

ASK THE VET: PROTECT YOUR CATTLE FROM THREE-DAY STIFFNESS

Three-day stiffness sickness poses a serious threat to livestock, impacting milk production and animal health. Dr Sello Maboe highlights the importance of early detection, supportive care, and preventative strategies to mitigate the disease's effects on cattle

WHAT IS THREE-DAY STIFFNESS SICKNESS?

Three-day stiffness sickness is a viral disease affecting cattle and, to a lesser extent, water buffalo. The disease is named for its typical duration and primary symptoms, characterised by muscle stiffness in the affected animals, which often resolves on its own within three days.

The virus behind this illness is the bovine ephemeral fever virus.

EARLY SIGNS AND SYMPTOMS

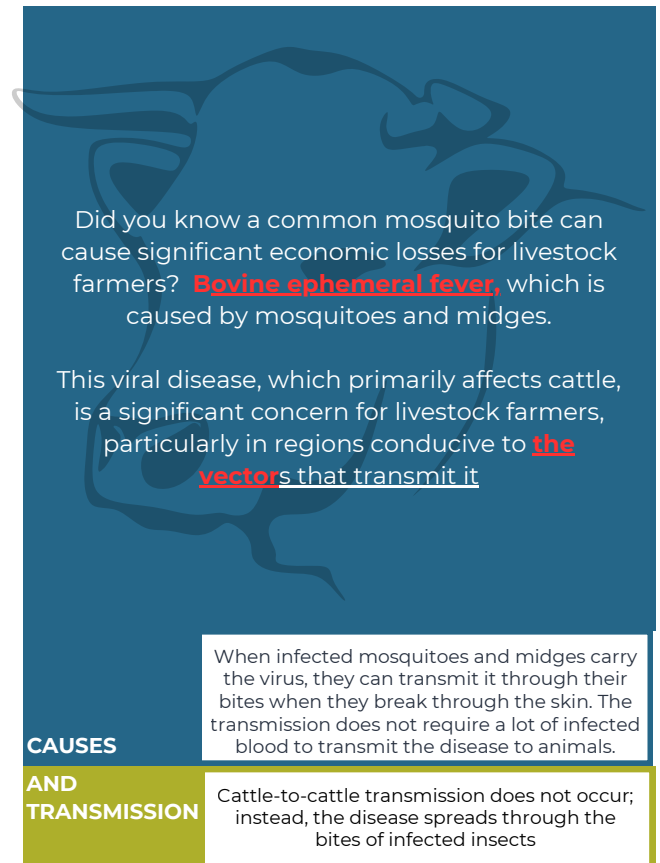
Recognising the early symptoms of three-day stiffness sickness is crucial for timely intervention. Animals experience a sudden onset of fever, and a farmer will probably only pick them up if they have a thermometer and can measure the temperature.

The fever is followed by visible muscle stiffness and a reluctance to move. Some of these animals may actually show some shivering, especially the dairy animals. They may lie down a lot and often struggle to get up.

The severity of symptoms can vary, ranging from mild lameness to severe forms where animals may experience complications.

Dr. Sello Maboe

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Did you know a common mosquito bite can cause significant economic losses for livestock farmers? **Bovine ephemeral fever**, which is caused by mosquitoes and midges.

This viral disease, which primarily affects cattle, is a significant concern for livestock farmers, particularly in regions conducive to **the vectors that transmit it**

CAUSES AND TRANSMISSION

When infected mosquitoes and midges carry the virus, they can transmit it through their bites when they break through the skin. The transmission does not require a lot of infected blood to transmit the disease to animals.

Cattle-to-cattle transmission does not occur; instead, the disease spreads through the bites of infected insects

IMPACT ON HEALTH AND PRODUCTIVITY

Three-day stiffness sickness has significant impacts on the health and productivity of livestock, particularly dairy cattle.

Sick animals **don't eat or produce milk efficiently**, leading to substantial losses in milk production.

In feedlot settings, reduced weight gain is a major concern. When the animals are sick, the nutrition is used to repair damaged tissues first before anything is allocated to growth.

Additionally, sick animals may struggle to access food and water, further impacting their health. Fertility issues are another significant consequence of the disease. Fertility implications in breeding bulls because the fever tends to interfere with mature semen in a bull.

Pregnant animals are also at risk, as the fever can lead to abortions. While the disease does not have a high mortality rate, fatalities do occur, adding to the economic burden on farmers.



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LONG-TERM EFFECTS AND CONTINGENCY PLANNING

Most animals recover fully from three-day stiffness sickness, but there can be long-term effects, particularly related to fertility. Full recovery to fertility is never 100% guaranteed, depending on how severe the infection was. Injuries sustained from frequent falls during the illness can also result in long-term issues, especially in heavy animals like breeding bulls.

Having a contingency plan is crucial for livestock farmers to manage potential outbreaks effectively. Every farmer should at least have facilities that can provide good nursing care for these animals.

This includes shelter from adverse weather and the ability to provide adequate food and water. Regularly turning animals to prevent pressure sores and ensuring they are comfortable with proper bedding are important aspects of care.

PREVENTATIVE MEASURES

Preventing three-day stiffness sickness involves reducing contact between susceptible animals and infected insects.

This can mean either keeping animals away from areas where there's a high population of these insects, such as around standing water.

Using registered insect repellents on animals is another effective measure.

Vaccination is also a critical preventative strategy.

There are registered effective vaccines in the country. The key thing is to actually use them on time, meaning before the high-risk or wet season starts.

Ensuring good nutrition for livestock is also essential, as it helps strengthen their immune systems and enhances their ability to fight off infections.

TREATMENT AND MANAGEMENT

While there is no cure for viral infections like three-day stiffness sickness, **supportive therapy and symptomatic treatment** can significantly aid recovery.

Treat symptomatically. Managing pain is crucial, as it helps animals recover faster and reduces the risk of complications.

If an animal is limping, chances are they are in pain. If you help manage the pain in these animals with anti-inflammatories, they tend to recover quicker and complicate less.

In dairy animals, a drop in circulating calcium levels is common.

Add a calcium supplement, preferably intravenously, but it can also be given orally if their swallowing reflex is intact.

