Table I. Antibiotic therapy (by organism) for the treatment of invasive soft tissue infection (see notes)

Organism	Antibiotic	Dose	Alternative	
group A streptococci	Penicillin	uncomplicated cellulitis:	ceftriaxone	uncomplicated cellulitis:
(S. pyogenes)		8-12 million units/day		1-2 grams/day
		divided every 6 hours		every 24 hours
		necrotizing infections:		necrotizing infections:
		24 million units/day		4 grams/day
		divided every 4 hours		divided every 12 hours
S. aureus	vancomycin	uncomplicated cellulitis	linezolid	600 mg every 12 hours
(MRSA or unknown susceptibility)	-	2-4 g/day (divided every 6-12 hours)	daptomycin	6 mg/kg every 24 hours
		trough target 10-15 mcg/mL		
		necrotizing infections:		
		2-4 g/day (divided every 6-12 hours)		
		trough target >15 mcg/mL		
S. aureus (MSSA)	nafcillin	uncomplicated cellulitis	oxacillin (see nafcillin)	
		8 g/d (divided every 6 hours)	cefazolin:	3 g/d (divided every 8 hours)
			vancomycin (see MRSA/unknown)	
		necrotizing infections:	oxacillin (see nafcillin)	
		12 g/d (divided every 4-6 hours)	cefazolin	4-6 g/d (divided every 8 hours)
			vancomycin (see MRSA/unknown)	
Clostridia species	penicillin	24 million units/day	clindamycin	600 mg every 6-8 hours
(perfringens, septicum)		(divided every 4 hours)	imipenem*	

			metronidazole	
Peptostreptococci and	penicillin	24 million units/day	Vancomycin	2-4 g/day divided every 6-12 hours
other anerobic streptococci		(divided every 4 hours)		trough target >15 mcg/ml
Erysipelothrixrhusiopathiae	penicillin	8-12 million units/day	clindamycin	
		(divided every 6 hours)	levofloxacin	
			linezolid	
			daptomycin	
			NB. Resistant to vancomycin	
Pasteurella multocida		mild infectionconsider oral therapy:		
	penicillin VK or		levofloxacin	
	amoxicillin or		trimethoprim-sulfamethoxazole	
	amoxicillin/clavulan ate			
		severe infectionparenteral therapy:		
	ampicillin- sulbactam	3 g every 6 hours or	imipenem 500 mg - 1g every 6-8 hours	
	piperacillin- tazobactam	3.375 g every 6 hours	levofloxacin	
	penicillin G	(monobacterial infection)	tigecycline	
			doxycycline	
Hemophilusinfluenzae type b	ceftriaxone	2 grams/day	levofloxacin	
Enteric gram negative bacilli	ceftriaxone	2 grams/day	piperacilln- tazobactam	3.375 g every 6 hours
(E. coli, Klebsiella, etc.)			ciprofloxacin	
Nonenteric gram negative bacilli				
Pseudomonas aeruginosa	cefepime	1 g every 6-8 hours	imipenem	1 gram every 8 hours

			ciprofloxacin	
Aeromonas hydrophila	cefepime	1 g every 6-8 hours	ciprofloxacin	400 mg IV every 12 hours
	(+/- gentamicin)	80 mg every 8 hours	imipenem	1 gram every 8 hours
		trough <2 mcg/ml, peak >4 mcg/ml	(+/- gentamicin)	80 mg every 8 hours
		<u> </u>		trough <2 mcg/ml, peak >4 mcg/ml
Vibrio species:	doxycycline	100 mg twice daily	levofloxacin	500 mg daily
V. vulnificus, parahemolyticus	(+ceftriaxone)	1-2 grams every 24 hours		
non cholera vibrios				
Capnocytophaga canimorsus		mild disease		
	amoxicillin- clavulanate	875 mg twice daily	doxycycline	100 mg twice daily
		severe disease		
	ampicillin- sulbactam	3 grams every 6 hours	ceftriaxone	2 grams daily-every 12 hours
			or clindamycin	600 mg every 6-8 hours
Note: imipenem may be used interchangeably with meropenem				

- The listed doses are for adults with normal renal function. Dose modifications may be necessary in the setting of renal insufficiency.
- Tetracycline products (e.g., doxycycline) are generally contraindicated in children <8 years of age but may be considered for severe and potentially life-threatening infections in younger children. Doxycycline appears to have a reduced risk of dental staining or other complications.