

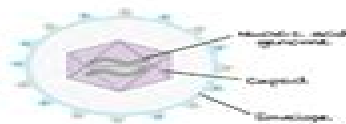
General characteristics of Virus

- Smallest infectious agent - Measures 20-300nm in diameter
- HAPLOID except: Retrovirus
- Either DNA or RNA in nature
- Resistant to antibiotics
- Obligate intracellular organisms
- If virus is envelope, it is either sensitive while naked is either resistant

Naked Virus: Picornavirus, Reovirus, Calicivirus, Papovavirus, Parvovirus and Adenovirus (PRCPPA)

Parts of a virion

1. Capsid
Protein shell or coat that encloses the nucleic acid
2. Nucleic Acid
DNA (deoxyribonucleic acid) or RNA (ribonucleic acid)
3. Nucleocapsid
Nucleic acid + Capsid (Enclosed)
4. Capsomeres
Morphological units seen on the surface of particles
5. Envelope
A lipid containing membrane that surrounds some viral particles
6. Structural Units
Protomers are the smallest functional unit equivalent to building units of the capsid.



Infectious Cycle:

1. Attachment/Adhesion – finding of suitable host cell to invade –viral tropism
2. Penetration – engulfment of virus through endocytosis; direct fusion
3. Uncoating – release of viral content
4. Biosynthesis – replication & translation occurs
5. Assembly/maturation
6. Release – to the extracellular fluid and repeat the cycle



Cell Cultures

- most widely used for virus isolation (shell vial).
- Types of cell cultures:
- A. Primary cell culture - derived from animal tissues
 - example: Monkey Kidney – excellent for Myxovirus
 - B. Semi-continuous cell culture – derived from embryonic tissues
 - e.g., Human embryonic kidney and skin fibroblasts
 - C. Continuous cell culture - derived from tumor cells/malignant tissues
 - e.g., HeLa, Vero, Hep2, LLC-MK2, MDCK

DNA VIRUS

GENERAL RULE

- All are ds-DNA Except: Parvovirus
- All are icosahedral Except: Poxvirus(Complex)
- All are enveloped Except: Papovavirus, Adenovirus, Parvovirus
- All multiply in nucleus Except: Poxvirus (cytoplasm)

Largest is Poxvirus while smallest is Parvovirus

1. Adenovirus

Mastadenovirus

- Grapelike cluster cytopathic effect
- Pathogenic to human (w/ 52 serotypes)
- Respiratory and Gastrointestinal are common clinical manifestation
- o Acquired through contaminated respiratory droplets, stool and fomite

Serotypes 40 and 41	Gastroenteritis in children
8	Conjunctivitis
3 and 7	Pharyngitis
4 and 7	Respiratory

Disease Epidemic in Military

2. Hepadnavirus

- Dane particle or Australian antigen – infectious unit
- Associated with acute hepatitis but may lead to Cirrhosis and Liver carcinoma
- Humans are the only source of the virus

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Scott C. Dulebohn



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