Endorsing & Supporting Organizations

Endorsing Organizations

American Academy of Urgent Care Medicine American College of Physicians - California Association of California Nurse Leaders California Academy of Family Physicians California Academy of Physician Assistants California Association of Nurse Practitioners California Pharmacists Association California Society of Health-System Pharmacists **Urgent Care Association of America**

Supporting Organizations

Aetna Health of California Blue Cross of California Blue Shield of California CalOptima 1 4 1 Care1st Health Plan Health Net of California Health Plan of San Joaquin

Inland Empire Health Plan Kaiser Permanente L.A. Care Health Plan Molina Healthcare National Medical Health Card Systems, Inc. Santa Barbara Regional Health Authority

Acute Bronchitis & Upper Respiratory Tract Infection

Uncomplicated acute bronchitis and acute upper respiratory tract infection are the most common conditions for visiting a clinician in the United States. Accurate distinction between acute bronchitis and acute upper respiratory infection is difficult. Both conditions are most frequently caused by viruses and differentiation does not alter recommended treatment for otherwise healthy adults. Adults with COPD or other comorbidities might need more extensive evaluation and possibly different therapies.

Antibiotic Prescribing – Why This Continues

Antibiotic prescribing for these conditions, accounts for most inappropriate antibiotic prescriptions. Treatment of a virus with an antibiotic is more likely to harm then help. Only Bordetella pertussis, Mycoplasma pneumoniae, and Chlamydophila pneumoniae have been established as non-viral causes of these syndromes in adults.

There are clinical myths that have been perpetuated in the medical community as well as the lay public that need to be addressed. Among these myths are:

MYTH: Purulent nasal discharge or sputum reflects bacterial infection.

FACT: It is recognized that this process reflects the immune response, NOT bacterial infection. Viral etiologies as well as allergic responses will also cause these symptoms.

MYTH: I should prescribe antibiotics to avoid missing a more significant diagnosis.

FACT: Other conditions that may present with similar symptoms to bronchitis include pneumonia and asthma. However, there are specific clinical features that may distinguish these various conditions.

- **Pneumonia:** It is important to distinguish patients with bronchitis from those with pneumonia. Absence of all of the following. history of asthma, temperature > 38°C (100°F), heart rate > 100 beats/min, decreased breath sounds, and crackles argue against a diagnosis of pneumonia.1
- **Asthma:** A prolonged cough, wheezing, and a history of asthma would lead to consideration of this diagnosis. Antibiotic prescribing for reactive airways is inappropriate and may result in masking of a more serious condition.

 Influenza: Antivirals rather than antibiotics might be useful for influenza. The diagnosis of influenza is suggested by the presence of fever and cough within 48 hours of symptom onset, plus one other influenza-like symptom, such as myalgia, when it is known that influenza is circulating in the community.

MYTH: Patient satisfaction requires an antibiotic prescription.

FACT: Patients usually seek a diagnosis with recommended remedies that are safe and effective, rather than an antibiotic prescription. Patient satisfaction improves when patients understand the duration of symptoms and the severity of their illness. Patients also appreciate having a contingency plan in the event that symptoms worsen over time. Emphasis of these points as well as the well-publicized adverse effects of antibiotics (and other commonly prescribed pharmaceutical agents), and the new, national emphasis on evidence-based medicine should persuade.

- Acute Bronchitis: Albuterol inhalers provide relief in severity and duration of symptoms, particularly in those with wheeze or pronounced cough. The role of codeine or dextromethorphan containing medications is not as well established, but probably provides some mild benefit in all patients and more significant benefit among those with greater than 14 days of symptoms.
- Nasal Congestion: Decongestants offer relief. The roles of zinc. Echinacea and humidified air are limited. Results of trials of these latter three modalities have demonstrated varied results, none definitive.

It is important that the effectiveness of antibiotics be preserved by prescribing antibiotics only when appropriate.

1 Metlay JP, Kapoor WN, Fine MJ. Does this patient have community acquired pneumonia? Diagnosing pneumonia by history and physical

This compendium was designed to summarize appropriate antibiotic treatment of common adult outpatient infections. It is based on quidelines and recommendations from leading medical experts and professional organizations in the U.S.

This quideline summary is updated annually.

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2007/08





AWARE is a project

of the California Medical Association Foundation. in collaboration with a number of clinical, public health and consumer organizations designed to increase appropriate antibiotic prescribing and lower antibiotic resistance in California.

Acute Respiratory **Tract Infection** Guideline Summary

CMA Foundation 1201 J Street, Suite 350 Sacramento, CA 95814 916.551.2550 voice 916.551.2544 fax www.aware.md



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CMA Foundation AWARE Project Adult Clinical Practice Guidelines Compendium Summary

	Antimicrobial Thorage Antimicrobial Thorage Antimicrobial Thorage Antimicrobial Thorage									
Illness	Indications for Antibiotic Treatment	Pathogen	Antimio	robial Therapy	Antibiotic	Guidelines Reviewed				
Acute Bacterial Sinusitis	When to Treat with an Antibiotic: Diagnosis of acute bacterial sinusitis may be made in adults with symptoms of a viral URI that have not improved after 10 days or that worsen after 5-7 days. Diagnosis may include some or all of the following symptoms or signs: Nasal drainage, nasal congestion, facial pressure/pain (especially when unilateral and focused in the region of a particular sinus), postnasal discharge, anosmia, fever, cough, maxillary dental pain, ear pressure/fullness. Less frequent signs and symptoms include hyposmia and fatigue, in conjunction with some or all of the above. When NOT to Treat with an Antibiotic: Nearly all cases of acute bacterial sinusitis resolve without antibiotics. Antibiotic use should be reserved for moderate symptoms that are not improving after 10 days, or that are worsening after 5-7 days, and severe symptoms.	Streptococcus pneumoniae nontypeable Haemophilus influenzae Moraxella catarrhalis Mainly viral pathogens	Antibiotic Duration: 10 to 14 days Failure to respond after 72 hours of antibiotics: Reevaluate patient and switch to alternate antibiotic class.		1st Line: • Amoxicillin Alternatives: • Amoxicillin-clavulanate • Oral cephalosporins: not first generation and not cefixime (i.e. cefpodoxime, cefuroxime, cefdinir, etc.) • Respiratory quinolones (levofloxacin, moxifloxacin) For ß-Lactam Allergy: Trimethoprim-sulfamethoxazole, doxycycline, azithromycin, clarithromycin	American Academy of Allergy, Asthma & Immunology (AAAAI) American Academy of Family Physicians (AAFP) American College of Physicians (ACP) Centers for Disease Control and Prevention (CDC) Sinus and Allergy Health Partnership (SAHP)				
Pharyngitis	When to Treat with an Antibiotic: Streptococcus pyogenes (Group A Strep): Symptoms of sore throat, fever, headache. Physical Findings Include: Fever, tonsillopharyngeal erythema and exudates, palatal petechiae, tender and enlarged anterior cervical lymph nodes, and absence of cough. Confirm diagnosis with throat culture or rapid antigen detection before using antibiotics; negative rapid antigen detection tests may be confirmed with a throat culture. When NOT to Treat with an Antibiotic: Most pharyngitis cases are viral in origin. The presence of the following is uncommon with Group A Strep, and point away from using antibiotics: conjunctivitis, cough, rhinorrhea, diarrhea, and absence of fever.	Streptococcus pyogenes Routine respiratory viruses	Group A Strep: Treatment reserved for patients with positive rapid antigen detection or throat culture. Antibiotic Duration: Generally 10 days		1st Line: • Penicillin V • Benzathine penicillin G Alternatives: • Amoxicillin • Oral cephalosporins • Clindamycin For ß-Lactam Allergy: • Erythromycin • Clindamycin	ACP CDC Infectious Diseases Society of America (IDSA) Institute for Clinical Systems Improvement (ICSI)				
Nonspecific Cough Illness/ Acute Bronchitis	When to Treat with an Antibiotic: Antibiotics not indicated in patients with uncomplicated acute bacterial bronchitis. Sputum characteristics not helpful in determining need for antibiotics. Treatment is reserved for patients with acute bacterial exacerbation of chronic bronchitis and COPD, usually smokers. In patients with severe symptoms, rule out other more severe conditions, e.g. pneumonia. Testing is recommended either prior to or in conjunction with treatment for pertussis. When NOT to Treat with an Antibiotic: 90% of cases are nonbacterial. Literature fails to support use of antibiotics in adults without history of chronic bronchitis or other co-morbid conditions.	Chlamydophila pneumoniae Mycoplasma pneumoniae Bordetella pertussis Mainly viral pathogens	Uncomplicated: Not indicated		Uncomplicated: Not indicated Chronic COPD: • Amoxicillin, trimethoprimsulfamethoxazole, doxycycline Other: • Bordetella pertussis, Chlamydophila pneumonia, Mycoplasma pneumonia macrolide or doxycycline	AAFP ACP CDC IDSA				
Nonspecific URI	When NOT to Treat with an Antibiotic: Antibiotics not indicated; however, nonspecific URI is a major cause of acute respiratory illnesses presenting to primary care practitioners. Patients often present expecting some treatment. Attempt to discourage antibiotic use and explain appropriate non-pharmacologic treatment.	Viral	Not indicated		Not indicated	AAFP ACP CDC ICSI IDSA				
Outpatient Community- Acquired Pneumonia (CAP)	When to Treat with an Antibiotic as an Outpatient: Perform CXR to confirm the diagnosis of pneumonia. Evaluate for outpatient management. Consider pre-existing conditions, calculate Pneumonia Severity Index (PSI ≤ 90 for outpatient management) or CURB-65 (0 or 1 for outpatient management). Visit www.aware.md for more information. Sputum gram stain and culture are recommended if failure of outpatient antibiotic therapy, active alcohol abuse, severe obstructive/structural lung disease, or pleural effusion. When NOT to Treat with an Antibiotic as an Outpatient: Consider inpatient admission if PSI score > 90, CURB-65 ≥ 2, unable to tolerate orals, unstable social situation, or if clinical judgment so indicates.	Streptococcus pneumoniae Mycoplasma pneumoniae Haemophilus influenzae Chlamydophila pneumoniae	Healthy with no DRSP** risk factors Presence of co-morbidity, antibiotic use within 3 months***, or risk of DRSP 'Consider alternative agents for macrolidities by DRSP: Drug-resistant 5. pneumoniae Choose a class of antibiotic that differs Antibiotic duration: Minima afebrile for 48 - 72 hours ar sign of clinical instability (the content of the c	combination of a ß-lactam plus a macrolide le-resistant S. pneumoniae in any patient including from the prior antibiotic um of 5 days; discontinue once do no more than one CAP-associated emp > 100°F (37.8°C), pulse > 100, arterial oxygen saturation < 90%	1st Line: Macrolide (azithromycin, clarithromycin, or erythromycin) Doxycycline Respiratory quinolone (moxifloxacin, levofloxacin) B-Lactam Alternatives (to be given with a macrolide): High dose amoxicillin or amoxicillin-clavulanate Cephalosporins (ceftriaxone, cefpodoxime, cefprozil, cefuroxime)	Infectious Diseases Society of America / American Thoracic Society (IDSA/ATS) ICSI				

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California Academy of Physician Assistants
California Association of Nurse Practitioners
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Urgent Care Association of America

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Health Net of California
Health Plan of San Joaquin

National Medical Health Card Systems, Inc. Santa Barbara Regional Health Authority

Over-the-Counter & Home Care Treatment for Viral Infections

Antibiotic treatment does not cure viral infections. Antibiotics can be harmful if they are given when not needed. The treatments recommended below may help your patients feel better while their bodies' own defenses are defeating the viruses.

Certain OTC medications (including antihistamines, expectorants, antitussives, and decongestants) have been shown to reduce cold symptoms in adolescents and adults. These medications should not be recommended for children < 6 years of age given the lack of proven benefit and the potential for adverse effects.

Symptoms	Home Remedies	Over-the-Counter Generic Name & Brand Name Examples
Fever, Aches and Pain	Cool compress Bed rest Heating pad on sore muscles	 Analgesics Acetaminophen (Children's Tylenol) Ibuprofen (Children's Motrin, Advil, Nuprin) Naproxen (Aleve)
Cough or Sore Throat	 Drink more fluids Room humidifier Gargle (warm salt water) Avoid Smoke 	 Expectorant Guaifenesin (Robitussin Chest Congestion, Children's Mucinex) Antitussives Dextromethorphan (Delsym, Robitussin Pediatric Cough)
Stuffy or Runny Nose	Steam inhalation Saline nose drops or spray For red, raw nose, dab on petroleum jelly or salve or use tissues with lotion	Decongestants Pseudoephedrine* (Children's Sudafed) Oxymetazoline (Afrin) Phenylephrine (Neo-Synephrine, Sudafed PE)
		 Antihistamines Diphenhydramine (Children's Benadryl) Chlorpheniramine (Chlor-Trimeton) Loratadine (Dimetapp ND, Alavert, Claritin) Clemastine (Tavist Allergy) *Behind-the-counter medication. Must be purchased from pharmacist.

Antiviral Therapies for Influenza

For children over one year of age, oseltamivir and zanamivir may be given within 48 hours of the onset of flu symptoms and can reduce the duration of uncomplicated influenza A and influenza B.

This compendium was designed to summarize appropriate antibiotic treatment of common pediatric outpatient infections.

It is based on guidelines and recommendations from leading medical experts and professional organizations in the US.

This guideline summary is updated annually.

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2007/08 **PEDIATRICS**



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Acute
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Summary

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CMA Foundation AWARE Project Pediatric Clinical Practice Guidelines Compendium Summary

Illness	Indications for Antibiotic Treatment	Pathogen	Antimicrobial Therapy	Antibiotic	Organizational Guidelines Reviewed
Otitis Media	 When to Treat with an Antibiotic - Acute Otitis Media: Recent, usually abrupt, onset of signs and symptoms of middle-ear inflammation and effusion AND Presence of middle-ear effusion that is indicated by any of the following: Bulging of the tympanic membrane Limited or absent mobility of tympanic membrane Air fluid level behind the tympanic membrane Otorrhea AND Signs or symptoms of middle-ear inflammation as indicated by either: Distinct erythema of the tympanic membrane OR Distinct otalgia [discomfort clearly referable to the ear(s) that interferes with or precludes normal activity or sleep] When NOT to Treat with an Antibiotic: Otitis Media with Effusion. 	Streptococcus pneumoniae nontypeable Haemophilus influenzae Moraxella catarrhalis	Antibiotic Duration: 7-10 days (5 days for azithromycin) Age Group: 1. < 6 mo: antibiotics 2. 6 mo - 2 yrs: antibiotics if diagnosis certain; antibiotics if diagnosis uncertain & severe illness 3. > 2 yrs: antibiotics if diagnosis certain and severe illness Analgesics & Antipyretics: Always assess pain. If pain is present, add treatment to reduce pain. Oral: ibuprofen/acetaminophen (may use acetaminophen with codeine for moderate-severe pain) Topical: Benzocaine (> 5 years of age).	1st Line: High dose amoxicillin (80-90 mg/kg/day) High dose amoxicillin/clavulanate (80-90 mg/kg/day of amoxicillin component) if severe illness or additional coverage desired Alternatives: Non-anaphylactic penicillin allergy Cefdinir, cefpodoxime, or cefuroxime Severe penicillin allergy Azithromycin or clarithromycin Unable to tolerate p.o. antibiotic Ceftriaxone	American Academy of Pediatrics (AAP) Centers for Disease Control and Prevention (CDC) American Academy of Family Physicians (AAFP)
Acute Bacterial Sinusitis	When to Treat with an Antibiotic: Diagnosis of acute bacterial sinusitis may be made with symptoms of viral URI (nasal discharge or daytime cough not improved after 10 days, severe illness with fever, purulent nasal discharge, facial pain) not improving after 10 days or worse after 5-7 days. Diagnosis may include some or all of the following symptoms or signs: Nasal drainage, nasal congestion, facial pressure/pain (especially when unilateral and focused in the region of a particular sinus), postnasal discharge, anosmia, fever, cough, maxillary dental pain, ear pressure/fullness. Less frequent signs and symptoms include hyposmia and fatigue, in conjunction with some or all of the above. When NOT to Treat with an Antibiotic: Nearly all cases of acute bacterial sinusitis resolve without antibiotics. Antibiotic use should be reserved for moderate symptoms not improving after 10 days, or that are worsening after 5-7 days, and severe symptoms.	Streptococcus pneumoniae nontypeable Haemophilus influenzae Moraxella catarrhalis Mainly viral pathogens	Antibiotic Duration: 10 to 14 days Failure to respond after 72 hours of antibiotics: Reevaluate patient and switch to alternate antibiotic. Fiberoptic endoscopy or sinus aspiration for culture may be necessary for work up. Consider anti-inflammatory or decongestive therapy.	1st Line: • Amoxicillin (80-90 mg/kg/day) Alternatives: • Amoxicillin-clavulanate (80-90 mg/kg/day of amoxicillin component) • Cefpodoxime • Cefuroxime • Cefdinir • Ceftriaxone For β-Lactam Allergy: • Trimethoprim-sulfamethoxazole • Macrolides • Clindamycin	AAP AAFP CDC Sinus and Allergy Health Partnership (SAHP)
Pharyngitis	When to Treat with an Antibiotic: Streptococcus pyogenes (Group A Strep): Symptoms and signs: sore throat, fever, headache, tonsillopharyngeal erythema, exudates, palatal petechiae, tender enlarged anterior cervical lymph nodes. Confirm diagnosis with throat culture or rapid antigen detection; negative rapid antigen detection tests should be confirmed with throat culture. When NOT to Treat with an Antibiotic: Respiratory viral causes: conjunctivitis, cough, rhinorrhea, diarrhea uncommon with Group A Strep.	Streptococcus pyogenes Routine respiratory viruses	Group A Strep: Treatment reserved for patients with positive rapid antigen detection or throat culture. Antibiotic Duration: Generally 10 days	1st Line: Penicillin V Benzathine penicillin G Alternatives: Amoxicillin Oral cephalosporins Clindamycin Macrolides For β-Lactam Allergy:	AAP AAFP CDC Infectious Diseases Society of America (IDSA) Institute for Clinical Systems Improvement
Nonspecific Cough Illness/ Bronchitis	When to Treat with an Antibiotic: Presents with prolonged, unimproving cough (14 days). Clinically differentiate from pneumonia. Pertussis should be reported to public health authorities. Chlamydophila pneumoniae and Mycoplasma pneumoniae may occur in older children (unusual < 5 years of age). When NOT to Treat with an Antibiotic: Nonspecific cough illness.	< 10% of cases caused by Bordetella pertussis, Chlamydophila pneumoniae, or Mycoplasma pneumoniae. > 90% of cases caused by routine respiratory viruses.	Antibiotics are generally not indicated. Treatment reserved for Bordetella pertussis, Chlamydophila pneumoniae, Mycoplasma pneumoniae. Length of Therapy: 7-14 days (5 days for azithromycin)	Erythromycin Macrolides Tetracyclines for children > 8 years of age	(ICSI) AAP AAFP CDC
Bronchiolitis/ Nonspecific URI	When NOT to Treat with an Antibiotic: Sore throat, sneezing, mild cough, fever (generally < 102° F, < 3 days), rhinorrhea, nasal congestion; self-limited (typically 5-14 days).	> 200 viruses, including rhinoviruses, coronaviruses, adenoviruses, respiratory syncytial virus, enteroviruses (coxsackieviruses & echoviruses), influenza viruses & parainfluenza viruses.	Antibiotics not indicated. Assure adequate fluid intake. May advise rest, OTC medications, humidifier.	• None	AAP AAFP CDC ICSI

This guideline summary is intended for physicians and healthcare professionals to consider in managing the care of their patients for acute respiratory tract infections. While the summary describes recommended courses of intervention, it is not intended as a substitute for the advice of a physician or other knowledgeable healthcare professional. These guidelines represent best clinical practice at the time of publication, but practice standards may change as more knowledge is gained.