

Update on current situation

Benridge Shipley Lane





One of the recent cases – seen here 3 days after diagnosis!



Strangles - Overview

- The Disease
- Diagnostics
- Management
- Vaccination





Strangles – The Disease

- A highly contagious disease
- Ranked amongst the three most significant respiratory infections in the world
- The most commonly diagnosed bacterial disease in horses
 - UK >1400 diagnosed cases 2012 in >350 outbreaks
 - In Sweden it is notifiable and 4 times more cases than equine flu

Strangles – The Disease

- Caused by the bacterium, *Streptococcus equi*
- · Unique to the horse family
- Seen in horses of all ages although young horses often show more signs (no immunity)





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Strangles – Typical Signs

- Dull/depression
- Fever (over 38.5 degrees C)
- Nasal discharge
- Swollen lymph nodes
- Lack of appetite





Strangles – Other Signs

Cough

Proprietary

Abcessed lymph nodes



Strangles – The Disease

- Signs usually develop 5-7 days after exposure (rarely up to 21 days)
- Abscess <u>may</u> form 1-2 weeks later and last 3-4 weeks
- May spread to the guttural pouch and these horses can become carriers (10% of all cases).





Strangles – Different Forms

- Bastard Strangles
 - Remote abscess in body
 - 1% of infected horses
 - Signs depend where abscess are;
 - Abdomen→ colic and weight loss
 - Chest breathing difficulties / pneumonia







Strangles – Rare Complication

- Purpura haemorrhagica
 - Damage to blood vessels
 - Swollen limbs, sloughing of skin
 - Serious but rare disease











Strangles – The Disease

- Survival in environment
 - 2 days in dry sites

- Up to 9 days in wet sites
- Even longer in wet sites in colder weather



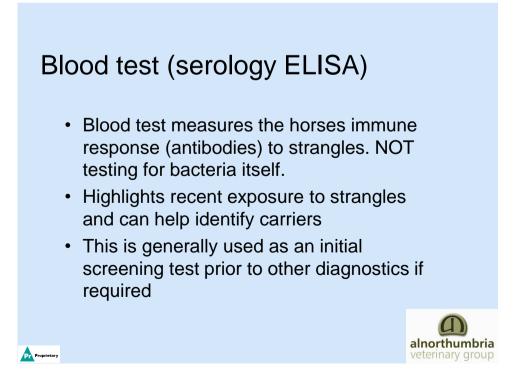




What diagnostics are available?

- Blood Test serology
- Nasopharyngeal swabs
- Guttural Pouch Lavage
- Swabs from abscesses





Blood test - limitations

- Takes 10-14 days for horses to mount immune response after exposure to strangles
 - · May need to repeat sample
- Cannot determine between vaccination
 and infection
- Difficult to determine if horse is a carrier or recently infected and recovered



Nasopharyngeal swabs

- Large swab on a wire inserted up the nose to the back of the throat
- Useful in cases with nasal discharge and testing for carriers
- Test for Strep equi bacteria with PCR and culture
- 1 positive result = positive
- 3 swabs taken at weekly intervals to declare a horse negative





Guttural pouch lavage

- Gold standard for diagnosis
 and identifying carriers
- Endoscope passed up the nose into the guttural pouch
- Saline flushed into and out of pouch and sent to lab for culture and PCR
- Diagnosis can be made on 1 lavage



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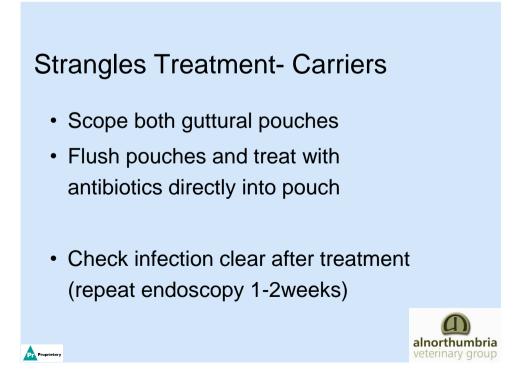


Strangles - Treatment

- · Supportive care
- Encourage horses to eat from the floor if possible
- Anti-inflammatory therapy
- Hot compresses

- Treatment of abscesses
- · Antibiotics usually not appropriate





Strangles - Management

- Disease prevention
- Disease control in an outbreak

Proprietary

Proprietary





Strangles – Biosecurity for Prevention

- Quarantine of new arrivals (min 2 weeks, ideally 4 weeks)
- Blood Test all new arrivals
 - 2 tests 2 weeks apart
- Individual equipment for horse
- Good stable hygiene



Strangles – Biosecurity for Prevention

Care at competitions

Proprietary

- Reduce contact between horses
- · Handle only your own horse
- Use separate equipment
- Take your own feed and hay and water



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Strangles – Biosecurity for Control

- · Often the gold standard is impractical
- Adopt as many measures as possible to reduce level of strangles challenge
- Discuss protocol with your vet before an outbreak occurs
 - Yard Master biosecurity program is available



Managing a strangles outbreak

- On suspicion of an outbreak
 - · Isolate infected horse/s

- Restrict yard movements
- Vet to perform diagnostics





Managing a strangles outbreak

Monitoring temperature



Managing a strangles outbreak

- Successful quarantine
 - Suitable location (10-25 m from other horses)
 - Ideally separate personnel only manage the quarantined horses
 - · Barrier clothing: gloves, overalls, wellies and hats
 - Appropriate hygiene and disinfection (virkon or trigene)
- · Keep yard closed until advised otherwise
 - · No horses to leave yard



Use of vaccination

- The vaccine can be used alongside good biosecurity and management measures
- If vaccinating, all horses on a yard should be vaccinated
- However cannot distinguish between vaccinated and infected horses on blood samples



Vaccination

- Strep E vaccine is administered into the upper lip
- Regular boosters required (3-6 months)
- (New vaccine in development)





Summary

- Strangles is common, contagious but controllable
- Prevention is best achieved through
 - · good yard management
 - · sensible precautions
- Prompt response to an outbreak with good communication will lead to least loss



Yard Master

- An app designed by MSD, to help highlight high and low risk areas of yard biosecurity
- · Free service we provide to yard owners
- We ask a series of questions which help to generate recommendations to improve biosecurity on yards, decreasing the risk of disease outbreaks
- A report will be provided to the yard owner for reference





Useful links:

- <u>https://www.redwings.org.uk/sites/default/fil</u> es/RedwingsStranglesInformationPack.pdf
- <u>http://www.equine-strangles.co.uk/</u>
- <u>http://www.bhs.org.uk/horse-health-and-sickness/strangles</u>



Thank you

- MSD
- Michelle Macaulay
- Pegasus Centre



