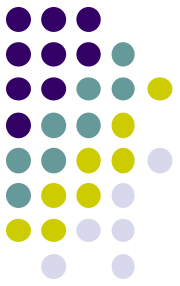


HZO Manifestations

Skin:

- 1) Ulcerated lesions with pain and/or
- 2)

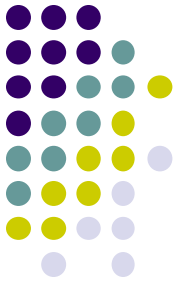
pain-like



HZO Manifestations

Skin:

- 1) Ulcerated lesions with pain and/or **dysesthesia**
- 2)



HZO Manifestations

Skin:

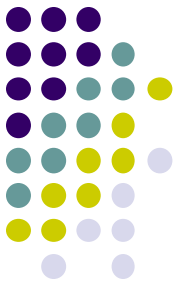
1) Ulcerated lesions with pain and/or **dysesthesia**

2) Sequelae of eyelid skin involvement:

bad thing 1

bad thing 2

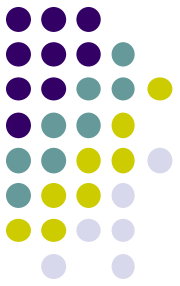
bad thing 3



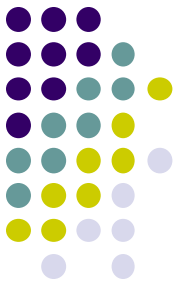
HZO Manifestations

Skin:

- 1) Ulcerated lesions with pain and/or **dysesthesia**
- 2) Sequelae of eyelid skin involvement: **Entropion, ectropion, trichiasis**



HZO Manifestations



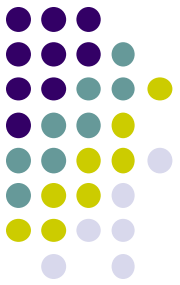
Skin:

- 1) Ulcerated lesions with pain and/or **dysesthesia**
- 2) Sequelae of eyelid skin involvement: **Entropion, ectropion, trichiasis**

Sclera:

- | | |
|----|---------|
| 1) | -itis 1 |
| 2) | -itis 2 |

HZO Manifestations



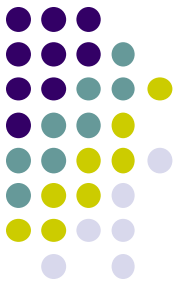
Skin:

- 1) Ulcerated lesions with pain and/or **dysesthesia**
- 2) Sequelae of eyelid skin involvement: **Entropion, ectropion, trichiasis**

Sclera:

- 1) **Scleritis**
- 2) **Episcleritis**

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

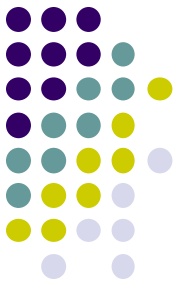
- 1) Scleritis
- 2) Episcleritis

What is the characteristic color in...

Scleritis:

Episcleritis:

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

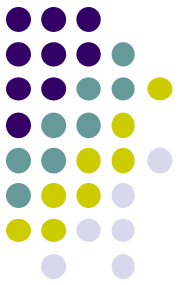
- 1) Scleritis
- 2) Episcleritis

What is the characteristic color in...

Scleritis: **Violaceous**

Episcleritis:

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

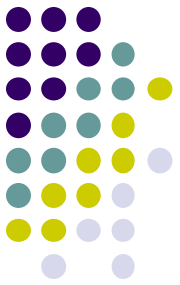
- 1) **Scleritis**
- 2) **Episcleritis**

What is the characteristic color in...

Scleritis: **Violaceous**

Episcleritis:

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

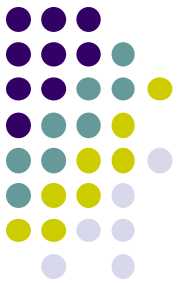
- 1) Scleritis
- 2) Episcleritis

What is the characteristic color in...

Scleritis: **Violaceous**

Episcleritis: **Bright red** or **salmon pink**

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

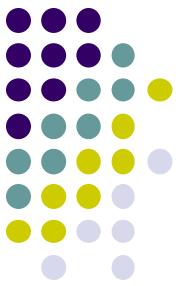
Sclera:

- 1) Scleritis
- 2) Episcleritis

For each statement, indicate whether it applies to Scleritis, Episcleritis, Neither, or Both

Can be *diffuse* or *nodular*.

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

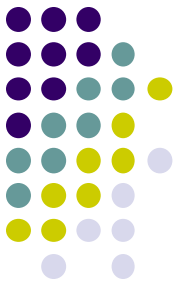
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HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

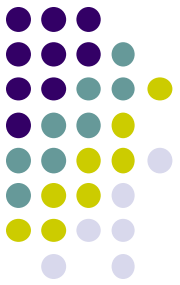
Sclera:

- 1) Scleritis
- 2) Episcleritis

For each statement, indicate whether it applies to Scleritis, Episcleritis, Neither, or Both

Can be *diffuse* or *nodular*. Both
If nodular, nodule is mobile:

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

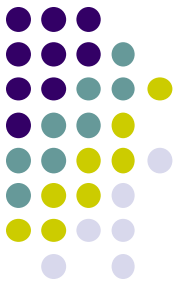
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HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

- 1) Scleritis
- 2) Episcleritis

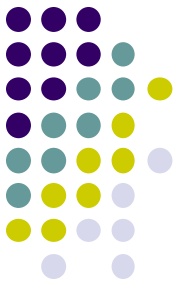
For each statement, indicate whether it applies to Scleritis, Episcleritis, Neither, or Both

Can be *diffuse* or *nodular*: Both

If nodular, nodule is mobile: Episcleritis

Can be anterior or posterior:

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

- 1) Scleritis
- 2) Episcleritis

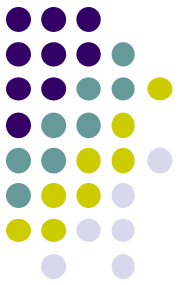
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HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

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- 1) Scleritis
- 2) Episcleritis

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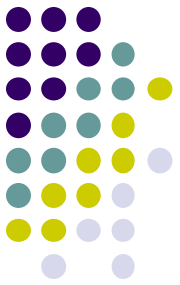
Can be *diffuse* or *nodular*: Both

If nodular, nodule is mobile: Episcleritis

Can be anterior or posterior: Scleritis

Is more common in women than men:

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

- 1) Scleritis
- 2) Episcleritis

For each statement, indicate whether it applies to Scleritis, Episcleritis, Neither, or Both

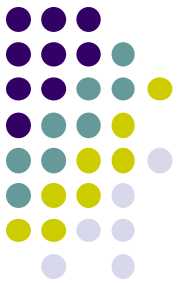
Can be *diffuse* or *nodular*: Both

If nodular, nodule is mobile: Episcleritis

Can be anterior or posterior: Scleritis

Is more common in women than men: Both

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

- 1) Scleritis
- 2) Episcleritis

For each statement, indicate whether it applies to Scleritis, Episcleritis, Neither, or Both

Can be *diffuse* or *nodular*: Both

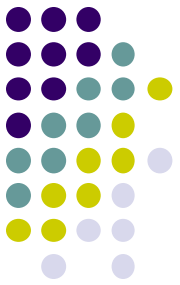
If nodular, nodule is mobile: Episcleritis

Can be anterior or posterior: Scleritis

Is more common in women than men: Both

Can be *necrotizing* or *non-necrotizing*:

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

- 1) Scleritis
- 2) Episcleritis

For each statement, indicate whether it applies to Scleritis, Episcleritis, Neither, or Both

Can be *diffuse* or *nodular*: Both

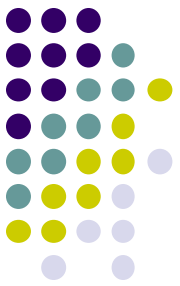
If nodular, nodule is mobile: Episcleritis

Can be anterior or posterior: Scleritis

Is more common in women than men: Both

Can be *necrotizing* or *non-necrotizing*: Scleritis

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

- 1) Scleritis
- 2) Episcleritis

For each statement, indicate whether it applies to Scleritis, Episcleritis, Neither, or Both

Can be *diffuse* or *nodular*: Both

If nodular, nodule is mobile: Episcleritis

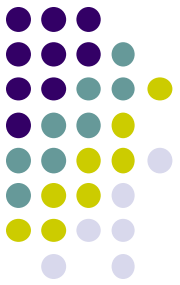
Can be anterior or posterior: Scleritis

Is more common in women than men: Both

Can be *necrotizing* or *non-necrotizing*: Scleritis

Scleromalacia perforans is a variant:

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

- 1) Scleritis
- 2) Episcleritis

For each statement, indicate whether it applies to Scleritis, Episcleritis, Neither, or Both

Can be *diffuse* or *nodular*: Both

If nodular, nodule is mobile: Episcleritis

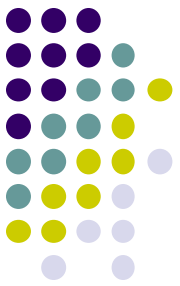
Can be anterior or posterior: Scleritis

Is more common in women than men: Both

Can be *necrotizing* or *non-necrotizing*: Scleritis

Scleromalacia perforans is a variant: Scleritis

HZO Manifestations



Skin:

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- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

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- 2) Episcleritis

For each statement, indicate whether it applies to Scleritis, Episcleritis, Neither, or Both

Can be *diffuse* or *nodular*: Both

If nodular, nodule is mobile: Episcleritis

Can be anterior or posterior: Scleritis

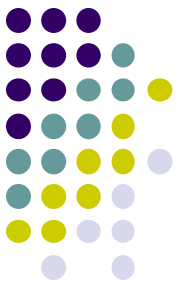
Is more common in women than men: Both

Can be *necrotizing* or *non-necrotizing*: Scleritis

Scleromalacia perforans is a variant: Scleritis

Associated with severe pain:

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

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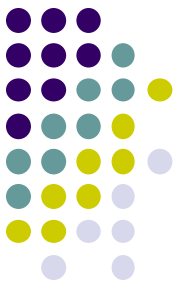
Is more common in women than men: Both

Can be *necrotizing* or *non-necrotizing*: Scleritis

Scleromalacia perforans is a variant: Scleritis

Associated with severe pain: Scleritis

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

- 1) Scleritis
- 2) Episcleritis

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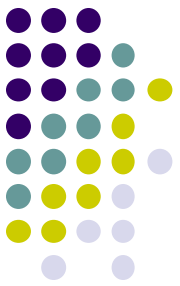
Can be *necrotizing* or *non-necrotizing*: Scleritis

Scleromalacia perforans is a variant: Scleritis

Associated with severe pain: Scleritis

Some cases are associated with a systemic autoimmune condition:

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
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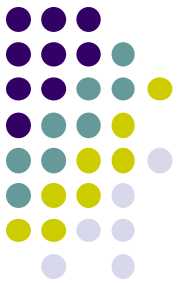
Can be *necrotizing* or *non-necrotizing*: Scleritis

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Associated with severe pain: Scleritis

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HZO Manifestations



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Is more common in women than men: Both

Can be *necrotizing* or *non-necrotizing*: Scleritis

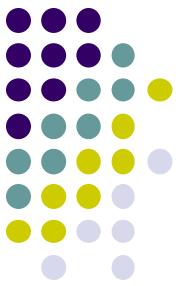
Scleromalacia perforans is a variant: Scleritis

Associated with severe pain: Scleritis

Some cases are associated with a systemic autoimmune condition: Both

Hyperemia blanches with topical phenylephrine 2.5%:

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

- 1) Scleritis
- 2) Episcleritis

For each statement, indicate whether it applies to Scleritis, Episcleritis, Neither, or Both

Can be *diffuse* or *nodular*: Both

If nodular, nodule is mobile: Episcleritis

Can be anterior or posterior: Scleritis

Is more common in women than men: Both

Can be *necrotizing* or *non-necrotizing*: Scleritis

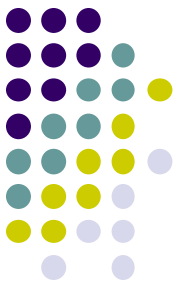
Scleromalacia perforans is a variant: Scleritis

Associated with severe pain: Scleritis

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HZO Manifestations



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For each statement, indicate whether it applies to Scleritis, Episcleritis, Neither, or Both

Can be *diffuse* or *nodular*: Both

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Can be anterior or posterior: Scleritis

Is more common in women than men: Both

Can be *necrotizing* or *non-necrotizing*: Scleritis

Scleromalacia perforans is a variant: Scleritis

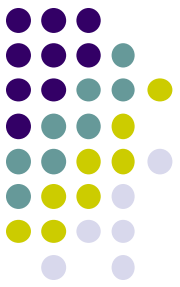
Associated with severe pain: Scleritis

Some cases are associated with a systemic autoimmune condition: Both

Hyperemia blanches with topical phenylephrine 2.5%: Episcleritis

Inflamed vessels have a 'crisscross' pattern:

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

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- 2) Episcleritis

For each statement, indicate whether it applies to Scleritis, Episcleritis, Neither, or Both

Can be *diffuse* or *nodular*: Both

If nodular, nodule is mobile: Episcleritis

Can be anterior or posterior: Scleritis

Is more common in women than men: Both

Can be *necrotizing* or *non-necrotizing*: Scleritis

Scleromalacia perforans is a variant: Scleritis

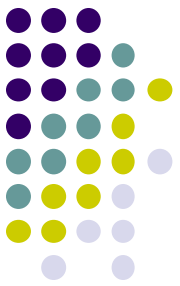
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HZO Manifestations



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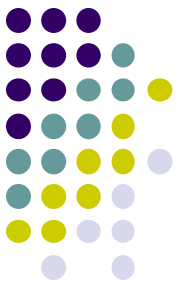
Some cases are associated with a systemic autoimmune condition: Both

Hyperemia blanches with topical phenylephrine 2.5%: Episcleritis

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Responds to topical therapy:

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
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Associated with severe pain: Scleritis

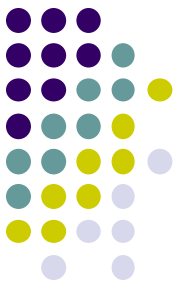
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Scleromalacia perforans is a variant: Scleritis

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Some cases are associated with a systemic autoimmune condition: Both

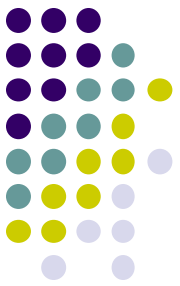
Hyperemia blanches with topical phenylephrine 2.5%: Episcleritis

Inflamed vessels have a 'crisscross' pattern: Scleritis

Responds to topical therapy: Episcleritis

Pain may awaken the pt at night:

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

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Associated with severe pain: Scleritis

Some cases are associated with a systemic autoimmune condition: Both

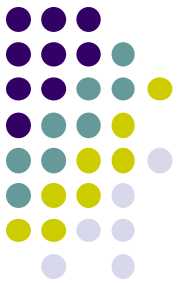
Hyperemia blanches with topical phenylephrine 2.5%: Episcleritis

Inflamed vessels have a 'crisscross' pattern: Scleritis

Responds to topical therapy: Episcleritis

Pain may awaken the pt at night: Scleritis

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or **dysesthesia**
- 2) Sequelae of eyelid skin involvement: **Entropion**, **ectropion**, **trichiasis**

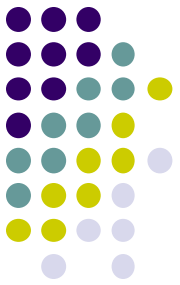
Sclera:

- 1) **Scleritis**
- 2) **Episcleritis**

Cornea:

- 1) keratopathy (on exam, check)
- 2)
- 3)
- 4)

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or **dysesthesia**
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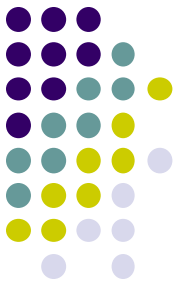
Sclera:

- 1) **Scleritis**
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Cornea:

- 1) **Neurotrophic** keratopathy (on exam, check **corneal sensation**)
- 2)
- 3)
- 4)

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or **dysesthesia**
- 2) Sequelae of eyelid skin involvement: **Entropion**, **ectropion**, **trichiasis**

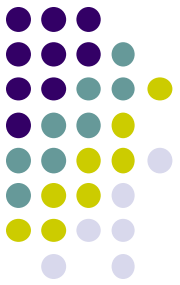
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- 1) **Scleritis**
- 2) **Episcleritis**

Cornea:

- 1) **Neurotrophic** keratopathy (on exam, check **corneal sensation**)
- 2) **epi staining pattern 1** or **epi staining pattern 2** epithelial keratitis
- 3)
- 4)

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or **dysesthesia**
- 2) Sequelae of eyelid skin involvement: **Entropion, ectropion, trichiasis**

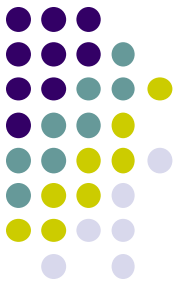
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- 2) **Punctate** or **dendritic** epithelial keratitis
- 3)
- 4)

HZO Manifestations



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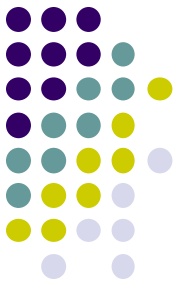
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Cornea:

- 1) **Neurotrophic** keratopathy (on exam, check **corneal sensation**)
- 2) **Punctate** or **dendritic** epithelial keratitis
- 3) Stromal keratitis: or
- 4)

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or **dysesthesia**
- 2) Sequelae of eyelid skin involvement: **Entropion**, **ectropion**, **trichiasis**

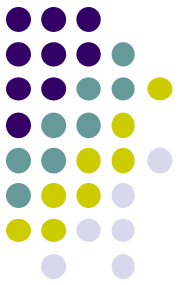
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- 3) Stromal keratitis: **Interstitial** or **nummular**
- 4)

HZO Manifestations



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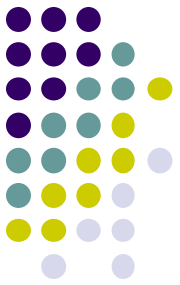
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- 2) **Punctate** or **dendritic** epithelial keratitis
- 3) Stromal keratitis: **Interstitial** or **nummular**
- 4) **circle-ish** keratitis

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or **dysesthesia**
- 2) Sequelae of eyelid skin involvement: **Entropion**, **ectropion**, **trichiasis**

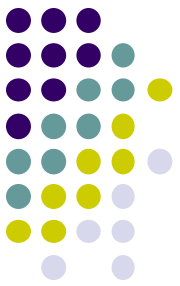
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- 2) **Punctate** or **dendritic** epithelial keratitis
- 3) Stromal keratitis: **Interstitial** or **nummular**
- 4) **Disciform** keratitis

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

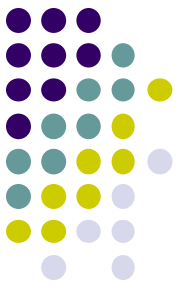
- 1) Scleritis
- 2) Episcleritis

Cornea:

- 1) **Neurotrophic keratopathy** (on exam, check corneal sensation)
- 2) Punctate or dendritic epithelial keratitis

What is the pathogenesis of neurotrophic keratopathy?

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

- 1) Scleritis
- 2) Episcleritis

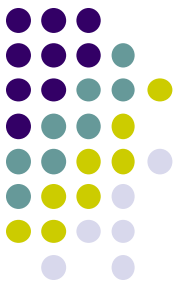
Cornea:

- 1) **Neurotrophic keratopathy** (on exam, check corneal sensation)
- 2) Punctate or dendritic epithelial keratitis

What is the pathogenesis of neurotrophic keratopathy?

Decreased corneal sensation leads to compromised epithelial integrity and inadequate epithelial regeneration, which in turn result in poor epithelial healing. Severe cases can proceed to stromal melting and corneal perforation.

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
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Sclera:

- 1) Scleritis
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Cornea:

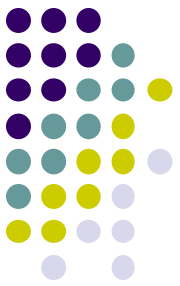
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Where does herpetic (HSV or HZV) dz rank as a cause?

HZO Manifestations



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- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

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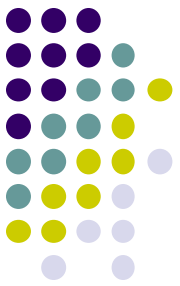
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#1

HZO Manifestations



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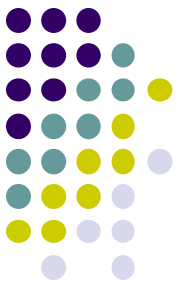
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What's #2?

HZO Manifestations



Skin:

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Sclera:

- 1) Scleritis
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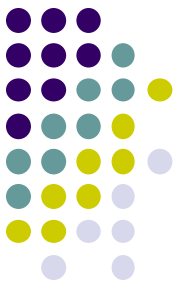
Where does herpetic (HSV or HZV) dz rank as a cause?

#1

What's #2?

Damage to the ophthalmic branch of the trigeminal nerve during surgical tx of trigeminal neuralgia

HZO Manifestations



Skin:

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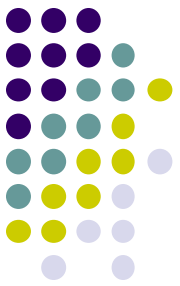
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#1

Is a nidus of corneal epithelial trauma necessary to initiate the process?

HZO Manifestations



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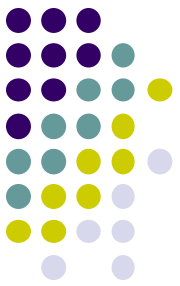
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#1

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No, it can happen in intact corneas

HZO Manifestations



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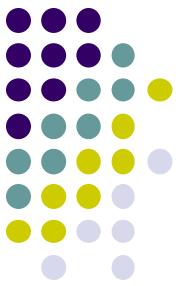
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How does it present at the slit lamp?

HZO Manifestations



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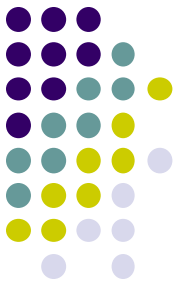
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No, it can happen in intact corneas

How does it present at the slit lamp?

Early and/or mild disease presents only with punctate epithelial changes. Severe/advanced cases present with a central epithelial defect that slowly enlarges and deepens.

HZO Manifestations



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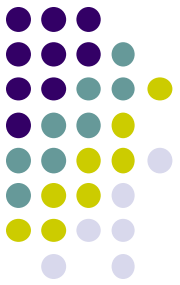
Cornea:

- 1) Neurotrophic keratopathy (on exam, check corneal sensation)
- 2) Punctate or **dendritic epithelial keratitis**
- 3) Stromal keratitis: Interstitial or nummular
- 4) Disciform keratitis

How do HZO dendrites differ from HSV dendrites?

	HSV	HZO
<i>Terminal bulbs?</i>		

HZO Manifestations



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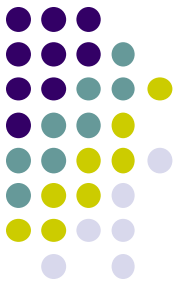
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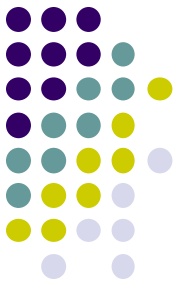
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<i>Terminal bulbs?</i>	Yes	No
<i>Edges stain with rose bengal?</i>		

HZO Manifestations



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Sclera:

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- 2) Episcleritis

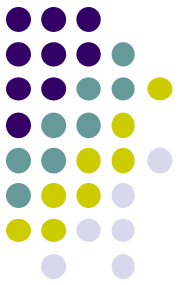
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HZO Manifestations



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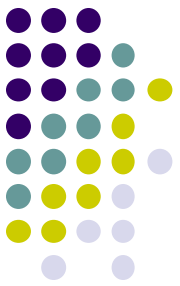
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What does nummular mean?

HZO Manifestations



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Sclera:

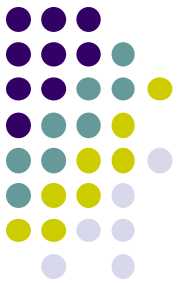
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- 4) Disciform keratitis

What does nummular mean?
'Coin-like'

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

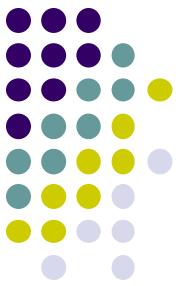
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- 4) **Disciform keratitis**

What specific corneal tissue is the primary site of inflammation in disciform keratitis?

HZO Manifestations



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- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

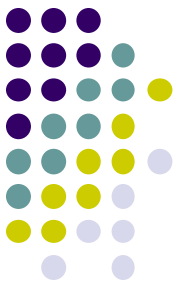
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- 4) **Disciform keratitis**

What specific corneal tissue is the primary site of inflammation in disciform keratitis?
The endothelium

HZO Manifestations



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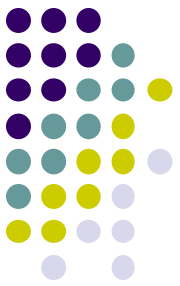
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What specific corneal tissue is the primary site of inflammation in disciform keratitis?
The endothelium

What is the other common name for this condition?

HZO Manifestations



Skin:

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- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

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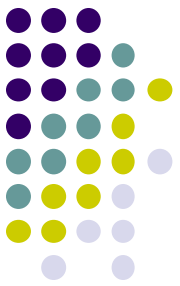
What specific corneal tissue is the primary site of inflammation in disciform keratitis?

The endothelium

What is the other common name for this condition?

Endotheliitis

HZO Manifestations



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- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

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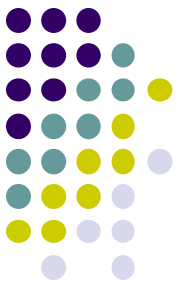
The endothelium

What is the other common name for this condition?

Endotheliitis

How does it present at the slit lamp?

HZO Manifestations



Skin:

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Sclera:

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- 2) Punctate or dendritic epithelial keratitis
- 3) Stromal keratitis: Interstitial or nummular
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The endothelium

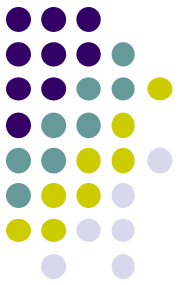
What is the other common name for this condition?

Endotheliitis

How does it present at the slit lamp?

As a disc-shaped area of stromal edema with KP on the underlying endothelium

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or **dysesthesia**
- 2) Sequelae of eyelid skin involvement: **Entropion**, **ectropion**, **trichiasis**

Sclera:

- 1) **Scleritis**
- 2) **Episcleritis**

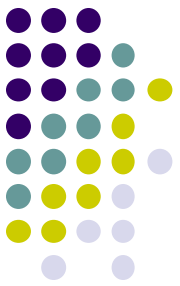
Cornea:

- 1) **Neurotrophic** keratopathy (on exam, check **corneal sensation**)
- 2) **Punctate** or **dendritic** epithelial keratitis
- 3) Stromal keratitis: **Interstitial** or **nummular**
- 4) **Disciform** keratitis

Anterior uveitis:

- 1) Iritis → atrophy of the iris secondary to
- 2)

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or **dysesthesia**
- 2) Sequelae of eyelid skin involvement: **Entropion**, **ectropion**, **trichiasis**

Sclera:

- 1) **Scleritis**
- 2) **Episcleritis**

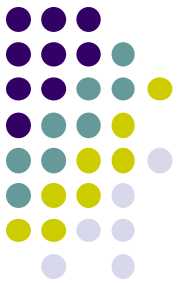
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- 3) Stromal keratitis: **Interstitial** or **nummular**
- 4) **Disciform** keratitis

Anterior uveitis:

- 1) Iritis → **sector** atrophy of the iris secondary to **vasculitis-induced ischemia**
- 2)

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

- 1) Scleritis
- 2) Episcleritis

Cornea:

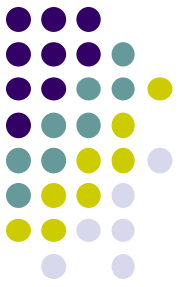
- 1) Neurotrophic keratopathy (on exam, check corneal sensation)
- 2) Punctate or dendritic epithelial keratitis
- 3) Stromal keratitis: Interstitial or nummular
- 4) Disciform keratitis

Anterior uveitis:

- 1) Iritis → sector atrophy of the iris secondary to vasculitis-induced ischemia
- 2)

How does HZO iris atrophy differ from the iris atrophy associated with HSV iritis?

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

- 1) Scleritis
- 2) Episcleritis

Cornea:

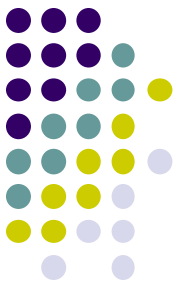
- 1) Neurotrophic keratopathy (on exam, check corneal sensation)
- 2) Punctate or dendritic epithelial keratitis
- 3) Stromal keratitis: Interstitial or nummular
- 4) Disciform keratitis

Anterior uveitis:

- 1) Iritis → sector atrophy of the iris secondary to vasculitis-induced ischemia
- 2)

How does HZO iris atrophy differ from the iris atrophy associated with HSV iritis?
In HSV the atrophy tends to be **diffuse**, not sectoral

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or **dysesthesia**
- 2) Sequelae of eyelid skin involvement: **Entropion**, **ectropion**, **trichiasis**

Sclera:

- 1) **Scleritis**
- 2) **Episcleritis**

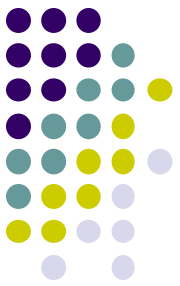
Cornea:

- 1) **Neurotrophic** keratopathy (on exam, check **corneal sensation**)
- 2) **Punctate** or **dendritic** epithelial keratitis
- 3) Stromal keratitis: **Interstitial** or **nummular**
- 4) **Disciform** keratitis

Anterior uveitis:

- 1) Iritis → **sector** atrophy of the iris secondary to **vasculitis-induced ischemia**
- 2) **-itis** → increased IOP

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or **dysesthesia**
- 2) Sequelae of eyelid skin involvement: **Entropion**, **ectropion**, **trichiasis**

Sclera:

- 1) **Scleritis**
- 2) **Episcleritis**

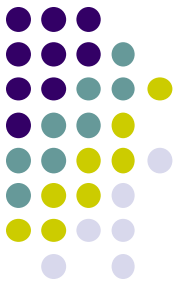
Cornea:

- 1) **Neurotrophic** keratopathy (on exam, check **corneal sensation**)
- 2) **Punctate** or **dendritic** epithelial keratitis
- 3) Stromal keratitis: **Interstitial** or **nummular**
- 4) **Disciform** keratitis

Anterior uveitis:

- 1) Iritis → **sector** atrophy of the iris secondary to **vasculitis-induced ischemia**
- 2) **Trabeculitis** → increased IOP

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or **dysesthesia**
- 2) Sequelae of eyelid skin involvement: **Entropion**, **ectropion**, **trichiasis**

Sclera:

- 1) **Scleritis**
- 2) **Episcleritis**

Cornea:

- 1) **Neurotrophic** keratopathy (on exam, check **corneal sensation**)
- 2) **Punctate** or **dendritic** epithelial keratitis
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- 4) **Disciform** keratitis

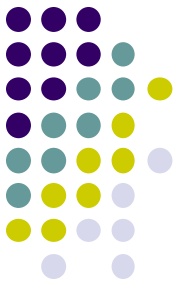
Anterior uveitis:

- 1) Iritis → **sector** atrophy of the iris secondary to **vasculitis-induced ischemia**
- 2) **Trabeculitis** → increased IOP

Posterior manifestations:

- 1) Focal **-itis**
- 2)

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or **dysesthesia**
- 2) Sequelae of eyelid skin involvement: **Entropion**, **ectropion**, **trichiasis**

Sclera:

- 1) **Scleritis**
- 2) **Episcleritis**

Cornea:

- 1) **Neurotrophic** keratopathy (on exam, check **corneal sensation**)
- 2) **Punctate** or **dendritic** epithelial keratitis
- 3) Stromal keratitis: **Interstitial** or **nummular**
- 4) **Disciform** keratitis

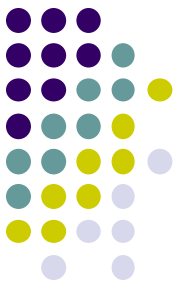
Anterior uveitis:

- 1) Iritis → **sector** atrophy of the iris secondary to **vasculitis-induced ischemia**
- 2) **Trabeculitis** → increased IOP

Posterior manifestations:

- 1) Focal **choroiditis**
- 2)

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or **dysesthesia**
- 2) Sequelae of eyelid skin involvement: **Entropion**, **ectropion**, **trichiasis**

Sclera:

- 1) **Scleritis**
- 2) **Episcleritis**

Cornea:

- 1) **Neurotrophic** keratopathy (on exam, check **corneal sensation**)
- 2) **Punctate** or **dendritic** epithelial keratitis
- 3) Stromal keratitis: **Interstitial** or **nummular**
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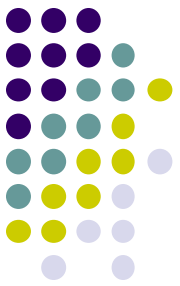
Anterior uveitis:

- 1) Iritis → **sector** atrophy of the iris secondary to **vasculitis-induced ischemia**
- 2) **Trabeculitis** → increased IOP

Posterior manifestations:

- 1) Focal **choroiditis**
- 2) Occlusive retinal vasculitis → scary bad dz (three words)

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or **dysesthesia**
- 2) Sequelae of eyelid skin involvement: **Entropion**, **ectropion**, **trichiasis**

Sclera:

- 1) **Scleritis**
- 2) **Episcleritis**

Cornea:

- 1) **Neurotrophic** keratopathy (on exam, check **corneal sensation**)
- 2) **Punctate** or **dendritic** epithelial keratitis
- 3) Stromal keratitis: **Interstitial** or **nummular**
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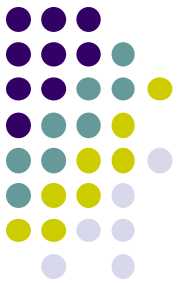
Anterior uveitis:

- 1) Iritis → **sector** atrophy of the iris secondary to **vasculitis-induced ischemia**
- 2) **Trabeculitis** → increased IOP

Posterior manifestations:

- 1) Focal **choroiditis**
- 2) Occlusive retinal vasculitis → **acute retinal necrosis**

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

- 1) Scleritis
- 2) Episcleritis

Cornea:

- 1) Neurotrophic keratopathy (on exam, check corneal sensation)
- 2) Punctate or dendritic epithelial keratitis
- 3) Stromal keratitis: Interstitial or nuchal
- 4) Disciform keratitis

What else is in the differential for an occlusive retinal vasculitis?

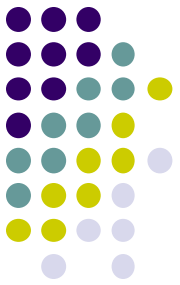
Anterior uveitis:

- 1) Iritis → sector atrophy of the iris secondary to angle closure glaucoma
- 2) Trabeculitis → increased IOP

Posterior manifestations:

- 1) Focal choroiditis
- 2) Occlusive retinal vasculitis → acute retinal necrosis

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

- 1) Scleritis
- 2) Episcleritis

Cornea:

- 1) Neurotrophic keratopathy (on exam, check corneal sensation)
- 2) Punctate or dendritic epithelial keratitis
- 3) Stromal keratitis: Interstitial or nuchal
- 4) Disciform keratitis

What else is in the differential for an occlusive retinal vasculitis?

--TB

--Sarcoid

--Wegener's

--Behçet

--Syphilis

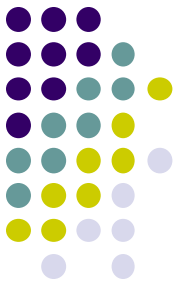
Anterior uveitis:

- 1) Iritis → sector atrophy of the iris secondary to ischemia
- 2) Trabeculitis → increased IOP

Posterior manifestations:

- 1) Focal choroiditis
- 2) Occlusive retinal vasculitis → acute retinal necrosis

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

- 1) Scleritis
- 2) Episcleritis

Cornea:

- 1) Neurotrophic keratopathy (on exam, check corneal sensation)
- 2) Punctate or dendritic epithelial keratitis
- 3) Stromal keratitis: Interstitial or nummular
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Anterior uveitis:

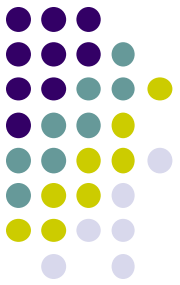
- 1) Iritis → sector atrophy of the iris secondary to vasculitis-induced ischemia
- 2) Trabeculitis → increased IOP

Posterior manifestations:

- 1) Focal choroiditis
- 2) Occlusive retinal vasculitis → acute retinal necrosis

If this occurs in an AIDS patient, what closely-related might it be?

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

- 1) Scleritis
- 2) Episcleritis

Cornea:

- 1) Neurotrophic keratopathy (on exam, check corneal sensation)
- 2) Punctate or dendritic epithelial keratitis
- 3) Stromal keratitis: Interstitial or nummular
- 4) Disciform keratitis

Anterior uveitis:

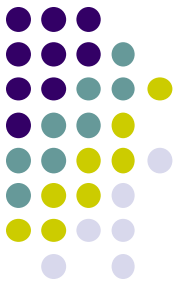
- 1) Iritis → sector atrophy of the iris secondary to vasculitis-induced ischemia
- 2) Trabeculitis → increased IOP

Posterior manifestations:

- 1) Focal choroiditis *progressive outer retinal necrosis (PORN)*
- 2) Occlusive retinal vasculitis → acute retinal necrosis
^

If this occurs in an AIDS patient, what closely-related might it be?

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or **dysesthesia**
- 2) Sequelae of eyelid skin involvement: **Entropion**, **ectropion**, **trichiasis**

Sclera:

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- 3) Stromal keratitis: **Interstitial** or **nummular**
- 4) **Disciform** keratitis

Anterior uveitis:

- 1) Iritis → **sector** atrophy of the iris secondary to **vasculitis-induced ischemia**
- 2) **Trabeculitis** → increased IOP

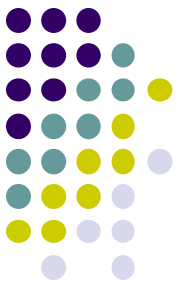
Posterior manifestations:

- 1) Focal **choroiditis**
- 2) Occlusive retinal vasculitis → **acute retinal necrosis**

Optic nerve manifestations:

- 1) **two more -'itises'**
- 2)

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or **dysesthesia**
- 2) Sequelae of eyelid skin involvement: **Entropion**, **ectropion**, **trichiasis**

Sclera:

- 1) **Scleritis**
- 2) **Episcleritis**

Cornea:

- 1) **Neurotrophic** keratopathy (on exam, check **corneal sensation**)
- 2) **Punctate** or **dendritic** epithelial keratitis
- 3) Stromal keratitis: **Interstitial** or **nummular**
- 4) **Disciform** keratitis

Anterior uveitis:

- 1) Iritis → **sector** atrophy of the iris secondary to **vasculitis-induced ischemia**
- 2) **Trabeculitis** → increased IOP

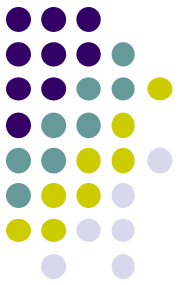
Posterior manifestations:

- 1) Focal **choroiditis**
- 2) Occlusive retinal vasculitis → **acute retinal necrosis**

Optic nerve manifestations:

- 1) **Papillitis**
- 2) **Optic neuritis**

HZO Manifestations



Skin:

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- 2) Sequelae of eyelid skin involvement: **Entropion**, **ectropion**, **trichiasis**

Sclera:

- 1) **Scleritis**
- 2) **Episcleritis**

Cornea:

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- 2) **Punctate** or **dendritic** epithelial keratitis
- 3) Stromal keratitis: **Interstitial** or **nummular**
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Anterior uveitis:

- 1) Iritis → **sector** atrophy of the iris secondary to **vasculitis-induced ischemia**
- 2) **Trabeculitis** → increased IOP

Posterior manifestations:

- 1) Focal **choroiditis**
- 2) Occlusive retinal vasculitis → **acute retinal necrosis**

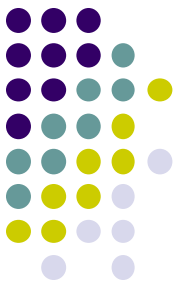
Optic nerve manifestations:

- 1) **Papillitis**
- 2) **Optic neuritis**

Orbital manifestations:

- 1) Occlusive vasculitis → **lid prob** and/or **2° to congestion**
- 2)

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or **dysesthesia**
- 2) Sequelae of eyelid skin involvement: **Entropion**, **ectropion**, **trichiasis**

Sclera:

- 1) **Scleritis**
- 2) **Episcleritis**

Cornea:

- 1) **Neurotrophic** keratopathy (on exam, check **corneal sensation**)
- 2) **Punctate** or **dendritic** epithelial keratitis
- 3) Stromal keratitis: **Interstitial** or **nummular**
- 4) **Disciform** keratitis

Anterior uveitis:

- 1) Iritis → **sector** atrophy of the iris secondary to **vasculitis-induced ischemia**
- 2) **Trabeculitis** → increased IOP

Posterior manifestations:

- 1) Focal **choroiditis**
- 2) Occlusive retinal vasculitis → **acute retinal necrosis**

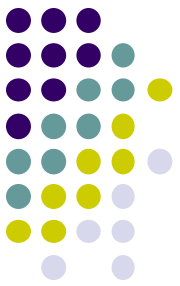
Optic nerve manifestations:

- 1) **Papillitis**
- 2) **Optic neuritis**

Orbital manifestations:

- 1) Occlusive vasculitis → **ptosis** and/or **proptosis**
- 2)

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or **dysesthesia**
- 2) Sequelae of eyelid skin involvement: **Entropion**, **ectropion**, **trichiasis**

Sclera:

- 1) **Scleritis**
- 2) **Episcleritis**

Cornea:

- 1) **Neurotrophic** keratopathy (on exam, check **corneal sensation**)
- 2) **Punctate** or **dendritic** epithelial keratitis
- 3) Stromal keratitis: **Interstitial** or **nummular**
- 4) **Disciform** keratitis

Anterior uveitis:

- 1) Iritis → **sector** atrophy of the iris secondary to **vasculitis-induced ischemia**
- 2) **Trabeculitis** → increased IOP

Posterior manifestations:

- 1) Focal **choroiditis**
- 2) Occlusive retinal vasculitis → **acute retinal necrosis**

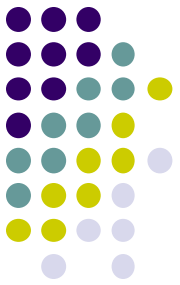
Optic nerve manifestations:

- 1) **Papillitis**
- 2) **Optic neuritis**

Orbital manifestations:

- 1) Occlusive vasculitis → **ptosis** and/or **proptosis**
- 2) Occlusive vasculitis → CN palsy, especially **CN#**, in up to **##** cases

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or **dysesthesia**
- 2) Sequelae of eyelid skin involvement: **Entropion**, **ectropion**, **trichiasis**

Sclera:

- 1) **Scleritis**
- 2) **Episcleritis**

Cornea:

- 1) **Neurotrophic** keratopathy (on exam, check **corneal sensation**)
- 2) **Punctate** or **dendritic** epithelial keratitis
- 3) Stromal keratitis: **Interstitial** or **nummular**
- 4) **Disciform** keratitis

Anterior uveitis:

- 1) Iritis → **sector** atrophy of the iris secondary to **vasculitis-induced ischemia**
- 2) **Trabeculitis** → increased IOP

Posterior manifestations:

- 1) Focal **choroiditis**
- 2) Occlusive retinal vasculitis → **acute retinal necrosis**

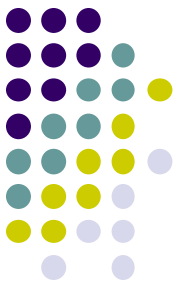
Optic nerve manifestations:

- 1) **Papillitis**
- 2) **Optic neuritis**

Orbital manifestations:

- 1) Occlusive vasculitis → **ptosis** and/or **proptosis**
- 2) Occlusive vasculitis → CN palsy, especially **CN3**, in up to **1/3** cases

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

- 1) Scleritis
- 2) Episcleritis

Cornea:

- 1) Neurotrophic keratopathy
- 2) Punctate keratitis
- 3) Stromal keratitis
- 4) Disciform keratitis

Anterior uveitis:

- 1) Iritis →
- 2) Trabeculitis

Posterior manifestations:

- 1) Focal chorioretinitis
- 2) Occlusive retinopathy

Optic nerve manifestations:

- 1) Papillitis
- 2) Optic neuritis

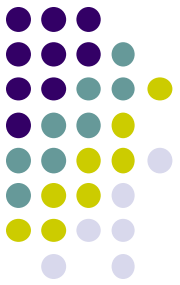
Orbital manifestations:

- 1) Occlusive vasculitis → ptosis and/or proptosis
- 2) Occlusive vasculitis → CN palsy, especially CN3, in up to 1/3 cases

Management of HZO

--Start PO [drug (abb.) and dose] within [time frame]

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

- 1) Scleritis
- 2) Episcleritis

Cornea:

- 1) Neurotrophic keratitis
- 2) Punctate keratitis
- 3) Stromal keratitis
- 4) Disciform keratitis

Anterior uveitis:

- 1) Iritis →
- 2) Trabeculitis

Posterior manifestations:

- 1) Focal chorioretinitis
- 2) Occlusive retinopathy

Optic nerve manifestations:

- 1) Papillitis
- 2) Optic neuritis

Orbital manifestations:

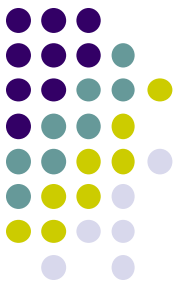
- 1) Occlusive vasculitis → ptosis and/or proptosis
- 2) Occlusive vasculitis → CN palsy, especially CN3, in up to 1/3 cases

Management of HZO

--Start PO ACA 800 mg 5x/d within 72°

↙
(acyclovir)

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

- 1) Scleritis
- 2) Episcleritis

Cornea:

- 1) Neurotrophic keratitis
- 2) Punctate keratitis
- 3) Stromal keratitis
- 4) Disciform keratitis

Anterior uveitis:

- 1) Iritis →
- 2) Trabeculitis

Posterior manifestations:

- 1) Focal choroiditis
- 2) Occlusive retinopathy

Optic nerve manifestations:

- 1) Papillitis
- 2) Optic neuritis

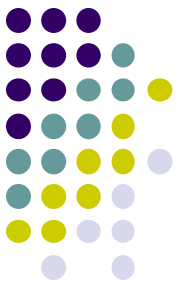
Orbital manifestations:

- 1) Occlusive vasculitis → ptosis and/or proptosis
- 2) Occlusive vasculitis → CN palsy, especially CN3, in up to 1/3 cases

Management of HZO

- Start PO ACA 800 mg 5x/d within 72°
- IV if immunocompromised

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

- 1) Scleritis
- 2) Episcleritis

Cornea:

- 1) Neurotrophic keratitis
- 2) Punctate keratitis
- 3) Stromal keratitis
- 4) Disciform keratitis

Anterior uveitis:

- 1) Iritis →
- 2) Trabeculitis

Posterior manifestations:

- 1) Focal choroiditis
- 2) Occlusive choroiditis

Optic nerve manifestations:

- 1) Papillitis
- 2) Optic neuritis

Orbital manifestations:

- 1) Occlusive vasculitis → ptosis and/or proptosis
- 2) Occlusive vasculitis → CN palsy, especially CN3, in up to 1/3 cases

Management of HZO

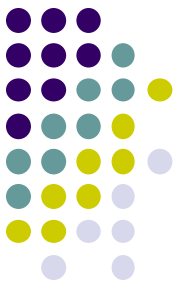
--Start PO ACA 800 mg 5x/d within 72°

--IV if immunocompromised

--Start amitriptyline within 72° to ↓ intensity and duration of

unpleasant sequelae of HZO (three words)

HZO Manifestations



Skin:

- 1) Ulcerated lesions with pain and/or dysesthesia
- 2) Sequelae of eyelid skin involvement: Entropion, ectropion, trichiasis

Sclera:

- 1) Scleritis
- 2) Episcleritis

Cornea:

- 1) Neurotrophic keratopathy
- 2) Punctate keratitis
- 3) Stromal keratitis
- 4) Disciform keratitis

Anterior uveitis:

- 1) Iritis →
- 2) Trabeculitis

Posterior manifestations:

- 1) Focal choroiditis
- 2) Occlusive retinopathy

Optic nerve manifestations:

- 1) Papillitis
- 2) Optic neuritis

Orbital manifestations:

- 1) Occlusive vasculitis → ptosis and/or proptosis
- 2) Occlusive vasculitis → CN palsy, especially CN3, in up to 1/3 cases

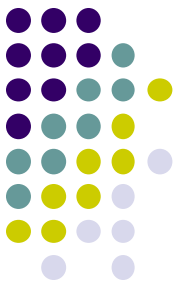
Management of HZO

--Start PO ACA 800 mg 5x/d within 72°

--IV if immunocompromised

--Start amitriptyline within 72° to ↓ intensity and duration of post-herpetic neuralgia

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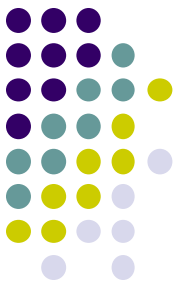
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--Treat skin lesions with nonpharmacologic maneuver and

nonspecific med

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- 1) Focal chorioretinitis
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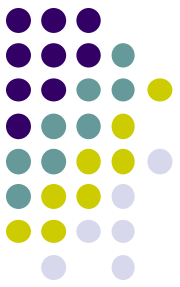
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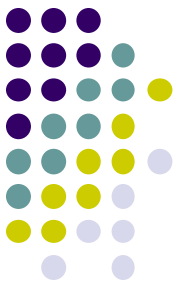
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--Treat skin lesions with warm compresses and antibiotic ointment

--Treat [redacted] and/or [redacted] with topical steroids and cycloplegia

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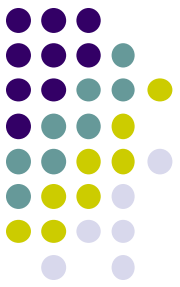
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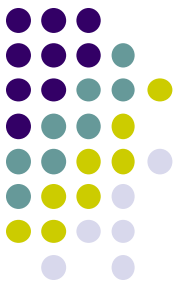
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--Consider PO med to ↓ early zoster pain

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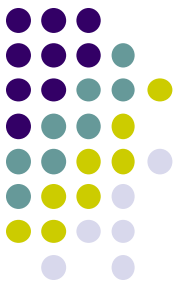
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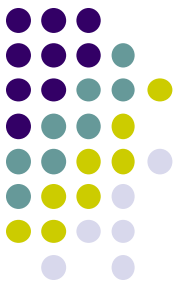
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--Consider PO steroids to ↓ early zoster pain

--Consider **med** cream for post-herpetic neuralgia

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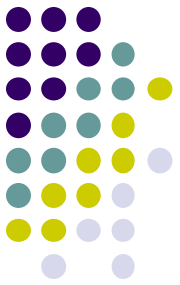
--Treat skin lesions with warm compresses and antibiotic ointment

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--Consider PO steroids to ↓ early zoster pain

--Consider capsaicin cream for post-herpetic neuralgia

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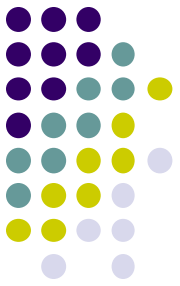
--Consider PO steroids to ↓ early zoster pain

--Consider capsaicin cream for post-herpetic neuralgia

--Manage neurotrophic keratopathy with med , med ,

+/- "surgery" , +/- surgery

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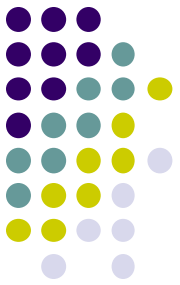
--Consider PO steroids to ↓ early zoster pain

--Consider capsaicin cream for post-herpetic neuralgia

--Manage neurotrophic keratopathy with PF ATs, ointments, +/- punctal plugs, +/- tarsorrhaphy

(preservative-free artificial tears)

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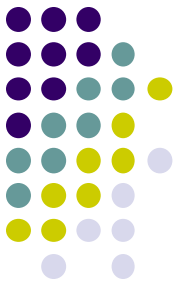
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What can be done to prevent HZO?

S,

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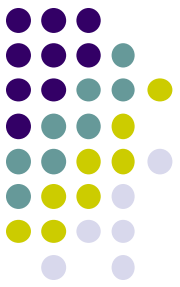
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There is a vaccine that reduces the risk of developing zoster

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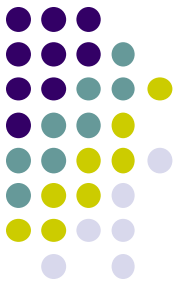
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Who should receive it?

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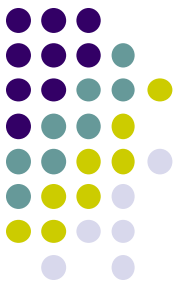
Who should receive it?

Everyone over age 60 years

If HZO occurs in a vaccinated pt, all is not lost. What benefit accrues to a vaccinated pt who develops HZO?

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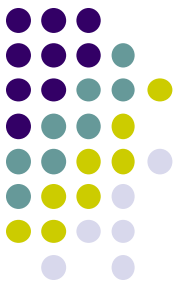
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Being vaccinated reduces the likelihood of developing post-herpetic neuralgia by 2/3!

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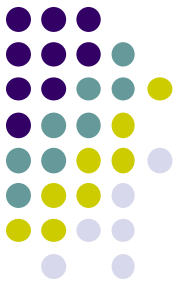
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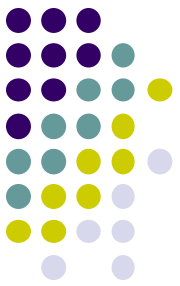
There is a vaccine that reduces the risk of developing zoster

Is it OK to give someone the vaccine during a bout of active zoster?

If HZO occurs in a vaccinated pt, all is not lost. What benefit accrues to a vaccinated pt who develops HZO?

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Orbital manifestations:

- 1) Occlusive vasculitis → ptosis and/or proptosis
- 2) Occlusive vasculitis → CN palsy, especially CN3, in up to 1/3 cases

Management of HZO

--Start PO ACA 800 mg 5x/d within 72°
--IV if immunocompromised

--Start amitriptyline within 72° to ↓ intensity and duration of post-herpetic neuralgia

What can be done to prevent HZO?

There is a vaccine that reduces the risk of developing zoster

Is it OK to give someone the vaccine during a bout of active zoster?
No! Doing so will likely exacerbate their condition

If HZO occurs in a vaccinated pt, all is not lost. What benefit accrues to a vaccinated pt who develops HZO?

Being vaccinated reduces the likelihood of developing post-herpetic neuralgia by 2/3!

S,