

Care and Treatment Plan: Acute Bronchitis – Adult

Definition

Inflammation of trachea and bronchi (larger airways).

Registered Nurses who hold **Remote Nursing** Certified Practice (RN(C)) designation are authorized to manage, diagnose, and treat acute bronchitis in adults.

Management and Intervention

Goals of Treatment

- Relieve symptoms (coughing, fever)
- Prevent pneumonia

Non-pharmacological Interventions

- Increased rest (especially if febrile)
- Adequate hydration (8-10 glasses of fluid per day)
- Increased humidity in the environment
- Avoidance of pulmonary irritants (e.g., stop or decrease smoking)

Pharmacological Interventions

- To manage fever or pain
 - Acetaminophen 325mg 1-2 tabs PO q4-6h PRN, or
 - Ibuprofen 200mg 1-2 tabs pPOq4-6h PRN
- If bronchospasm, dyspnea, or wheezing is significant, short-acting β_2 -agonist bronchodilators can be used until acute symptoms resolve
- Salbutamol 100mcg Metered-Dose Inhaler (MDI) 1 or 2 puffs q4h PRN via aero chamber-maximum dose of 8 puffs/day
- Avoid antibiotics

Note: In most cases, antibiotics are not recommended for acute bronchitis in an otherwise healthy client, as the cause is usually viral.

- Antibiotics may be considered in those at high risk of serious complications because of pre-existing co-morbidity (heart, lung, renal, liver, or neuromuscular disease, Congestive Heart Failure, diabetes mellitus, current use of oral glucocorticoids, immunocompromised)
- In clients with an acute bronchitis overlying chronic bronchitis, antibiotics may be considered for clients who have two or more of the following symptoms:
 - Increased sputum volume
 - Increased sputum purulence
 - Increased dyspnea

Choices

- Amoxicillin 500mg PO TID for 5-7 days, or
- Doxycycline 200mg once, then 100mg PO BID for 5-7 days, or
- Trimethoprim 160mg/Sulphamethoxazole 800mg (DS) PO BID for 5-7 days

Pregnant or Breastfeeding Women

- Amoxicillin may be used as listed above
- **DO NOT USE** doxycycline and Trimethoprim 160mg/Sulphamethoxazole 800mg

Potential Complications

- Pneumonia
- Post-bronchitis cough

Client Education/Discharge Information

- Recommend hand washing to prevent spread of infection throughout a household
- Inform client that cough may persist for more than 2 weeks
- Inform client that routine antibiotic therapy is not necessary or recommended

Consultation and/or Referral

- Arrange for follow up in 2-3 days if antibiotics are used and the client's condition is not resolving.

Monitoring and Follow-up

- Consult with or refer to physician and/or nurse practitioner if unresponsive to treatment or if pneumonia is suspected.

Documentation

- As per agency policy.

References

More recent editions of any of the items in the References List may have been published since this DST was published. If you have a newer version, please use it.

- Balter, M. S., La Forge, J., Low, D. E., Mandell, L., & Grossman, R. F. (2003). Canadian guidelines for the management of acute exacerbations of chronic bronchitis. *Canadian Respiratory Journal*, 10 (Suppl B), 3B-32B.
- Blondel-Hill, E., & Fryters, S. (2012). *Bugs and drugs: An antimicrobial infectious diseases reference*. Edmonton, AB: Alberta Health Services.
- Blush III, R. R. (2013). Acute bronchitis. *Nurse Practitioner*, 38(10), 14-20.
- Canadian Pharmacists Association. (2014). *Therapeutic choices* (7th ed.). Ottawa, ON: Author
- Carolan, P. L. (2014, March 18). [Pediatric bronchitis](#).
- Cash, J. C., & Glass, C. A. (Eds.). (2014). *Family practice guidelines* (3rd ed.). New York, NY: Springer.
- Chen, Y. A., & Tran, C. (Eds.). (2011). *The Toronto notes 2011: Comprehensive medical reference and review for the Medical Council of Canada Qualifying Exam Part 1 and the United States Medical Licensing Exam Step 2* (27th ed.). Toronto, ON: Toronto Notes for Medical Students.
- DynaMed. (2015, November 20). [Acute Bronchitis](#).
- DynaMed. (2015, August 10). [Aspiration Pneumonia](#).
- Esherick, J. S., Clark, D. S., & Slater, E. D. (2012). *Current practice guidelines in primary care 2012*. New York, NY: McGraw-Hill Medical.
- Esherick, J. S., Clark, D. S., & Slater, E. D. (Eds.). (2013). [Current practice guidelines in primary care](#). New York, NY: McGraw Hill Medical.
- Fayyaz, J. (2015). [Bronchitis](#).
- Klostranec, J. M., & Kolin, D. L. (2012). [The Toronto notes 2012: Comprehensive medical reference and review for the Medical Council of Canada Qualifying Exam Part 1 and the United States Medical Licensing Exam Step 2](#) (28th ed.). Toronto, ON: Toronto Notes for Medical Students.
- Kuehn, B. M. (2013). Excessive antibiotic prescribing for sore throat and acute bronchitis remains common. *JAMA: The Journal of the American Medical Association*, 310(20), 2135-2136.
- Tackett, K. L., & Atkins, A. (2012). Evidence-based acute bronchitis therapy. *Journal of Pharmacy Practice*, 25(6), 586-590.