

Micro Team 429©

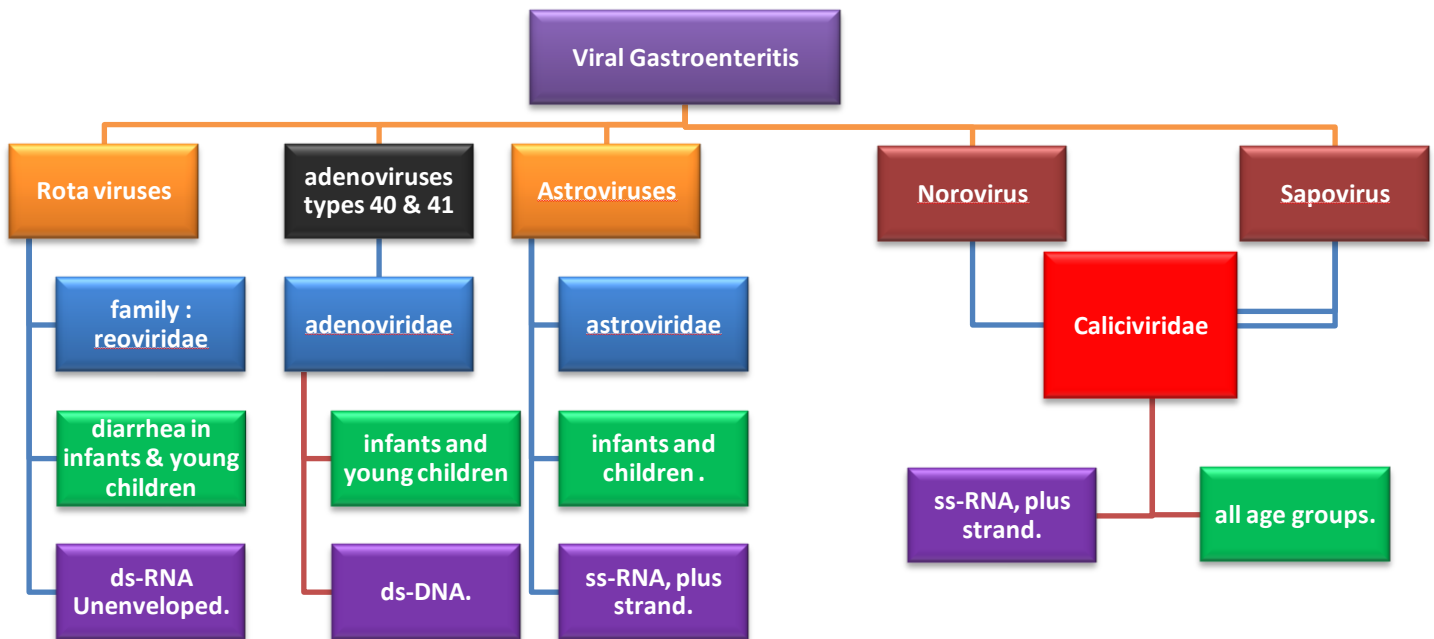
Presents :

Viral gastroenteritis (viral diarrhea)

General features



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- The second most common infection after the respiratory tract
- Rota, enteric adeno, astro, noro & sapo viruses are the major cause of viral gastroenteritis . All are **unenveloped**
- Mainly disease of infants and young children .
- Mostly self limiting disease. Recovery is usual .
- watery diarrhea (no blood) , vomiting and abdominal pain are the major symptoms.
- Viruses causing diarrhea replicate in the epithelial cells of the small intestine (top of the villi) and shed freely in stools.
- Laboratory diagnosis by detection of these viruses in stool .
- Nucleic acid (all of them have RNA except adenoviruses has dd DNA)

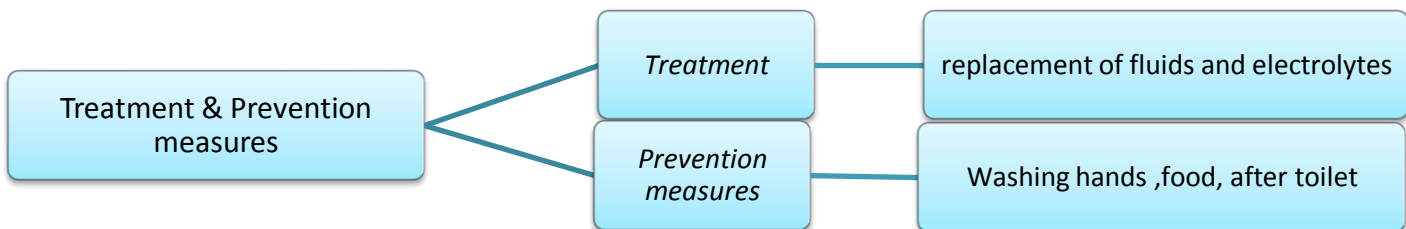
Transmission :

By the fecal oral route , Person to person through contaminated hands, Eating uncooked fruits and vegetables and salads , Drinking water contaminated.

- Rotaviruses replicate in the epithelial cells at the tips of the villi (mature cells), that responsible for absorption of fluids and electrolytes lining the small intestine (enterocytes).

Symptoms:

- watery diarrhea (no blood) , vomiting, nausea, abdominal cramping and pain, fever, Duration: 2-7 days.



- *there are vaccine for Rota only and it given orally(Rota Taq & Rotarix), Live attenuated, three doses.*

Lab diagnosis:

- *By detection of these viruses in stool, using EIA, These viruses shed freely in stool.*

THE END :)