



Necrotizing infections of skin and fascia

- Usually in drug use, DM, obesity and immunosuppression
- Clinical features:
 - Typical S/S: tense edema of the skin, disproportionate pain, blisters, bullae, crepitus, subcutaneous gas
 - Systemic findings: fever, tachycardia, hypotension

Necrotizing infections of skin and fascia

- Necrotizing cellulitis
- Necrotizing fasciitis
 - Type I
 - Type II

Necrotizing cellulitis

- Clostridial cellulitis
 - C. perfringens
- Nonclostridial anaerobic cellulitis
 - mixed anaerobic and aerobic organisms
 - foul odor
 - Usually in DM patients



Necrotizing fasciitis

- Type I
 - Mixed infection: aerobic and anaerobic
 - Post-OP, DM, peripheral vascular disease
- Type II
 - Group A Streptococcus (GAS, S. pyogenes)
 Streptococcal toxic shock syndrome (50%)
 - MRSA
 - In any age with good immunity
 - Associated with NSAID ?!

NF type I in DM p't

- NF should be considered in DM p't with cellulitis with systemic signs:
 - Tachycardia
 - Leukocytosis
 - Marked hyperglycemia
 - acidosis
- Often on feet
- Also on head, neck, perineum....



Clinical feature of NF

- Usually in feet, head and neck, perineum
- Erythema: darken-> reddish-purple color within 24-48 hr
- Unexplanied pain
- Blister/bullae: blue or maroon; extensive deep soft destruction
- Crepitus (10%)
- Systemic toxicity: fever, malaise, myalgia, diarrhea, anorexia, hypotension

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Treatment of NF

- Surgery
- Antibiotic treatment
- Hemodynamic support

Surgery for NF

- Best indication:
 - Severe pain
 - Toxicity
 - Fever
 - Elevated CPK
 - With or without radiographic findings
 - Goal of surgery
 - To establish a diagnosis
 - To perform debridement

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Antibiotic treatment Ampicillin-sulbactam (Unasyn) Ampicillin + clindamycin (or metronidazole) For G(-) bacteria: Tigecycline or Tazocin Unasyn + fluoroquinolone Unasyn + aminoglycoside Unasyn + Cepha Unasyn + carbapenem











