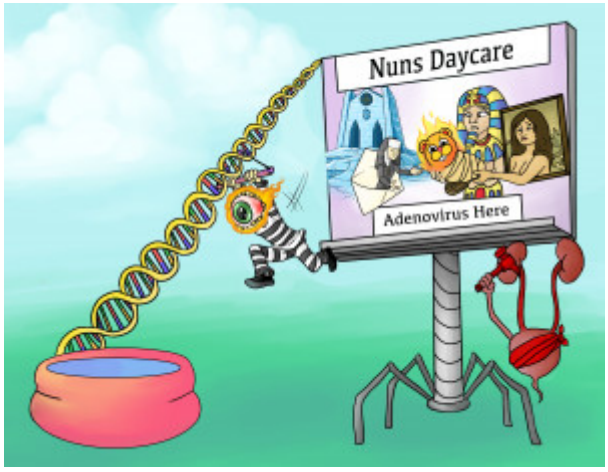
Adenovirus

Adenovirus is a non enveloped double stranded linear DNA virus that can cause a variety of diseases. Adenovirus infections most commonly infect the respiratory system but can also affect the GI tract, cause conjunctivitis as well as cystitis. Pharyngoconjunctival fever is a specific presentation of adenovirus that includes a high fever, pharyngitis, and conjunctivitis. It is often found in summer camps and can be spread via public swimming pools and daycare centers. A typical question one might find on exams: Two days after summer swim camp, a seven year old boy presents to his school nurse complaining of iritated watery eyes. On exam, the nurse discovers bilateral conjunctival injection. She notes that several other children have presented with similar symptoms since the swim camp opened up. Which of the following features is true of the virus most likely affecting the children at school? Answer: Non-enveloped linear double stranded DNA virus.



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Characteristics

Non-enveloped
Nun-envelope
Many viruses have viral envelopes covering their protein capsids. Adenoviruses do not.

Icosahedral
Ice-cathedral
Adenovirus has an icosahedral capsid with 20 identical, equilateral triangular faces.

Linear
Line
This genome is linear as opposed to circular.

Double Stranded DNA
DNA Double-helix
The Adenovirus genome consists of double-stranded DNA.

Signs and Symptoms

Pharyngitis
Pharaoh
Adenovirus can present with a sore throat caused by pharyngitis.

Conjunctivitis
Convict-eye-on-fire
This virus can cause conjunctivitis, which is inflamed eyes, usually without pus formation.

Fever
Fever-beaver
Adenovirus can cause a high fever that lasts 4-5 days.

Summer Swimming
Swimming-pool
Adenovirus is often found in summer camps and referred to as pool fever because it can be spread in public swimming pools.

Day Care Centers
Day Care-advertisement
Adenovirus is commonly spread in day care centers.

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Acute Hemorrhagic Cystitis

Bladder with Hemorrhage-hammer

Hemorrhagic cystitis is defined by dysuria, hematuria, and hemorrhage. Adenovirus is the most common cause of acute viral hemorrhagic cystitis in children.

Pneumonia

Nude-Mona

Adenovirus can cause viral pneumonia.

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