

ANMC Adult Inpatient Skin and Soft Tissue Infection

| Complicating Risk Factors | Diagnostic Studies |
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| <ul style="list-style-type: none"> • Infected diabetic or vascular ulcer • Critical illness • Concern for necrotizing fasciitis • Deep tissue infection • Surgical site infection • Injection drug use <p style="text-align: center; font-size: small;">If complicating risk factors are present, treatment varies. Consider ID consultation.</p> | <ul style="list-style-type: none"> • Blood cultures if systemically ill, diabetic or other immunosuppression • Plain film only if concern for foreign body or necrotizing fasciitis • Wound culture of purulent drainage • NOT routinely indicated for initial management of uncomplicated disease: <ul style="list-style-type: none"> ○ ESR, CRP, Procalcitonin ○ Blood cultures ○ Wound swab/Superficial cultures, fungal or AFB cultures ○ Plain films, CT or MRI |

Treatment Options

| | Empiric Antibiotic Therapy | Oral Antibiotic Step-down Therapy | Duration |
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| Uncomplicated Skin and Soft Tissue Infections | | | |
| <p style="text-align: center;">Non-purulent cellulitis</p> <p style="font-size: small;">Common Pathogens: <i>Beta-hemolytic Streptococci sp.</i></p> | <ul style="list-style-type: none"> • Cefazolin 2 gm IV q8hr • Ibuprofen 600 mg PO TID* <p style="font-size: small;"><u>Beta-Lactam Allergy:</u></p> <ul style="list-style-type: none"> • Clindamycin 600 mg IV q8hr^ • Ibuprofen 600 mg PO TID* | <ul style="list-style-type: none"> • Cephalexin 1 gm PO TID <p style="font-size: small;"><u>Beta-Lactam Allergy:</u></p> <ul style="list-style-type: none"> • Clindamycin 300 mg PO TID | <p>5 days</p> <ul style="list-style-type: none"> • 5 days is sufficient for well-drained abscess without surrounding cellulitis • Duration of therapy may be extended for severe or poorly responsive disease |
| <p style="text-align: center;">Cutaneous abscess or Purulent cellulitis</p> <p style="font-size: small;">Common Pathogens: <i>Staphylococcus aureus</i></p> | <ul style="list-style-type: none"> • I&D (send purulent drainage for culture) • Vancomycin 1 gm IV q12hr (pharmacy to dose) | <p style="font-size: small;">Based on susceptibilities (pick one):</p> <ul style="list-style-type: none"> • TMP/SMX DS 1 tab PO BID • Clindamycin 300 mg PO TID • Doxycycline 100 mg PO BID | |
| Complicated Skin and Soft Tissue Infections | | | |
| <p style="text-align: center;">Human bite/Animal bite</p> <p style="font-size: small;">Common Pathogens: <i>Pasteurella sp</i> (cats, dogs), <i>Capnocytophaga spp.</i> (dogs), <i>Eikenella corrodens</i> (human), <i>Strep spp.</i>, Anaerobes</p> | <ul style="list-style-type: none"> • Ampicillin/Sulbactam 3gm IV q6hr <p style="font-size: small;"><u>Beta-Lactam Allergy:</u></p> <ul style="list-style-type: none"> • Levofloxacin 750 mg IV/PO q24hr PLUS • Clindamycin 600 mg IV q8hr | <ul style="list-style-type: none"> • Amoxicillin/Clav 875/125 mg PO BID <p style="font-size: small;"><u>Beta-Lactam Allergy:</u></p> <ul style="list-style-type: none"> • Levofloxacin 750 mg PO q24hr PLUS • Clindamycin 300 mg PO TID | <p style="font-size: small;">Prophylaxis with open wound: 3 to 5 days</p> <p style="font-size: small;">Infected: 7 to 14 days</p> |
| <p style="text-align: center;">Necrotizing Fasciitis (including Fournier's Gangrene)#</p> <p style="font-size: small;">Common Pathogens: GAS, <i>Clostridium perfringens</i>, MRSA, <i>Vibrio vulnificus</i>, <i>Klebsiella spp.</i></p> | <ul style="list-style-type: none"> • Prompt surgical consultation • Consider ID consultation • Vancomycin IV 20 mg/kg x1 (Pharmacy to dose) PLUS • Cefepime 1 gm IV q8hr (extended infusion) PLUS • Clindamycin 900 mg IV q8hr | <p style="font-size: small;">To be determined by ID Physician based on organism identification</p> | <p style="font-size: small;">7+ days depending on clinical resolution</p> |
| <p style="text-align: center;">Surgical Site Infection</p> <p style="font-size: small;">Common Pathogens: Dependent on site of infection</p> | <ul style="list-style-type: none"> • I&D (send tissue/drainage for culture and gram stain) <ul style="list-style-type: none"> ○ Antimicrobial therapy to be determined by gram stain from I&D and location of surgical site infection | <p style="font-size: small;">To be determined based on organism identification</p> | |

* If no contraindication to NSAID therapy

^ In diabetic non-purulent cellulitis, consider replacing Clindamycin with Vancomycin therapy for empiric *Staphylococcus aureus* coverage.

LRINEC scoring can be used to assist in diagnosis of necrotizing fasciitis

Antibiotics with broad-spectrum gram-negative activity are NOT recommended except necrotizing fasciitis, and in most cases should be avoided.