Ringworm challenges and health threats

Ringworm, an unsightly problem that also presents a zoonotic risk, can also impact on cattle productivity, if it's severe enough. Rachael Porter reports

Given its potential impact on productivity, it's sound advice to tell your customers to be alert to ringworm, says vet Steve Borsberry, from Warwick-based 608 XL Farm Animal Veterinary Surgeons, particularly because it's relatively difficult to treat.

He adds that ringworm is also one of the most common skin diseases in cattle. It is a transmissible infectious skin disease, most often caused by Trichophyton verrucosum, and it can pass between species. The incubation period is around one

"It is spread by direct and indirect contact. The fungal spores can survive in wood fences, gates and hurdles for many years.

CIRCULAR LESIONS

"Most commonly seen are circular lesions, which are around 3cm in diameter. And

"The fungal spores can survive in wood fences, gates and hurdles"

these lesions are typically around the head and neck areas that press up against and through barriers and gateways.

"It's seen more commonly in calves, but can occur in adult cattle. I have seen it, occasionally, on udders.

"It's an itchy condition, so calves and cattle will rub and scratch against uprights and

If the infection is severe enough, it can have a signifi-

cant impact on productivity. In adult cows it can result in a drop in milk yield, if the irritation caused by the disease is enough to impact on dry matter intakes. "This can be exacerbated if a herd has a mange mite problem. In this case a combined infection can result and then cattle really can be severely affected," he says.

IMMUNITY CHALLENGE

"If cows' or calves' immune systems are challenged due to other diseases or health issues, such as pneumonia or BVD, this can make them more susceptible to ringworm. So that's something for your customers to think about if they have a sudden outbreak of the fungal disease. It could signify a more serious underlying health challenge for their herd."

Sunlight does aid recovery, which usually occurs without



Lesions are often seen around the head and neck areas

treatment. But the use of washes will help to reduce environmental contamination and, therefore, limit the spread of the disease.

Hanging holly on calf sheds and cattle building will do nothing to protect livestock from ringworm. That's just an old wives' tale.

VACCINATION

Vaccination is possible. There's a live vaccine available that reduces the clinical signs caused by Trichophyton verrucosum.

But if cattle are already incubating infection then they can go on to develop severe ringworm.



Lesions are typically circular and grey-white in colour

Cause

Ringworm is caused by a typical sites of infection. spore-forming fungus, typically Trichophyton verrucosum. The spores can remain alive for many years in a dry environment. Direct contact months. Topical treatment - cleaned and disinfected, with infected animals is the most common method of directly onto the lesion - is spreading the infection.

Symptoms

backs of calves. In adult cattle be topically treated at least the disease.

the chest and legs are more twice, between three and

TIPS FOR SQPS

Treatment Without treatment ringworm will usually heal itself, but this can take several one way to tackle the disease. But any medication Forms grey-white circular used cannot penetrate the areas of skin, with an ash-like 'crusts', so these should be surface that's also slightly removed beforehand by raised. Lesion size varies, but scraping or brushing. They can become very large, should be collected and They're most common burned to avoid further conaround the eyes, ears and the tamination. Lesions should help to halt the spread of

five days apart.

Prevention

Effective control of ringworm will only occur if the environment is properly application of the medication because this is where the fungi like to hide!

Cleaning must be carried out between each batch of animals. Reducing the stocking rate density, and therefore direct contact, as well as increased exposure to sunlight and keeping housing as dry as possible, will also