

Infection	Likely Pathogens	FH Empiric Antibiotic Option(s) and Dose	
Neonatal (less than 45 weeks Post Menstrual Age)			
Neonatal Sepsis (Not in NICU)	<i>S. agalactiae</i> (GBS) <i>E. coli</i> <i>Listeria</i>	ampicillin + gentamicin (refer to FH Neonatal PDTM for doses)	
Neonatal Meningitis (Not in NICU)	<i>S. agalactiae</i> (GBS) <i>E. coli</i> <i>Listeria</i> HSV	ampicillin + gentamicin ± cefotaxime ± acyclovir (refer to FH Neonatal PDTM for doses)	
Pediatric (45 weeks Post Menstrual Age to less than 17 years)			
		First Choice	Penicillin Allergy*
Sepsis	<i>N. meningitidis</i> <i>S. pneumonia</i> <i>E. coli</i> <i>S. aureus</i>	cefotaxime 33 to 67 mg/kg IV Q8H ± vancomycin 20 mg/kg IV Q6H	cefotaxime 33 to 67 mg/kg IV Q8H ± vancomycin 20 mg/kg IV Q6H
Meningitis	<i>N. meningitidis</i> <i>S. pneumoniae</i> <i>H. influenza</i> HSV	cefotaxime 75 mg/kg IV Q6H + vancomycin 20 mg/kg IV Q6H ± acyclovir 12 years or less: 20 mg/kg IV Q8H Over 12 years: 10 mg/kg IV Q8H	cefotaxime 75 mg/kg IV Q6H + vancomycin 20 mg/kg IV Q6H ± acyclovir 12 years or less: 20 mg/kg IV Q8H Over 12 years: 10 mg/kg IV Q8H
Pharyngitis/ tonsillitis	<i>S. pyogenes</i> (Group A strep)	penicillin V 8.5 to 16.5 mg/kg PO TID OR amoxicillin 8.5 to 16.5 mg/kg PO TID	clindamycin 7 to 13 mg/kg PO TID OR clarithromycin 7.5 mg/kg PO BID
Acute Otitis Media	<i>H. influenzae</i> <i>S. pneumoniae</i> <i>M. catarrhalis</i>	amoxicillin 40 to 45 mg/kg PO BID	cefuroxime 15 mg/kg PO BID OR clarithromycin 7.5 mg/kg PO BID
Mastoiditis	<i>S. pneumonia</i> <i>S. pyogenes</i> (Group A strep) <i>S. aureus</i>	cefotaxime 33 to 67 mg/kg IV Q8H + vancomycin 20 mg/kg IV Q6H +/- metronidazole 10 mg/kg IV Q8H	cefotaxime 33 to 67 mg/kg IV Q8H + vancomycin 20 mg/kg IV Q6H +/- metronidazole 10 mg/kg IV Q8H
Sinusitis	<i>H. influenzae</i> <i>S. pneumoniae</i> <i>M. catarrhalis</i> <i>S. aureus</i> <i>S. pyogenes</i> (Group A strep) <i>Anaerobes</i> (older children)	<u>Mild:</u> amoxicillin 40 to 45 mg/kg PO BID  <u>Severe:</u> Treat as for mastoiditis	<u>Mild:</u> clindamycin 7 to 13 mg/kg PO TID + cefixime 4 mg/kg PO BID  <u>Severe:</u> Treat as for Mastoiditis
Cervical lymphadenitis	<i>S. aureus</i> <i>S. pyogenes</i> (Group A strep)	<u>Mild:</u> cephalexin 10 to 25 mg/kg PO Q6H OR clindamycin 7 to 13 mg/kg PO TID  <u>Moderate to Severe:</u> cefazolin 25 to 33 mg/kg IV Q8H OR clindamycin 7 to 13 mg/kg IV Q8H OR vancomycin 20 mg/kg IV Q6H	<u>Mild:</u> clindamycin 7 to 13 mg/kg PO TID  <u>Moderate to Severe:</u> cefazolin 25 to 33 mg/kg IV Q8H OR clindamycin 7 to 13 mg/kg IV Q8H OR vancomycin 20 mg/kg IV Q6H

\*Avoid all beta-lactams antibiotics (ie cephalosporins, carbapenems) if anaphylaxis to penicillin

Cefotaxime may be interchanged with ceftriaxone for pediatric patients if not receiving calcium containing IV products. Ceftriaxone 80 to 100 mg/kg IV Q24H (for severe infections)

Endorsed by the Fraser Health Department of Pediatrics and Antimicrobial Stewardship Program

Infection	Likely Pathogens	FH Empiric Antibiotic Option(s) and Dose	
Pediatric (45 weeks Post Menstrual Age to less than 17 years)			
		First Choice	Penicillin Allergy*
Preseptal cellulitis	<i>S. pneumoniae</i> <i>S. aureus</i>	<u>Mild:</u> cephalexin 10 to 25 mg/kg PO Q6H  <u>Moderate to Severe:</u> cefazolin 25 to 33 mg/kg IV Q8H OR clindamycin 7 to 13 mg/kg IV Q8H OR vancomycin 20 mg/kg IV Q6H	<u>Mild:</u> clindamycin 7 to 13 mg/kg PO TID  <u>Moderate to Severe:</u> cefazolin 25 to 33 mg/kg IV Q8H OR clindamycin 7 to 13 mg/kg IV Q8H OR vancomycin 20 mg/kg IV Q6H
Orbital cellulitis	<i>S. aureus</i> <i>S. pneumoniae</i> Other strep <i>H. influenzae</i>	cefotaxime 33 to 67 mg/kg IV Q8H +/- vancomycin 20 mg/kg IV Q6H +/- metronidazole 10 mg/kg IV Q8H	cefotaxime 33 to 67 mg/kg IV Q8H +/- vancomycin 20 mg/kg IV Q6H +/- metronidazole 10 mg/kg IV Q8H
Dental Abscess	Polymicrobial: <i>Viridans streptococci</i> <i>Peptostreptococcus</i> <i>Prevotella</i> <i>Porphyromonas</i> <i>Fusobacterium</i>	penicillin V 8.5 to 16.5 mg/kg PO TID + metronidazole if spread beyond local tooth metronidazole 10 mg/kg PO TID If liquid needed - metronidazole benzoate 16 mg/kg PO TID	clindamycin 7 to 13 mg/kg PO TID
Community Acquired Pneumonia <b>over 3 months of age</b>	Respiratory Viruses <i>S. pneumoniae</i> <i>H. influenza</i> <i>S. aureus</i> <i>M. pneumoniae</i> <i>C. pneumoniae</i>	<u>Mild:</u> Consider no treatment if likely viral OR amoxicillin 40 to 45 mg/kg PO BID  <u>Moderate:</u> ampicillin 50 to 100 mg/kg IV Q6H ± clarithromycin 7.5 mg/kg PO BID  <u>Severe (PICU admission):</u> cefotaxime 33 to 67 mg/kg IV Q8H ± vancomycin 20 mg/kg IV Q6H ± clarithromycin 7.5 mg/kg PO BID	<u>Mild:</u> Consider no treatment if likely viral OR cefuroxime 15 mg/kg PO BID  <u>Moderate:</u> cefuroxime 25 to 50 mg/kg IV Q8H ± clarithromycin 7.5 mg/kg PO BID  <u>Severe (PICU admission):</u> cefotaxime 33 to 67 mg/kg IV Q8H ± vancomycin 20 mg/kg IV Q6H ± clarithromycin 7.5 mg/kg PO BID
Hospital Acquired Pneumonia	*Site/unit dependent variable resistance patterns <i>S. aureus</i> <i>H. influenza</i> <i>Enterobacter</i> <i>P. aeruginosa</i>	cefotaxime 33 to 67 mg/kg IV Q8H OR piperacillin-tazobactam 75 mg/kg (piperacillin component) IV Q6H ± vancomycin 20 mg/kg IV Q6H	cefotaxime 33 to 67 mg/kg IV Q8H ± vancomycin 20 mg/kg IV Q6H ± gentamicin 2.5 mg/kg IV Q8H

\*Avoid all beta-lactams antibiotics (ie cephalosporins, carbapenems) if anaphylaxis to penicillin  
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Infection	Likely Pathogens	FH Empiric Antibiotic Option(s) and Dose	
Pediatric (45 weeks Post Menstrual Age to less than 17 years)			
		First Choice	Penicillin Allergy*
UTI over 2 months of age	<i>E.coli</i> <i>Klebsiella</i> <i>Proteus</i> <i>Enterobacter</i> <i>Enterococcus</i> <i>S.saprophyticus</i> (adolescents)	<u>Mild:</u> cephalexin 10 to 25 mg/kg PO Q6H  <u>Severe:</u> gentamicin 2.5 mg/kg IV Q8H OR 7 mg/kg IV Q24H ± ampicillin 50 to 100 mg/kg IV Q6H	<u>Mild:</u> cotrimoxazole 4 mg TMP/kg PO BID  <u>Severe:</u> gentamicin 2.5 mg/kg IV Q8H OR 7 mg/kg IV Q24H
Cellulitis	<i>S. pyogenes</i> (Group A strep) <i>S.aureus</i>	<u>Mild:</u> cephalexin 10 to 25 mg/kg PO Q6H OR clindamycin 7 to 13 mg/kg PO TID  <u>Moderate to Severe:</u> cefazolin 25 to 33 mg/kg IV Q8H OR clindamycin 7 to 13 mg/kg IV Q8H OR vancomycin 20 mg/kg IV Q6H	<u>Mild:</u> clindamycin 7 to 13 mg/kg PO TID  <u>Moderate to Severe:</u> cefazolin 25 to 33 mg/kg IV Q8H OR clindamycin 7 to 13 mg/kg IV Q8H OR vancomycin 20 mg/kg IV Q6H
Necrotising fasciitis	<i>S. pyogenes</i> (Group A strep) <i>S. aureus</i> Aerobic and Anaerobic organisms May be polymicrobial	piperacillin-tazobactam 75 mg/kg (piperacillin component) IV Q6H + vancomycin 20 mg/kg IV Q6H + clindamycin 7 to 13 mg/kg IV Q8H	ciprofloxacin 7.5 to 15 mg/kg IV Q12H + vancomycin 20 mg/kg IV Q6H + clindamycin 7 to 13 mg/kg IV Q8H
Dog/Cat/Human Bite	Polymicrobial: <i>S.aureus</i> <i>Streptococcus</i> <i>E. corrodens</i> (human) <i>Pasteurella</i> (dog/cat) <i>C. cynodegmi</i> (dog/cat) Anaerobic organisms	<u>Mild:</u> amoxicillin-clavulanate 4:1 formulation 8.5 to 16.5 mg/kg (amoxicillin component) PO TID  <u>Severe:</u> piperacillin-tazobactam 75 mg/kg (piperacillin component) IV Q6H	<u>Mild:</u> clindamycin 7 to 13 mg/kg PO TID + cotrimoxazole 4 mg TMP/kg PO BID  <u>Severe:</u> clindamycin 7 to 13 mg/kg IV Q8H + cotrimoxazole 5 mg TMP/kg IV Q6H
Osteomyelitis or Septic arthritis over 3 months of age	<i>S.aureus</i> <i>S. pyogenes</i> (Group A strep) <i>S.pneumoniae</i>	cefazolin 25 to 33 mg/kg IV Q8H OR vancomycin 20 mg/kg IV Q6H	cefazolin 25 to 33 mg/kg IV Q8H OR vancomycin 20 mg/kg IV Q6H

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