

#### Wounds and investigations

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# Wounds and investigations

- What is a typical wound?
  - Venous ulceration
  - Ischaemic Ulceration
  - Neuropathic Ulceration
- What is an atypical wound?
- What to do when you see one?



- Venous ulceration
  - Medial or lateral maleolus





- Venous ulceration
  - Medial or lateral maleolus
  - Arise in the context of venous insufficiency
    - Pitting oedema
    - Hyperpigmentation
    - Lipodermatosclerosis
    - White atrophy
    - Varicosities





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  - Medial or lateral maleolus
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    - Pitting oedema
    - Hyperpigmentation
    - Lipodermatosclerosis
    - White atrophy
    - Varicosities
    - Islands of re-epithelialization





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  - Arise in the context of venous insufficiency
    - Pitting oedema
    - Hyperpigmentation
    - Lipodermatosclerosis
    - White atrophy
    - Varicosities
    - Stasis dermatitis
    - Contact dermatitis





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- Ischaemic Ulceration
  - Distal end-organ sites







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  - Pressure site eg bandages
  - Emboli
  - Gangrene
  - Calciphylaxis







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  - Medial or lateral maleolus
- Ischaemic Ulceration
  - Distal end-organ sites
  - Pressure site eg bandages
  - Emboli
  - Gangrene
  - Calciphylaxis
- Neuropathic Ulcers
  - Weight bearing or pressure sites





- What is a typical Wound?
  - Venous ulceration
  - Ischaemic Ulceration
  - Neuropathic Ulceration
  - Decubitus Ulceration
- What is an atypical Wound? Everything else!
- What to do when you see one?



Could this be a skin cancer?

Could this be an Infection?

 Could this patient have an underlying illness

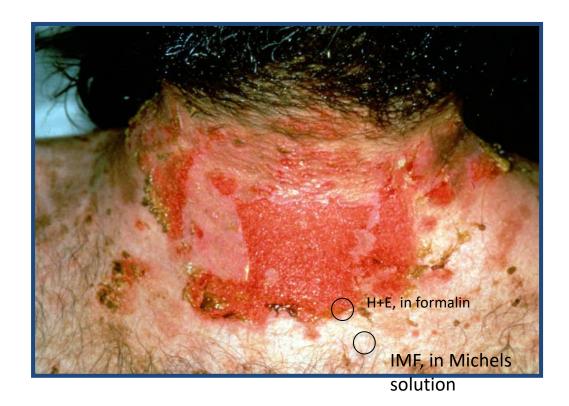


- Bullous Pemphigoid
  - Investigations: Punch bx x2
  - Serum antibody levels BP
  - +/- swab B C+S





Pemphigus





#### Vasculitis

Hx: drugs, recent infections, haematuria

Assess urine dip, blood pressure

Biopsy

Bloods: FBC, UE, LFTs, +/- ANA, ENA, Hep B,C, HIV







Classical Pyoderma gangrenosum











#### Pyoderma gangrenosum

50% are idiopathic

50% have an associated disease

#### Classic PG

- IBD (26.6%), fecal calprotectin, history
- RA (14.1%), non-RA arthritis (4.7%), -serology (RF, ANA, anti-CCP, anti-DS DNA, ENA)
- Haematologic malignancy (10.9%) –FBC, blood film, LN exam









- Necrotising fasciitis
  - Examine-> crepitis->refer to surgeons





SCC: Key features of hx: pain, rapid change (wks>mo), IS, Hx SC,



SCC ('Marjolin Ulcer')



#### **Atypical Wounds: investigations**

- Take a swab
  - Bacteria
  - Viral
  - fungal
- Take a Biopsy
  - For routine histology (in formalin)
  - For microbiology (in gauze and saline)
  - For immunofluorescence (Michels medium)

