

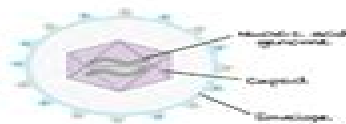
General characteristics of Virus

- 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

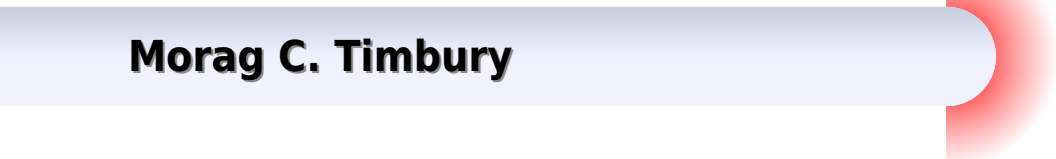
Disease Epidemic in Military

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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Morag C. Timbury



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web aug 6 2023 seperti apa definisinya pengertian kinerja pegawai karyawan kinerja karyawan merupakan gambaran tentang kemampuan keterampilan dan hasil kerja yang diperlihatkan oleh seorang karyawan dalam menjalankan tugas dan tanggung jawabnya di

kinerja karyawan pengertian indikator dan faktor yang - Aug 03 2022

web apr 30 2023 apa saja indikator dan faktor yang mempengaruhi kinerja seorang karyawan mari kita simak bersama

ulasan lengkapnya di bawah ini pengertian kinerja karyawan kinerja karyawan adalah ukuran sejauh mana seorang karyawan berhasil mencapai tujuan tujuan dan standar yang telah ditetapkan oleh perusahaan atau

7 contoh indikator penilaian kinerja karyawan hrd perlu tahu - Jan 28 2022

web jul 5 2023 contoh indikator penilaian kinerja karyawan ini memiliki banyak manfaat selain sebagai timbal balik kepada karyawan penilaian karyawan juga bisa membantu perusahaan dalam mengambil keputusan manajemen

indikator penilaian kinerja karyawan pengertian contoh dan - Oct 05 2022

web jun 12 2023 absensi kehadiran setelah rasa inisiatif hal penting selanjutnya yang perlu dijadikan indikator penilaian kinerja karyawan yaitu mengenai absensi karyawan dengan melakukan penilaian terhadap absensi kehadiran anda dapat mengetahui siapa saja karyawan yang sering cuti atau izin tidak masuk kerja

mengenal apa itu indikator kinerja karyawan dan manfaatnya - Feb 26 2022

web jul 18 2023 pengertian indikator kinerja karyawan adalah sebuah tools yang digunakan untuk menilai mengukur tingkat pencapaian karyawan dalam melaksanakan tugas dan tanggung jawabnya di tempat kerja indikator kinerja karyawan bertujuan untuk mengukur produktivitas efisiensi efektivitas dan kontribusi karyawan terhadap tujuan organisasi

4 jenis dan 17 indikator penilaian kinerja karyawan - Jul 02 2022

web oct 18 2022 indikator penilaian kinerja karyawan adalah kunci untuk melacak seberapa baik karyawan melaksanakan pekerjaan mereka tim hr harus memiliki metode untuk mengukur produktivitas dan efisiensi karyawan melacak kinerja karyawan bermanfaat bagi organisasi dan karyawan secara keseluruhan

10 indikator penilaian kinerja pegawai glints for employers - Dec 07 2022

web dec 10 2020 10 indikator penilaian kinerja pegawai anggita dwinda december 10 2020 unsplash pada dasarnya evaluasi kinerja karyawan yang dilakukan perusahaan bukan hanya upaya untuk memelihara tingkat produktivitas karyawan tapi juga berguna untuk pemberian bonus atau reward atas capaian karyawan