

# Guinea Pig Adenovirus (GPAdV)

## Host species

- guinea pig

## Organotropism

- lungs, upper respiratory tract

## Clinical disease

- dyspnea (rapid, shallow, labored or noisy breathing), a hunched posture, piloerection (roughened coat), eventually sensitivity to touch, hypothermia and death in sporadic cases within 1 hour or 1 day caused by an acute lobar bronchopneumonia (necrotizing bronchiolitis)

## Morbidity and mortality

- Note: The virus alone seems not to be able to elicit the disease; some additional weakening factors are necessary (multi-factorial disease). Nothing is known about the prevalence of the virus in infected colonies. Morbidity is considered to be low and mortality close to 100% (no animal showing clinical dyspnea recovered). Subclinical infection of the upper respiratory tract has recently been found.

## Interference with research

- Sudden death of experimental guinea pigs in sporadic cases (or reaching about 5 % mortality of a batch at the most). No other interference is known.

## Note

- Diagnostic method: beside histology and electron microscopy also PCR (Pring-Akerblom et al., 1997). May be used to detect subclinical infection in the upper respiratory tract (Butz and Homberger, 1997).

## References

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