



## WORLD RABIES DAY – 28 SEPTEMBER

**News:** 28 September is observed as the World Rabies Day. This year's "Breaking Rabies Boundaries" highlights that One Health is not for a selected few but for everyone.

### About Rabies

- Rabies is a vaccine-preventable, zoonotic, viral disease affecting the central nervous system.
- **Transmission:** In up to 99% of the human rabies cases, dogs are responsible for virus transmission.

## RABIES: THE FACTS



### VIRUS TRANSMISSION



Saliva of infected animals



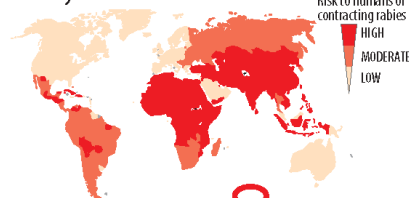
99% of human cases are caused by **dog bites**

The virus attacks the brain  
Rabies is **fatal** once symptoms appear



### FATALITIES

Rabies affects **poor rural communities** mostly in Asia and Africa



Risk to humans of contracting rabies  
HIGH  
MODERATE  
LOW

### TREATMENT



Thorough washing of the wound with soap, and, vaccine injections can avoid symptoms and **save lives**.

**Seek immediate** medical care if bitten.



About **One death** every **9 mins**



**40%** of the victims are children younger than 15

### HOW TO PREVENT RABIES TRANSMISSION FROM DOGS?



Raise public **awareness**

Learn **dog body language**



**NO DOG BITE = NO RABIES**

### VACCINATING DOGS SAVES HUMAN LIVES

**Rabies is 100% preventable**



Vaccinating **70%** of dogs **breaks rabies transmission cycle** in an area at risk

Every dog owner is concerned



28 September

• World Rabies Day •

#rabies

- It is an **RNA virus** of the **rhabdovirus family** that can affect the body in one of two ways.
  - It can enter the peripheral nervous system directly and migrate to the brain.



- It can also replicate within muscle tissue. From here, it enters the nervous system through the neuromuscular junctions.
- Once inside the nervous system, the virus produces acute inflammation of the brain

## Types:

- **Furious or encephalitic rabies:** A person with it is more likely to experience hyperactivity and hydrophobia.
- **Paralytic or “dumb” rabies:** It causes paralysis as a dominant symptom.
- **Vaccines: Newer rabies immunoglobulin (Rabies Ig) and the rabies vaccine are essential for post-exposure prophylaxis (PEP) against rabies.**
  - Rabies Ig is specifically used for **category 3 bites**, which involve severe exposure such as transdermal bites or scratches, and provides immediate protection by supplying ready-made antibodies.
- **Situation in India:** Rabies in India, as of 2021, caused 59,000 deaths, representing 33% of the global total.
  - Notably, 96% of these fatalities resulted from dog bites.
  - The overall economic cost of dog-mediated Rabies was estimated to be \$8.6 billion.