UNITEDHEALTH GROUP



Medical Directors' Grand Rounds

Cellulitis - by Judi Shaw- Rice MD

What is it?

A common infection(due to bacteria or fungus) or inflammation of the skin

Due to

- □ damaged and infected skin (eg tears, cuts, post-surgery wounds, skin conditions psoriasis, eczema),
- poor circulation (eg. PVD, PAD),
- bone infection under the skin(osteomyelitis),
- foreign body under the skin esp when swelling is there from other causes (liver, heart failure, joint rheumatologic ds, meds NSAIDS, BP meds: calcium channel blockers)

NOTE difference between inflammation and infection with MRSA or Strep (most common)

How is it diagnosed?

By exam - skin is swollen, red, painful and warm to touch, maybe red streaks, fever, blisters, skin dimpling; in severe cases may have (sepsis) chills, shaking, muscle aches; rarely

need labs/tests;









What labs/tests are needed?

Labs:

WBC – infection count; **Chemistries** – check liver, kidney function

Tests:-

Ultrasound – to rule out blood clot or rarely bone fracture

CAT scan – to check for compartmental syndrome, necrotizing fasciitis

What is the treatment?

Treatment:-

- Most cases of inflammation resolve within days or weeks without intervention .
- For infections:- Antibiotics- oral or IV if severe,
- Elevation of legs /arms (or other part of body) to allow drainage away,
- Pain meds (Tylenol etc),
- Surgery (rare) or procedure for Necrotizing fasciitis, abscess drainage

Risks & Behavioral changes needed

Impacted by cleanliness/habits

- □Between toes/ feet/-? barefoot, moisture between toes, dirty feet causes breaks in the skin and entry point for bacteria
- ☐ Home conditions- poor hygiene, dirty conditions
- ☐ Shaving causes skin breakdown, dirty razors
- □ Pets can contaminate and impact cleanliness of area
- □Legs dependent causes fluid to accumulate and feet/legs to swell
- ■Weight increases pressure and makes it harder for fluid to return from the leg, thus swelling

Risks & Behavioral changes needed

Signs of Disease states worsening

- ■DM controlled BS can increase due to infection and poorly controlled DM with high sugars and increase chances for an infection
- □CHF controlled if not controlled can increase swelling and lead to infection due to risks in section (b- how is it dx?)
- □ ESRD /HD controlled could increase swelling due to protein loss, and fluid overload due to missed dialysis
- □ Pulm HTN can lead to swelling due to 'back' up
- □ Liver failure swelling due to low protein/cirrhosis
- □ Obesity swelling due to increased weight on the legs and lack of fluid return
- ■PVD/PAD worsening circulation (numbness, weakness),

THANK YOU!!

