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Table 2. Empiric Therapy for Childhood CAP

Population	Bacterial Pneumonia*	Atypical Pneumonia*	Influenza Pneumonia*
Outpatient (3 mo-5 y)	Amoxicillin 90 mg/kg/day po in 2-3 divided doses Alternative: amoxicillin/clavulanate 90 mg/kg po in 2-3 divided doses	Azithromycin 10 mg/kg po on day 1, followed by 5 mg/kg/day on days 2-5 Alternatives: clarithromycin 15 mg/kg/day po in 2 divided doses; erythromycin 40 mg/kg/day po in 4 divided doses	Oseltamivir—0-8 mo: 6 mg/kg/day po in 2 divided doses; 9-23 mo: 7 mg/kg/day po in 2 divided doses; ≥24 mo: 4 mg/kg/day po in 2 divided doses
Outpatient (5 y-18 y)	Amoxicillin 90 mg/kg/day po in 2-3 divided doses, to max of 4 g/day; in CAP not distinguished between bacterial and atypical: may add macrolide to β-lactam antibiotic for empiric therapy Alternative: amoxicillin/clavulanate 90 mg/kg/day po in 2-3 divided doses, to max of 4 g/day; in CAP not distinguished between bacterial and atypical, may add macrolide to β-lactam antibiotic for empiric therapy	Azithromycin 10 mg/kg po on day 1, followed by 5 mg/kg/day on days 2-5, to max of 500 mg on day 1, followed by 250 mg on days 2-5 Alternatives: clarithromycin 15 mg/kg/day po in 2 divided doses, to max of 1 g/day; erythromycin 40 mg/kg/day po in 4 divided doses; doxycycline 2-4 mg/kg/day po in 2 divided doses (in children >7 y)	Oseltamivir 4 mg/kg/day po in 2 divided doses; zanamivir 2 inhalations bid (in children ≥7 y) Alternatives: peramivir, oseltamivir, zanamivir [†]
Inpatient (3 mo-18 y); fully immunized against S pneumoniae and Hib or low S pneumoniae resistance (MIC for penicillin ≤2 mcg/mL)	Ampicillin 150-200 mg/kg/day IV in 4 divided doses; penicillin G 200,000-250,000 U/kg/day IV in 4-6 divided doses Alternatives: ceftriaxone 100 mg/kg/day IV/IM in 1-2 divided doses; cefotaxime 150 mg/kg/day IV in 3 divided doses; in suspected CA-MRSA, may add vancomycin 40-60 mg/kg/day IV in 3-4 divided doses or clindamycin 30-40 mg/kg/day IV/po in 3 divided doses	Azithromycin 10 mg/kg IV on days 1-2, followed by oral therapy if possible, to max of 500 mg/day; in CAP not distinguished between bacterial and atypical, may add β-lactam to macrolide antibiotic for empiric therapy Alternatives: clarithromycin 15 mg/kg/day po in 2 divided doses, to max of 1 g/day; erythromycin lactobionate 20 mg/kg/day IV in 4 divided doses; doxycycline 2-4 mg/kg/day IV/po in 2 divided doses (for children >7 y); levofloxacin 8-10 mg/kg/day IV/po, to max of 750 mg/day (in children who have reached growth maturity or cannot tolerate macrolides)	Oseltamivir—0-8 mo: 6 mg/kg/day po in 2 divided doses; 9-23 mo: 7 mg/kg/day po in 2 divided doses; ≥24 mo: 4 mg/kg/day po in 2 divided doses Zanamivir—2 inhalations bid (in children ≥7 y) Alternatives: peramivir, oseltamivir, zanamivir [†]
Inpatient (3 mo-18 y); not fully immunized against S pneumoniae and Hib or high S pneumoniae resistance (MIC for penicillin ≥4 mcg/mL)	Ceftriaxone 100 mg/kg/day IV/IM in 1-2 divided doses; cefotaxime 150 mg/kg/day IV in 3 divided doses; in suspected CA-MRSA, may add vancomycin 40-60 mg/kg/day IV in 3-4 divided doses or clindamycin IV/po 30-40 mg/kg/day po in 3 divided doses Alternative: Levofloxacin 8-10 mg/kg/day IV, to max of 750 mg/day; in suspected CA-MRSA, may add vancomycin 40-60 mg/kg/day IV in 3-4 divided doses or clindamycin 30-40 mg/kg/day IV/po in 3 divided doses	Azithromycin 10 mg/kg IV on days 1-2, followed by oral therapy if possible, to max of 500 mg/day; in CAP not distinguished between bacterial and atypical: may add β-lactam to macrolide antibiotic for empiric therapy Alternatives: clarithromycin 15 mg/kg/day po in 2 divided doses, to max of 1 g/day; erythromycin lactobionate 20 mg/kg/day IV in 4 divided doses; doxycycline 2-4 mg/kg/day IV/po in 2 divided doses (for children >7 y); levofloxacin 8-10 mg/kg/day IV/po to max of 750 mg/day (for children who have reached growth maturity or cannot tolerate macrolides)	Oseltamivir—0-8 mo: 6 mg/kg/day po in 2 divided doses; 9-23 mo: 7 mg/kg/day po in 2 divided doses; ≥24 mo: 4 mg/kg/day po in 2 divided doses Zanamivir: 2 inhalations twice daily (for children ≥7 y) Alternatives: peramivir, oseltamivir, zanamivir [†]

* Presumed.
[†] All above IV preparations are under clinical investigation.
 CA-MRSA: community-associated methicillin-resistant Staphylococcus aureus; CAP: community-acquired pneumonia; Hib: Haemophilus influenzae type b; max: maximum; MIC: minimum inhibitory concentration; S pneumoniae: Streptococcus pneumoniae.
 Source: References 7, 15.



- An increased CP opening pressure, high number of polymorphonuclear leukocytes and elevated protein concentration, together with decreased CSF albumin ratio of glucose (CSF to plasma) findings suggestive of AM.
- Lumbar meningitis may have CSF findings identical to chronic tuberculous or fungal meningitis.
- In patients with AM, the probability of a negative CSF culture in previously treated patients is increased compared with non-treated patients.
- In AM, the likelihood of diagnostic yield in CSF microbiology is highest before antibiotic treatment.

CONTRAINDICATIONS FOR LUMBAR PUNCTURE IN SUSPECTED ACUTE BACTERIAL MENINGITIS

ABSOLUTE (lumbar puncture is not to be recommended)	RELATIVE (appropriate therapeutic measures and/or investigations are indicated before lumbar puncture)
<ul style="list-style-type: none"> • Signs of raised intracranial pressure (papilloedema, decerebrate posturing) • Local skin infection in needle track • Evidence of obstructive hydrocephalus, cerebral oedema or herniation in imaging. 	<ul style="list-style-type: none"> • Sepsis or hypotension (systolic blood pressure <100 mmHg, diastolic blood pressure <60 mmHg): patients should be stabilized first • Coagulation disorder (DIC, platelet count <50 000/mm³, therapeutic use of warfarin): appropriate correction first • Presence of focal neurological deficit, especially when posterior fossa lesion is suspected^a

Vaccine	Age Group	19-23 years	22-26 years	27-49 years	50-59 years	60-64 years	≥65 years
Influenza ^{1,2}		1 dose annually					
Tetanus, diphtheria, pertussis (Td/Tdap) ³		Substitute Tdap for Td once, then Td booster every 10 years					
Varicella ^{4,5}		2 doses					
Human papillomavirus (HPV) Female ^{6,7}		3 doses					
Human papillomavirus (HPV) Male ^{8,9}		3 doses					
Zoster ⁶		1 dose					
Measles, mumps, rubella (MMR) ⁷		1 or 2 doses depending on indication					
Pneumococcal 13-valent conjugate (PCV13) ¹⁰		1 dose					
Pneumococcal polysaccharide (PPSV23) ⁸		1 or 2 doses depending on indication					
Hepatitis A ¹¹		2 or 3 doses depending on indication					
Hepatitis B ^{12,13}		3 doses					
Meningococcal 4-valent conjugate (MenACWY) or polysaccharide (MPSV4) ^{14,15}		1 or more doses depending on indication					
Meningococcal B (MenB) ^{16,17}		2 or 3 doses depending on vaccine					
Haemophilus influenzae type b (Hib) ^{18,19}		1 or 3 doses depending on indication					

Epidemiological data refers to the US, unless otherwise specified. Patient population Pathogen by age < 1 month [11 1 month-2 years [2] 2-50 years [2][8] > 50 years [2][9] By underlying condition immunocompromise [10] Basilar skull fracture [9] Penetrating trauma [9] Health care-associated [11] Bacterial Viral: Risk is higher in individuals with cell-mediated immune deficiencies (e.g., in HIV infection). [16] HerpesvirusesCMV, EBV, VZV, and HSV6 HIV Adenovirus JC virus Fungal: Risk is higher in individuals with cell-mediated immune deficiencies (e.g., HIV infection). [17] Protozoal: Toxoplasma gondii (rare) Bacterial meningitis: usually 3–7 days In neonates, meningitis often manifests with nonspecific symptoms and without the classic triad of meningitis. Children and adults (meningismus) The classical features of acute bacterial meningitis are fever, neck stiffness, and headache. However, this triad of symptoms only manifests in approx. 50% of cases. Physical examination [20][31] Features suggestive of meningococcal meningitis [34][35] In addition to the features of meningitis, meningococcal meningitis is characterized by signs of inflammation of the brain parenchyma (encephalitis). Focal neurological signsparosiesextrapyramidal symptomsaphasia Seizures Factors to consider: Epidemiological factors (e.g., local flora, resistance patterns) Bioavailability: Antimicrobial agents should cross the blood-brain barrier and higher doses may be needed. Ampicillin is added if patients are at risk of Listeria spp. infection newbornimmunocompromisedcephalosporins Ceftriaxone is contraindicated in patients aged < 1 month because of a higher risk of biliary sludging and kernicterus. Cefotaxime or ceftazidime can be used instead. [46] Empiric therapy for viral meningitis [19][48] Most cases of viral meningitis (e.g., caused by enteroviruses) can be treated supportively.encephalitisHSV encephalitisCorticosteroids [39][49] Tunkel AR, Hartman BJ, Kaplan SL, et al. Practice Guidelines for the Management of Bacterial Meningitis. Clinical Infectious Diseases. 2004; 39 (9): p.1267-1284. doi: 10.1086/425368 . | Open in Read by QxMD Mount HR, Boyle SD. Aseptic and Bacterial Meningitis: Evaluation, Treatment, and Prevention. Am Fam Physician. 2017; 96 (5): p.314-322. Bamberger. Diagnosis, Initial Management, and Prevention of Meningitis. American Family Physician. 2010 . Ku LC, Boggess KA, Cohen-Wolkowicz M. Bacterial Meningitis in Infants. Clin Perinatol. 2015; 42 (1): p.29-45. doi: 10.1016/j.clp.2014.10.004 . | Open in Read by QxMD Skoll BJ, Hansen NI, Sanchez PJ, et al. Early Onset Neonatal Sepsis: The Burden of Group B Streptococcal and E. coli Disease Continues. 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