

Appendix A

Diagnosis	Microbes to Consider	First Line Treatment	Treatment Alternative (Allergy to first- line therapy)	Duration	Special Considerations	
Orbital Cellulitis	S. pneumo, S pyogenes, anginosus group Streptococci (S. anginosus, constellatus, & intermedius)H. flu, M. catarrhalis, S. aureus, oral anaerobes. +Consider Gram negative rods s/p trauma	Ampicillin/sulbactam 75 mg/kg/dose (max 2g ampicillin/dose) q6h Indication: Head/Ear/Eye/Neck/Throat Infection	Clindamycin 13 mg/kg/dose (max 600 mg/dose) q8h Indication: Head/Ear/Eye/Neck/Throat Infection	14-21 days (Consider >14 days if presence of abscess, complicated course or slow to improve)	If there is concern for CNS extension on exam ¹ or imaging:	
		MRSA suspected ² : Clindamycin 13 mg/kg/dose (max 600 mg/dose) q8h Indication: Head/Ear/Eye/Neck/Throat Infection	*If unimmunized for age add Ceftriaxone 50 mg/kg/dose (max 2g/dose) q24h		Vancomycin panel Indication: Head/Ear/Eye/Neck/Throat Infection	
		History of Clindamycin-resistant MRSA ^{3:}	Concern for imminent sight threatening infection based upon exam by Ophthalmology:		Ceftriaxone 50 mg/kg/dose (max 2g/dose) q12h Indication: Head/Ear/Eye/Neck/Throat Infection	
		Vancomycin panel Indication: Head/Ear/Eye/Neck/Throat Infection	Ampicillin/sulbactam 75 mg/kg/dose (max 2g ampicillin/dose) q6h Indication: Head/Ear/Eye/Neck/Throat Infection		Metronidazole 10 mg/kg/dose (max 500 mg/dose) q8h Indication: Head/Ear/Eye/Neck/Throat Infection	
		AND	PLUS		If surgery performed, tailor therapy based on operative culture results	
		Add Ceftriaxone if unimmunized for age 50 mg/kg/dose (max 2g/dose) q24h Indication: Head/Ear/Eye/Neck/Throat Infection	Vancomycin panel – Indication: Head/Ear/Eye/Neck/Throat Infection			
			If Penicillin Allergy (select all antimicrobials): Vancomycin panel – indication: Head/Ear/Eye/Neck/Throat Infection Ceftriaxone 50 mg/kg/dose (max 2g/dose) q12h Indication:Head/Ear/Eye/Neck/Throat Infection Metronidazole 10 mg/kg/dose (max 500 mg/dose) q8h Indication: Head/Ear/Eye/Neck/Throat Infection			
		Known Entry	Site ⁴			
	S. aureus, S. pyogenes, Coagulase- negative staph, oral anaerobes, Strep pnemo. H. flu now uncommon in immunized children.	Oral Therapy:	Cephalosporin allergy or MRSA suspected:			
		Cephalexin 20 mg/kg/dose (max 1g/dose) q8h Indication: Head/Ear/Eye/Neck/Throat Infection Duration: 7 days	Clindamycin 13 mg/kg/dose (max 600) q8h Indication: Head/Ear/Eye/Neck/Throat Infection Duration: 7 days			
		IV Therapy:	Clindamycin Allergy:			
Periorbital Cellulitis		Clindamycin 13 mg/kg/dose (max 600) q8h Indication: Head/Ear/Eye/Neck/Throat Infection Duration: 7 days	Vancomycin panel Indication: Head/Ear/Eye/Neck/Throat Infection Duration: 7 days			
		No known entry (often associated with sinusitis) or unimmunized		7 days		
		Oral Therapy:	IV Therapy:			
		Amoxicillin/clavulante 90 mg/kg/day (max 2g/dose) divided q12h Indication: Head/Ear/Eye/Neck/Throat Infection Duration: 7 days	Ampicillin/sulbactam 75 mg/kg/dose (max 2g ampicillin/dose) q6h Indication: Head/Ear/Eye/Neck/Throat Infection Duration: 7 days			
		Penicillin Allergy: Clindamycin 13 mg/kg/dose (max 600 mg/dose) q8h Indication: Head/Ear/Eye/Neck/Throat Infection Duration: 7 days	Penicillin Allergy: Clindamycin 13 mg/kg/dose (max 600 mg/dose) q8h Indication: Head/Ear/Eye/Neck/Throat Infection Duration: 7 days			
¹ Signs of optic nerve or CNS involvement? · Change in visual acuity · Severe headache · Pupillary defect · Altered Mental Status · Bilateral symptoms · Seizure						
² MRSA suspected: history of MRSA infection or frequent SSTI in patient or immediate family members						
³ Approximate	³ Approximately 80% of MRSA locally are susceptible to clindamycin. If patient has a history of clindamycin-resistant MRSA, add vancomycin to ampicillin-sulbactam					
⁴ Known entry site: Evidence of scratch or trauma on history or physical exam						

Appendix B

Systemic Steroids					
Systemic steroids a case by case bas	are generally not recommended as there is no evidence that they improve recovery in orbital cellulitis. May consider on sis as per consultants				
	Nasal Therapies in Orbital Cellulitis				
Age	Treatment				
	Nasal Saline spray (Ocean Spray) TID				
1-4 years old	*Oxymetazoline nasal spray: 1 spray in each nare twice daily; Maximum duration of therapy: 3 days				
	Nasal Saline spray (ie. Ocean Spray) TID				
4 years or older	(Could consider saline irrigation in child with more severe sinus disease after discussion with ENT)				
	*Oxymetazoline nasal spray: 2 sprays in each nostril twice daily; Maximum duration of therapy: 3 days				
	Upon completion of oxymetazoline start Fluticasone propionate: 1 spray (50 mcg/spray) in each nostril once a day				
*Oxymetazoline F	DA approved for children >6 years old and should only be used for pediatric inpatients under supervision				
Fluticasone appro	oved for children aged 4yrs and older (once daily until 12yo; 1-2 sprays BID for children. >12yo and adults)				