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Interstitial keratitis is an inflammatory condition of the corneal stroma in the absence of primary involvement of either the corneal epithelium or endothelium.



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What does it mean to say the corneal stroma is inflamed?



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What does it mean to say the corneal stroma is inflamed? It means inflammatory cells are present in the interlamellar stroma



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So, there's pus in the stroma?



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What does it mean to say the corneal stroma is inflamed? It means inflammatory cells are present in the interlamellar stroma

So, there's pus in the stroma?

No—IK is a nonsuppurative condition



Interstitial keratitis is an inflammatory condition of the corneal stroma in the absence of primary involvement of either the corneal epithelium or endothelium.

Be sure to take note of this! This is why stromal inflammation resulting from, say, a corneal ulcer eating its way into stroma would **not** be classified as IK.



Interstitial keratitis is an inflammatory condition of the corneal stroma in the absence of primary involvement of either the corneal epithelium or endothelium.

What are the typical symptoms of IK?



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What are the typical symptoms of IK? Tearing and photophobia



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What are the typical signs of IK, ie, what does it look like at the slit lamp?



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With respect to IK, to what does the term salmon patch refer?



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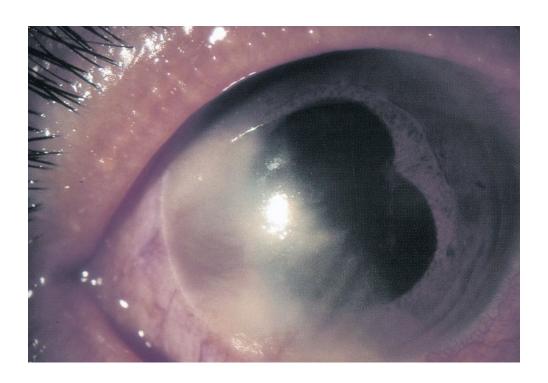
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With respect to IK, to what does the term salmon patch refer?

If the stromal vascularization is particularly dense and the blood flow is exuberant, the resulting color of the cornea has been likened to that of salmon flesh





Salmon patch in IK



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IK represents a Type hypersensitivity reaction to antigens within the



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IK represents a Type IV hypersensitivity reaction to antigens within the corneal stroma.



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Speaking of hypersensitivity reactions...



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How many types of ocular-surface hypersensitivity reactions are there?



Type I Type II Type IV

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Type I Type II Type IV

Type I reactions involve... [One word that captures the nature of this rxn]

Type II reactions involve...

Type III reactions involve...

Type IV reactions involve...

Speaking of hypersensitivity reactions...

How many types of ocular-surface hypersensitivity reactions are there?





Anaphylaxis

Type I

Type II

Type III

Type IV

Type I reactions involve...Anaphylaxis

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Type III reactions involve...

Type IV reactions involve...

Speaking of hypersensitivity reactions...

How many types of ocular-surface hypersensitivity reactions are there?



Anaphylaxis

Type I

Type II

Type III

Type IV

Type I reactions involve...Anaphylaxis

Type II reactions involve....[Two words capturing this rxn]

Type III reactions involve...

Type IV reactions involve...





Anaphylaxis

Cytotoxic Ab

Type I

Type II

Type III

Type IV

Type I reactions involve...Anaphylaxis

Type II reactions involve... Cytotoxic antibodies

Type III reactions involve...

Type IV reactions involve...



Anaphylaxis

Cytotoxic Ab

Type I

Type II

Type III

Type IV

Type I reactions involve...Anaphylaxis
Type II reactions involve...Cytotoxic antibodies
Type III reactions involve...[Three words for this one]
Type IV reactions involve...





Anaphylaxis

Cytotoxic Ab

Immune-complex reactions

Type I

Type II

Type III

Type IV

Type I reactions involve...Anaphylaxis
Type II reactions involve...Cytotoxic antibodies
Type III reactions involve...Immune-complex reactions
Type IV reactions involve...

Q

IK? IDK IK! OMG!



Anaphylaxis

Cytotoxic Ab

Immune-complex reactions

Type I

Type II

Type III

Type IV

Type I reactions involve...Anaphylaxis
Type II reactions involve...Cytotoxic antibodies
Type III reactions involve...Immune-complex reactions
Type IV reactions involve... [Three words again]





Anaphylaxis

Cytotoxic Ab

Immune-complex reactions

Cell-mediated reactions

Type I

Type II

Type III

Type IV

Type I reactions involve...Anaphylaxis

Type II reactions involve...Cytotoxic antibodies

Type III reactions involve...Immune-complex reactions
Type IV reactions involve...Cell-mediated reactions

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Cell-mediated reactions
Type IV

Anaphylaxis

Type I

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Type II

reactions
Type III

Immune-complex

Type I reactions involve...Anaphylaxis
Type II reactions involve...Cytotoxic antibodies
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Type IV reactions involve...Cell-mediated reactions

'Cell-mediated reaction'...Which sort of immune cell is doing the mediating?



Cell-mediated reactions
Type IV

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'Cell-mediated reaction'...Which sort of immune cell is doing the mediating? T-helper cells

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In what way are T-helper cells mediating the reaction?



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'Cell-mediated reaction'...Which sort of immune cell is doing the mediating? T-helper cells

In what way are T-helper cells mediating the reaction?
In Type IV reactions, T-helpers interact with antigens, thereby becoming activated.
Once activated, the T-helpers release chemotactic factors that recruit and activate macrophages.

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Cell-mediated reactions

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Cytotoxic Ab

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Type II

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Type III

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Cell-mediated reactions
Type IV

Anaphylaxis

Type I

Type II

Cytotoxic Ab

Immune-complex reactions

Type III

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Anaphylaxis

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Type I

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Type I reactions involve...Anaphylaxis
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Type I reactions involve. .. Anaphylaxis
Type II reactions involve. .. Cylotoxic antibodies

For more on hypersensitivity reactions of the ocular surface, see slide-set K21

'Cell-mediated reaction'...Which sort of immune cell is doing the mediating?

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--?
                                     The only cause to make all four lists
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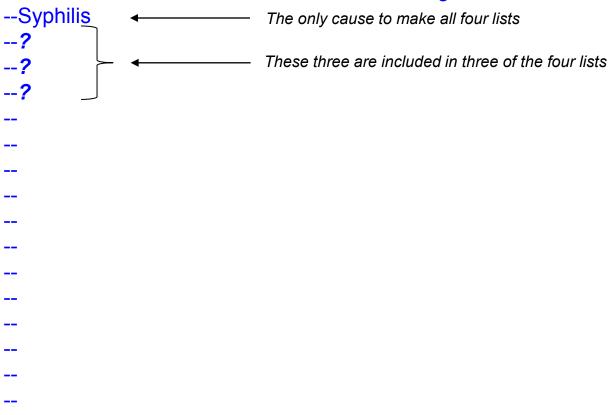


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--Syphilis
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Q

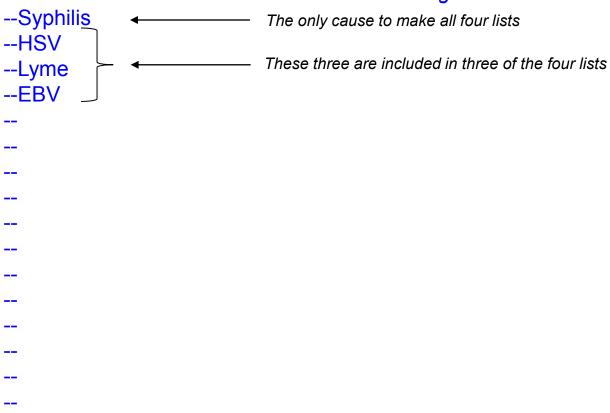
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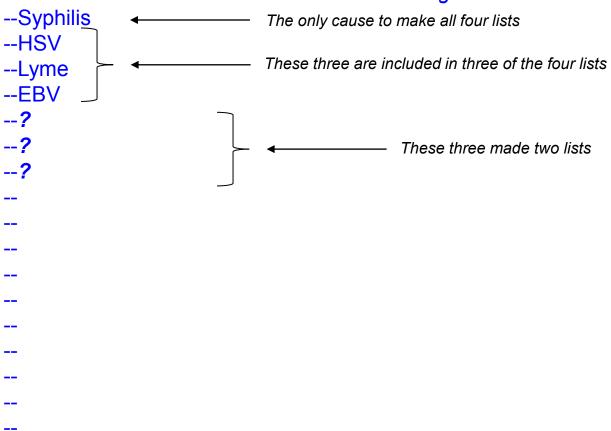




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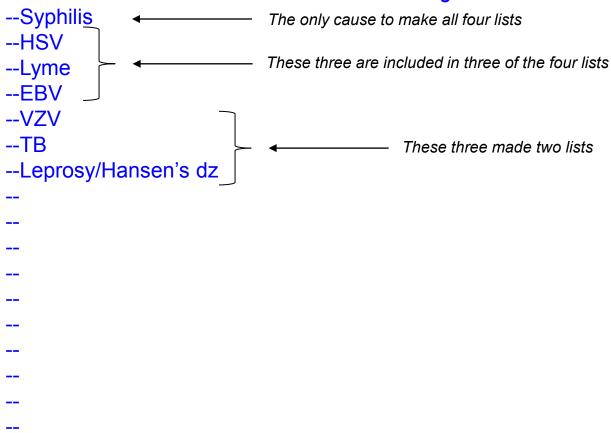
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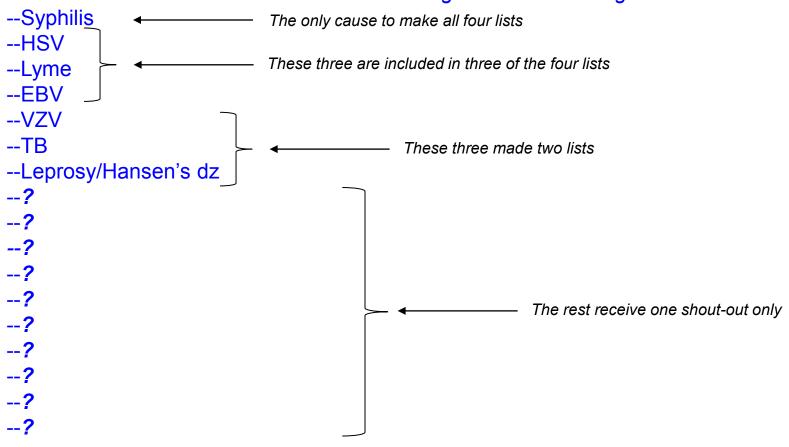






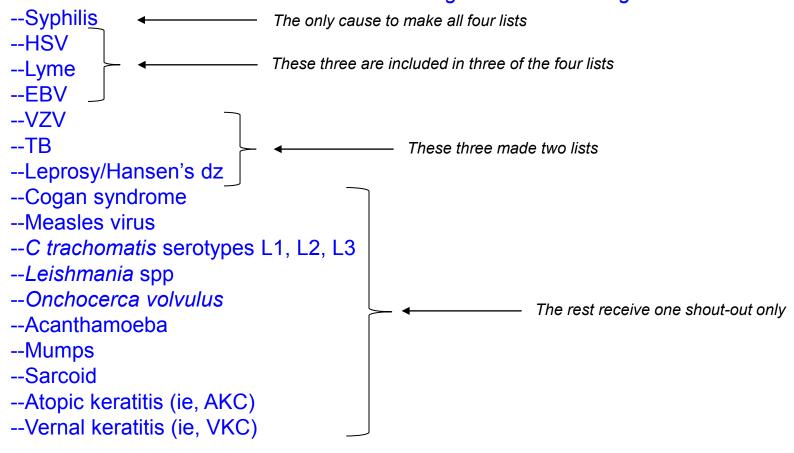














The BCSC addresses IK four times in three volumes (twice in the Cornea book). The combined differential is listed below. It long. Let's work through it...

- --Syphilis
- --HSV
- --Lyme
- --EBV
- --VZV
- --TB
- --Leprosy/Hansen's dz
- -- Cogan syndrome
- --Measles virus
- -- C trachomatis serotypes L1, L2, L3
- --Leishmania spp
- --Onchocerca volvulus
- --Acanthamoeba
- --Mumps
- --Sarcoid
- --Atopic keratitis (ie, AKC)
- --Vernal keratitis (ie, VKC)

Which one is described (by at least one BCSC book) as the "classic cause" of IK?



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Which is the most common cause of IK?



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Which is the most common cause of IK? HSV (interesting that the most common cause is not considered the 'classic' cause!)

Q

IK? IDK IK! OMG!



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- --?
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- --Trachoma
- --Adult inclusion conjunctivitis
- --Lymphogranuloma venereum
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Is trachoma a serious ocular condition?

--Trachoma

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Mos def—it is a blinding condition

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Is trachoma a serious ocular condition?

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Where does it rank in terms of infectious causes of blindness?

- --Adult inclusion col --Lymphogranuloma
- --Cogan syndrome

- --**C** trachomatis se otypes L1, L2, L3
- --Leishmania spp
- -- Onchocerca volvulus
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--Adult inclusion cor

Where does it rank in terms of infectious causes of blindness? It is the #1 cause worldwide

--Lymphogranuloma

--Cogan syndrome

Measles virus

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Is adult inclusion conjunctivitis a serious ocular condition? Nah—it is mild and transient

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Does this bug have serious effects elsewhere?





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Is adult inclusion conjunctivitis a serious ocular condition? Nah—it is mild and transient

Does this bug have serious effects elsewhere? Mos def—it is the cause of the classic chlamydial urethritis/cervicitis, ie, the STD form of *Chlamydia* disease



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For completeness' sake: The Cornea book lists sexually-transmitted causes of conjunctivitis.



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For completeness' sake: The Cornea book lists five* sexually-transmitted causes of conjunctivitis.

*We'll address what's being asterisked** shortly



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Is adult inclusion conjunctivitis a serious ocular condition? Nah—it is mild and transient

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--As for the 'L' serotypes causing Lymphogranuloma, I assume you got that one.

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Finally: Take note that it is the lymphogranuloma venereum serotypes which are associated with IK!



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(No question—proceed when ready)



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Because HSV is the most common cause of IK... and syphilis is its 'classic' cause...

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Cogan syndrome

Let's start with luetic (ie, syphilitic) IK...



- Regarding luetic interstitial keratitis (IK), which are true?
 - Most cases are secondary to congenital disease



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Rule of thumb regarding congenital syphilis manifestations and age:
--Manifestations presenting within the first two years of life are secondary to...

two words



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- --Manifestations presenting later in life are secondary to...an immune-mediated process



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Is the extent of involvement always equal between the eyes?



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Re bilateral IK, do both eyes always present simultaneously?

Is the extent of involvement always equal between the eyes? No, involvement can be asymmetric



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What is the natural course of syphilitic IK if it goes untreated?

About 50% of congenital syphilis cases manifest IK. F



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What is the natural course of syphilitic IK if it goes untreated?

It tends to burn itself out in a matter of weeks to months

About 50% of congenital syphilis cases manifest IK. If



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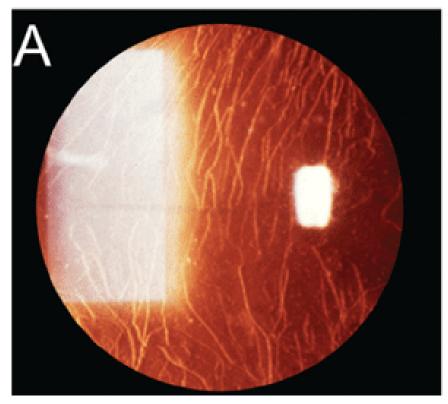
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Ghost vessels

Congenital syphilis: Interstitial keratitis



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Congenital syphilis: Corneal scarring/haze after active IK



- Speaking of congenital syphilis: What are the classic signs (other than IK, duh)?



- Speaking of congenital syphilis: What are the classic signs (other than IK, duh)?
 - Circumoral scars
 - Hutchinson teeth
 - Saddle nose
 - Saber shins
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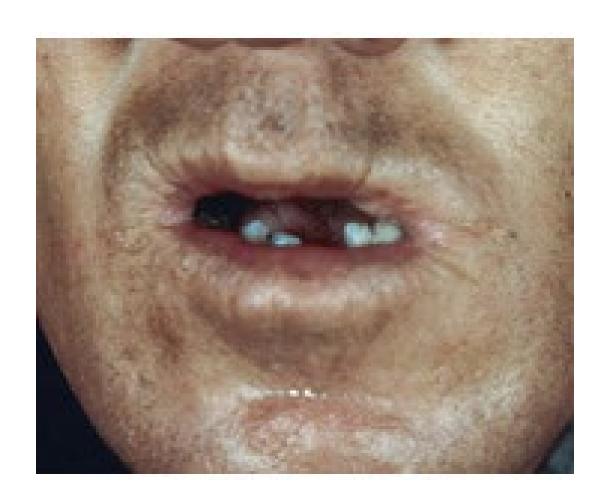


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What is the formal term for these circumoral scars? 'Rhagades'

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Congenital syphilis: Rhagades



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What is the classic description of Hutchinson teeth?

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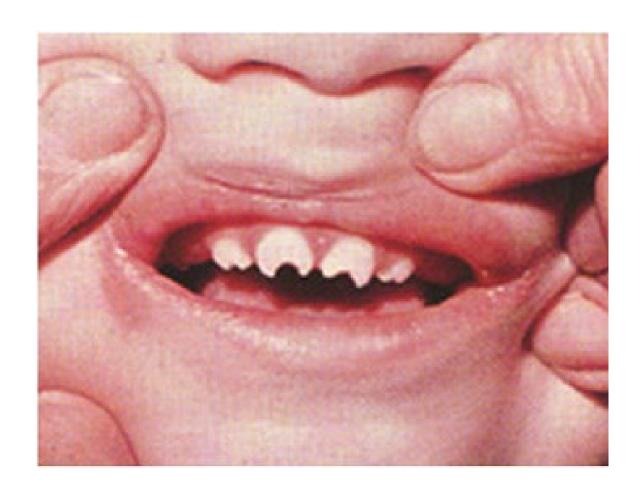


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What is the classic description of Hutchinson teeth? 'Peg-shaped'

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Congenital syphilis: Teephus



abnormal teeth...

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What does CHRPE stand for here?



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Pts have CHRPE-like lesions in their retinal

What does CHRPE stand for here? Congenital hyperplasia of the RPE







CHRPE

CHRPE-like lesions of Gardner syndrome



abnormal teeth...

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(For more on Gardner's, see slide-set P3)



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In three words, what sort of condition is A-R?

Kare



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In three words, what sort of condition is A-R? An anterior segment dysgenesis (for more on A-R, see slide-set *FELT7*)

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phakomatosis

Briefly, what is a phakomatosis?

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What is the hallmark skin finding in IP?



'two words'

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Incontinentia pigmenti: Splashed-paint appearance



abnormal teeth...

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(For more on IP, see slide-set P10)



 Speaking of congenital syphilis: What are the classic signs (other than IK, duh)?

Circumoral scars

- Hutchinson teeth
- Saddle nose

Speaking of saddle-nose deformity...If a pt with it had peripheral ulcerative keratitis (PUK) rather than IK, what two diagnoses should you consider?



Saddle-nose deformity





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Why formerly? Why is the term Wegener's no longer preferred?



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With respect to a saddle-nose pt with PUK, what would push you toward a dx of:

--RP?

-- Granulomatosis with polyangiitis?



Saddle-nose deformity



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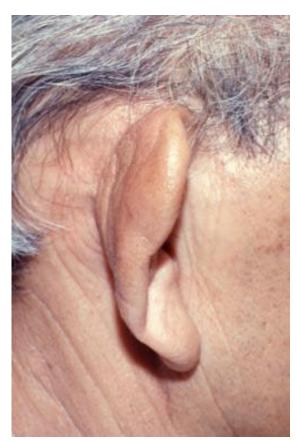


Saddle-nose deformity





Acute inflammation



Post-inflammation deformity

Auricular damage in RP



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In the present context, to what does the term Hutchinson's triad refer?



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- --Interstitial keratitis
- -- Deafness
- --Hutchinson teeth

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 - Hutchinson teeth
 - Saddle nose

What is the classic retinal finding in congenital lues?

- Saber shins
- Cognitive impairment
- CN8 deafness



- Speaking of congenital syphilis: What are the classic signs (other than IK, duh)?
 - Circumoral scars
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 - Saddle nose
 - Saber shins

What is the classic retinal finding in congenital lues? Salt -and-pepper retinitis

- Cognitive impairment
- CN8 deafness





Congenital syphilis: Salt-and-pepper retinitis



Next we will turn our attention to HSV



1) ?

2) ?

You should think of anterior HSV eye dz as having two very broad forms. What are they?



1) Primary ocular disease

2) Recurrent ocular disease

You should think of anterior HSV eye dz as having two very broad forms. What are they?



1) Primary ocular disease



Does 'recurrence' mean the pt gets re-infected?





1) Primary ocular disease



Does 'recurrence' mean the pt gets re-infected?

No! Remember, herpes virus infection is never cleared—rather, it becomes latent within the host. Thus, recurrence means the virus is **reactivated**, not re-acquired.



1) Primary ocular disease



Does 'recurrence' mean the pt gets re-infected?

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Where in the body do herpesviruses establish their latency?







1) Primary ocular disease



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Where in the body do herpesviruses establish their latency?

Different members of the herpesvirus family take up residence in different cell types.

HSV-1 and HSV-2 hole up in three words







1) Primary ocular disease



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Which sensory ganglion harbors the virions responsible for recurrent ocular dz?



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Which sensory ganglion harbors the virions responsible for recurrent ocular dz? The trigeminal (CN5; 'stellate') ganglion



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Which sensory ganglion harbors the virions responsible for recurrent ocular dz? The trigeminal (CN5; 'stellate') ganglion

The trigeminal nerve breaks into three 'sub-nerves.' What are they?

- --?
- --?
- --?



1) Primary ocular disease



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The trigeminal nerve breaks into three 'sub-nerves.' What are they?

- --Ophthalmic
- --Maxillary
- --Mandibular





1) Primary ocular disease

--Usually a *unilateral*

one long word







- 1) Primary ocular disease
- --Usually a unilateral blepharoconjunctivitis
- 2) Recurrent ocular disease



sign 2



1) Primary ocular disease

- --Usually a unilateral blepharoconjunctivitis
 - --Presents with lid margin sign 1 and bulbar
- 2) Recurrent ocular disease





1) Primary ocular disease

- --Usually a unilateral blepharoconjunctivitis
 - --Presents with lid margin vesicles/ulcers and bulbar conj ulcers
- 2) Recurrent ocular disease





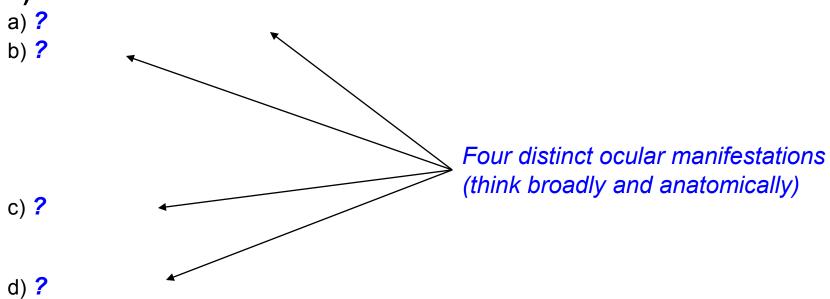


HSV blepharoconjunctivitis



1) Primary ocular disease

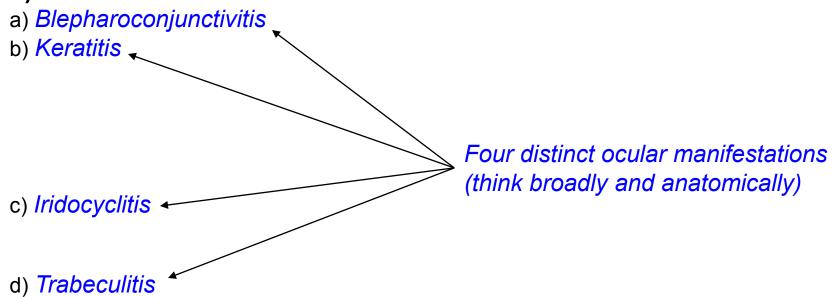
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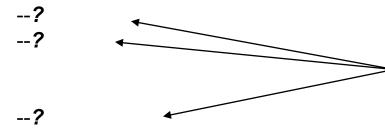


1) Primary ocular disease

- --Usually a unilateral blepharoconjunctivitis
 - --Presents with lid margin vesicles/ulcers and bulbar conj ulcers

2) Recurrent ocular disease

- a) Blepharoconjunctivitis
- b) *Keratitis*



Three specific and distinct keratitis subtypes

c) Iridocyclitis

d) Trabeculitis



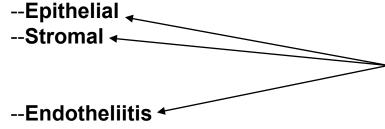


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1) Primary ocular disease

- --Usually a unilateral blepharoconjunctivitis
 - --Presents with lid margin vesicles/ulcers and bulbar conj ulcers

- a) Blepharoconjunctivitis
- b) *Keratitis*
 - --Epithelial: c/o three words . Classic sign:
 - --Stromal
 - -- Endotheliitis
- c) Iridocyclitis
- d) Trabeculitis





1) Primary ocular disease

- --Usually a unilateral blepharoconjunctivitis
 - --Presents with lid margin vesicles/ulcers and bulbar conj ulcers

- a) Blepharoconjunctivitis
- b) Keratitis
 - --Epithelial: c/o foreign body sensation. Classic sign: Dendrites
 - --Stromal
 - -- Endotheliitis
- c) Iridocyclitis
- d) Trabeculitis





HSV epithelial keratitis



1) Primary ocular disease

- --Usually a unilateral blepharoconjunctivitis
 - --Presents with lid margin vesicles/ulcers and bulbar conj ulcers

- a) Blepharoconjunctivitis
- b) Keratitis
 - --Epithelial: c/o foreign body sensation. Classic sign: Dendrites
 - --Stromal
 - --Endotheliitis (aka two words): Presents as shaped edematous area with abb.
- c) Iridocyclitis
- d) Trabeculitis

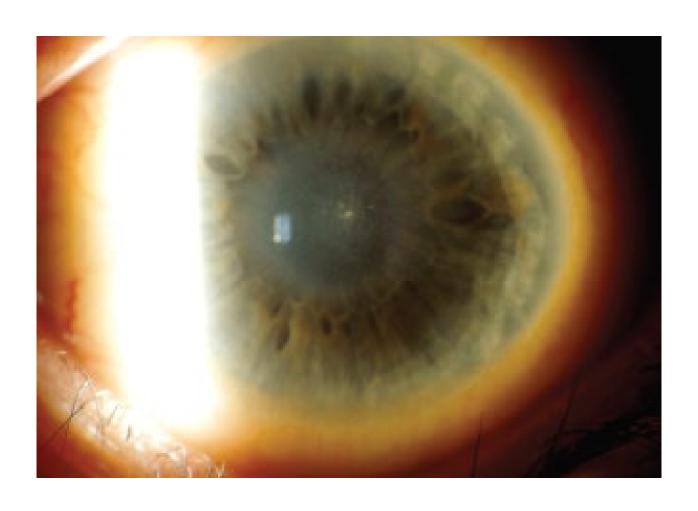


1) Primary ocular disease

- --Usually a unilateral blepharoconjunctivitis
 - --Presents with lid margin vesicles/ulcers and bulbar conj ulcers

- a) Blepharoconjunctivitis
- b) Keratitis
 - --Epithelial: c/o foreign body sensation. Classic sign: Dendrites
 - --Stromal
 - --Endotheliitis (aka disciform keratitis): Presents as disc-shaped edematous area with KP
- c) Iridocyclitis
- d) Trabeculitis





HSV endotheliitis/disciform keratitis



1) Primary ocular disease

- --Usually a unilateral blepharoconjunctivitis
 - --Presents with lid margin vesicles/ulcers and bulbar conj ulcers

2) Recurrent ocular disease

- a) Blepharoconjunctivitis
- b) *Keratitis*
 - --Epithelial: c/o foreign body sensation. Classic sign: Dendrites
 - --Stromal
 - --? --?

- Two subtypes of stromal keratitis

--Endotheliitis (aka disciform keratitis): Presents as disc-shaped edematous area with KP

c) *Iridocyclitis*

d) Trabeculitis



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 - --Necrotizing: Looks like an
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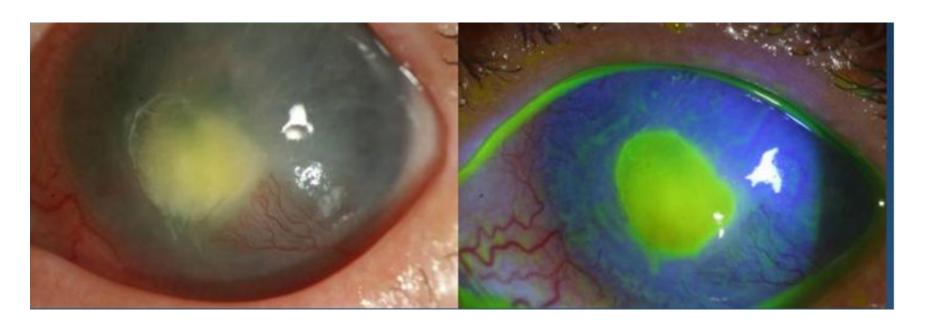
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- a) Blepharoconjunctivitis
- b) *Keratitis*
 - --Epithelial: c/o foreign body sensation. Classic sign: Dendrites
 - --Stromal
 - --Necrotizing: Looks like an ulcer (ie, suppurative, with an overlying epithelial defect)
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 - --Endotheliitis (aka disciform keratitis): Presents as disc-shaped edematous area with KP
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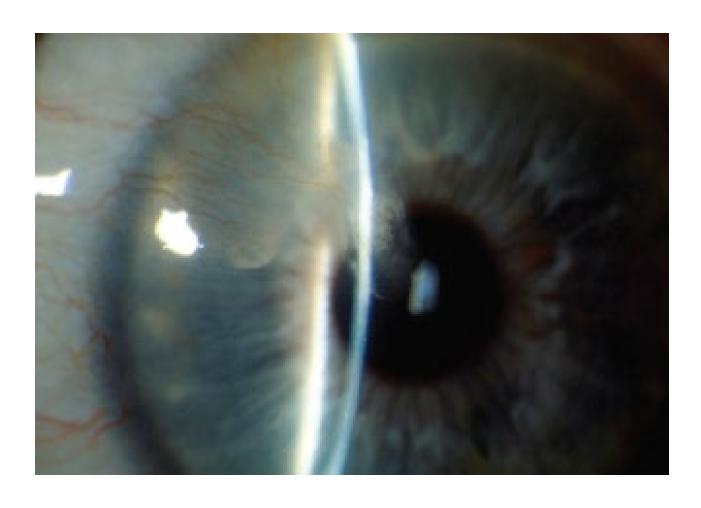


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HSV interstitial keratitis



1) Primary ocular disease

- -- Usually a unilateral blepharoconjunctivitis
 - --Presents with lid margin vesicles/ulcers and bulbar conj ulcers

- a) P1
- For more on anterior HSV dz, see slide-set K23
 - -- Epithelial: c/o foreign body sensation. Classic sign: Dendrites
 - --Stromal
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Next we will turn our attention to Cogan syndrome



- Regarding interstitial keratitis (IK) associated with Cogan syndrome, which are true?
 - It usually strikes children around age 9 years



- Regarding interstitial keratitis (IK) associated with Cogan syndrome, which are true?
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- Regarding interstitial keratitis (IK) associated with Cogan syndrome, which are true?
 young adults
 - It usually strikes children around age 9 years
 - It often follows an URTI by 1-2 weeks or so

(Upper respiratory tract infection)



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Do these pts go on to manifest a systemic vasculitic process? Some do, and it can be life-threatening



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Regarding interstitial keratitis (IK) associated with

Does this mean topical steroids play no role in managing Cogan syndrome?

osum is

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osum

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What other med(s) is/are indicated in managing Cogan syndrome?

osum is

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osum

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How urgent is the need to start systemic steroids?

Quite. Cogan's tends to progress rapidly, and profound, permanent hearing loss and even death can result if systemic steroid therapy isn't initiated promptly.

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What test is used to diagnose Cogan's? There is none—it is a diagnosis of exclusion



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It does not. When faced with a case of IK of uncertain origin, must be ruled out via serologic testing (and consideration should be given to assessing for systemic inflammatory causes as well)



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What test is used to diagnose Cogan's?

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So does this mean no testing is necessary?

It does not. When faced with a case of IK of uncertain origin, syphilis must be ruled out via serologic testing (and consideration should be given to assessing for systemic inflammatory causes as well)