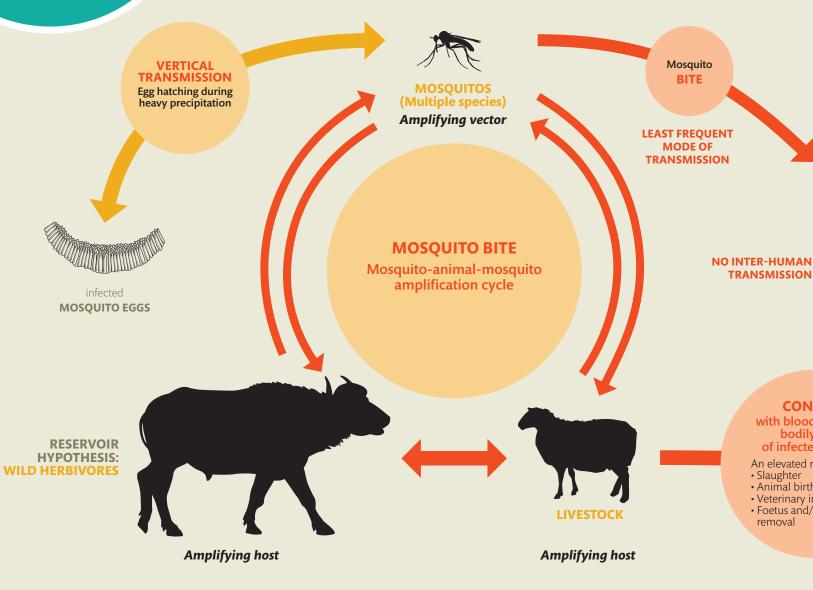


CYCLE OF RIFT VALLEY FEVER VIRUS



Rift Valley Fever Virus is a Phlebovirus





TRANSMISSION

CONTACT

with blood and other bodily fluids of infected animals

An elevated risk during:
• Slaughter

- Animal birth
- Veterinary interventions
- Foetus and/or carcass removal



MOST FREQUENT MODE OF TRANSMISSION













RIFT VALLEY FEVER



RIFT VALLEY FEVER (RVF) DISEASE is a zoonosis caused by a phlebovirus that primarily affects animals but can also cause human infections. SYMPTOMS IN BOTH ANIMALS AND HUMANS can be severe. In areas at risk, livestock vaccination is an effective means of combating this illness.

UNDERSTANDING THE VIRUS CYCLE **OF RIFT VALLEY FEVER**

CONCERNED SPECIES

High susceptibility	Susceptible	Moderate susceptibility	Low susceptibility (Inapparent infection)
Lambs, young goats, puppies, kittens, mice	Calves, sheep	Bovines, goats, buffalos, humans	Camels, horses, pigs, dogs, cats, rabbits

RESERVOIR

Hypothesis of wild herbivores.

VECTORS

Multiple species of mosquito, particularly the Aedes, Culex and Anopheles types can carry the virus.

MODES OF TRANSMISSION

- · Animal to animal transmission occurs through:
- Bites from infected mosquitos.
- Direct animal-animal contact with bodily fluids, particularly contaminated blood (during abortions, licking, or simple
- · Human transmission occurs through:
- Bites from infected mosquitos.
- Direct contact with the blood or organs of infected animals.
 Consumption of raw or undercooked meat and/or unpasteurized dairy products.
- There is no evidence of human to human transmission.

ENVIRONMENTAL FACTORS

Close correlation between RVF and periods favouring mosquito population growth like heavy rainfall and unseasonably warm temperatures related to the Él Niño phenomenon.

CLINICAL SIGNS

abortion rate in pregnant sheep. ~100%

mortality rate of **lambs** and young goats less than 8 days old.

WARNING SIGNS in animals

- **High mortality** without other clear symptoms among very young animals.
- · Large-scale abortion, which can reach up to 100%.
- · High fever (>42°C) accompanied by other signs: anorexia, jaundice, foul and watery diarrhoea, bloody and mucus-filled nasal discharge in animals over two weeks old

PEOPLE AT RISK

People involved in raising animals, including agricultural workers, slaughterhouse staff, and veterinarians are often among the most at risk.



PRINCIPAL SYMPTOMS in humans

- Incubation period: 2 to 6 days.
- · Flu-like symptoms with sudden on-set fever, headaches, muscle pain, and joint pain.
- In certain severe forms of the disease (< 5% of cases), symptoms can also include bloody vomiting, a decrease in or loss of vision, and neurological complications.
- Duration of symptoms: 4 to 7 days.

WHAT SHOULD YOU DO WHEN YOU SUSPECT A CASE IN LIVESTOCK?

- **ENSURE GOOD COORDINATION** between Wildlife Services, Veterinary Services and Public Health Services.
- **ADHERE TO GOOD PRACTICES** for personal protection (gloves, protective clothing), especially when visiting slaughterhouses and delivering veterinary services.
- **COLLECT SAMPLES,** if possible, and send them to the national veterinary laboratory or a reference laboratory.
- **BURY THE CARCASS** sufficiently deep between two layers of quicklime or burn it as described in Article 4.12.6 of WOAH Terrestrial Code.
- **NOTIFY WOAH BY E-MAIL OR FAX OR THROUGH WAHIS** of every confirmed case of a WOAH-listed disease (like RVF) as per Article 1.1.3 of WOAH Terrestrial Code.

WHAT MESSAGES SHOULD YOUR SHARE WITH AT-RISK COMMUNITIES?

- WEAR light coloured, long clothing.
- **APPLY INSECT REPELLENT,** if available, on all exposed skin, as well as on livestock.
- **USE MOSQUITO NETS** treated with insecticide.
- PROTECT YOUR HANDS AND ANY EXPOSED SKIN when handling sick or dead livestock.
- QUICKLY ALERT VETERINARY SERVICES about unexplained animal abortions and/or deaths.
- **AVOID** stagnant puddles of water in and around homes.