

ODAC Aesthetic, Surgical and Clinical Dermatology Pre-Conference Virtual Symposium November 15<sup>th</sup>, 2022

# Bad Ulcers: When It's Not Pyoderma Gangrenosum

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# **Objectives**

- Demonstrate a rational approach to the evaluation of ulcers in complex medical dermatology cases
- Emphasize role of biopsy in ulcer evaluation
- Integrate biopsy findings with clinical presentation to develop accurate diagnosis

# Case 1

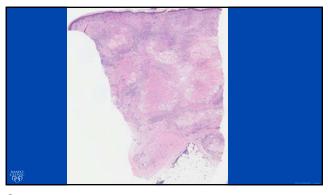
- 57-year-old male presented with lower extremity lesions x 2 years
- Developed non-healing bilateral lower extremity ulcerations that progressed over a year
- Working diagnosis of pyoderma gangrenosum
- Unresponsive to intermittent oral steroids and antibiotics
- Labs demonstrate mild pancytopenia, elevated ESR, normal LFTs, normal renal function

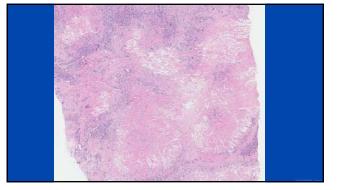
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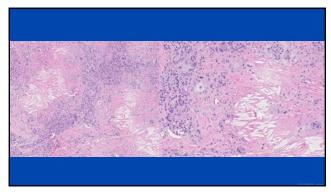
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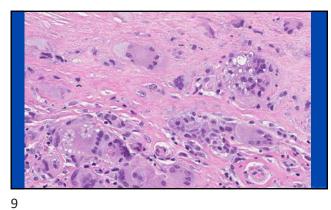


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# What additional investigation should be performed in this patient?

- A. T-cell gene rearrangement studies
- B. B-cell gene rearrangement studies
- C. Tissue cultures
- D. Serum protein electrophoresis
- E. Colonoscopy

**E** 

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#### Necrobiotic Xanthogranuloma

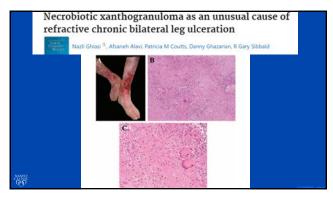
- Rare chronic granulomatous disorder
- Middle-aged and elderly; no gender predilection
- Initially presents with yellowish papules and nodules that coalesce into indurated plaques
- Superficial telangiectasias and ulceration in 40-50% of patients
- Most common site is the face (upper and lower lids) • Trunk and extremities are rare
- Underlying monoclonal gammopathy in 80% of cases
   IgG-κ- 65%; IgG-λ (35%); less commonly IgA
   10-25% may develop multiple myeloma

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### Necrobiotic Xanthogranuloma

- Management is challenging and the disease is progressive
- Treating underlying hematopoietic d/o may not improve course
- Extracutaneous involvement may include oropharyngeal tract, bronchi, liver, lung, spleen, heart
- First line treatment
  - Corticosteroids and IVIG
- Other considerations
  - Thalidomide, lenalidomide, cyclophosphamide, chlorambucil, fludarabine, rituximab, infliximab, melphalan, cladribine, azathioprine, hydroxychloroquine, methotrexate, ECP

Steinhelfer L et al. Systemic therapy of necrobiotic xanthogranuloma: a systematic review. Orphanet J Rare Dis.

Back to our Patient	
SPEP- IgG-λ     Didn't meet criteria for multiple myeloma	
• IVIG q4weeks 0.5g/kg/day x 4days	-
Prednisone 40 mg daily, Gabapentin 600 mg TID	
Ophthalmology baseline exam	
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Clinical Pearls	
Cililical Featis	
Ulcers deserve a biopsy!	
<ul> <li>Most common NXG association is hematologic disorders</li> <li>MGUS, multiple myeloma, CLL, Hodgkin lymphoma</li> </ul>	
Corticosteroids and IVG are first line for NXG	
Beware of sequelae and ensure multidisciplinary care	
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Case 2	
• 65-year-old male with 4-year history of persistent ulcer	
<ul> <li>Started on prednisone and oral antibiotics x 4-months</li> <li>Presumed pyoderma gangrenosum with secondary</li> </ul>	
infection	
Wound care support	
Denies fevers, chills, weight loss	





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# What is your next step?

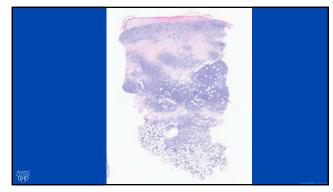
- A. Biopsy for H&E
- B. Biopsy for H&E and tissue cultures
- C. Reinitiate oral prednisone and antibiotics
- D. Evaluate for pyoderma gangrenosum associations

# What is your next step? A. Biopsy for H&E B. Biopsy for H&E and tissue cultures

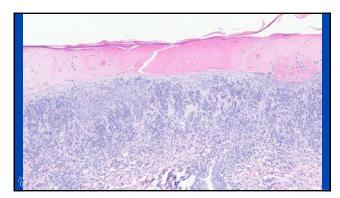
C. Reinitiate oral prednisone and antibiotics

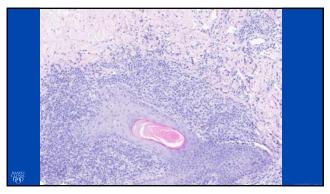
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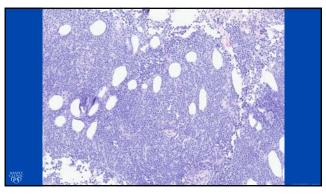
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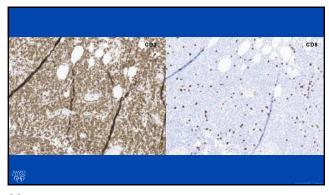


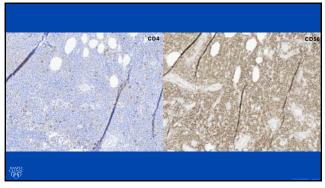
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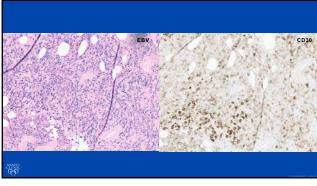


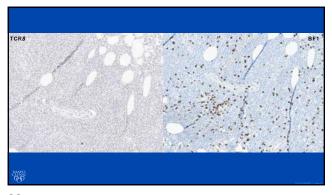












#### Extranodal NK/T cell lymphoma

- Aggressive malignancy of NK cell origin
- Defining feature of EBV infection of the lymphoma cells
- Occurs mostly in the nose or upper aerodigestive tract tract (80%)
  - Nasal obstruction, epistaxis, destructive mass of nose, sinuses, or palate
- Less commonly in non-nasal areas (skin, GI, testis)- 20%
- Predilection for Asian, Central and South American origin
- Chemotherapy and radiotherapy

A.

Tse, E. et al. The diagnosis and management of NK/T-cell lymphomas. J Hematol Oncol 10, 85 (2017)

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# Extranodal NK/T cell lymphoma

- When compared with nasal NK/T cell lymphoma, extranasal NK/T cell lymphoma more likely to
  - Present with stage II or greater disease (56 versus 20%)
  - B symptoms (54 versus 37%)
  - Outcomes were similar for both when matched for stage
- Approximately 3% of ENKL are associated with the hemophagocytic syndrome
  - Often fatal complication- high fevers, failure to thrive, CNS symptoms, hepatosplenomegaly, lymphadenopathy, cytopenias, coagulopathy, abnormal liver function tests, or extremely high serum ferritin levels

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# Back to our patient

- 40-50% cells positive for CD30
   CD30 targeted therapy with brentuximab 1.3 mg/kg q2 weeks
   Chemotherapy regimen with ICE (Ifosfamide, Carboplatin and Etoposide)
- MRI with concern for cardiac involvement
- Right ventricular endomyocardial biopsy
   Myocardium involvement of NK/T cell lymphoma
- Cardiogenic shock
- Rapidly declined and expired



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#### **Final Pearls**

- Thorough evaluation is recommended for all ulcerations
- Although PG is a clinical diagnosis, skin biopsy is important to exclude other causes of ulceration

  Biopsy active border of ulcer and penetrate deep to fat

  - H&E and tissue cultures (bacterial, mycobacterial and fungal
- Keep an open mind! A lot things can present as an
  - Arterial and venous disease, sickle cell disease, cryoglobulinemia, anti-phospholipid syndrome, vascular occlusion, vasculitis, infections, calciphylaxis, drug-induced ulceration, inflammatory conditions, primary or metastatic tumors

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