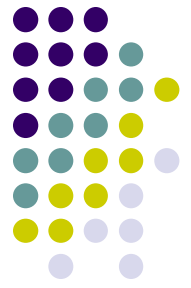


Adenoviral Conjunctivitis

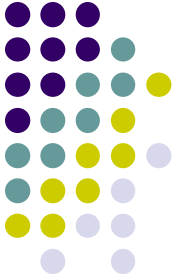


Transmitted via...

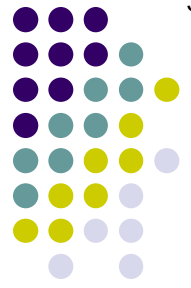
...
...
...



Adenoviral Conjunctivitis



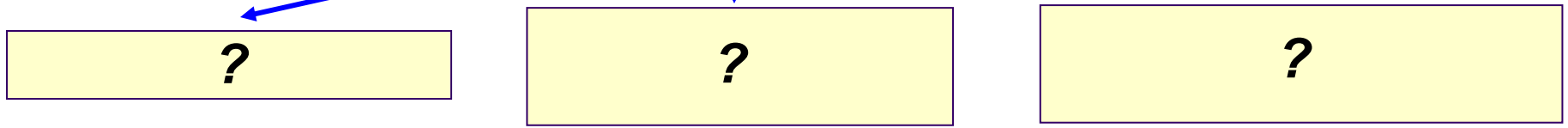
Transmitted via...
...close contact with ocular/respiratory secretions
...fomites
...contaminated swimming pools

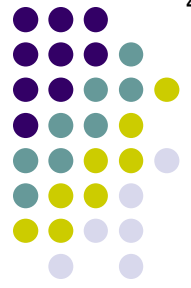


Adenoviral Conjunctivitis

Transmitted via...
...close contact with ocular/respiratory secretions
...fomites
...contaminated swimming pools

Three ocular syndromes





Adenoviral Conjunctivitis

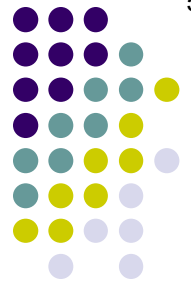
Transmitted via...
...close contact with ocular/respiratory secretions
...fomites
...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

*Pharyngoconjunctival
Fever (PCF)*

*Epidemic
Keratoconjunctivitis (EKC)*



Adenoviral Conjunctivitis

Transmitted via...
...close contact with ocular/respiratory secretions
...fomites
...contaminated swimming pools

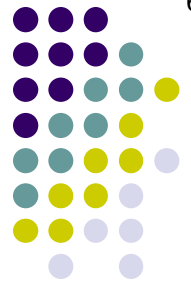
Three ocular syndromes

Follicular conjunctivitis

*Pharyngoconjunctival
Fever (PCF)*

*Epidemic
Keratoconjunctivitis (EKC)*

Why isn't acute hemorrhagic conjunctivitis on this list?



Adenoviral Conjunctivitis

Transmitted via...
...close contact with ocular/respiratory secretions
...fomites
...contaminated swimming pools

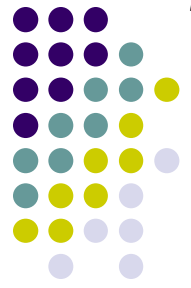
Three ocular syndromes

Follicular conjunctivitis

*Pharyngoconjunctival
Fever (PCF)*

*Epidemic
Keratoconjunctivitis (EKC)*

Why isn't acute hemorrhagic conjunctivitis on this list?
Because it's caused by an or , not adenovirus



Adenoviral Conjunctivitis

Transmitted via...
...close contact with ocular/respiratory secretions
...fomites
...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

*Pharyngoconjunctival
Fever (PCF)*

*Epidemic
Keratoconjunctivitis (EKC)*

Why isn't acute hemorrhagic conjunctivitis on this list?
Because it's caused by an enterovirus or coxsackievirus, not adenovirus



Adenoviral Conjunctivitis

Transmitted via...
...close contact with ocular/respiratory secretions
...fomites
...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis
-- duration, severity disease

*Pharyngoconjunctival
Fever (PCF)*

*Epidemic
Keratoconjunctivitis (EKC)*



Adenoviral Conjunctivitis

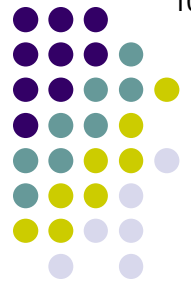
Transmitted via...
...close contact with ocular/respiratory secretions
...fomites
...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis
--Mild, transient disease

*Pharyngoconjunctival
Fever (PCF)*

*Epidemic
Keratoconjunctivitis (EKC)*



Adenoviral Conjunctivitis

Transmitted via...
...close contact with ocular/respiratory secretions
...fomites
...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

- Mild, transient disease
- management?

*Pharyngoconjunctival
Fever (PCF)*

*Epidemic
Keratoconjunctivitis (EKC)*

Adenoviral Conjunctivitis

Transmitted via...

...close contact with ocular/respiratory secretions
...fomites
...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

- Mild, transient disease
- No care sought

Pharyngoconjunctival Fever (PCF)

Epidemic Keratoconjunctivitis (EKC)

Adenoviral Conjunctivitis

Transmitted via...

...close contact with ocular/respiratory secretions
...fomites
...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

--Mild, transient disease
--No care sought

Pharyngoconjunctival Fever (PCF)

--Serotypes #,#

Epidemic Keratoconjunctivitis (EKC)

Adenoviral Conjunctivitis

Transmitted via...

...close contact with ocular/respiratory secretions
...fomites
...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

--Mild, transient disease
--No care sought

Pharyngoconjunctival Fever (PCF)

--Serotypes 3, 7

Epidemic Keratoconjunctivitis (EKC)

Adenoviral Conjunctivitis

Transmitted via...

...close contact with ocular/respiratory secretions
 ...fomites
 ...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

--Mild, transient disease
 --No care sought

Pharyngoconjunctival Fever (PCF)

--Serotypes **3, 7**
 --Follicular conj'itis + sign +
 symp + symptom

Epidemic Keratoconjunctivitis (EKC)

Adenoviral Conjunctivitis

Transmitted via...

...close contact with ocular/respiratory secretions
...fomites
...contaminated swimming pools

Three ocular syndromes

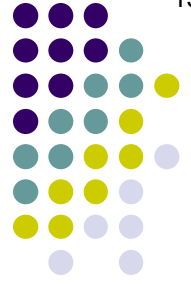
Follicular conjunctivitis

--Mild, transient disease
--No care sought

Pharyngoconjunctival Fever (PCF)

--Serotypes **3, 7**
--Follicular conj'itis + **fever** +
HA + **pharyngitis**

Epidemic Keratoconjunctivitis (EKC)



Adenoviral Conjunctivitis

Transmitted via...

...close contact with ocular/respiratory secretions
 ...fomites
 ...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

--Mild, transient disease
 --No care sought

Pharyngoconjunctival Fever (PCF)

--Serotypes **3, 7**
 --Follicular conj'itis + **fever** +
HA + pharyngitis
 --Looks like the dz

Epidemic Keratoconjunctivitis (EKC)

Adenoviral Conjunctivitis

Transmitted via...

...close contact with ocular/respiratory secretions
...fomites
...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

- Mild, transient disease
- No care sought

Pharyngoconjunctival Fever (PCF)

- Serotypes **3, 7**
- Follicular conj'itis + **fever** +
HA + **pharyngitis**
- Looks like the **flu**

Epidemic Keratoconjunctivitis (EKC)



Adenoviral Conjunctivitis

Transmitted via...

- ...close contact with ocular/respiratory secretions
- ...fomites
- ...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

- Mild, transient disease
- No care sought

Pharyngoconjunctival Fever (PCF)

- Serotypes **3, 7**
- Follicular conj'itis + **fever** + **HA** + **pharyngitis**
- Looks like the **flu**

Epidemic **Kerato**conjunctivitis (EKC)

Of the adenoviral syndromes, only EKC has significant **K involvement**

Adenoviral Conjunctivitis

Transmitted via...

...close contact with ocular/respiratory secretions
...fomites
...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

--Mild, transient disease
--No care sought

Pharyngoconjunctival Fever (PCF)

--Serotypes **3, 7**
--Follicular conj'itis + **fever** +
HA + pharyngitis
--Looks like the **flu**

Epidemic Keratoconjunctivitis (EKC)

--Serotypes **##,##**

Adenoviral Conjunctivitis

Transmitted via...

...close contact with ocular/respiratory secretions
...fomites
...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

- Mild, transient disease
- No care sought

Pharyngoconjunctival Fever (PCF)

- Serotypes **3, 7**
- Follicular conj'itis + **fever** +
HA + **pharyngitis**
- Looks like the **flu**

Epidemic Keratoconjunctivitis (EKC)

- Serotypes **8, 19, 37**

Adenoviral Conjunctivitis

Transmitted via...

...close contact with ocular/respiratory secretions
 ...fomites
 ...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

--Mild, transient disease
 --No care sought

Pharyngoconjunctival Fever (PCF)

--Serotypes **3, 7**
 --Follicular conj'itis + **fever** +
HA + pharyngitis
 --Looks like the **flu**

Epidemic Keratoconjunctivitis (EKC)

--Serotypes **8, 19, 37**
 --May be preceded by dz

Adenoviral Conjunctivitis

Transmitted via...

- ...close contact with ocular/respiratory secretions
- ...fomites
- ...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

- Mild, transient disease
- No care sought

Pharyngoconjunctival Fever (PCF)

- Serotypes **3, 7**
- Follicular conj'itis + **fever** +
HA + **pharyngitis**
- Looks like the **flu**

Epidemic Keratoconjunctivitis (EKC)

- Serotypes **8, 19, 37**
- May be preceded by **URTI**

(URTI = upper respiratory tract infection)



Adenoviral Conjunctivitis

Transmitted via...
 ...close contact with ocular/respiratory secretions
 ...fomites
 ...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

- Mild, transient disease
- No care sought

Pharyngoconjunctival Fever (PCF)

- Serotypes 3, 7
- Follicular conj'itis + fever + HA + pharyngitis
- Looks like the flu

Epidemic Keratoconjunctivitis (EKC)

- Serotypes 8, 19, 37
- May be preceded by URTI
- 2nd eye involved in amount of time

Adenoviral Conjunctivitis

Transmitted via...

- ...close contact with ocular/respiratory secretions
- ...fomites
- ...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

- Mild, transient disease
- No care sought

Pharyngoconjunctival Fever (PCF)

- Serotypes **3, 7**
- Follicular conj'itis + **fever** +
HA + pharyngitis
- Looks like the **flu**

Epidemic Keratoconjunctivitis (EKC)

- Serotypes **8, 19, 37**
- May be preceded by **URTI**
- 2nd eye involved in **3-7 days**

Adenoviral Conjunctivitis



Transmitted via...

- ...close contact with ocular/respiratory secretions
- ...fomites
- ...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

- Mild, transient disease
- No care sought

Pharyngoconjunctival Fever (PCF)

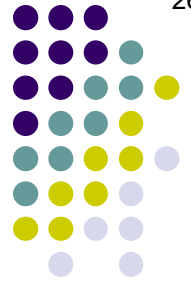
- Serotypes **3, 7**
- Follicular conj'itis + **fever** +
HA + **pharyngitis**
- Looks like the **flu**

Epidemic Keratoconjunctivitis (EKC)

- Serotypes **8, 19, 37**
- May be preceded by **URTI**
- 2nd eye involved in **3-7 days**
- Stages:

1st abb.

Adenoviral Conjunctivitis



Transmitted via...

- ...close contact with ocular/respiratory secretions
- ...fomites
- ...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

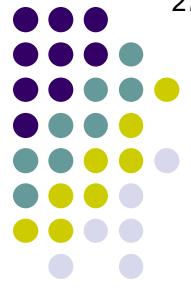
- Mild, transient disease
- No care sought

Pharyngoconjunctival Fever (PCF)

- Serotypes **3, 7**
- Follicular conj'itis + **fever** +
HA + **pharyngitis**
- Looks like the **flu**

Epidemic Keratoconjunctivitis (EKC)

- Serotypes **8, 19, 37**
- May be preceded by **URTI**
- 2nd eye involved in **3-7 days**
- Stages:
1st **URTI**



Adenoviral Conjunctivitis

Transmitted via...
 ...close contact with ocular/respiratory secretions
 ...fomites
 ...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

- Mild, transient disease
- No care sought

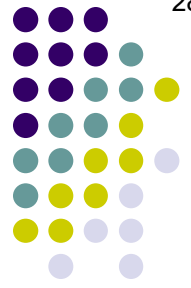
Pharyngoconjunctival Fever (PCF)

- Serotypes **3, 7**
- Follicular conj'itis + **fever** + **HA** + **pharyngitis**
- Looks like the **flu**

Epidemic Keratoconjunctivitis (EKC)

- Serotypes **8, 19, 37**
- May be preceded by **URTI**
- 2nd eye involved in **3-7 days**
- Stages:

1st **URTI**
 ↓ 1 week



Adenoviral Conjunctivitis

Transmitted via...
 ...close contact with ocular/respiratory secretions
 ...fomites
 ...contaminated swimming pools

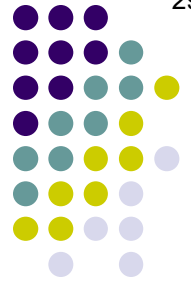
Three ocular syndromes

Follicular conjunctivitis
 --Mild, transient disease
 --No care sought

Pharyngoconjunctival Fever (PCF)
 --Serotypes 3, 7
 --Follicular conj'itis + fever + HA + pharyngitis
 --Looks like the flu

Epidemic Keratoconjunctivitis (EKC)
 --Serotypes 8, 19, 37
 --May be preceded by URTI
 --2nd eye involved in 3-7 days
 --Stages:
 1st URTI
 ↓ 1 week
 2nd three words

Adenoviral Conjunctivitis



Transmitted via...

- ...close contact with ocular/respiratory secretions
- ...fomites
- ...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

- Mild, transient disease
- No care sought

Pharyngoconjunctival Fever (PCF)

- Serotypes **3, 7**
- Follicular conj'itis + **fever** + **HA** + **pharyngitis**
- Looks like the **flu**

Epidemic Keratoconjunctivitis (EKC)

- Serotypes **8, 19, 37**
- May be preceded by **URTI**
- 2nd eye involved in **3-7 days**
- Stages:

1st **URTI**

↓ 1 week

2nd **Severe follicular conjunctivitis**

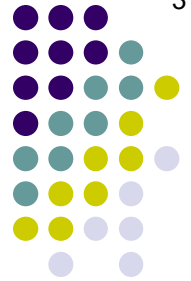


Adenoviral Conjunctivitis



EKC: Follicular conjunctivitis

Adenoviral Conjunctivitis



Transmitted via...

- ...close contact with ocular/respiratory secretions
- ...fomites
- ...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

- Mild, transient disease
- No care sought

Pharyngoconjunctival Fever (PCF)

- Serotypes **3, 7**
- Follicular conj'itis + **fever** + **HA** + **pharyngitis**
- Looks like the **flu**

Epidemic Keratoconjunctivitis (EKC)

- Serotypes **8, 19, 37**
- May be preceded by **URTI**
- 2nd eye involved in **3-7 days**
- Stages:

1st **URTI**

↓ 1 week

2nd **Severe follicular conjunctivitis**

What will pts complain of at this stage?

Adenoviral Conjunctivitis



Transmitted via...

...close contact with ocular/respiratory secretions
...fomites
...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

--Mild, transient disease
--No care sought

Pharyngoconjunctival Fever (PCF)

--Serotypes **3, 7**
--Follicular conj'itis + **fever** +
HA + **pharyngitis**
--Looks like the **flu**

Epidemic Keratoconjunctivitis (EKC)

--Serotypes **8, 19, 37**
--May be preceded by **URTI**
--2nd eye involved in **3-7 days**
--Stages:

1st **URTI**

↓ 1 week

2nd **Severe follicular conjunctivitis**

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



Adenoviral Conjunctivitis

Transmitted via...
...close contact with ocular/respiratory secretions
...fomites
...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis
--Mild, transient disease
--No care sought

Pharyngoconjunctival Fever (PCF)
--Serotypes 3, 7
--Follicular conj'itis + fever + HA + pharyngitis
--Looks like the flu

Epidemic Keratoconjunctivitis (EKC)
--Serotypes 8, 19, 37
--May be preceded by URTI
--2nd eye involved in 3-7 days
--Stages:
1st URTI
↓ 1 week
2nd Severe follicular conjunctivitis

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

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

Adenoviral Conjunctivitis



Transmitted via...

...close contact with ocular/respiratory secretions
...fomites
...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

--Mild, transient disease
--No care sought

Pharyngoconjunctival Fever (PCF)

--Serotypes **3, 7**
--Follicular conj'itis + **fever** +
HA + pharyngitis
--Looks like the **flu**

Epidemic Keratoconjunctivitis (EKC)

--Serotypes **8, 19, 37**
--May be preceded by **URTI**
--2nd eye involved in **3-7 days**
--Stages:

1st **URTI**

↓ 1 week

2nd **Severe follicular conjunctivitis**

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



Adenoviral Conjunctivitis



EKC: Heme



Adenoviral Conjunctivitis

Transmitted via...
 ...close contact with ocular/respiratory secretions
 ...fomites
 ...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

- Mild, transient disease
- No care sought

Pharyngoconjunctival Fever (PCF)

- Serotypes **3, 7**
- Follicular conj'itis + **fever** + **HA** + **pharyngitis**
- Looks like the **flu**

Epidemic Keratoconjunctivitis (EKC)

- Serotypes **8, 19, 37**
- May be preceded by **URTI**
- 2nd eye involved in **3-7 days**
- Stages:

1st **URTI**
 ↓ 1 week
 2nd **Severe follicular conjunctivitis**

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?



Adenoviral Conjunctivitis

Transmitted via...
 ...close contact with ocular/respiratory secretions
 ...fomites
 ...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

- Mild, transient disease
- No care sought

Pharyngoconjunctival Fever (PCF)

- Serotypes **3, 7**
- Follicular conj'itis + **fever** + **HA** + **pharyngitis**
- Looks like the **flu**

Epidemic Keratoconjunctivitis (EKC)

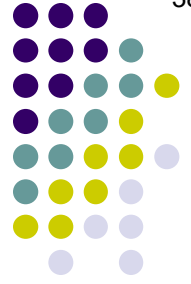
- Serotypes **8, 19, 37**
- May be preceded by **URTI**
- 2nd eye involved in **3-7 days**
- Stages:

1st **URTI**
 ↓ 1 week
 2nd **Severe follicular conjunctivitis**

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

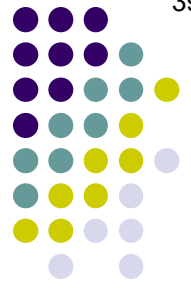
What nonocular sign might be found?
 Preauricular lymphadenopathy



Adenoviral Conjunctivitis



EKC: Preauricular lymphadenopathy



Adenoviral Conjunctivitis

Transmitted via...
 ...close contact with ocular/respiratory secretions
 ...fomites
 ...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

- Mild, transient disease
- No care sought

Pharyngoconjunctival Fever (PCF)

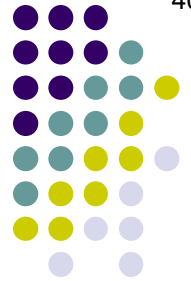
- Serotypes **3, 7**
- Follicular conj'itis + **fever** + **HA** + **pharyngitis**
- Looks like the **flu**

Epidemic Keratoconjunctivitis (EKC)

- Serotypes **8, 19, 37**
- May be preceded by **URTI**
- 2nd eye involved in **3-7 days**
- Stages:

1st **URTI**
 ↓ 1 week
 2nd **Severe follicular conjunctivitis**
 ↓ 1-2 weeks
 3rd two words

Adenoviral Conjunctivitis



Transmitted via...

- ...close contact with ocular/respiratory secretions
- ...fomites
- ...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

- Mild, transient disease
- No care sought

Pharyngoconjunctival Fever (PCF)

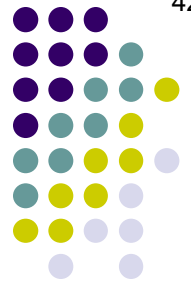
- Serotypes **3, 7**
- Follicular conj'itis + **fever** +
HA + **pharyngitis**
- Looks like the **flu**

Epidemic Keratoconjunctivitis (EKC)

- Serotypes **8, 19, 37**
- May be preceded by **URTI**
- 2nd eye involved in **3-7 days**
- Stages:
 - 1st **URTI**
 - ↓ 1 week
 - 2nd **Severe follicular conjunctivitis**
 - ↓ 1-2 weeks
 - 3rd **Subepithelial infiltrates (SEI)**



EKC: Subepithelial infiltrates



Adenoviral Conjunctivitis

Transmitted via...
 ...close contact with ocular/respiratory secretions
 ...fomites
 ...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

- Mild, transient disease
- No care sought

Pharyngoconjunctival Fever (PCF)

- Serotypes 3, 7
- Follicular conj'itis + fever + HA + pharyngitis
- Looks like the flu

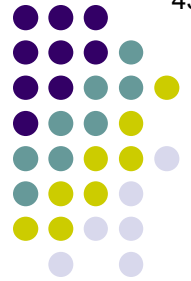
Epidemic Keratoconjunctivitis (EKC)

- Serotypes 8, 19, 37
- May be preceded by URTI
- 2nd eye involved in 3-7 days
- Stages:

1st URTI
 ↓ 1 week
 2nd Severe follicular conjunctivitis
 ↓ 1-2 weeks
 3rd Subepithelial infiltrates (SEI)

(Cause photophobia and ↓ VA; can persist for unit of time)

Adenoviral Conjunctivitis



Transmitted via...

- ...close contact with ocular/respiratory secretions
- ...fomites
- ...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

- Mild, transient disease
- No care sought

Pharyngoconjunctival Fever (PCF)

- Serotypes **3, 7**
- Follicular conj'itis + **fever** +
HA + pharyngitis
- Looks like the **flu**

Epidemic Keratoconjunctivitis (EKC)

- Serotypes **8, 19, 37**
- May be preceded by **URTI**
- 2nd eye involved in **3-7 days**
- Stages:

1st **URTI**

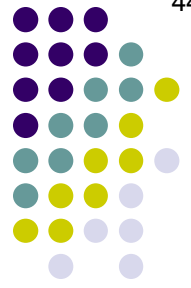
↓ 1 week

2nd **Severe follicular conjunctivitis**

↓ 1-2 weeks

3rd **Subepithelial infiltrates (SEI)**

(Cause photophobia and ↓ VA; can persist for **years**) ←



Adenoviral Conjunctivitis

Transmitted via...
 ...close contact with ocular/respiratory secretions
 ...fomites
 ...contaminated swimming pools

Three ocular syndromes

Follicular conjunctivitis

- Mild, transient disease
- No care sought

Pharyngoconjunctival Fever (PCF)

- Serotypes **3, 7**
- Follicular conj'itis + **fever** + **HA** + **pharyngitis**
- Looks like the **flu**

Epidemic Keratoconjunctivitis (EKC)

- Serotypes **8, 19, 37**
- May be preceded by **URTI**
- 2nd eye involved in **3-7 days**
- Stages:

1st **URTI**
 ↓ 1 week
 2nd **Severe follicular conjunctivitis**
 ↓ 1-2 weeks
 3rd **Subepithelial infiltrates (SEI)**

--**Management**

-
-
-

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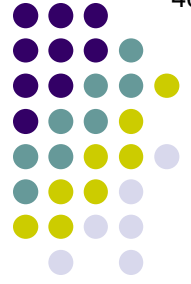
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--Management

--Supportive: ATs, cool compresses
--Membranes: Peel 'em; +/-steroids
--SEI: +/-Steroids



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Follicular conjunctivitis

**Mild disease, rarely seen
in clinic**

Pharyngoconjunctival Fever (PCF)

Looks like the flu

Epidemic Keratoconjunctivitis (EKC)

**Bilateral follicular conj'itis +
petechial hemorrhages +
conj membranes +
corneal involvement +
lymphadenopathy**

Adenoviral conjunctivitis: tl;dr