

- Dendritiform keratopathy: DDx

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Mnemonic forthcoming...



- Dendritiform keratopathy: DDx

- H

- A

- T

- E

- S

- H

- A

- T

- E

- S

The Cornea

**H
A
T
E
S,

H
A
T
E
S**

Dendrites!

Q

It's Dendritiform Keratopathy, Haters



- Dendritiform keratopathy: DDx

- **H**
 - A
 - T
 - E
 - S

 - **H**
 - A
 - T
 - E
 - S
- Start with these, and work down both 'hates'*

The Cornea

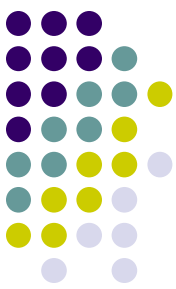
**H
A
T
E
S,

H
A
T
E
S**

Dendrites!

Q/A

It's Dendritiform Keratopathy, Haters



- Dendritiform keratopathy: DDx

- HSV

- A

- T

- E

- S

- HZO

- A

- T

- E

- S

The Cornea

HSV

A

T

E

S,

HZO

A

T

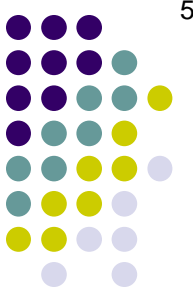
E

S

Dendrites!

Q/A

It's Dendritiform Keratopathy, Haters



- Dendritiform keratopathy: DDX

- HSV
- **Acanthamoeba**
- T
- E
- S

- HZO
- **Adenovirus**
- T
- E
- S

The Cornea

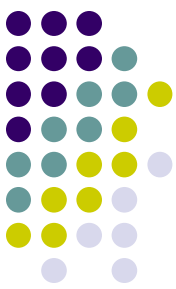
Hsv
Acanthamoeba
T
E
S,

Hzo
Adenovirus
T
E
S

Dendrites!

Q/A

It's Dendritiform Keratopathy, Haters



- Dendritiform keratopathy: DDX

- HSV
- Acanthamoeba
- **Topical meds**
- **E**
- S

- HZO
- Adenovirus
- **Thygeson's**
- **E**
- S

The Cornea

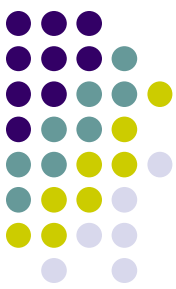
Hsv
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S,

Hzo
Adenovirus
Thygeson's
E
S

Dendrites!

Q/A

It's Dendritiform Keratopathy, Haters



- Dendritiform keratopathy: DDx

- HSV
- Acanthamoeba
- Topical meds
- **EBV**
- **S**

- HZO
- Adenovirus
- Thygeson's
- **EBMD**
- **S**

The Cornea

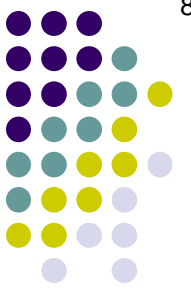
Hsv
Acanthamoeba
Topical meds
EBV
S,

HZO
Adenovirus
Thygeson's
EBMD
S

Dendrites!

A

It's Dendritiform Keratopathy, Haters



- Dendritiform keratopathy: DDx

- HSV
- Acanthamoeba
- Topical meds
- EBV
- **Soft CL wear**

- HZO
- Adenovirus
- Thygeson's
- EBMD
- **Subepithelial deposits**

The Cornea

Hsv

Acanthamoeba

Topical meds

EBV

Soft CL wear,

HZO

Adenovirus

Thygeson's

EBMD

Sub-epi deposits

Dendrites!



Q

It's Dendritiform Keratopathy, Haters

The dendrites of herpetic epitheliopathy take stains in a particular manner: The epithelium at the edges of the dendrite stain with **two words**, while the base of the dendrite stains with **one word**. It's important to note that the dendrites associated with these other conditions will generally not take stains the same way.

● Dendriti

● **HSV**

- Acanthamoeba
- Topical meds
- EBV
- Soft CL wear

- HZO
- Adenovirus
- Thygeson's
- EBMD
- Subepithelial deposits

Hsv

Acanthamoeba

Topical meds

EBV

Soft CL wear,

Hzo

Adenovirus

Thygeson's

EBMD

Sub-epi deposits

Dendrites!



A

It's Dendritiform Keratopathy, Haters

The dendrites of herpetic epitheliopathy take stains in a particular manner: The epithelium at the edges of the dendrite stain with **rose bengal**, while the base of the dendrite stains with **fluorescein**. It's important to note that the dendrites associated with these other conditions will generally not take stains the same way.

● Dendriti

● **HSV**

● Acanthamoeba

● Topical meds

● EBV

● Soft CL wear

● HZO

● Adenovirus

● Thygeson's

● EBMD

● Subepithelial deposits

HSV

Acanthamoeba

Topical meds

EBV

Soft CL wear,

HZO

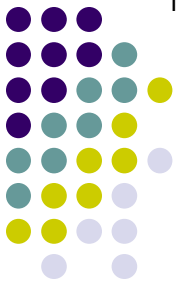
Adenovirus

Thygeson's

EBMD

Sub-epi deposits

Dendrites!



Q

It's Dendritiform Keratopathy, Haters

● Dendritiform keratopathy: DDx

- HSV
- Acanthamoeba
- **Topical meds**
- ERV

The Cornea

Hsv

Acanthamoeba

Topical meds

ERV

What two classes of meds are especially likely to produce a dendritiform keratitis?

- HZO
- Adenovirus
- Thygeson's
- EBMD
- Subepithelial deposits

HZO

A

Thygeson's

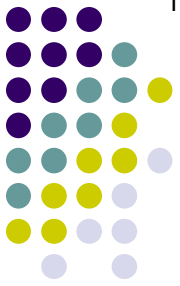
E

Sub-epi deposits

Dendrites!

Q/A

It's Dendritiform Keratopathy, Haters



● Dendritiform keratopathy: DDx

- HSV
- Acanthamoeba
- **Topical meds**
- ERV

The Cornea

Hsv

Acanthamoeba

Topical meds

ERV

What two classes of meds are especially likely to produce a dendritiform keratitis?

This class is an anti-infective:

This class is an ocular hypotensive:

- HZO
- Adenovirus
- Thygeson's
- EBMD
- Subepithelial deposits

HZO

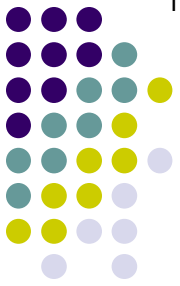
A

T

E

S

Dendrites!



Q

It's Dendritiform Keratopathy, Haters

● Dendritiform keratopathy: DDx

- HSV
- Acanthamoeba
- **Topical meds**
- EBV

The Cornea

Hsv

Acanthamoeba

Topical meds

Ebv

What two classes of meds are especially likely to produce a dendritiform keratitis?

This class is an anti-infective: **Antivirals**

This class is an ocular hypotensive: **Beta-blockers**

- HZO
- Adenovirus
- Thygeson's
- EBMD
- Subepithelial deposits

Hzo

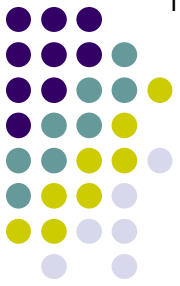
A

T

E

S

Dendrites!



Q

It's Dendritiform Keratopathy, Haters

● Dendritiform keratopathy: DDx

- HSV
- Acanthamoeba
- Topical meds

What specifically about soft CL wear is the culprit?

- **Soft CL wear**
- HZO
- Adenovirus
- Thygeson's
- EBMD
- Subepithelial deposits

The Cornea

HSV

Acanthamoeba

Topical meds

EBV

Soft CL wear

HZO

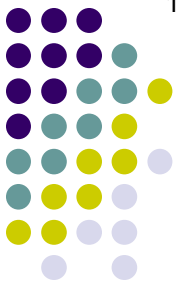
Adenovirus

Thygeson's

EBMD

Sub-epi deposits

Dendrites!



A

It's Dendritiform Keratopathy, Haters

● Dendritiform keratopathy: DDx

- HSV
- Acanthamoeba
- **Topical meds**

What specifically about soft CL wear is the culprit?

The preservative **thimerosal** in the CL solution

- **Soft CL wear**
- HZO
- Adenovirus
- Thygeson's
- EBMD
- Subepithelial deposits

The Cornea

HSV

Acanthamoeba

Topical meds

EBV

Soft CL wear

HZO

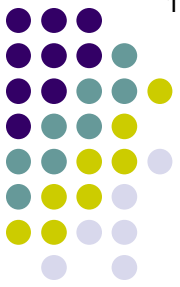
A

Thygeson's

EBMD

Sub-epi deposits

Dendrites!



Q

It's Dendritiform Keratopathy, Haters

● Dendritiform keratopathy: DDX

- HSV
- **Acanthamoeba**
- Topical meds

The Cornea

HSV

Acanthamoeba

Topical meds

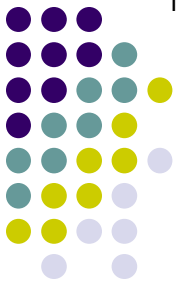
In what key way do the dendrites of Acanthamoeba keratitis differ from those of HSV keratitis?

- EBMD
- Subepithelial deposits

Dendrites!

Q/A

It's Dendritiform Keratopathy, Haters



● Dendritiform keratopathy: DDx

- HSV
- **Acanthamoeba**
- Topical meds

The Cornea

HSV

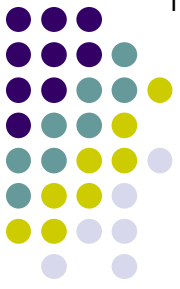
Acanthamoeba

Topical meds

*In what key way do the dendrites of Acanthamoeba keratitis differ from those of HSV keratitis? HSV dendrites usually have **two words**, whereas Acanthamoeba dendrites don't. Be sure to evaluate any dendritic keratitis carefully for the presence/absence of **same two words** !*

- EBMD
- Subepithelial deposits

Dendrites!



A

It's Dendritiform Keratopathy, Haters

- Dendritiform keratopathy: DDx

- HSV
- **Acanthamoeba**
- Topical meds

The Cornea

HSV

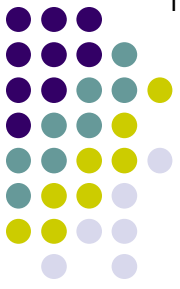
Acanthamoeba

Topical meds

In what key way do the dendrites of Acanthamoeba keratitis differ from those of HSV keratitis? HSV dendrites usually have terminal bulbs, whereas Acanthamoeba dendrites don't. Be sure to evaluate any dendritic keratitis carefully for the presence/absence of terminal bulbs!

- EBMD
- Subepithelial deposits

Dendrites!



Q

It's Dendritiform Keratopathy, Haters

● Dendritiform keratopathy: DDx

- HSV
- **Acanthamoeba**
- Topical meds

The Cornea

HSV

Acanthamoeba

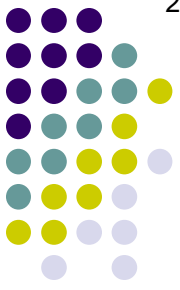
Topical meds

In what key way do the dendrites of Acanthamoeba keratitis differ from those of HSV keratitis? HSV dendrites usually have terminal bulbs, whereas Acanthamoeba dendrites don't. Be sure to evaluate any dendritic keratitis carefully for the presence/absence of terminal bulbs!

In what key way might the presenting complaint of an Acanthamoeba keratitis patient differ from that of an HSV keratitis patient?

- EBMD
- Subepithelial deposits

Dendrites!



A

It's Dendritiform Keratopathy, Haters

- Dendritiform keratopathy: DDX

- HSV
- **Acanthamoeba**
- Topical meds

The Cornea

HSV

Acanthamoeba

Topical meds

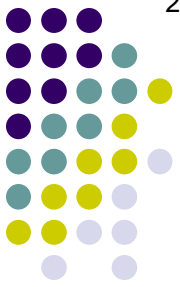
In what key way do the dendrites of Acanthamoeba keratitis differ from those of HSV keratitis? HSV dendrites usually have terminal bulbs, whereas Acanthamoeba dendrites don't. Be sure to evaluate any dendritic keratitis carefully for the presence/absence of terminal bulbs!

In what key way might the presenting complaint of an Acanthamoeba keratitis patient differ from that of an HSV keratitis patient?

The patient with *Acanthamoeba* keratitis will complain of pain that seems out of proportion to the clinical picture, while the HSV keratitis patient will have **less** pain than would be expected given the appearance of the cornea.

- EBMD
- Subepithelial deposits

Dendrites!



Q

It's Dendritiform Keratopathy, Haters

● Dendritiform keratopathy: DDX

- HSV
- **Acanthamoeba**
- Topical meds

The Cornea

HSV

Acanthamoeba

Topical meds

In what key way do the dendrites of Acanthamoeba keratitis differ from those of HSV keratitis? HSV dendrites usually have terminal bulbs, whereas Acanthamoeba dendrites don't. Be sure to evaluate any dendritic keratitis carefully for the presence/absence of terminal bulbs!

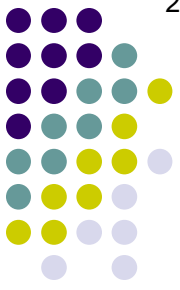
In what key way might the presenting complaint of an Acanthamoeba keratitis patient differ from that of an HSV keratitis patient?

The patient with *Acanthamoeba* keratitis will complain of pain that seems out of proportion to the clinical picture, while the HSV keratitis patient will have **less** pain than would be expected given the appearance of the cornea.

Why is Acanthamoeba keratitis so painful?

- EBMD
- Subepithelial deposits

Dendrites!



A

It's Dendritiform Keratopathy, Haters

- Dendritiform keratopathy: DDX

- HSV
- **Acanthamoeba**
- Topical meds

The Cornea

HSV

Acanthamoeba

Topical meds

In what key way do the dendrites of Acanthamoeba keratitis differ from those of HSV keratitis? HSV dendrites usually have terminal bulbs, whereas Acanthamoeba dendrites don't. Be sure to evaluate any dendritic keratitis carefully for the presence/absence of terminal bulbs!

In what key way might the presenting complaint of an Acanthamoeba keratitis patient differ from that of an HSV keratitis patient?

The patient with *Acanthamoeba* keratitis will complain of pain that seems out of proportion to the clinical picture, while the HSV keratitis patient will have **less** pain than would be expected given the appearance of the cornea.

Why is Acanthamoeba keratitis so painful?

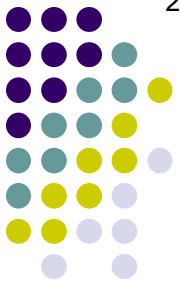
Because the bug has a propensity for perineural invasion

- EBMD
- Subepithelial deposits

Dendrites!

Q

It's Dendritiform Keratopathy, Haters



● Dendritiform keratopathy: DDx

In this context, what does EBMD stand for?

- Adenovirus
- Thygeson's
- **EBMD**
- Subepithelial deposits

Thygeson's

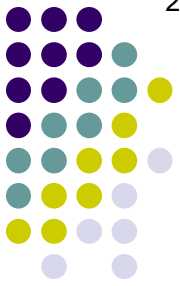
EBMD

Sub-epi deposits

Dendrites!

A

It's Dendritiform Keratopathy, Haters



● Dendritiform keratopathy: DDX

In this context, what does EBMD stand for?

Epithelial basement membrane dystrophy

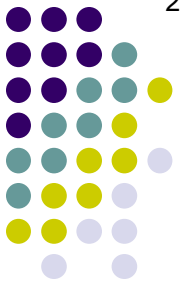
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- **EBMD**
- Subepithelial deposits

Thygeson's

EBMD

Sub-epi deposits

Dendrites!



Q

It's Dendritiform Keratopathy, Haters

● Dendritiform keratopathy: DDX

In this context, what does EBMD stand for?

Epithelial basement membrane dystrophy

What are three other common names for EBMD?

- Adenovirus
- Thygeson's
- **EBMD**
- Subepithelial deposits

Thygeson's
EBMD

Sub-epi deposits

Dendrites!

A

It's Dendritiform Keratopathy, Haters

● Dendritiform keratopathy: DDX

In this context, what does EBMD stand for?

Epithelial basement membrane dystrophy

What are three other common names for EBMD?

--Map-dot-fingerprint dystrophy

--Cogan's microcystic dystrophy

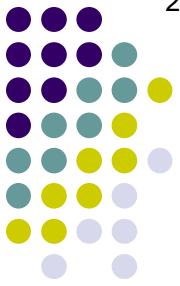
--Anterior basement membrane dystrophy

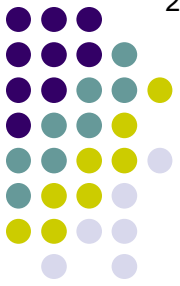
- Adenovirus
- Thygeson's
- **EBMD**
- Subepithelial deposits

Thygeson's
EBMD

Sub-epi deposits

Dendrites!





Q

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--Anterior basement membrane dystrophy

What is the slit-lamp appearance of EBMD?

- Adenovirus
- Thygeson's
- **EBMD**
- Subepithelial deposits

Thygeson's

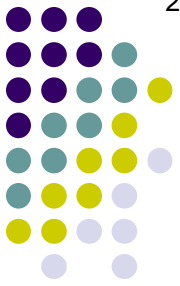
EBMD

Sub-epi deposits

Dendrites!

A

It's Dendritiform Keratopathy, Haters



● Dendritiform keratopathy: DDX

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What are three other common names for EBMD?

- Map-dot-fingerprint dystrophy
- Cogan's microcystic dystrophy
- Anterior basement membrane dystrophy

What is the slit-lamp appearance of EBMD?

It can present in any combo of the following:

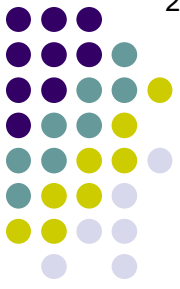
- Fingerprint lines**: Thin, curvy lines that occur in groups and follow the same course
- Map lines**: Thicker lines that follow a more jagged course
- Dots/cysts**

- Adenovirus
- Thygeson's
- **EBMD**
- Subepithelial deposits

EBMD

Sub-epi deposits

Dendrites!



Q

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What do pts complain of?

- Adenovirus
- Thygeson's
- **EBMD**
- Subepithelial deposits

Thygeson's

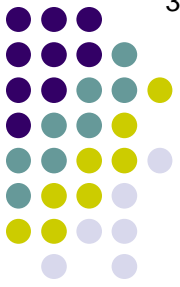
EBMD

Sub-epi deposits

Dendrites!

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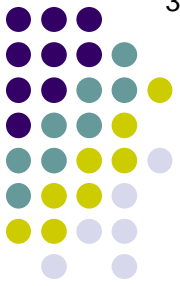
Most cases present with symptoms related to **recurrent epithelial erosions (REE)**

- Adenovirus
- Thygeson's
- **EBMD**
- Subepithelial deposits

EBMD

Sub-epi deposits

Dendrites!



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● Dendritiform keratopathy: DDX

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What do pts complain of?

Most cases present with symptoms related to **recurrent epithelial erosions** (REE)

- Adenovirus

- Thygeson's

- **EBMD**

- Subepithelial

EBMD

What are the '6 F's' of EBMD?

--F

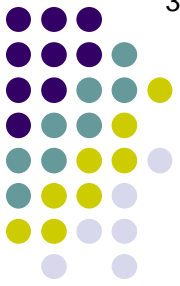
--F

--F

--F

--F

F



A

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● Dendritiform keratopathy: DDx

In this context, what does EBMD stand for?

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What do pts complain of?

Most cases present with symptoms related to **recurrent epithelial erosions (REE)**

● Adenovirus

● Thygeson's

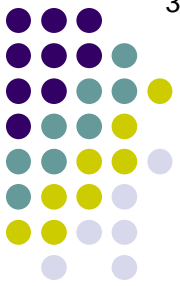
● **EBMD**

● Subepithelial

EBMD

What are the '6 F's' of EBMD?

- F**emale
- F**ifties and older (usually)
- F**ive to **F**ifteen percent of the population are afflicted
- F**ifty percent of pts who suffer REE have it
- F**ibrillar material accumulates under the basement membrane



Q

It's Dendritiform Keratopathy, Haters

● Dendritiform keratopathy: DDx

- HSV
- Acanthamoeba
- Topical meds
- EBV
- Soft CL wear

- HZO
- Adenovirus
- Thygeson's

The Cornea

Hsv

Acanthamoeba

Topical meds

EBV

Soft CL wear

Hzo

Adenovirus

Thygeson's

EBMD

Sub-epi deposits

What does this mean, sub-epi deposits?

- **Subepithelial deposits**



A

It's Dendritiform Keratopathy, Haters

- Dendritiform keratopathy: DDx

- HSV
- Acanthamoeba
- Topical meds
- EBV
- Soft CL wear

- HZO
- Adenovirus
- Thygeson's

The Cornea

HSV

Acanthamoeba

Topical meds

EBV

Soft CL wear

HZO

Adenovirus

Thygeson's

EBMD

Sub-epi deposits

What does this mean, sub-epi deposits?

Deposits as found in diseases such as Fabry's, as well as with certain systemic drugs

- **Subepithelial deposits**

Q

It's Dendritiform Keratopathy, Haters

- Dendritiform
 - HSV?
 - Acanthamoeba?
 - Topical meds?
 - EBV?
 - Soft CL wear?
- HZO?
- Adenovirus?
- Thygeson's?
- EBMD?
- Subepithelial deposits?

The strength-of-association with dendritiform lesions is not the same for all of these conditions. For which three conditions is the association especially weak?

HSV

Acanthamoeba

Topical meds

EBV

Soft CL wear

HZO

Adenovirus

Thygeson's

EBMD

Sub-epi deposits

Dendrites!

A

It's Dendritiform Keratopathy, Haters

- Dendritiform
 - HSV
 - Acanthamoeba
 - Topical meds
 - **EBV**
 - Soft CL wear

- HZO
- **Adenovirus**
- **Thygeson's**
- EBMD
- Subepithelial deposits

*The strength-of-association with dendritiform lesions is not the same for all of these conditions. For which three conditions is the association especially **weak**?*

Hsv

Acanthamoeba

Topical meds

EBV

Soft CL wear

HZO

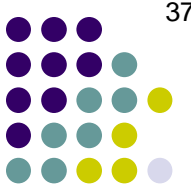
Adenovirus

Thygeson's

EBMD

Sub-epi deposits

Dendrites!



?

?

?

What are the three adenoviral ocular syndromes?

- Soft CL wear
- HZO
- **Adenovirus**
- Thygeson's
- EBMD
- Subepithelial deposits

EBV

Soft CL wear

HZO

Adenovirus

Thygeson's

EBMD

Sub-epi deposits

Dendrites!



Follicular conjunctivitis

*Pharyngoconjunctival
Fever (PCF)*

*Epidemic
Keratoconjunctivitis (EKC)*

What are the three adenoviral ocular syndromes?

- Soft CL wear
- HZO
- **Adenovirus**
- Thygeson's
- EBMD
- Subepithelial deposits

EBV
Soft CL wear
HZO
Adenovirus
Thygeson's
EBMD
Sub-epi deposits
Dendrites!

Q

It's Dendritiform Keratopathy, Haters



Follicular conjunctivitis?

*Pharyngoconjunctival
Fever (PCF) ?*

*Epidemic
Keratoconjunctivitis (EKC)?*

Of the three, which is the only one with significant corneal involvement?

- Soft CL wear
- HZO
- **Adenovirus**
- Thygeson's
- EBMD
- Subepithelial deposits

EBV
Soft CL wear
HZO
Adenovirus
Thygeson's
EBMD
Sub-epi deposits
Dendrites!



Follicular conjunctivitis

*Pharyngoconjunctival
Fever (PCF)*

***Epidemic
Keratoconjunctivitis (EKC)***

(Unsurprisingly, it's the one with 'kerato' in its name)

Of the three, which is the only one with significant corneal involvement?

- Soft CL wear
- HZO
- **Adenovirus**
- Thygeson's
- EBMD
- Subepithelial deposits

EBV

Soft CL wear

HZO

Adenovirus

Thygeson's

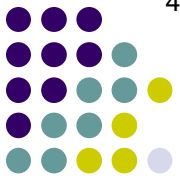
EBMD

Sub-epi deposits

Dendrites!

Q

It's Dendritiform Keratopathy, Haters



Follicular conjunctivitis

Pharyngoconjunctival
Fever (PCF)

Epidemic
Keratoconjunctivitis (EKC)

There's a good chance that, in your time as an ophthalmologist, you haven't seen adenoviral follicular conjunctivitis. Why is that?

- HZO
- **Adenovirus**
- Thygeson's
- EBMD
- Subepithelial deposits

CL wear

HZO

Adenovirus

Tygeson's

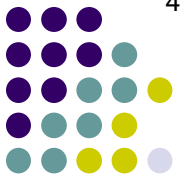
EBMD

Sub-epi deposits

Dendrites!

A

It's Dendritiform Keratopathy, Haters



Follicular conjunctivitis

Mild disease, rarely seen in clinic

Pharyngoconjunctival
Fever (PCF)

Epidemic
Keratoconjunctivitis (EKC)

There's a good chance that, in your time as an ophthalmologist, you haven't seen adenoviral follicular conjunctivitis. Why is that? Because it is so mild, and so transient, that sufferers do not bother to come in for treatment

- HZO
- **Adenovirus**
- Thygeson's
- EBMD
- Subepithelial deposits

CL wear

HZO

Adenovirus

T

EBMD

Sub-epi deposits

Dendrites!



Q

It's Dendritiform Keratopathy, Haters

Follicular conjunctivitis

Mild disease, rarely seen in clinic

Pharyngoconjunctival Fever (PCF)

Epidemic Keratoconjunctivitis (EKC)

How does pharyngoconjunctival fever present?

- Soft Contact Lens
- HZO
- **Adenovirus**
- Thygeson's
- EBMD
- Subepithelial deposits

Thygeson's
EBMD
Sub-epi deposits
Dendrites!

A

It's Dendritiform Keratopathy, Haters



Follicular conjunctivitis

Mild disease, rarely seen in clinic

Pharyngoconjunctival Fever (PCF)

Follicular conjunctivitis + HA + fever + pharyngitis

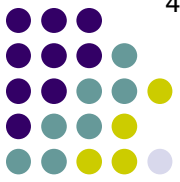
Epidemic Keratoconjunctivitis (EKC)

How does pharyngoconjunctival fever present?

With a follicular conjunctivitis accompanied by HA, fever (check the name), and pharyngitis (ditto)

- Soft C
- HZO
- **Adenovirus**
- Thygeson's
- EBMD
- Subepithelial deposits

Thygeson's
EBMD
Sub-epi deposits
Dendrites!



Q

It's Dendritiform Keratopathy, Haters

Follicular conjunctivitis

Mild disease, rarely seen in clinic

Pharyngoconjunctival Fever (PCF)

Follicular conjunctivitis + HA + fever + pharyngitis

Epidemic Keratoconjunctivitis (EKC)

How does pharyngoconjunctival fever present?

With a follicular conjunctivitis accompanied by HA, fever (check the name), and pharyngitis (ditto)

Because of its manifestations, with what common systemic condition is it sometimes confused?

- Soft Contact Lens
- HZO
- **Adenovirus**
- Thygeson's
- EBMD
- Subepithelial deposits

Thygeson's
EBMD
Sub-epi deposits
Dendrites!



A

It's Dendritiform Keratopathy, Haters

Follicular conjunctivitis

Mild disease, rarely seen in clinic

Pharyngoconjunctival Fever (PCF)

Looks like the flu

Follicular conjunctivitis +
HA + fever + pharyngitis

Epidemic Keratoconjunctivitis (EKC)

How does pharyngoconjunctival fever present?

With a follicular conjunctivitis accompanied by HA, fever (check the name), and pharyngitis (ditto)

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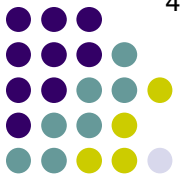
The flu

- Soft C
- HZO
- **Adenovirus**
- Thygeson's
- EBMD
- Subepithelial deposits

Thygeson's
EBMD
Sub-epi deposits
Dendrites!

Q

It's Dendritiform Keratopathy, Haters



Follicular conjunctivitis

Mild disease, rarely seen in clinic

Pharyngoconjunctival Fever (PCF)

Looks like the flu

Epidemic Keratoconjunctivitis (EKC)

- Soft CL wear
- HZO
- **Adenovirus**
- Thygeson's
- EBMD
- Subepithelial deposits

How does epidemic keratoconjunctivitis present?
In stages...

Stage 1:

Stage 2:

Stage 3:

Adenovirus

Thygeson's

EBMD

Sub-epi deposits

Dendrites!



Follicular conjunctivitis

Mild disease, rarely seen in clinic

Pharyngoconjunctival Fever (PCF)

Looks like the flu

Epidemic Keratoconjunctivitis (EKC)

- Soft CL wear
- HZO
- **Adenovirus**
- Thygeson's
- EBMD
- Subepithelial deposits

How does epidemic keratoconjunctivitis present?
In stages...

Stage 1: Upper respiratory tract infection

Stage 2:

Stage 3:

Adenovirus

Thygeson's

EBMD

Sub-epi deposits

Dendrites!



Follicular conjunctivitis

Mild disease, rarely seen in clinic

Pharyngoconjunctival Fever (PCF)

Looks like the flu

Epidemic Keratoconjunctivitis (EKC)

- Soft CL wear
- HZO
- **Adenovirus**
- Thygeson's
- EBMD
- Subepithelial deposits

How does epidemic keratoconjunctivitis present?
In stages...

Stage 1: Upper respiratory tract infection

Stage 2: Severe follicular conjunctivitis

Stage 3:

Adenovirus

Thygeson's

EBMD

Sub-epi deposits

Dendrites!



Follicular conjunctivitis

Mild disease, rarely seen in clinic

Pharyngoconjunctival Fever (PCF)

Looks like the flu

Epidemic Keratoconjunctivitis (EKC)

- Soft CL wear
- HZO
- **Adenovirus**
- Thygeson's
- EBMD
- Subepithelial deposits

How does epidemic keratoconjunctivitis present?
In stages...

Stage 1: Upper respiratory tract infection

Stage 2: Severe follicular conjunctivitis

Stage 3: Subepithelial infiltrates

Adenovirus

Thygeson's

EBMD

Sub-epi deposits

Dendrites!



Follicular conjunctivitis

Mild disease, rarely seen in clinic

Pharyngoconjunctival Fever (PCF)

Looks like the flu

Epidemic Keratoconjunctivitis (EKC)

Bilateral follicular conj'itis

What will pts complain of at this stage?

How does epidemic keratoconjunctivitis present?
In stages...

Stage 1: Upper respiratory tract infection

Stage 2: Severe follicular conjunctivitis

Stage 3: Subepithelial infiltrates

- **Adenovirus**
- Thygeson's
- EBMD
- Subepithelial deposits

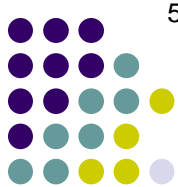
Adenovirus

Thygeson's

EBMD

Sub-epi deposits

Dendrites!



Follicular conjunctivitis

Mild disease, rarely seen in clinic

Pharyngoconjunctival Fever (PCF)

Looks like the flu

Epidemic Keratoconjunctivitis (EKC)

Bilateral follicular conj'itis

What will pts complain of at this stage?
Tearing, foreign-body sensation, photophobia

How does epidemic keratoconjunctivitis present?
In stages...
Stage 1: Upper respiratory tract infection
Stage 2: Severe follicular conjunctivitis
Stage 3: Subepithelial infiltrates

- **Adenovirus**
- Thygeson's
- EBMD
- Subepithelial deposits

Adenovirus
Thygeson's
EBMD
Sub-epi deposits
Dendrites!



Q

It's Dendritiform Keratopathy, Haters

Follicular conjunctivitis

Mild disease, rarely seen in clinic

Pharyngoconjunctival Fever (PCF)

Looks like the flu

Epidemic Keratoconjunctivitis (EKC)

Bilateral follicular conj'itis +

What will pts complain of at this stage?
Tearing, foreign-body sensation, photophobia

Slit-lamp exam of the anterior segment will reveal...

...
...
...

How does epidemic keratoconjunctivitis present?
In stages...

Stage 1: Upper respiratory tract infection

Stage 2: Severe follicular conjunctivitis

Stage 3: Subepithelial infiltrates

- **Adenovirus**
- Thygeson's
- EBMD
- Subepithelial deposits

Adenovirus

Thygeson's

EBMD

Sub-epi deposits

Dendrites!



Follicular conjunctivitis

Mild disease, rarely seen in clinic

Pharyngoconjunctival Fever (PCF)

Looks like the flu

Epidemic Keratoconjunctivitis (EKC)

Bilateral follicular conj'itis + punctate keratopathy +

What will pts complain of at this stage?
Tearing, foreign-body sensation, photophobia

Slit-lamp exam of the anterior segment will reveal...
...Punctate epithelial keratopathy
...
...

How does epidemic keratoconjunctivitis present?
In stages...

Stage 1: Upper respiratory tract infection

Stage 2: Severe follicular conjunctivitis

Stage 3: Subepithelial infiltrates

- Adenovirus
- Thygeson's
- EBMD
- Subepithelial deposits

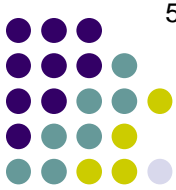
Adenovirus

Thygeson's

EBMD

Sub-epi deposits

Dendrites!



Follicular conjunctivitis

Mild disease, rarely seen in clinic

Pharyngoconjunctival Fever (PCF)

Looks like the flu

Epidemic Keratoconjunctivitis (EKC)

Bilateral follicular conj'itis + punctate keratopathy + petechial hemorrhages +

What will pts complain of at this stage?
Tearing, foreign-body sensation, photophobia

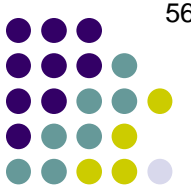
Slit-lamp exam of the anterior segment will reveal...
...Punctate epithelial keratopathy
...Sub-conj heme
...

How does epidemic keratoconjunctivitis present?
In stages...

- Stage 1: Upper respiratory tract infection
- Stage 2: Severe follicular conjunctivitis**
- Stage 3: Subepithelial infiltrates

- **Adenovirus**
- Thygeson's
- EBMD
- Subepithelial deposits

Adenovirus
Thygeson's
EBMD
Sub-epi deposits
Dendrites!



Follicular conjunctivitis

Mild disease, rarely seen in clinic

Pharyngoconjunctival Fever (PCF)

Looks like the flu

Epidemic Keratoconjunctivitis (EKC)

Bilateral follicular conj'itis + punctate keratopathy + petechial hemorrhages + conj membranes

What will pts complain of at this stage?
Tearing, foreign-body sensation, photophobia

Slit-lamp exam of the anterior segment will reveal...
...Punctate epithelial keratopathy
...Sub-conj heme
...Conjunctival membranes

How does epidemic keratoconjunctivitis present?
In stages...

Stage 1: Upper respiratory tract infection

Stage 2: Severe follicular conjunctivitis

Stage 3: Subepithelial infiltrates

- **Adenovirus**
- Thygeson's
- EBMD
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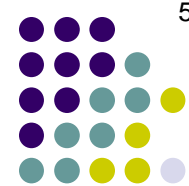
Adenovirus

Thygeson's

EBMD

Sub-epi deposits

Dendrites!



Follicular conjunctivitis

Mild disease, rarely seen in clinic

What will pts complain of at this stage?
Tearing, foreign-body sensation, photophobia

Slit-lamp exam of the anterior segment will reveal...
...Punctate epithelial keratopathy
...Sub-conj heme
...Conjunctival membranes

What nonocular sign might be found?

- **Adenovirus**
- Thygeson's
- EBMD
- Subepithelial deposits

Pharyngoconjunctival Fever (PCF)

Looks like the flu

Epidemic Keratoconjunctivitis (EKC)

Bilateral follicular conj'itis + punctate keratopathy + petechial hemorrhages + conj membranes +

How does epidemic keratoconjunctivitis present?
In stages...

Stage 1: Upper respiratory tract infection

Stage 2: Severe follicular conjunctivitis

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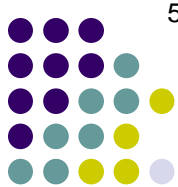
Adenovirus

Thygeson's

EBMD

Sub-epi deposits

Dendrites!



Follicular conjunctivitis

Mild disease, rarely seen in clinic

Pharyngoconjunctival Fever (PCF)

Looks like the flu

Epidemic Keratoconjunctivitis (EKC)

Bilateral follicular conj'itis + punctate keratopathy + petechial hemorrhages + conj membranes + lymphadenopathy

What will pts complain of at this stage?
Tearing, foreign-body sensation, photophobia

Slit-lamp exam of the anterior segment will reveal...
...Punctate epithelial keratopathy
...Sub-conj heme
...Conjunctival membranes

What nonocular sign might be found?
Preauricular lymphadenopathy

How does epidemic keratoconjunctivitis present?
In stages...

Stage 1: Upper respiratory tract infection

Stage 2: Severe follicular conjunctivitis

Stage 3: Subepithelial infiltrates

- **Adenovirus**
- Thygeson's
- EBMD
- Subepithelial deposits

Adenovirus

Thygeson's

EBMD

Sub-epi deposits

Dendrites!

Q

It's Dendritiform Keratopathy, Haters

● Dendritiform

The strength-of-association with dendritiform lesions is not the same for all of these conditions. For which three conditions is the association especially weak?

- HSV
- Acanthamoeba
- Topical medication

Hsv

Acanthamoeba

What is the complete name of the condition listed here as simply 'Thygeson's'?

- Adenovirus
- **Thygeson's ...**
- EBMD
- Subepithelial deposits

Thygeson's

EBMD

Dendrites!

A

It's Dendritiform Keratopathy, Haters

● Dendritiform

The strength-of-association with dendritiform lesions is not the same for all of these conditions. For which three conditions is the association especially weak?

- HSV
- Acanthamoeba
- Topical medication

What is the complete name of the condition listed here as simply 'Thygeson's'?
Thygeson's superficial punctate keratitis

- Adenovirus
- **Thygeson's superficial punctate keratitis**
- EBMD
- Subepithelial deposits

Hsv

Acanthamoeba

Thygeson's

EBMD

Dendrites!

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- HSV
- Acanthamoeba
- Topical medication

Hsv

Acanthamoeba

What is the complete name of the condition listed here as simply 'Thygeson's'?
Thygeson's superficial punctate keratitis

What do Thygeson's pts c/o?

- Adenovirus
- **Thygeson's superficial punctate keratitis**
- EBMD
- Subepithelial deposits

Thygeson's

EBMD

Dendrites!

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- Acanthamoeba

- Topical medication

What is the complete name of the condition listed here as simply 'Thygeson's'?
Thygeson's superficial punctate keratitis

What do Thygeson's pts c/o?

Photophobia and foreign-body sensation

- Adenovirus

- **Thygeson's superficial punctate keratitis**

- EBMD

- Subepithelial deposits

Hsv

Acanthamoeba

Thygeson's

EBMD

Dendrites!

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It's Dendritiform Keratopathy, Haters

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- HSV
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- Topical medication

Hsv

Acanthamoeba

What is the complete name of the condition listed here as simply 'Thygeson's'?
Thygeson's superficial punctate keratitis

What do Thygeson's pts c/o?
Photophobia and foreign-body sensation

*What is the classic corneal finding on exam (hint: it's **not** dendritiform lesions)?*

- Adenovirus
- **Thygeson's superficial punctate keratitis**
- EBMD
- Subepithelial deposits

Thygeson's

EBMD

Dendrites!

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It's Dendritiform Keratopathy, Haters

- Dendritiform

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- HSV

- Acanthamoeba

- Topical medication

What is the complete name of the condition listed here as simply 'Thygeson's'?
Thygeson's superficial punctate keratitis

What do Thygeson's pts c/o?

Photophobia and foreign-body sensation

*What is the classic corneal finding on exam (hint: it's **not** dendritiform lesions)?*

Multiple discrete punctate lesions

- Adenovirus

- **Thygeson's superficial punctate keratitis**

- EBMD

- Subepithelial deposits

HSV

Acanthamoeba

Thygeson's

EBMD

Dendrites!

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It's Dendritiform Keratopathy, Haters

• Dendritiform

The strength-of-association with dendritiform lesions is not the same for all of these conditions. For which three conditions is the association especially weak?

- HSV
- Acanthamoeba
- Topical medication

Will the pt's complaints be mild, or severe in nature?

What do Thygeson's pts c/o?

Photophobia and foreign-body sensation

*What is the classic corneal finding on exam (hint: it's **not** dendritiform lesions)?*
Multiple discrete punctate lesions

- Adenovirus
- **Thygeson's superficial punctate keratitis**
- EBMD
- Subepithelial deposits

Hsv

Acanthamoeba

Thygeson's?

Thygeson's

EBMD

Dendrites!

A

It's Dendritiform Keratopathy, Haters

- Dendritiform

The strength-of-association with dendritiform lesions is not the same for all of these conditions. For which three conditions is the association especially weak?

- HSV

- **Acanthamoeba**

- Topical medication

Will the pt's complaints be mild, or severe in nature?

Like those with *Acanthamoeba* keratitis, Thygeson's pts will complain of pain that seems out of proportion to the clinical picture

What do Thygeson's pts c/o?

Photophobia and foreign-body sensation

*What is the classic corneal finding on exam (hint: it's **not** dendritiform lesions)?*

Multiple discrete punctate lesions

- Adenovirus

- **Thygeson's superficial punctate keratitis**

- EBMD

- Subepithelial deposits

Hsv

Acanthamoeba

Thygeson's?

Thygeson's

EBMD

Dendrites!