



SAQs Team

CASE 8

A 20-year-old woman was bitten on the hand by an unvaccinated puppy. Since the injury was a minor one, she ignored the incident. A month after the bite, she had prodromal symptoms in the form of fever, headache and malaise. Following this, she developed fluctuating consciousness, with irritability, episodes of agitation and frequent seizures. The episodes of agitation were characterized by hydrophobia.

● Regarding the case:

1- What's the most likely diagnosis? viral Encephalitis

2- What's the expected infectious organism? Rabies virus

3- Mention 2 features of the this organism?

A) single strand RNA virus. B) Bullet shaped.

4- Mention the route of transmission regarding the patient's history?

Rabid animal bite

5- Mention 2 of the laboratory tests used to confirm your diagnosis.

1. PCR (polymerase chain reaction)
2. IF (Immunofluorescence) of specimen from neck skin

6- what is the most important histopathological feature found?

3. intracytoplasmic inclusions. (Negri bodies)

7- how to prevent this disease? vaccination, wound treatment.

8- Mention 3 reservoirs of this organism ?

1- Raccoons 2- Foxes 3- wolves 4- Bats

● General Questions (From theoretical lectures):

Mention other organisms that can cause viral encephalitis ?

1- Herpes simplex virus 2- Arboviruses 3- enteroviruses

How to diagnose viral encephalitis that is caused by herpes virus?

1- MRI 2- CSF (increased in lymphocytes , Glucose-N and protein) 3-

PCR

How to treat the viral encephalitis that is caused by HSV ?

Acyclovir

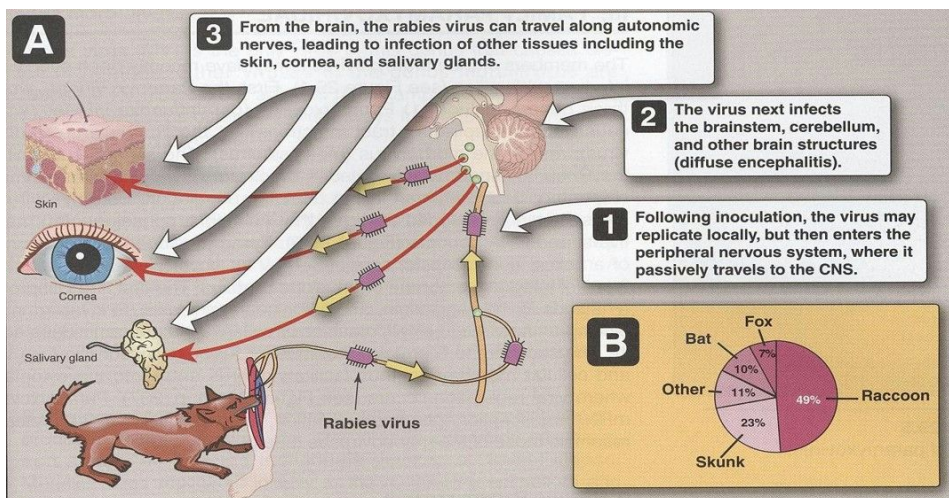
Mention the reservoirs and vectors of Arboviruses ?

Reservoirs : wild birds and mammals

vectors : Mosquito, Tick and sandfly

● Further or important information to know

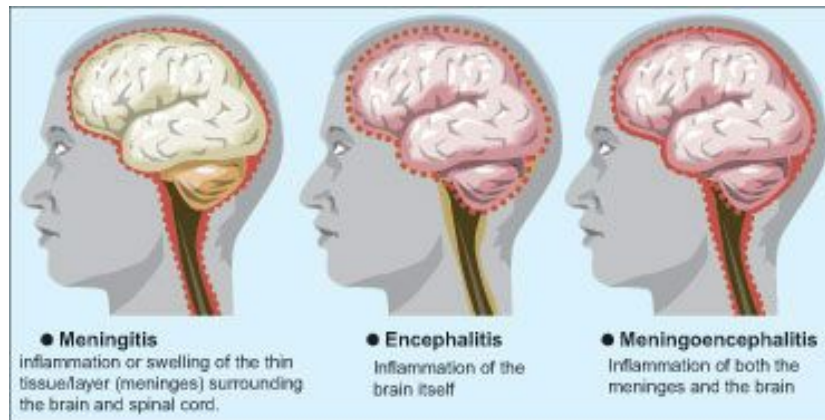
★ Pathogenesis of Rabies virus :-



★ Neurological symptoms of encephalitis:

- ✓ Lcrimation
- ✓ Salivation
- ✓ Hydrophobia
- ✓ Convulsion
- ✓ Coma,
- ✓ Death

★ Difference between encephalitis and meningitis :-



Done By:

★ Abdulrahman AlKaff

★ Sarah N AlJasser

★ Salman AlGazlan

★ Nouf Almasoud