## **Sharp Healthcare Treatment Guidelines for Skin & Soft Tissue Infections**

## **Take-Home Points**

- 1) Most skin infections are caused by Staph and Strep
  - Anaerobic and gram negative coverage (i.e. Zosyn, ceftriaxone or levo/cipro) is NOT needed in most cases
- 2) Treatment duration is 5 days with clinical response
  - Defined as 20% reduction in erythema and resolution of SIRS/sepsis
  - Treating until complete resolution of erythema is NOT necessary in most cases
- 3) Diabetics do not require broader or longer treatment for cellulitis, abscess, or wound infection (Exception: severe foot infection)

## Adjunctive treatment for cellulitis

- 1) Elevation to reduce edema
- 2) For non-diabetic patients and no other contraindications, consider adjunctive anti-inflammatory tx
  - a. Ibuprofen 400mg q6h or prednisone 20mg daily for 5 days

Indication	Inpatient Therapy	Transition to Outpatie	nt Therapy	Total Duration
Non-Purulent Cellulitis	Cefazolin 2g IV q8h	Cephalexin 1000mg TID ( OR Dicloxacillin 500mg QID	(QID if>80 kg) 5 days	
	Cefazolin allergy: Vancomycin IV or linezolid 600 mg IV q12h. Step down to Clindamycin 450mg PO TID or linezolid 600 mg po q12h			
Purulent Cellulitis, Abscess, or Penetrating trauma	Incision and drainage Vancomycin IV or linezolid 600 mg IV q12h  For ED, teenhalevin 1000mg TID (OID if	Doxycycline 100mg PO BID OR linezolid 600 mg PO BID OR Bactrim DS 1 tab PO BID (>80kg, 2 DS tab PO BID) ID if >80kg) at discharge if strep suspected		5 days after drainage or debridement
Wound Infection (non GI/GU)	Open and debride wound  Vancomycin IV or linezolid 600 mg  IV q12h	n and debride wound ancomycin IV or linezolid 600 mg  Non-MRSA: treat same as nurulent cellulitis/		
Bite Infections  Prophylaxis	Prophylaxis indicated for: Immunocompromised or asplenic, advanced liver disease, edema at wound, mod-severe injuries, wound to hand, face, or penetration of periosteum/joint capsule Augmentin 875/125mg PO BID  (PCN allergy: Cefuroxime 500mg PO BID + Metronidazole 500mg TID  OR Doxycycline 100mg PO BID + Metronidazole 500mg TID)			3-5 days
Treatment of infected wounds	Consider debridement as indicated Initial/Empiric therapy: Unasyn 3g IV q6h (PCN allergy: Ceftriaxone 2g IV q24h + Metronidazole PO/IV q8h) See above for empiric step-down options			7-14 days
Diabetic w/ uncomplicated skin infection	Treat same as cellulitis or abscess described above. Diabetics with uncomplicated infections do not require gram negative or anaerobic coverage in most cases			
Diabetic w/ mild or moderate <u>foot infection</u>	Treat same as wound infection. Diabetics with mild to moderate foot infections do not need anaerobic or gram-negative abx in most cases  Extensive, chronic moderate infections: consider adding Metronidazole 500mg PO/IV q8h to Vancomycin or Linezolid or Cefazolin, OR switch to Unasyn 3g IV q6h			Mild: 7 days Mod: 14 days
Diabetic foot infection – deep space or sepsis	Rule out osteomyelitis. Consider ID and podiatry consults.  Vancomycin IV or linezolid 600 mg IV a12h + 7osyn 4 5g IV a8h  Abx and dura			ation of therapy tures and degree
Necrotizing fasciitis	Immediate surgical eval for I&D: Vancomycin IV + Clindamycin 900mg IV q8h + Zosyn 4.5g IV q8h or linezolid 600 mg IV q12h+ Zosyn 4.5g IV q8h  PCN allergy: Replace Zosyn w/ Cefepime 2g IV q8h			

- Not intended for complicated infections including, but not limited to, neutropenia (ANC <500), organ/stem cell transplant, prednisone use >10mg/day, AIDS, or recent receipt of chemotherapy. Use clinical judgement.

## References

Stevens DL et al. Practice guidelines for the diagnosis and management of skin and soft tissue infections: 2014 update by the Infectious Diseases Society of America. Clin Infect Dis. 2014; 59(2):e10-52

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Lipsky BA et al. 2012 Infectious Diseases Society of America clinical practice guideline for the diagnosis and treatment of diabetic foot infections. Clin Infect Dis. 2012; 54(12): 132-173