

### common cold group:

- 1- Rhinoviruses
- 2- Enteroviruses except poliovirus
- 3- Orthomyxoviridae type suiii ( C ) 😊😊
- 4- four types of Coronaviridae ( 229E, OC43, HKU1 and NL63)
- 5- Parainfluenza viruses
- 6- Respiratory syncytial virus
- 7- Metapneumovirus

### meningitis group:

- 1- Enteroviruses all 5 types and , can cause Acute febrile illness
- 2- Herpesviruses 1,2 can cause herpes meningitis
- 3- Complications of chickenpox can occur including meningitismeningitis
- 4- Mumps

### encephalitis group :

- 1- Echoviruses, Enteroviruses and , parechoviruses
- 2- Herpesviruses 1,2 can cause Herpes encephalitis
- 3- Rhabdoviridae ( virus Rabies)
- 4- Measles

### Pneumonia group:

- 1- Complications of chickenpox can occur including pneumonia
- 2- reactivation of Cytomegalovirus in immunosuppressed patients
- 3- some serotypes of adenoviruses
- 4- Orthomyxoviridae
- 5- Respiratory syncytial virus
- 6- Measles can cause pneumonia by secondary bacterial infection

### gastroenteritis group :

- 1- reactivation of Cytomegalovirus in immunosuppressed patients
- 2- adenoviruses
- 3- Rotavirus The most common cause of gastroenteritis in infants [ Live-attenuated vaccine is available ]
- 4- Norovirus The most common cause of gastroenteritis in adults
- 5- Astrovirus
- 6- Sapovirus

#### Negative sense, single-stranded RNA:

- 1- Paramyxoviridae
- 2- Orthomyxoviridae
- 3- Hepatitis D virus
- 4- Rhabdoviridae

Kaposi sarcoma herpesvirus (HHV-8) Epidemiology: The prevalence is low in the general population. The prevalence is high among male homosexuals

Parvoviridae Single stranded DNA  
الوحيد

Rotavirus double-stranded RNA  
الوحيد

adenoviruses are the most common causes of pharyngitis

Orthomyxoviridae (Influenza viruses) SEGMENTED GENOME

Two types of Coronaviridae caused severe acute respiratory distress syndrome: SARS-CoV-1 and MERS-CoV (Middle East respiratory distress syndrome coronavirus)

Measles infection causes immune suppression that is transient

The most common complication of measles is otitis media . Parainfluenza viruses also can cause otitis media 😊

Measles cause: encephalitis, postinfectious encephalomyelitis, and subacute sclerosing panencephalitis

diagnostic of measles is Koplik spots  
يعنى من خلالها بقدر أعرف إنه الشخص معاه مرض الحصبة



salivary glands enlargement in Mumps patient  
بتساعد في تشخيص مرض النكاف

### Epidemic parotitis (Mumps)



Mumps can lead to sterility (العقم) through inflammation in testis or Ovarian Respectively orchitis , oophoritis .

congenital infection of rubella cause : cataracts, cardiac abnormalities, and deafness

Congenital infection of Cytomegalovirus ( HHV-5) cause : deafness, blindness, mental retardation

Live-attenuated vaccine MMR (measles mumps rubella vaccine)  
هاي أهم حاجة تطلع من المادة عارفها مهم جدًا و يستخدم حاليا في المستشفيات