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# Schmallenberg virus

In the guide


What is the possible impact of the disease?
Clinical signs
What happens when a suspect animal is found?
What happens if the disease is confirmed?
Can people catch the disease?
Could it affect the food I eat?
What can be done to reduce the risks?
Legislation applicable to SBV
Notifiable diseases
Trading Standards
In this update
Key legislation


In this guide, the words 'must' or 'must not' are used where there is a legal requirement to do (or not do) something. The word 'should' is used where there is established legal guidance or best practice that is likely to help you avoid breaking the law.

**This guidance is for Scotland**

Schmallenberg virus (SBV) is named after the German North Rhine town where it was first identified. It was first reported in November 2011, and is known to cause congenital malformations in cattle, sheep, goats, and possibly alpacas and deer.

Thought to be transmitted by midges from mainland Europe, this disease was first confirmed as present in the UK in January 2012, with further cases in 2016-2017, and again from 2021 onwards. Whilst not notifiable, livestock keepers are asked to contact their veterinary surgeon if they suspect SBV in newborn cattle or stillborns.

Schmallenberg virus has been detected in a wide range of countries, including Austria, Belgium, Denmark, Estonia, Finland, France, Germany, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Spain, Sweden, Switzerland and the UK.

## What is the possible impact of the disease?

In terms of how the virus is transmitted, there is no evidence other than from mother to offspring through the placenta or by vector-borne routes such as that of the biting midge, mosquito or tick. The probability of SBV surviving over the winter, and subsequently spreading and manifesting itself in the summer, is difficult to assess due to a lack of data on the disease.

Should the virus survive the winter into the summer months, it is suggested that it is most likely to re-emerge between April and May. It is likely to affect previously unaffected regions, assuming the immunity of previously infected animals, although once again the unknowns make this uncertain.

The European Food Safety Authority (EFSA) produced a report (*'Schmallenberg' virus: Analysis of the Epidemiological Data*), which provides an overall assessment of the impact of the infection on animal health, animal production and animal welfare.

There are many aspects of the disease that remain unknown. Typically, the impact in most affected herds or flocks has been low, although some livestock keepers have reported more significant losses.

## Clinical signs

In adult cattle, acute infection has been known to result in diarrhoea, reduced milk yield and/or fever but with a full and rapid recovery over a period of days and full herd recovery within two to three weeks.

No such clinical signs have been reported in adult sheep.

SBV is also associated with abnormalities in neonates and stillborns following infection of the mother. Such malformations are - to date - reported to include bent limbs, fixed joints, twisted neck or spine, a domed appearance to the skull, short lower jaw and brain deformities. The severity of such symptoms is apparently dependent upon when infection occurred during pregnancy. Some may be born with normal outer appearance, but have nervous symptoms such as blindness, inability to suckle, recumbency or convulsions.

It is expected that SBV will stimulate a strong immune response; therefore, infected animals will be unlikely to suffer from subsequent ill effects and will not normally give birth to further deformed offspring. Uncertainty remains as regards the precise effects.

## What happens when a suspect animal is found?

Whilst this is not a notifiable disease, you are advised and requested to contact your veterinary surgeon if you encounter cases of cattle newborns or foetuses that are stillborn, malformed or are showing symptoms of nervous disease, and you suspect SBV. Veterinary surgeons should then contact the Animal and Plant Health Agency (APHA) if they suspect SBV. The Scottish Government has advised that keepers are able to submit stillborn calves and lambs to Scotland's Rural College (SRUC), where they will undertake SBV testing (PCR, foetal serology and histopathology, as appropriate) as part of the standard investigation work, at no extra cost.

The Scottish Government has confirmed that if keepers are able to submit stillborn calves and lambs, they will be tested for no extra charge.

## What happens if the disease is confirmed?

Details of premises with suspected or confirmed disease are treated as confidential and will not be made public. SBV is not a notifiable disease, so there are no movement restrictions.

For suspected disease in live newborns, dependent upon the severity of the symptoms, your veterinary surgeon is likely to insist on euthanasia to prevent any further suffering.

For acute disease in cattle, again dependent on circumstances, your veterinary surgeon is likely to insist on euthanasia for severely deformed newborns but may monitor symptoms in adult cattle.

It should be remembered that malformations affecting lambs and calves exposed to the virus in pregnancy may lead to birthing difficulties. Excessive force should not be used during the birthing process, as this may risk injury to both the mother and offspring. Consequently, livestock keepers should contact their veterinary surgeon in those cases that cannot be delivered naturally.

You should also consider whether any abnormalities would affect the animals' intended future use and fitness for transport in the long term.

## Can people catch the disease?

In 2012, a Europe-wide assessment concluded that people are unlikely to catch the disease. However, it is recommended that livestock keepers and others in close contact with livestock follow existing good practice measures when working with livestock and abortion material.

In 2017, Department for Environment, Food and Rural Affairs (Defra) guidance advised pregnant women to avoid close contact with animals (including sheep, cows and goats) that are giving birth.

## Could it affect the food I eat?

There is currently no evidence that SBV could cause illness in humans. Any relevant new information about SBV would appear on the Food Standards Agency section of the GOV.UK website.

## What can be done to reduce the risks?

Vaccination may be possible (your veterinary surgeon will be able to provide more information).

Control of midges is unlikely to be effective, given that they are very widespread and appear to be very effective at spreading SBV.

It is important that strict hygiene measures are in place during assisted lambings and calvings.

## Legislation applicable to SBV

Schmallenberg virus is not a notifiable disease, and there is no legal obligation for producers to notify anyone of an outbreak. However, livestock keepers are strongly advised to contact their veterinary surgeon if they believe they have cases amongst their livestock, so that the appropriate veterinary advice can be given and acted upon.

The Animal Health and Welfare (Scotland) Act 2006 makes owners and keepers responsible for ensuring that the welfare needs of their animals are met. Amongst other things, there is a requirement to protect an animal from pain, injury, suffering or disease.

## Notifiable diseases

For information on diseases that are notifiable (which means there is a legal requirement to report cases and suspected cases to APHA), please see 'Notifiable diseases'.

## Trading Standards

For more information on the work of Trading Standards services and the possible consequences of not abiding by the law, please see 'Trading Standards: powers, enforcement and penalties'.

## In this update

Information about SBV testing by Scotland's Rural College (SRUC).

Last reviewed / updated: April 2026

### Key legislation

- Animal Health and Welfare (Scotland) Act 2006

### Please note

This information is intended for guidance; only the courts can give an authoritative interpretation of the law.

The guide's 'Key legislation' links go to the legislation.gov.uk website. The site usually updates the legislation to include any amendments made to it. However, this is not always the case. Information on all changes made to legislation can be found by following the above links and clicking on the 'More Resources' tab.

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