

A word cloud centered around the word 'rabies'. The word 'rabies' is the largest and most prominent, written in a dark brown, bold, sans-serif font. Surrounding it are various other words in different sizes, colors (including dark brown, reddish-brown, orange, and yellow), and orientations. The words are related to the theme of disease, infection, and medical treatment. The background is white with faint, repeating watermarks of a circular logo containing a stylized figure. At the bottom left, there is a decorative graphic consisting of vertical bars of varying heights and widths in shades of orange and red, with a small orange circle above it.

rabies
disease
health
infection
bite
fever
science
blood
microorganism
biology
viral
immunization
prevention
organism
bad
epidemic
people
vaccine
virology
medicine
condition
warn
medical
control
treatment
infectious
lifestyle
caution
fatal
stop
bacteria
virus
symptoms
deadly
injection
bacteria
hemorrhagic
protein
microbiology
microbe
warning
healthcare
africa
microbiology
bite
immunisation
risk
sickness
infected
illness
dog
animal
infected
human
death
germs
hospital
mortality
aggressive
healthy
care
cell

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**Cute,
aren't they?**

**BUT THEY COULD BE
DEADLY!**

ABOUT RABIES

HOW CAN YOU TELL?

You cannot always tell if an animal has RABIES.

Not all animals with rabies look sick or act strange.

BE SAFE!

Do not approach, feed or handle wild or stray animals.

Do not keep pets or mascots when deployed.

If you are **BITTEN** or if an **ANIMAL'S SALIVA** contacts your broken skin, eyes or mouth, immediately wash the area with soap and water and seek medical attention.

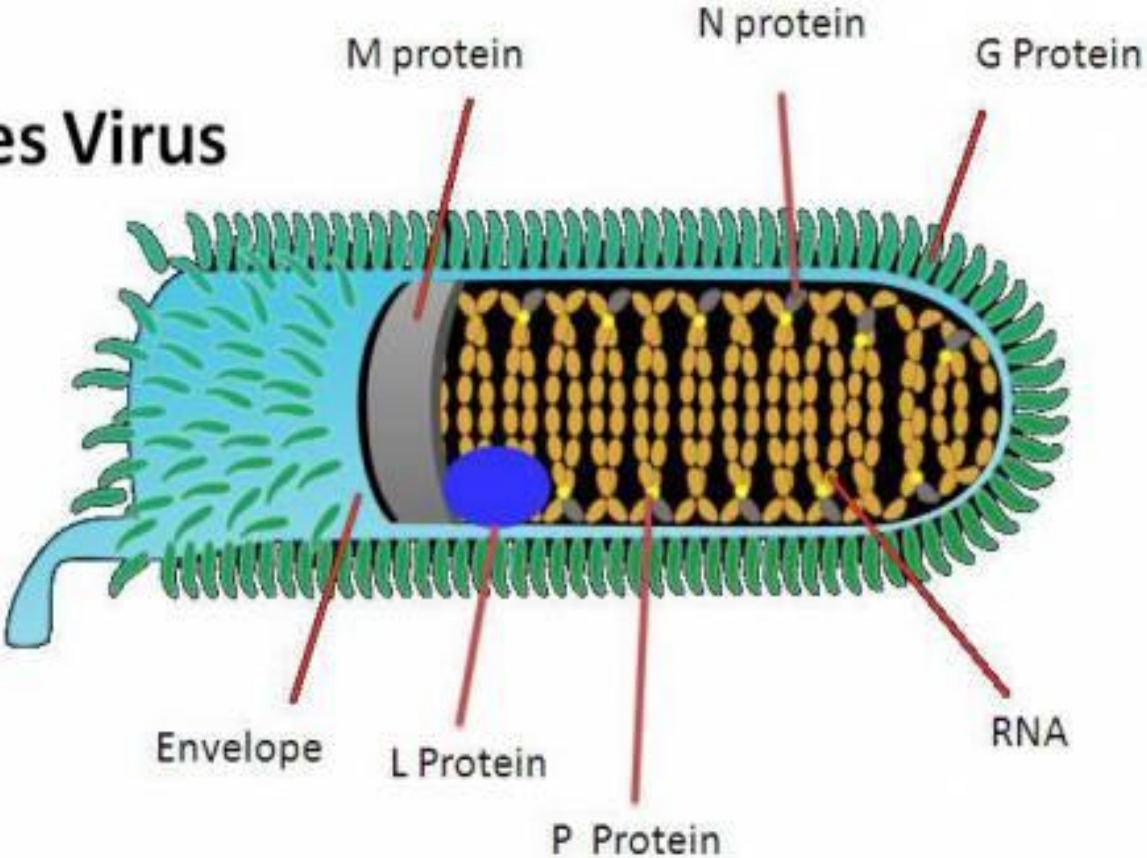


CHARACTERIZATION OF THE VIRUS:

- It is RNA virus.
- Group: Group V ((-)ssRNA).
- family: Rhabdoviridae.
- order: Mononegavirales.
- Genus: Lyssavirus.
- Lyssa comes from, the Greek word of madness, rage, and frenzy) includes the rabies virus traditionally associated with the disease.
- Lyssavirions are enveloped, with bullet shaped geometries.
- Lyssavirions have helical symmetry.



Rabies Virus



Introduction:

- it is a viral disease that causes acute inflammation of the brain in humans and other animals.
- The rabies virus infects the central nervous system by causing encephalitis and death.
- *Worldwide, roughly 97% of rabies cases come from dog bites.*





A dog with rabies virus



A patient suffering from rabies >>

September 28 is World Rabies Day, which promotes information on, and prevention and elimination of the disease.

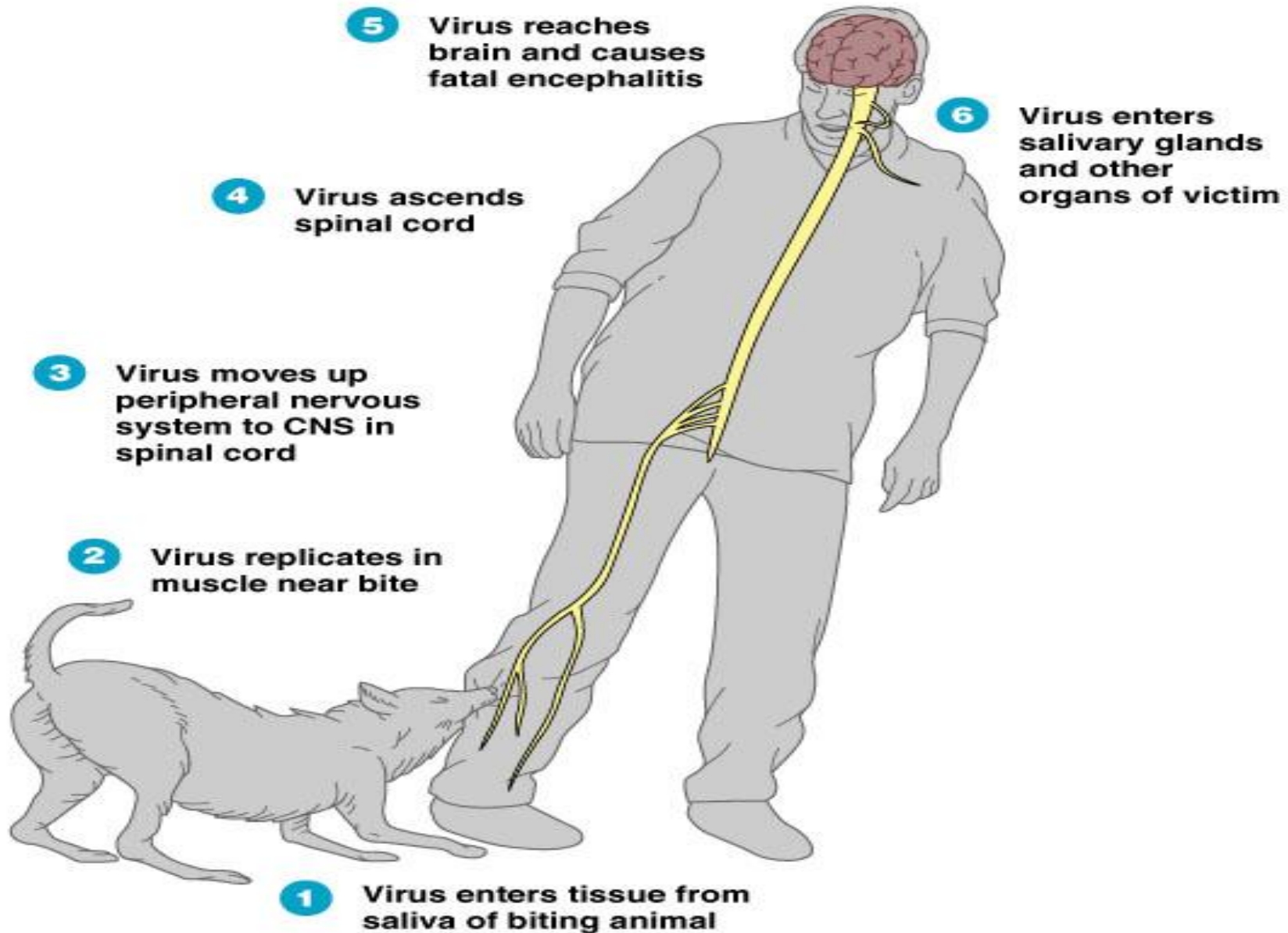


World Rabies Day promotes prevention of deadly disease

Mission to Latin America, survey in U.S. illustrate need for ongoing efforts

courtesy of Chris Rainey/U.S. Navy

MECHANISM OF TRANSMISSION:



SIGNS AND SYMPTOMS:

- The period between infection and the first flu-like symptoms is typically 2 to 12 weeks in humans.
- paralysis.
- anxiety.
- insomnia.
- confusion.
- agitation.
- abnormal behavior.
- muscle weakness.
- loss of sensation.



PREVENTION:

- Vaccinating dogs, cats, against rabies.
- Keeping pets under supervision.
- Not handling wild animals or play with them.
- Contacting an animal control officer upon observing a wild animal, especially if the animal is acting strangely.
- If bitten by an animal, washing the wound with soap and water for 10 to 15 minutes,



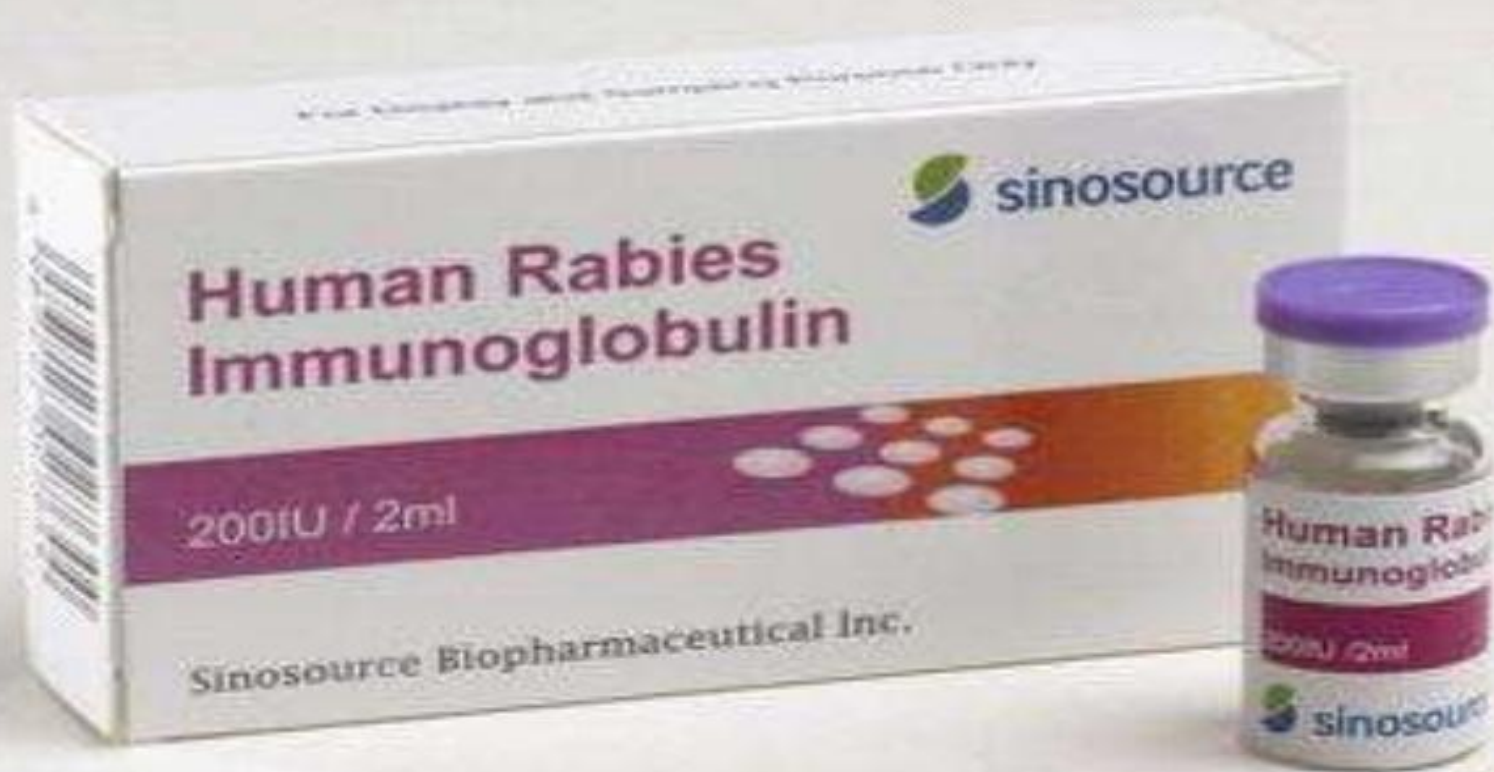
Prevention



All human cases of rabies were fatal until a vaccine was developed in 1885 by Louis Pasteur and Émile Roux. Their original vaccine was harvested from infected rabbits, from which the virus in the nerve tissue was weakened by allowing it to dry for five to ten days.

TREATMENT:

- human rabies immunoglobulin (HRIG)
- Vaccinate dogs against rabies.



Rabies

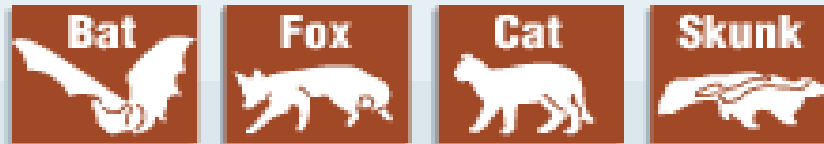
How it spreads

ANIMAL BITE: The farther away from brain, the longer virus takes to spread

VIRUS: Spreads through central nervous system

Common carriers of rabies

Infected animals: Show no fear for humans; act very agitated



Dog: Another common rabies source

Symptoms in humans

- Fever, depression
- Agitation
- Painful spasms followed by excessive saliva
- Death within a week without vaccine

+ **Treatment:** Hospitalization, immune globulin injections, anti-rabies vaccine

+ **Foaming at mouth after drinking:** Produced by spasms in throat

