Adenoviral Conjunctivitis

Transmitted via...

1.
Adenoviral Conjunctivitis

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

Three ocular syndromes

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?  ?  ?
Adenoviral Conjunctivitis

Three ocular syndromes

- Follicular conjunctivitis
- Pharyngoconjunctival Fever (PCF)
- Epidemic Keratoconjunctivitis (EKC)

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

Transmitted via...
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Three ocular syndromes

Follicular conjunctivitis

Pharyngoconjunctival Fever (PCF)

Epidemic Keratoconjunctivitis (EKC)

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- Follicular conjunctivitis
  - Mild, transient disease

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Of the adenoviral syndromes, only EKC has significant K involvement.
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- Serotypes 8, 19, 37
- May be preceded by URTI
  
  *(URTI = upper respiratory tract infection)*

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**Epidemic Keratoconjunctivitis (EKC)**
- Serotypes 8, 19, 37
- May be preceded by URTI
- 2nd eye involved in amount of time

Transmitted via...
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- 2nd eye involved in 3-7 days
- Stages:
  1st

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- 2nd eye involved in 3-7 days
- Stages:
  - 1st URTI
  - 1 week

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- 2nd eye involved in 3-7 days
- Stages:
  - 1st URTI
  - 2nd

Transmitted via...
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URTI: Upper Respiratory Tract Infection
Adenoviral Conjunctivitis

Three ocular syndromes

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

Transmitted via...
- close contact with ocular/respiratory secretions
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Adenoviral Conjunctivitis

EKC: Follicular conjunctivitis
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- Serotypes 8, 19, 37
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- 2nd eye involved in 3-7 days
- Stages:
  1. URTI → 1 week
  2. Severe follicular conjunctivitis

*Transmitted via...*
  - Close contact with ocular/respiratory secretions
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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-conjunctival heme
- Conjunctival membranes

What nonocular sign might be found?

- Preauricular lymphadenopathy
Adenoviral Conjunctivitis

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EKC: Heme
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EKC: Preauricular lymphadenopathy
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--Stages:
1st URTI
1 week
2nd Severe follicular conjunctivitis
1-2 weeks
3rd two words

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

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EKC: Subepithelial infiltrates
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- 2nd eye involved in 3-7 days
- Stages:
  1. **1st URTI**
     - 1 week
   2. **2nd Severe follicular conjunctivitis**
     - 1-2 weeks
   3. **3rd Subepithelial infiltrates (SEI)**

Transmitted via...
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(Cause photophobia and ↓ VA; can persist for ...)
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- Stages:
  1st URTI 1 week
  2nd Severe follicular conjunctivitis 1-2 weeks
  3rd Subepithelial infiltrates (SEI) 1-2 weeks

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

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  3rd Subepithelial infiltrates (SEI)

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

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

<table>
<thead>
<tr>
<th>Follicular conjunctivitis</th>
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<th>Epidemic Keratoconjunctivitis (EKC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mild disease, rarely seen in clinic</td>
<td>Looks like the flu</td>
<td>Bilateral follicular conj’itis + petechial hemorrhages + conj membranes + corneal involvement + lymphadenopathy</td>
</tr>
</tbody>
</table>

**Adenoviral conjunctivitis: tl;dr**