

# Don't be Vulgar: A Subtle Case of Pemphigus Vulgaris



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# Background

- "Pemphigus" a group of autoimmune mucocutaneous blistering disorders, significant morbidity & mortality
- Acantholysis in epithelium of mucous membranes or skin
  - Pemphigus vulgaris (PV) most common
  - Pemphigus foliaceus
- First signs of PV observed on oral mucosa in 80% of cases<sup>1</sup>

# Case Description

#### HPI:

- 29-year-old female
- 6 mo. h/o intermittent oral ulcerations & bleeding
- Lesions symptomatic over time, healing & reoccurring in ~ 2-week cycles.
- 8 lb weight loss over last month due to 1pain with swallowing & eating, described as "her mouth on fire."

### Physical:

36.9 °C, O2SAT: 100%

General: Alert, no acute distress

CV: RRR Lungs: CTAB

# **Exam Findings**



Figure 1. Patchy moderate erythema of the bilateral buccal mucosa & soft palate

Figure 2. Moderate sloughing of the right buccal mucosa (RBM)



Figure 3. Moderate white changes of the posterior left buccal mucosa

Figure 4. Well-defined 0.4 cm ulcer of the sublingual caruncle

# **Differential & Work-up**

Lymphoma, leukemia, HIV, syphilis, HSV, autoimmune disorder (Behcet's)

BMP, ESR: WNL

CBC: **WBC** ↑ **10.30**, **Eos:** ↑ **5.2%** 

CRP: 0.4 ANA: Negative dsDNA Ab: 34 HIV: Nonreactive RPR: Negative HSV: Negative

Punch Biopsy, RBM: Suprabasal acantholysis, consistent with PV

Immunofluorescence: Intercellular deposition of IgG & CD3 consistent with PV

# Management

**Consult:** Oral Medicine & Dentistry

**Dispo:** ED Observation Unit pending results & PO challenge

# **Symptom Management<sup>6</sup>**

- Topical lidocaine solution or gel
- Triamcinolone paste or fluocinonide gel
- Dexamethasone mouthwash

#### Outcome

- 3 weeks treatment w/ oral prednisone, mycophenolate mofetil, & dexamethasone mouth wash, patient is able to eat
- Adverse effects: rapid heartbeat & minor ankle swelling, resolved



**Figure 5.** 95% improvement of symptoms since initial visit

# **Discussion**

- PV can be life-threatening; prior to tx, 70-100% of patients died in ~ 1-5 years<sup>2-3</sup>
- Incidence: 0.1 0.5/100,000 people/year
- 40 60 years old, female<sup>4-5</sup>
- Oral systemic glucocorticoids are very effective treatment
  - Nonsteroidal immunomodulatory agents in conjunction

#### Conclusion

- Data on treatment is limited; uncertain therapy efficacy<sup>6</sup>
- Widespread loss of epidermal barrier requires assessment for<sup>6</sup>:
- Protein & fluid loss
- Electrolyte imbalances
- Dietary insufficiencies
- Increased catabolism
- Local and systemic infections

## **Take Home Points**

- Treatment always indicated at onset, even for mild disease
- Prognosis dramatically improved with astute diagnosis & treatment; of importance for EM physicians to keep PV on differential

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