



# Interhospital Conference Case 7

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# A 34-year-old male

Multiple dermal to subcutaneous nodules with small ulcers on both shins for 2 weeks



# Present illness

Dec 2019



## 2 weeks earlier

- Multiple tender nodules on both shins
- Treated as abscess:
  - I&D
  - Amoxicillin 2 g/day for 4 days

## 2 days earlier

- Visit hospital as lesion not improved
- Mx:
  - Co-amoxiclav 2 g/day
  - Slight improvement

# Present illness

- No fever/abdominal pain/joint pain
- No loss of appetite or significant weight loss

# Past history

- SLE diagnosed in 1997
  - NPSLE, serositis, lymphadenopathy
  - Anti-dsDNA, ANA positive
- CKD stage IV, HT, gout
- History of disseminated nocardiosis  
(lungs, chest wall, brain) 5 months ago

# Current medications

- Prednisolone(5) 2x1 po pc
- Acyclovir(20) 1x1 po pc
- Simvastatin(10) 1X1 po pc
- Manidipine(20) 1x1 po pc
- Enalapril(20) 1x1 po pc
- Folic(5) 1x1 po pc
- Ferrous fumarate(200) 1x1 po pc
- Co-trimoxazole(400/80) 3x1 po pc

# Physical examination

- Vital signs: T 37 °C, BP 140/90 mmHg, PR 90 bpm, RR 20/min
  - HEENT: no pale conjunctiva, anicteric sclera
  - Lymph nodes: impalpable
  - Lungs
  - CVS
  - Abdomen
- } WNL

# Dermatological examination





Multiple tender dermal to subcutaneous erythematous nodules with small ulcers on both shins

# Problem list

1. Multiple ulcerated erythematous nodules on both shins
2. U/D SLE, CKD stage IV, HTN, gout
3. Recent history of disseminated nocardiosis

# Differential diagnosis

## Infection

- Infection induced panniculitis:
  - NTM, nocardia, fungus

## Inflammation

- Erythema induratum
- Polyarteritis nodosa
- Pancreatic panniculitis

## Malignancy

- Subcutaneous panniculitis-like T-cell lymphoma
- Leukemia/lymphoma cutis

# Differential diagnosis

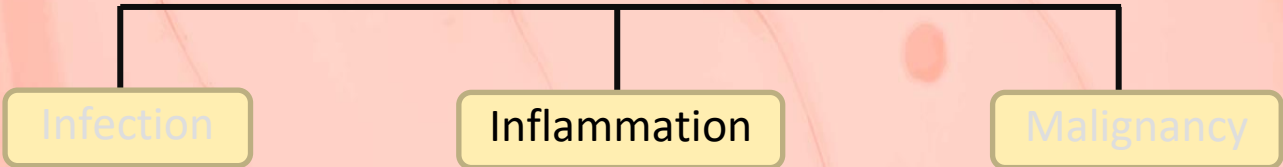
Infection

Inflammation

Malignancy

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  - NTM, nocardia, fungus

# Differential diagnosis



# Differential diagnosis

Infection

Inflammation

Malignancy

Erythema induratum



# Differential diagnosis

Infection

Inflammation

Malignancy

Erythema induratum

Polyarteritis nodosa





# Differential diagnosis

Infection

Inflammation

Malignancy

Erythema induratum



Polyarteritis nodosa



Pancreatic panniculitis





# Differential diagnosis

Infection

Inflammation

Malignancy

Subcutaneous  
panniculitis-like  
T-cell lymphoma



# Differential diagnosis

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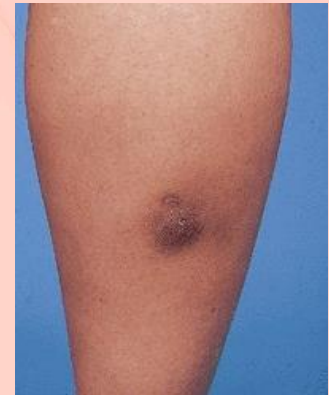
Inflammation

Malignancy

Subcutaneous  
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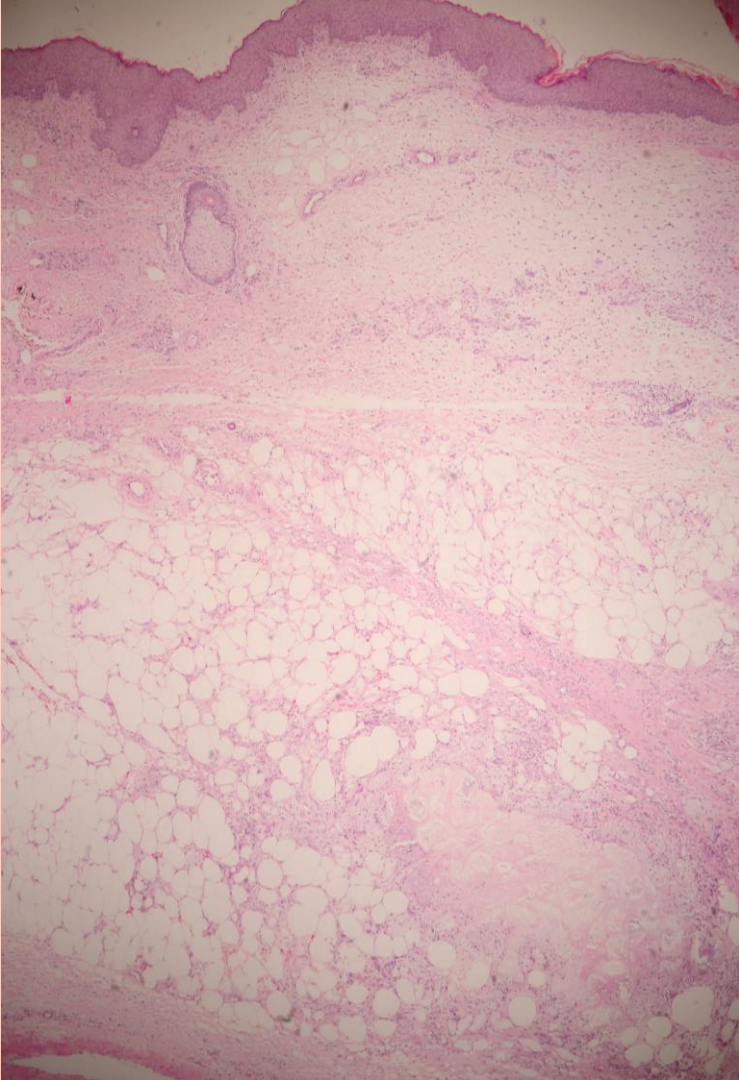
Leukemia/lymphoma cutis



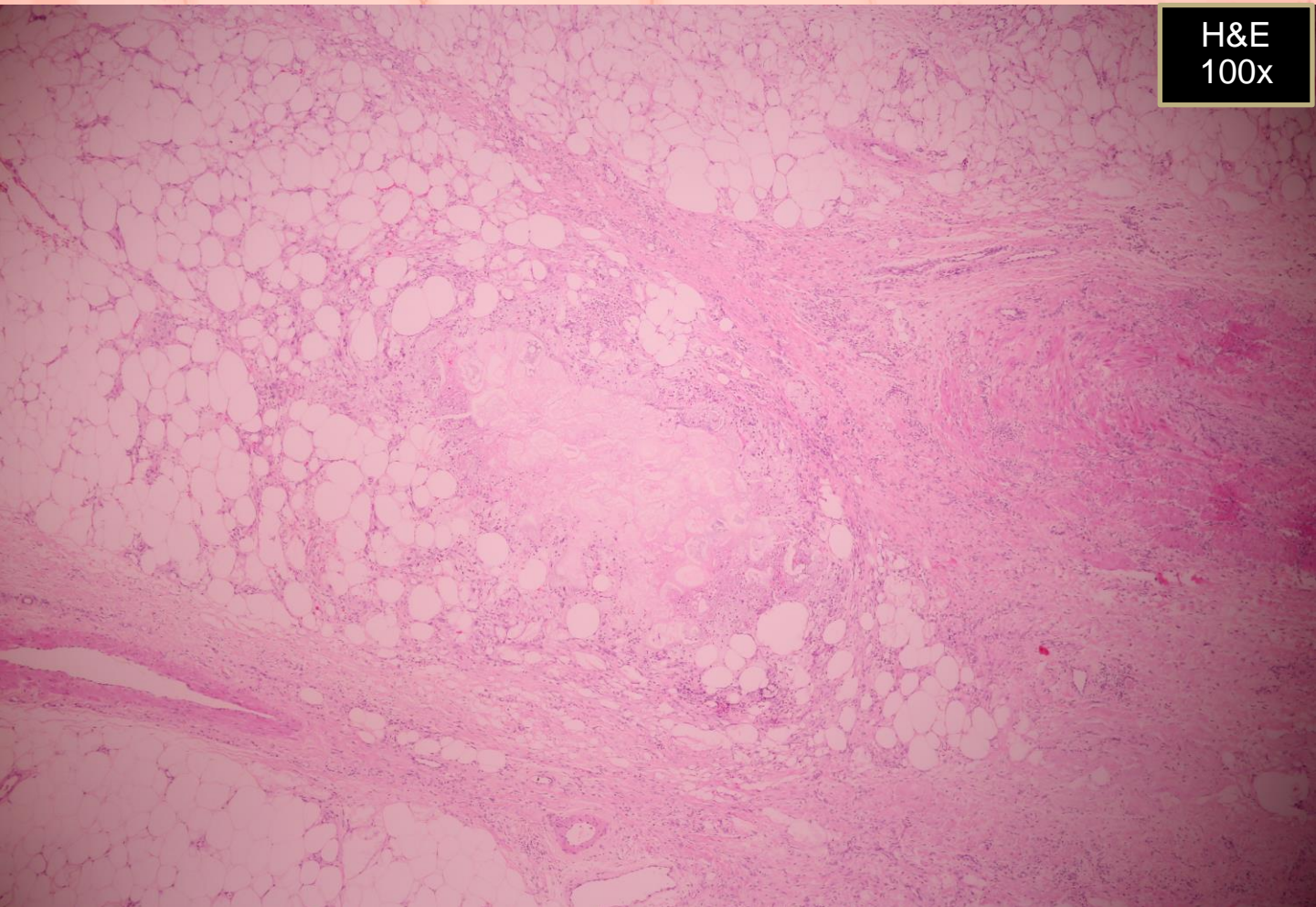


# Histopathology

H&E  
40x

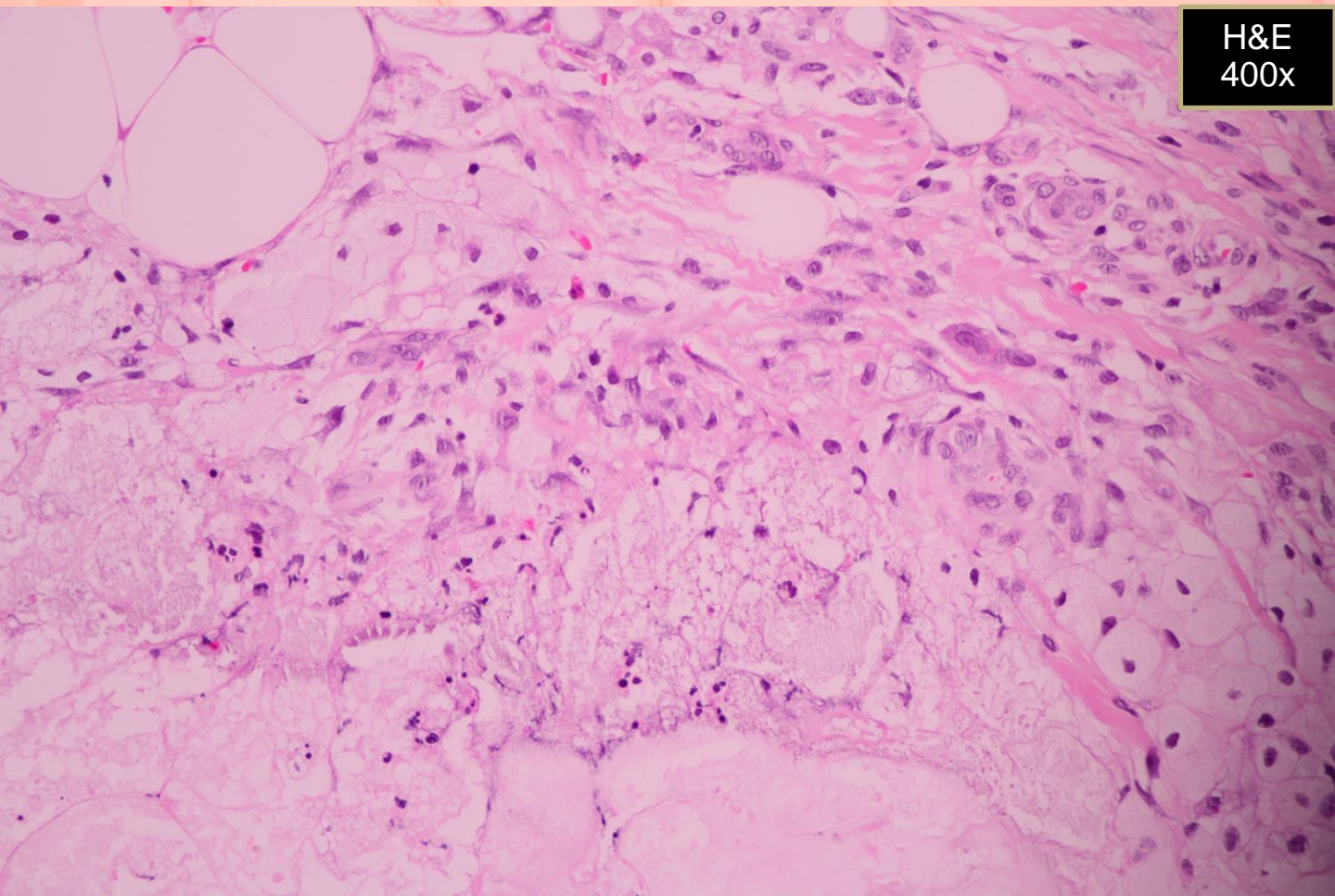


H&E  
100x

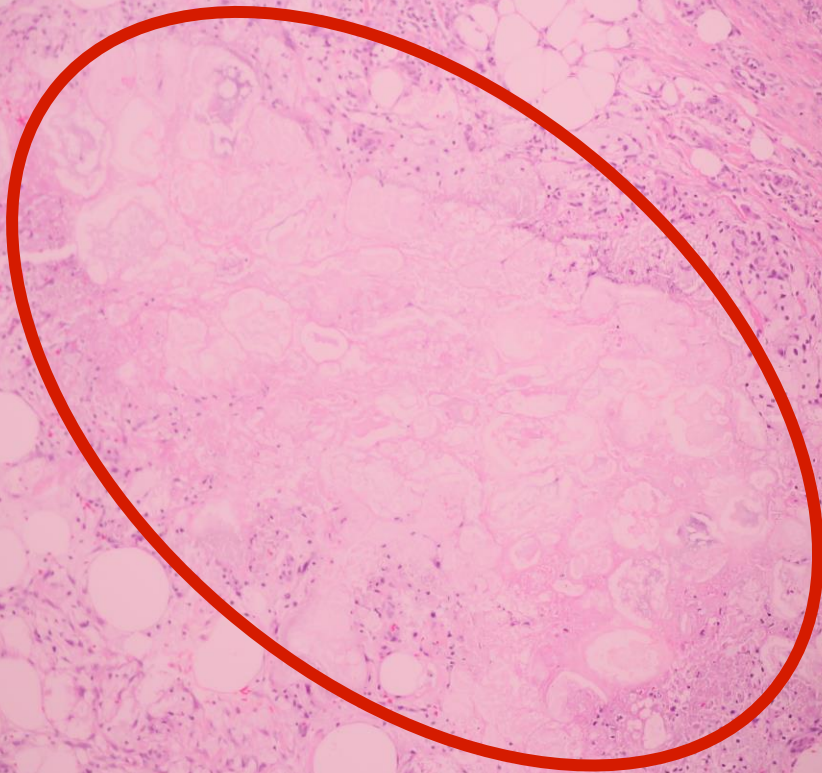




H&E  
400x



H&E  
400x



## Special stains

- AFB, B&B, GMS, PAS, Fite: all negative

## Tissue findings

- G/S, AFB, mAFB, GMS: negative
- C/S for aerobe, TB, fungus: no growth
- TB direct detection: negative
- 16s, 18s: negative



# Investigations

- CBC:
  - Hb 8.4 g/dL Hct 23.4 %
  - WBC 124300 /cumm (N 71% L 17% mono 7% eo 5%)
  - Plt 332000/cumm
- Renal function test
  - BUN 40 mg/dL, Cr 3.2 mg/dL
- Liver function test: WNL
- ESR, C3, C4: WNL

# Investigations

- Lipase 10965 U/L, amylase 1173 U/L
- CA 19-9 158.6 U/mL
- CEA 5.8 ng/mL

# Imaging

- U/S Whole abdomen:
  - Parenchymatous liver disease
  - Few cysts at pancreatic neck



# Imaging

- Magnetic retrograde cholangiopancreatography (MRCP):
  - Long segmental dilatation of the main pancreatic duct
  - Intraductal papillary mucinous neoplasm of the pancreas (IPMN) with chronic pancreatitis

# Pancreatic panniculitis

# Pancreatic panniculitis

- First described by Chiari in 1883
- Approximately 100 publications, mostly case reports
- **2-3%** of patients with pancreatic disorders
- No racial, gender or age predilections



Arch Dermatol. 1975;111:497-502.  
Cutis. 1978;21:763-8.

# Clinical features

- Clinical features:
  - Tender erythematous subcutaneous nodules
  - Solitary or in crops
  - Can become fluctuant and ulcerate→oily brown discharge
- Affected sites: legs>trunk, arms and scalp
- Common associated findings:  
**polyarthritis**, ascites and pleural effusions

# Pathogenesis

↑Serum lipase



Peripheral lipolysis



Fat necrosis and secondary  
immune response causing  
inflammation



# Relationship with pancreatic disorders

- Review of 148 cases
- Median age 60 years old
- 38.6% female

Etiology	Frequency in PP patients (%)
Pancreatitis	49.3
- Acute	- 32.4
- Chronic	- 13.5
- Not specified	- 3.4
Neoplastic conditions	45.9
- Acinar cell carcinoma	- 19.6
- Not specified	- 9.5
- Adenocarcinoma	- 5.4
- Neuro-endocrine carcinoma	- 5.4
- IPMN	- 4.1
- Other	- 2.0
Other	4.7
- Transplant rejection	- 2.0
- Fistula	- 0.7
- Hemosuccus pancreaticus	- 0.7
- Trauma	- 0.7
- Pseudocyst without active pancreatitis	- 0.7

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Most common cause:  
acute pancreatitis

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## Relationship with pancreatic disorders

- **60%** developed panniculitis before pancreatic disorder
- May precede primary disease by 1-7 months
- **Poor prognosis for malignant condition**

# Pancreatic panniculitis and polyarthritits (PPP triad)

- Chronic conditions more frequent
- Chronicity is an important factor favoring joint manifestations

# Pancreatic panniculitis in SLE

- 2 case reports
- Pancreatic panniculitis without primary pancreatic disorder
- Both African-American female
- Active SLE and ESRD on H/D

# Management

- **Treat underlying condition**
- Normalization of pancreatic enzymes  
→ panniculitis regression
- Supportive treatment: compression and elevation
- Specific treatment: octreotide





# Case summary

- A 34-year-old male
- **CC:** multiple dermal to subcutaneous nodules with small ulcers on both shins for 2 weeks
- **Dx:** pancreatic panniculitis with IPMN of the pancreas
- Spontaneous regression



# Take home messages

## Pancreatic panniculitis

Ulcerative nodules on lower extremities

Early recognition is key:  
precede pancreatic disorders by 1-7 months