

# *CANINE HERPESVIRUS*

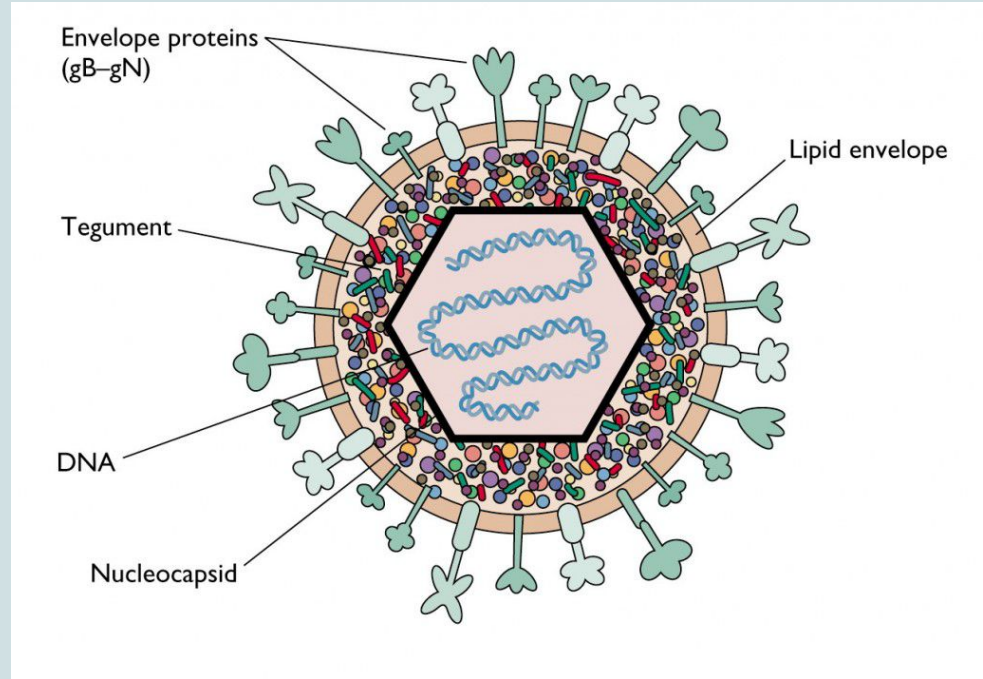


# *What it is?*

- It is a respiratory and genital disease of the dog, caused by a virus called CHV-1 (Canine Herpesvirus-1)
- It is dangerous and fatal for puppies (< 4 weeks especially)
- Mild and asymptomatic for adults

# ETIOLOGY

- DNA virus
- Mild resistance
- With envelope
- Icosahedral capsid

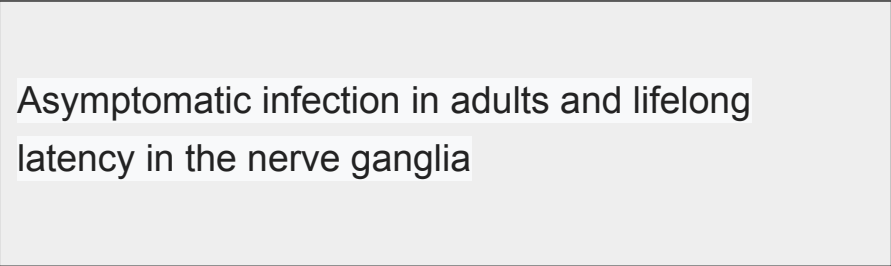
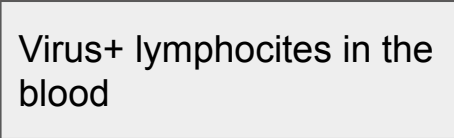
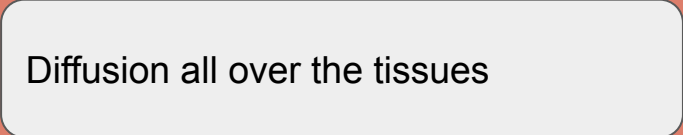
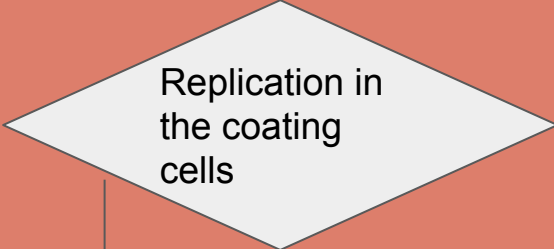
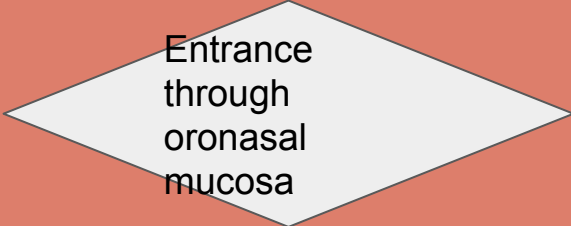


# EPIDEMIOLOGY

- It can affect only dogs (especially in overcrowded situation like doghouses, breeding and so on)
- Transmission ways are:
  1. Inhalation
  2. Ingestion
  3. Coupling
  4. Birth canal
  5. Via transplacental



# PATHOGENESIS



# SYMPTOMS & LESIONS

- Incubation period: 3 days

- Newborn: death

- Puppies:

1. Anorexia
2. Breakdown
3. Vomits
4. Rhinitis with mucopurulent or hemorrhagic nasal discharge
5. Dyspnoea + respiratory symptoms
6. Hypothermia
7. Petechiae
8. Necrosis and bleeding in parenchymes and CNS
9. Death in 24/48 h

# SYMPTOMS & LESIONS

**Some puppies are able to live but with symptoms incompatible with life:**

- 1. Ataxia**
- 2. Blindness**
- 3. Sensory Depression**
- 4. Vestibular-cerebellar deficit**

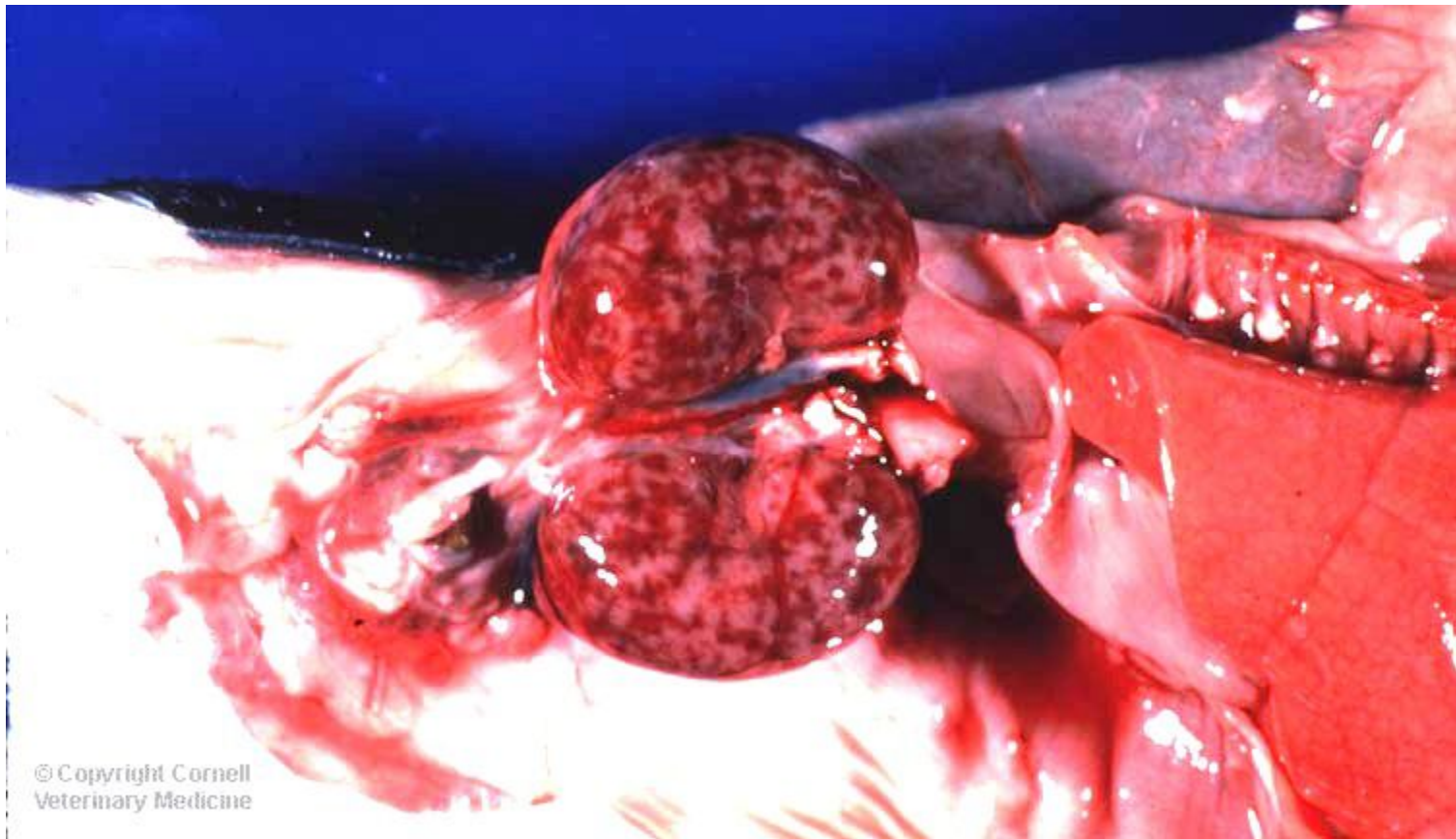
# SYMPTOMS & LESIONS

## Adults:

- Dry cough
- Nasal discharge
- Localized inflammation of the male and female genitalia
- Vaginal mucous hyperemia
- Preputial exudation





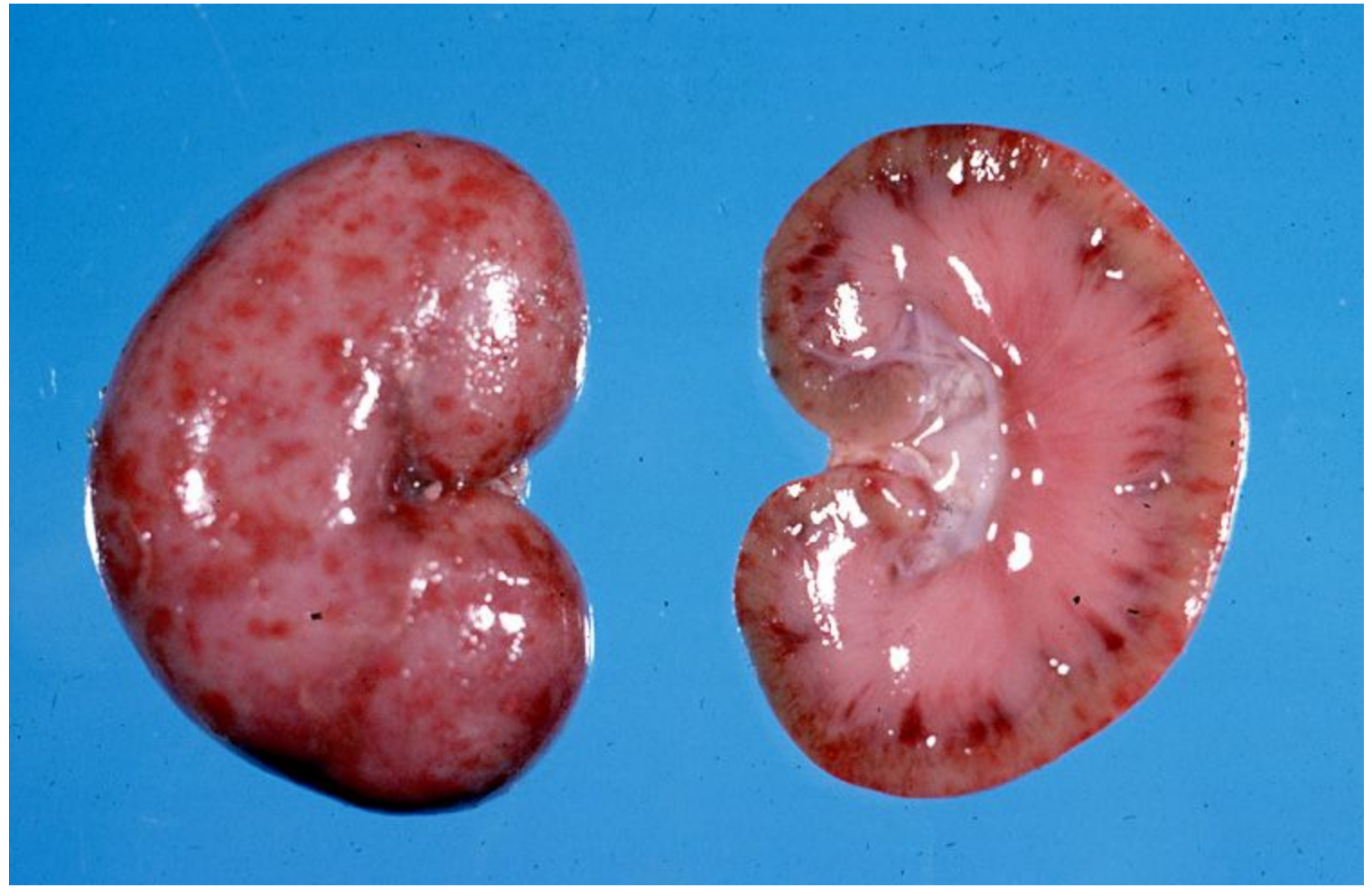


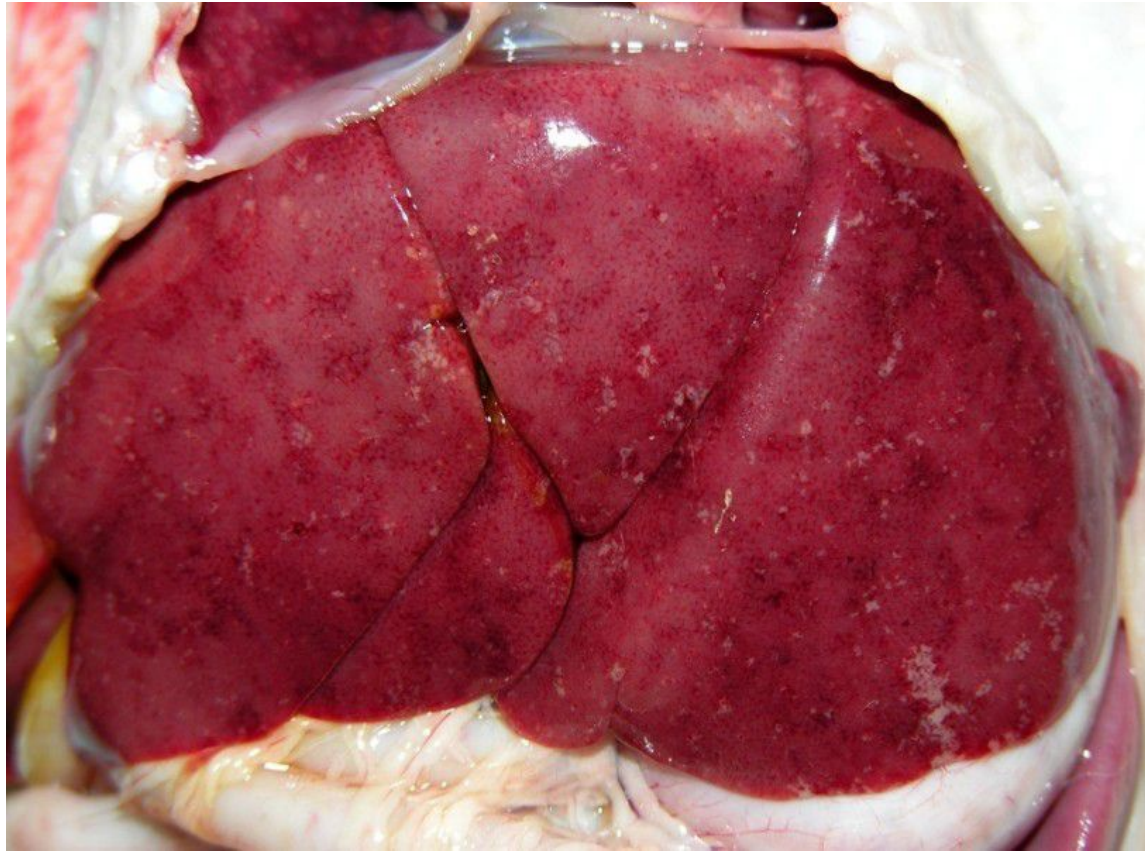
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Veterinary Medicine

Necrotic-haemorrhagic renal outbreaks

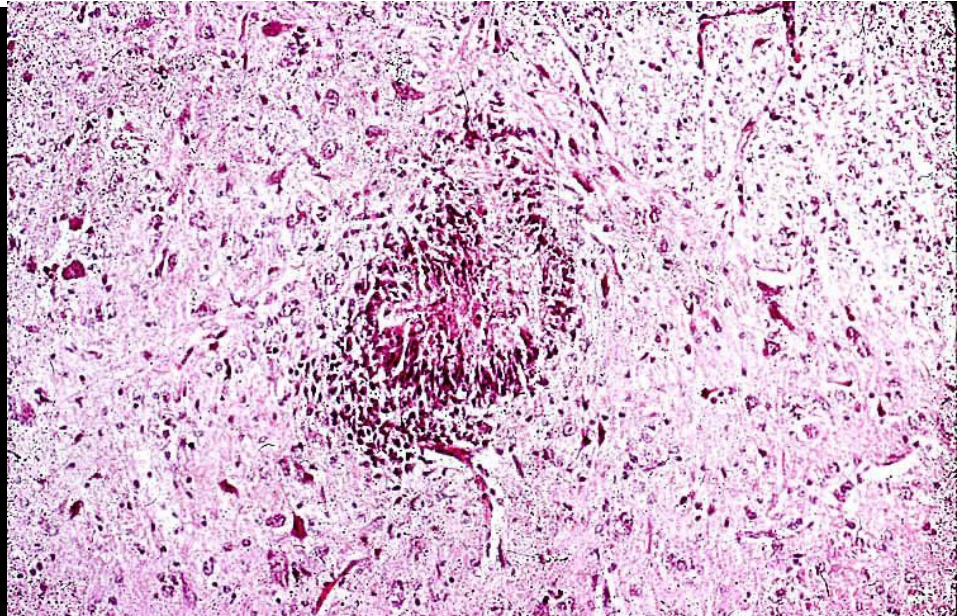
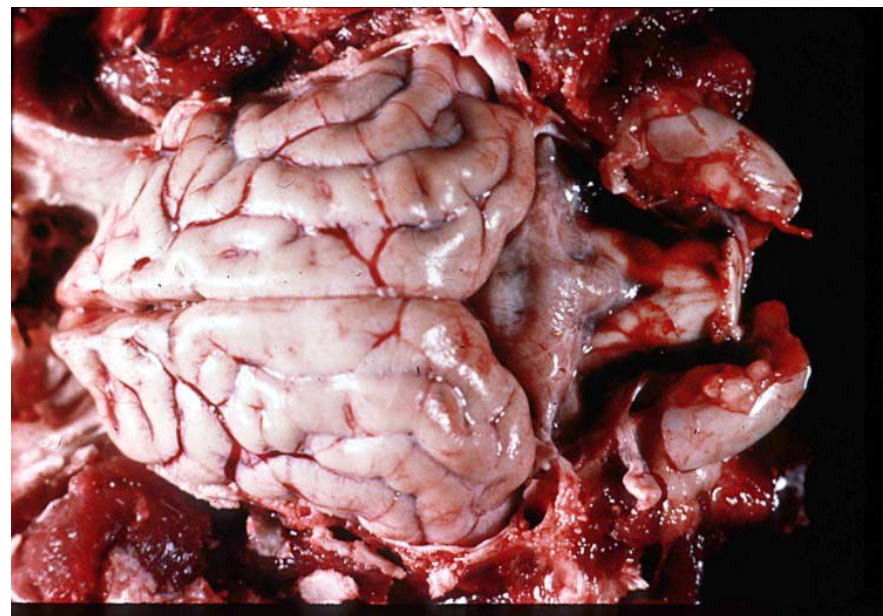


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Liver: multifocal necrosis and haemorrhage



Necrosis on CNS

# THERAPY & PROPHYLAXIS

- Supporting medications based on symptoms
- Antibodies with hyperimmune serum get from bitches healed (but it needs to give to puppies before their symptoms)
- Vaccination
- Avoid overcrowding situation
- Keep high temperature to avoid virus replication (this virus uses natural hypothermia of puppies and this is why the symptoms are worse for puppies than adults)
- PCR is the best way to do diagnosis

A close-up photograph of a person's hand holding a small, rectangular white card. The card is held between the thumb and index finger, with the other fingers visible below. The card has the words "THANK YOU" followed by a smiley face ":)" written in a simple, black, sans-serif font. The background is a plain, light-colored wall.

THANK YOU :)