Adenoviruses: Adenovirus is a common virus that can cause a range of cold- or flu-like infections. Researchers have identified about 50 types of adenoviruses that can infect humans. Adenovirus infections occur throughout the year, but they tend to peak in the winter and early spring. Infections range from mild to severe, but serious illness doesn't happen often.

Who do adenoviruses affect?

Adenoviruses can affect people of all ages. But they're most common in children younger than 5 years old. The spread of adenoviruses in babies and young children occurs often in daycares. Babies and children in this setting come into close contact with one another. They're also more likely to put objects in their mouths and less likely to wash their hands frequently. to confirm an adenovirus diagnosis. They may swab your nose or throat to collect a sample of your mucus.

Symptoms of Adenoviruses:

1. Cough.
2. Fever.
3. Runny nose.
4. Sore throat (pharyngitis)
5. Pink eye (conjunctivitis)
6. Ear infection (otitis media)
7. Swollen lymph nodes.
8. Chest cold (bronchitis)
9. Pneumonia.

Are adenoviruses contagious?

Adenoviruses are very contagious. They can easily spread through:

1. Close contact: The virus can spread from person to person through shaking hands, kissing or hugging.
2. The air: The virus can spread through sneezing and coughing. Respiratory droplets released in sneezes and coughs can transfer to other people through the air.
3. Surfaces and objects: After touching a contaminated surface, you can get the virus by touching your eyes, nose or mouth before washing your hands.
4. Poop (stool): The virus can spread through the stool of an infected person. For example, you can be infected while changing your baby's diaper.
5. Water: The virus can spread through unchlorinated water. For instance, if a person infected with an adenovirus swims in a swimming pool without

adequate chlorine, they can spread the virus. This type of spread isn't common though.

Is there an adenovirus vaccine?

No adenovirus vaccine is currently available to the general public. The military uses a vaccine for certain types of the virus. Only military personnel who are at a higher risk of infection receive the vaccine. The FDA hasn't approved the vaccine for use outside the military.

The adenovirus vaccine contains a live virus that can be shed in stool. That means it can be released from your body. If transmitted, the virus can cause illness in other people. Researchers haven't studied the safety and effectiveness of the vaccine in the general population yet. They also haven't tested it on people with weakened immune systems.

Poxviruses: Poxviruses are brick or oval-shaped viruses with large double-stranded DNA genomes. Poxviruses exist throughout the world and cause disease in humans and many other types of animals. Poxvirus infections typically result in the formation of lesions, skin nodules, or disseminated rash.

Pathogenesis Infection is usually caused by invasion through broken skin and in most cases remains localized. Human monkeypox is acquired by contact or by airborne transmission to the respiratory mucosa. Initial viremia during the incubation period spreads infection to internal organs; a second viremia then spreads the virus to the skin.

Diagnosis The diagnosis is often suggested by the presence of skin lesions and a history of contact with human or animal cases. Diagnosis is confirmed by electron microscopy and/or virus isolation.