cough lasting three week or longer
  - fever and hemoptysis

#### Causes

Viruses are usually considered the cause.

#### **Treatment**

According to guidelines by the American College of Chest Physicians, routine treatment of uncomplicated (non-smokers, no history of underlying pulmonary disease) bronchitis with antibiotics is **not** justified. Antitussive agents are only occasionally useful and there is no routine role for inhaled bronchodilators or mucolytic agents.

#### **Patient Education**

Counsel patients on the role of antibiotics in the treatment of viruses.

## **Follow-up and Referrals**

- Schedule a follow-up appointment with the patient in two weeks to ensure resolution of symptoms.
- If the patient was seen at the emergency room, have a follow up appointment two weeks after the visit.
- Consider referral to a pulmonary specialist if treatment is ineffective or complications arise.

# **Complicated Acute Bronchitis**

## **Diagnosis**

Acute bronchitis in patients who currently smoke and/or have a history of underlying pulmonary disease.

### **Testing**

Expand to include consideration of chest x-ray, PFTs, peak flow measurement, and sputum culture.

#### **Treatment**

Expand to include consideration of chest x-ray, peak flow measurement, and sputum culture. Pulmonary function studies can establish the patient's baseline.

## **Patient Education**

Smoking cessation if the patient is a smoker.

# **Follow-up and Referrals**

- Schedule a follow up appointment with the patient in two weeks to ensure resolution of symptoms.
- If patient was seen at the emergency room, have a follow up appointment two weeks after the visit.

#### References

- 1. Up To Date: Acute bronchitis in adults, 2016. Retrieved from www. uptodate.com.
- 2. U.S. Food & Drug Administration (2016). FDA Drug Safety Communication: FDA advises restricting fluoroquinolone antibiotic use for certain uncomplicated infections: warns about disabling side effects that can occur together. https://www.fda.gov/drugs/drugsafety/ucm500143.html.
- 3. Center for Disease Control and Prevention (2017). Bronchitis. https://www.cdc.gov/getsmart/community/for-patients/common-illnesses/bronchitis.html.
- 4. American College of Chest Physicians

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This clinical guideline outlines the recommendations of Mount Carmel Health Partners for this medical condition and is based upon the referenced best practices. It is not intended to serve as a substitute for professional medical judgment in the diagnosis and treatment of a particular patient. Decisions regarding care are subject to individual consideration and should be made by the patient and treating physician in concert.

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