

# **Virové gastroenteritidy**

MUDr. Jana Bednářová, PhD.

OKM FN Brno

# Viroví původci průjmů

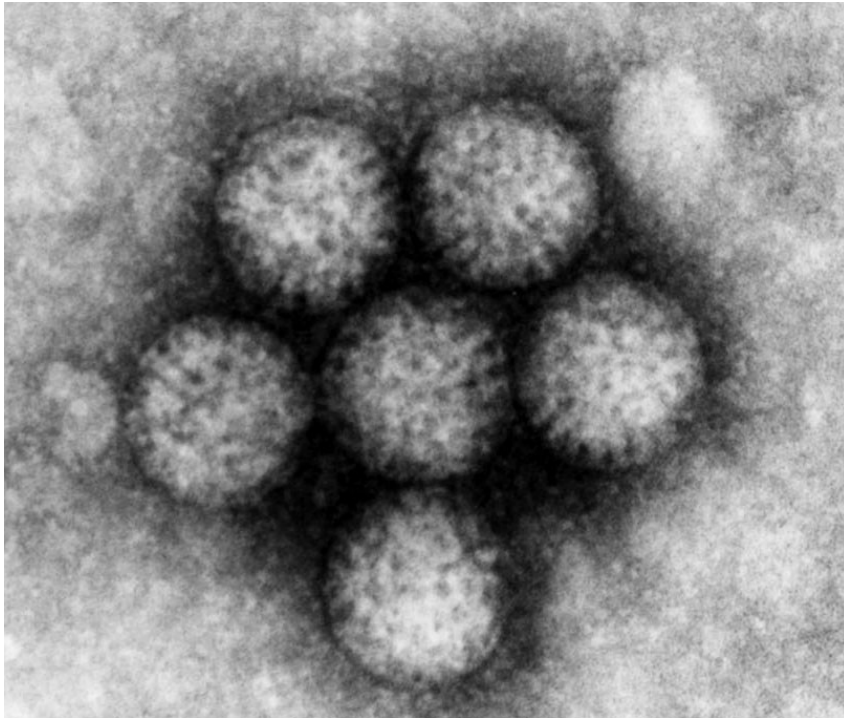
- rotaviry
- kaliciviry
- astroviry
- střevní adenoviry
- enteroviry aj.

# Rotaviry

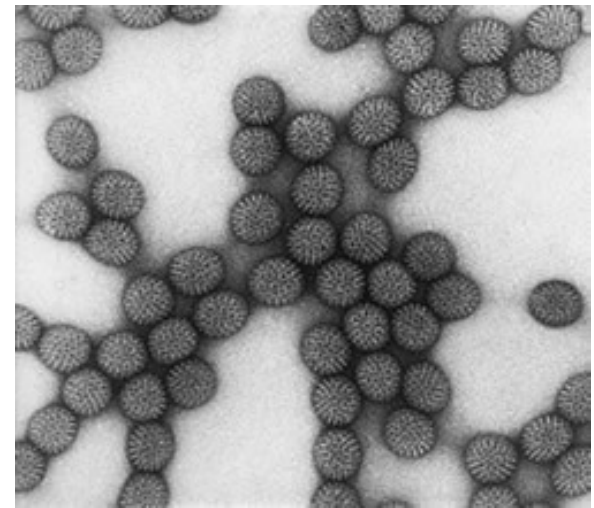
- čeleď *Reoviridae*, rod *Rotavirus*
- Morfologie: neobalené dsRNA-viry, segmentované, 75 nm (lat. *rota* = kolo)
- 11 segmentů RNA – možnost genomického přeskládání (reassortment)
- Kultivace: obtížná
- Patogenita: průjmy kojenců a malých dětí celosvětově
- Epidemiologie: přenos fekálně-orální cestou, respirační cestou ?, výskyt v zimních měsících
- ID: 2 dny

# Rotaviry

- Terapie: symptomatická – rehydratace
- Prevence: živá perorální vakcína, aplikace od 6.týdne věku
- Laboratorní průkaz: průkaz Ag ve stolici latexovou aglutinací, metodou ELISA, PCR

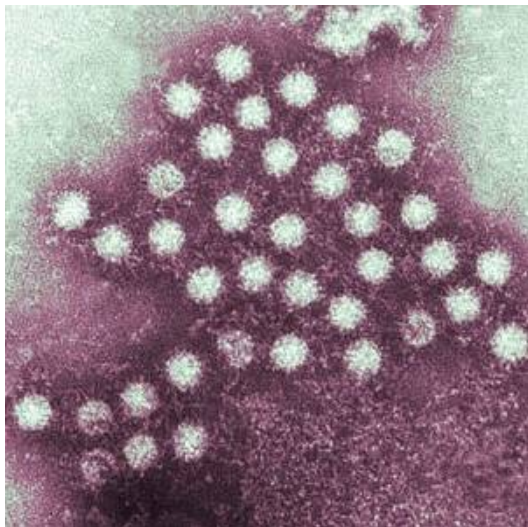


Rotavirové částice



# Kaliciviry

- čeleď *Caliciviridae*, rod *Norovirus*, rod *Sapovirus*
- Morfologie: neobalené ssRNA-viry, nesegmentované, 27 nm (lat. *calix* = pohár)
- Rod *Norovirus*: prototypový kmen Norwalk, Norwalk-like viry
- Patogenita: průjmy všech věkových skupin, přenos fekálně-orální cestou, vektor voda (koupaliště), potraviny
- Laboratorní diagnostika: průkaz Ag, PCR



## Outbreak Traced to Cheerleaders

Lemonade stand is found to be culprit at shrimp fest

[www.foodsafetyinfosheets.ksu.edu](http://www.foodsafetyinfosheets.ksu.edu)

[www.foodsafetyksu.edu](http://www.foodsafetyksu.edu)



A lemonade stand run by a group of cheerleaders has reportedly been tied to an **outbreak of a virus among at least 48 people** who attended last month's Isle of Eight Flags Shrimp Festival in Fernandina Beach.

Kim Geib, director of disease control and prevention services, was cited as saying the department **determined lemonade was the source of the illnesses** after interviewing 30 of the people who reported falling ill. The illnesses are consistent with other norovirus outbreaks. Nearly all reported stomach distress, including **vomiting and diarrhea**.

**Two of the lemonade-drinkers were hospitalized**, and most of the affected were sick for two to three days.

The health department investigation found the lemonade that caused the illness was served at the Fernandina Beach High School Cheerleaders' booth.



### What you need to know

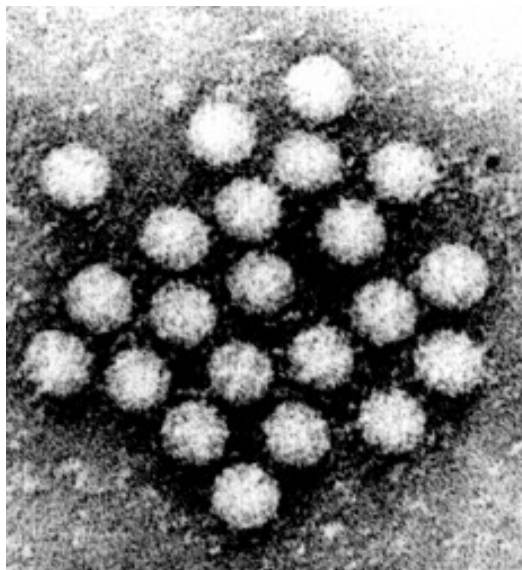
- Health investigators think inadequate hand washing played a role in the illness.
- The virus could have been passed through ice or during preparation of the drink, which used freshly squeezed lemons.
- Food handlers should wash hands with soap and water, dry with paper towels.
- Viruses like this can be passed on through feces and vomit (that's yucky).
- Ill employees have spread the illness in the past.



story from Florida Times Union

For more information contact Ben Chapman, [bchapman@uoguelph.ca](mailto:bchapman@uoguelph.ca) or Doug Powell, [dpowell@ksu.edu](mailto:dpowell@ksu.edu)

# Norovirus



# Astroviry

- čeleď *Astroviridae*
- Morfologie: neobalené ssRNA-viry, nesegmentované, 30 nm (lat. *astrum* = hvězda)
- Patogenita: průjmy dětí do 5 let, častější v zimě
- Epidemiologie: přenos fekálně-orální cestou

