

# Echovirus

They belong to RNA viruses, in the genus Aphovirus and contain 33 different serotypes.

## Disease

- most infections occur inapparently (without clinical manifestations).
- about 5% of infections have clinical symptoms: febrile illness, myalgia, exanthems, meningitis, encephalitis, diseases of the respiratory and digestive system, pericarditis, hepatitis, pancreatitis,...

Most diseases will have severe consequences.

## Pathogenesis

- **gate of entry:** mainly through food, exceptionally through the respiratory system
- multiplication in cells
- hematogenous spread
- **the clinical consequences** depend on the place of attachment of the virus and on the individual sensitivity of the individual.
- the virus is intensively secreted from the infected mucosa.

## Diagnostics

- **incubation** from nasopharyngeal swabs, from stool, or from cerebrospinal fluid on cell cultures from monkey kidneys, or on mice.
- **serological diagnosis** using a neutralization test.

## Epidemiology

The source of the virus is an **infected person**, who is already infectious at the end of the incubation period (3 to 7 days). The disease occurs mainly in summer and early autumn.

## Links

## References

- JIŘÍ, Horáček. *Základy lékařské mikrobiologie*. 1. edition. Praha : Karolinum, 2000. 309 pp. vol. 1. ISBN 80-246-0006-4.