







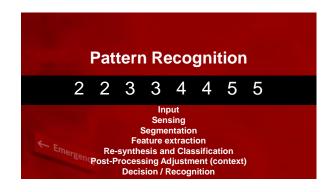
Unka Teddy's Rules The severity of visible pathology (deviation from normal) does not always correlate with the degree of seriousness of disease process Given pathology of similar visible severity, you may need ancillary information to decide what is or is not life-threatening Given truly life-threatening disorders, the real need for rapid intervention may differ greatly You don't always need to know the precise diagnosis immediately, but a skilled clinician can identify emergent situations





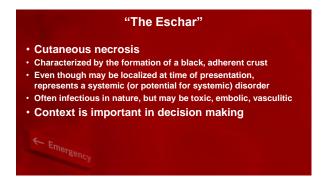




















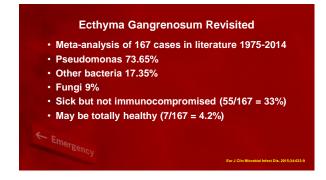


Disease	Age	# Lesions	Fever	Notes
Flap Necrosis	Adults	One area	No	Post-operative
Embolic	Adults	Few	No	CV history
Mucormycosis	Adults	One area	Yes	Diabetes
Fungal sepsis	Any	Few	Yes	History!
Bacterial sepsis (EG)	Any	Few	Yes	History!
Misc infections Anthrax, Tularemia Scrub typhus, Plague	Any	One to Many	Typically	Travel History
Anticoagulant	Adults	One	No	History
Calciphylaxis	>Adults	One to Few	No	Renal disease
Necrotizing Fasciitis Fournier's Gangrene	Older Adults	Large area	Yes	Recent trauma GI/GU Procedure
Snake or Spider bite	Any	One	Maybe	History



Ecthyma Gangrenosum Manifestation of bacterial sepsis Pseudomonas, Klebsiella, E. Coli, Serratia, rarely S. Aureus Solitary, painless, red swelling, may develop bulla, but rapidly forms painless eschar-covered ulcer Process only takes 12-24 hours Patient febrile and toxic-appearing IMMUNOCOMPROMISED, NEUTROPENIC IV antibiotics for presumed Pseudomonas Culture skin, culture blood, look for focus of infection





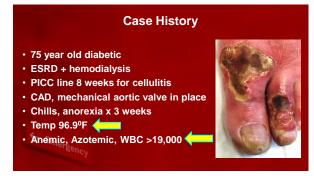




Case History

- · 75 year old diabetic
- ESRD + hemodialysis
- PICC line 8 weeks for cellulitis
- · CAD, mechanical aortic valve in place
- · Chills, anorexia x 3 weeks
- Temp 96.9°F
- Anemic, Azotemic, WBC >19,000





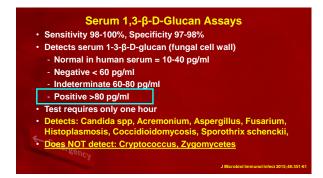




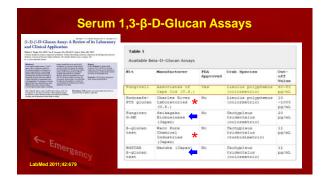
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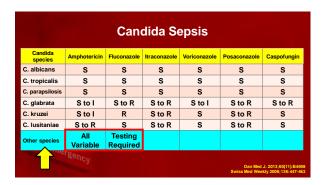
Serum 1,3-β-D-Glucan Assays Sensitivity 98-100%, Specificity 97-98% Detects serum 1-3-β-D-glucan (fungal cell wall) Normal in human serum = 10-40 pg/ml Negative < 60 pg/ml Indeterminate 60-80 pg/ml Positive >80 pg/ml Test requires only one hour Detects: Candida spp, Acremonium, Aspergillus, Fusarium, Histoplasmosis, Coccidioidomycosis, Sporothrix schenckii,





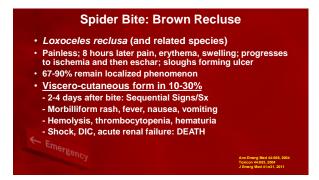








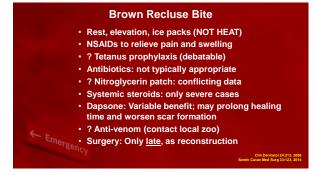












Emergency Department Death From Systemic Loxoscelism

Jessica L. Rosen, MD, Jon K. Dumitru, MD, Emily W. Langley, MD, Christy A. Meade Olivier, MD

From the Vanderbill University Medical Center, Department of Emergency Medicine, Nashville, TN (Rosen, Dumitru): the Morroe Carell Jr.

Children's Hospital at Vanderbill, Department of Predators, Nashville, TN, (Langley), and the Rankall Children's Hospital at Legacy Emanuel,

Oregon Health Sciences University, Dhission of Pediatoric Emergency Medicine, Portland, OR (Olivier).

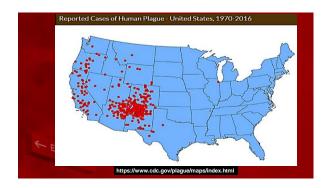
Systemic Iososcelisms is a constitutional illness resulting from the bite of the brown recluse spider. In severe form,

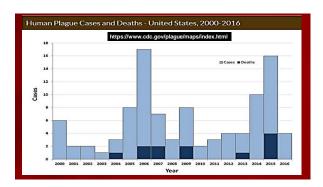
R may cause hemolysis, acute rend failure, and disseminated intravascular congulation. More rarely, it may result
in death. We report an unusual case of systemic lousocelism resulting in death less than one day following
envernomation. We also discuss screening algorithms and contemporary management of systemic lousocelism. [Ann
Emerg Med. 2012;60:439441.]

Case History • 59 year-old welder • Attempted to pull mouse out of cat's mouth because the pet was choking • After extraction, cat bit owner • 48 hours later, developed "flu" like Sx Fever (104.1°F) Mild cough, Myalgia, Arthralgia • Axillary adenopathy: Size of "lemons" • SOB, productive cough • Hands and feet turn grey, then black









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Plague

- · Highly contagious: Rx before lab results
- Streptomycin or Gentamicin primary Rx
- After afebrile: Tetracycline / Doxycycline
- Alternate agents: Fluoroquinolones
- Prophylaxis following rodent contact in endemic area: Levofloxacin, Doxycycline
- MDR Plague: Madagascar
- Subunit vaccine in development (capsular antigens)

Expert Rev Anti Infect Ther 2013;11:817-29 Emerging Infect. Dis 2001; 7, 43-48

Case History

- 53 year-old male
- · Alcoholic w/ history alcoholic hepatitis
- · Drinking beer and fishing in Galveston
- · Knicks his hand on needle of lure
- · Hand swollen by that evening
- · In 48 hours skin blisters
- In 72 hours: eschar formation

 Emerge
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Vibrio Vulnificus Infection

- · Most virulent food-borne infection in USA
- Consumption of raw or under-cooked oysters or shellfish from Gulf of Mexico (> during Summer)
- Also occurs with skin wound exposed to contaminated water or related to injury by contaminated marine life (shrimp, fish)
- LIVER INSUFFICIENCY predisposes!
- Most common in summer (more microbes)
- Ceftriaxone + Doxycycline or Minocycline
- · Debridement if indicated

m Fam Physician 76:539, 200

Vibrio Vulnificus Infection • Fatality rates: >50% food-borne; 20% for wound related • Hemorrhagic bullae and fever and history • Progresses rapidly to necrotizing fasciitis • Limb loss risk









Dermatological Emergencies

- Learn to recognize key sign and symptom patterns which signify emergency
- STOP and consider that patient more carefully; don't put that patient off or wait for loads of lab tests
- Consider hospitalization, because many of these clinically deteriorate rapidly and unpredictably
- Such patients almost always require TEAM care!