

21 - Erythema Multiforme

Vascular Rxn Pattern Differential:

- 1) Erythema Multiforme
- 2) Toxic Erythema Group
 - A) Viral Exanthems
 - B) Drug Eruptions (SJS, TEN, DIHS, others)
 - C) Toxin-Mediated Eruptions (SSSS, TSS, KD, Scarlet Fever)
- 3) Gyrate/Figurate Erythema
 - A) Erythema Annulare Centrifigum (EAC)
 - B) Erythema Gydatum Repens (EGR)
 - C) Erythema migrans (Lyme disease)
 - D) Erythema marginatum (rheumatic fever)
- 4) Urticaria
- 5) Vasculitis
- 6) Vasculopathy
- 7) Retiform Purpura
- 8) Vascular Growths

EM Clinical Presentation:

- Typically affects **young adults**
- **Abrupt-onset, erythematous macules → papules & targetoid lesions** affecting **extremities & face**
- Classic **targetoid lesions** have **3 zones**
 - 1) Dusky Center that may have vesiculation or necrosis
 - 2) Middle pale ring surrounded by
 - 3) Outer erythematous ring

PEARL: Targetoid lesions that are papular or elevated are considered *typical targets*, whereas those that are nonpalpable or macular are considered *atypical targets*

Divided into EM Minor & EM Major:

- Both have **typical papular target lesions on extremities and face**, and neither progress to SJS or TEN

EM Minor

- **NO systemic symptoms** (e.g. Fever, arthralgias)
- **Minimal mucosal involvement**

EM Major

- **Systemic symptoms**
- More **severe mucosal involvement** (e.g. Erosions of buccal mucosa and lips)

PEARL: Other mucosal surfaces that can be affected include: eyes, ears, nose, mouth, vagina, urethra, and anus

PEARL: Erythema multiforme is now considered a separate entity from SJS & TEN! Not considered to be on spectrum.

Three Main Differences between EM & SJS

- 1) EM = papular targetoid lesions vs SJS = +/- macular targetoid lesions
- 2) EM favors hands, extremities, and face vs SJS/TEN which relatively spares distal extremities

- 3) EM has specific associations...

PEARL: Associations w/ Erythema Multiforme

- **90% are associated w/ infections** (SJS 90% caused by medications)
 - o Most common: **HSV** and **mycoplasma pneumonia**
 - o Others: EBV, CMV, HIV, Salmonella, Tuberculosis, histoplasmosis, dermatophytes
- Uncommonly due to medications such as NSAIDs, anticonvulsants, or antibiotics

PEARL: Hx of acute, subacute or discoid lupus + EM = Rowell's Syndrome

Diagnosis:

- **Hx + Physical Exam**
- Biopsy if diagnosis unclear

Histology:

- **Spongiosis**
- **Vacuolar interface**
- Scattered **epidermal necrotic keratinocytes**, "dead reds"
- **Superficial infiltrate w/ lymphocytes & histocytes**

Treatment:

- **Symptomatic Tx** (Self-limiting after 2 weeks)
 - o **Pruritis:** **Anti-histamines** (e.g. diphenhydramine or loratadine) + **mild topical steroid**
 - o **Painful oral lesions:** "**Magic Mouthwash**" (combination of Benadryl, viscous lidocaine, and Maalox w/ or w/o corticosteroids or nystatin)
 - o **If 2/2 recurrent HSV:** HSV prophylaxis w/ **acyclovir 400mg daily** or **valacyclovir 500mg or 1g daily** up to 6 months or as long as needed