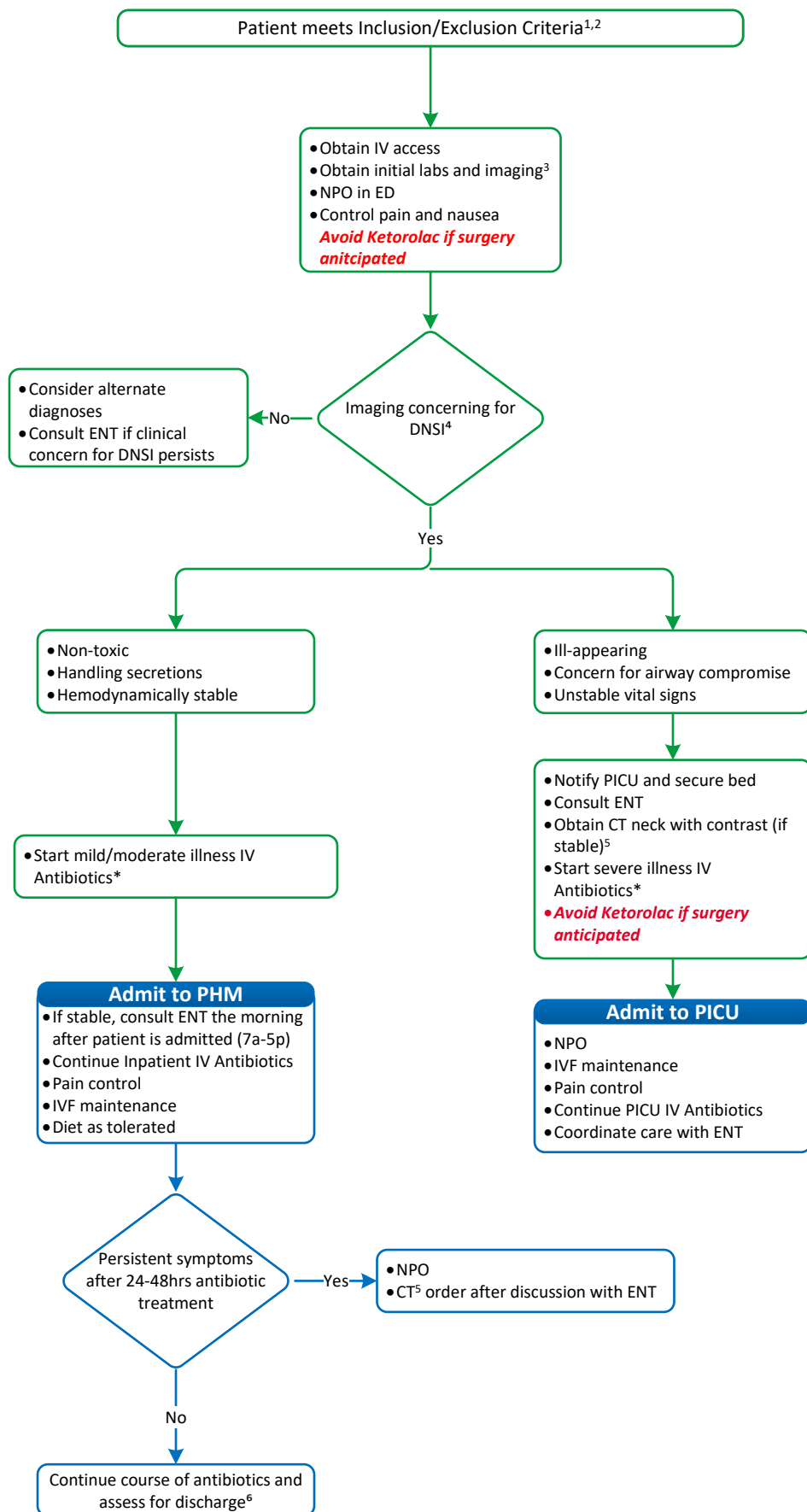


Deep Neck Space Infections Pathway

ED/IP Management

July 2026



¹Inclusion Criteria

- **Deep space neck infections (DSNI):** includes retropharyngeal and parapharyngeal infections (cervical lymphadenitis/abscess are not considered deep infections)
- Patient ≥12 months
- Symptoms may include:
 - Fever
 - Decreased neck range of motion
 Less common symptoms:
 - Change in voice
 - Difficulty swallowing or dysphagia
 - Drooling

²Exclusion Criteria

- Compromised airway
- Immunocompromised
- Prior neck or airway surgery
- Patient appears septic/in shock
- Head/neck/airway trauma

³Initial Labs and Imaging

Labs

- BMP
- CRP
- CBC with differential
- Blood culture if patient ≤2 years old and/or severe illness

Imaging

- Soft tissue neck plain film

⁴Diagnostic Results Concerning for DSNI

- Elevated WBC
- Elevated CRP

⁵CT Imaging

- Consult ENT prior to obtaining CT neck with contrast
- Sedation
 - Avoid sedation for imaging; instead consider:
 - Child Life consult
 - Sweeties/pacifier if age appropriate
 - Pain/anxiety medications

*If sedation needed: consult ENT and Anesthesia for airway evaluation/management

⁶Discharge Criteria from Inpatient

- Decision based upon discussion between ENT and Gen Peds
- Well-appearing, vital signs stable
- Labs/fever curve improving
- Tolerating PO medication and diet
- Discharge home with PO Antibiotics

**See page 2 for antibiotic dosing and frequency recommendations*

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Medication Table for Antibiotics to Manage Deep Neck Space Infections in Emergency Department, General Peds floor Inpatient, and PICU

Indication	Drug	Dose & Frequency	Targeted Pathogens
Mild-Moderate illness:	Ampicillin/Sulbactam	50mg/kg/dose IV Q6H Max dose 2000mg	<i>S.pyogenes</i> MSSA <i>H.influenzae</i> oral anaerobic flora
	OR		
	Amoxicillin/clavulanate (Augmentin 400/5)	45 mg/kg/day (max 875-125) BID	
	*use only if IV access is not available and patient improving		
Mild-Moderate illness with allergy or risk factors ¹ for MRSA	Clindamycin	13mg/kg/dose PO/IV Q8H Max dose 600mg	
Severe illness:	Ampicillin/Sulbactam	50mg/kg/dose IV Q6H Max dose: 2000mg	<i>S.pyogenes</i> MSSA <i>H.influenzae</i> oral anaerobic flora
	PLUS Vancomycin	Vancomycin with Pharmacokinetic Consult ²	
Severe illness with allergy:	CeftTRIAXone	50mg/kg/dose IV Q24H Max dose: 2000mg	<i>S.pyogenes</i> MSSA <i>H.influenzae</i>
	PLUS Vancomycin	Vancomycin with Pharmacokinetic Consult ²	
	PLUS MetroNIDAZOLE	10mg/kg/dose IV Q8H Max dose: 500mg	MRSA oral anaerobic flora
Outpatient/Discharge	Amoxicillin/Clavulanate (Augmentin 400/5)	45 mg/kg/day (max 875-125) BID	<i>S.pyogenes</i> MSSA <i>H.influenzae</i> Oral anaerobic flora
Outpatient/Discharge with allergy or *risk factors for MRSA	Clindamycin	10mg/kg/dose PO TID Max dose 600mg	

¹Risk Factors for MRSA

- Failure to improve after 72 hours of initiation of beta lactam antibiotics
- History of MRSA colonization

²See Pharmacokinetic Policy for dosing recommendations