Signs and Symptoms of Lyme Disease

Symptoms usually start a few days to several weeks after being bitten.

The first sign is often a pink or red rash (erythema migrans) around the site of the bite. It can gradually spread to form a large circle or patch up to 50-75 centimetres (20-30 inches) diameter if left untreated. It is not usually raised, itchy or painful, and clears up rapidly with antibiotic treatment. Sometimes the rash

may be very faint,



Typical early symptom of Lyme disease: gradually spreading pink rash (erythema migrans) around the site of bite (photo: 7 days after bite)

and it can also be difficult to see on darker skins.

Rashes appearing within a few hours of a tick bite are not caused by Lyme disease, but could be allergic reactions or infections from common skin organisms.

Flu-like symptoms may occur, with headaches, chills, tiredness, muscle pains, joint aches and fever. These symptoms could last several weeks without treatment, but usually settle quickly with correct antibiotic treatment.

More serious complications sometimes develop weeks or months after an infected bite in patients who did not receive early treatment. These include: facial palsy; pain, tingling or loss of sensation in the arms, legs or trunk; and joint pains. Some patients may have been unaware of a tick bite or rash, and the diagnosis of Lyme disease could be delayed or missed because of lack of recognition of their risk.

Treatment

Early treatment with recommended antibiotics is highly effective and should prevent complications developing. Longstanding infection may require longer courses or intravenous antibiotics, so early recognition and treatment is important.

Life cycle of the Deer Tick (Ixodes ricinus)

Eggs halph to larve

Fully fed larve thrase to ground

Host No. 1

Fully fed larve
thrase to ground

Fully ted larvate drops
from host to ground

Host No. 3

Fense attaches and
freds on host No. 3

The relative size of the animals (including Man) approximates their significance as hosts for the different tick life cycle stages in a typical woodland habitat. Larvae rarely carry Borrelia and their bites are not a significant risk.

After Dr Jeremy Gray

and Bernard Kaye

The life cycle usually takes 2-3 years. Although the peak feeding time is late spring/early summer, with a lesser peak in autumn, tick activity (and the risk of tick bites) can extend beyond these periods in favourable weather conditions.

Useful websites:

European Union Concerted Action on Lyme Borreliosis (EUCALB): www.vie.dis.strath.ac.uk/vie/LymeEU/leaflet.htm Centers for Disease Control and Prevention website: www.cdc.gov/ncidod/dvbid/lyme/index.htm Health Protection Agency: www.hpa.org.uk

Acknowledgements:

Health Protection Agency South East, Southampton Laboratory

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Published by New Forest District Council © 2004 in association with the Forestry Commission



Just a Tick ...

Tick Bites and Lyme Disease



Lyme disease, also called Lyme borreliosis, is an illness caused by the bacteria Borrelia burgdorferi, which live in the guts of some ticks. Most ticks do not carry the bacteria, but infection could be passed on to people bitten by infected ticks. To be safe you should assume that any tick bite is potentially infectious. Infected ticks are found in many parts of the country, including the New Forest and neighbouring areas. They also occur in other parts of Europe and North America.

What to look for

Ticks are tiny spider-like creatures found in grassy or wooded areas. They attach themselves to passing animals (small and large domestic and wild animals, depending on the particular stage of the tick's life cycle) and people, and then actively crawl about until they find a suitable site; they then start to feed by biting through the skin and sucking blood. They may take three to five days to complete their blood meal, and then drop back into the undergrowth.

Deer Tick (Ixodes ricinus)



Nymph on thumbnall actual size



actual size

The peak periods for tick feeding are in late spring and early summer (May - July) and to a lesser extent in the autumn (September - October). There may be a lower risk of tick bites at any time of the year if the weather is mild.



Engorged adult female tick after feeding actual size

Prevention is Best - be tick aware

When in grassy, brushy or woodland areas:

Keep your skin covered. Wear trousers rather than shorts or a skirt. Tuck your trouser bottoms into socks, and wear shoes or boots rather than sandals. Wear a long-sleeved shirt, with the cuffs fastened. These precautions will keep ticks on the outside of your clothes, where they can be spotted and picked off. Consider using appropriate insect repellents over your clothing and on exposed skin.

Examine yourself and your children for ticks every three to four hours and at the end of the day. Brush off clothing before going indoors and check that pets do not bring ticks into the home on the fur. Check your skin thoroughly for any attached ticks after returning from a tick-infested area, paying particular attention to skin-fold areas such as the armpits and groins and also the scalp, especially in young children.

Remove any attached ticks as soon as you can.

Use veterinary tick and flea repellents or tick collars on pets.

If you regularly work in a tick-infested area don't wear your work dothing to go home in

Deer are

Important carriers

of ticks

*Lyme disease acquired through work involving exposure to ticks is a reportable occupational disease under the Reporting of Injuries, Diseases and Dangerous Occurrences Regulations (RIDDOR) 1995.

If you have been bitten...

Don't panic. Remove the tick as soon as possible.

Even if the tick is carrying infection it is very unlikely to transmit it in the first few hours of its feed, so early removal is a very effective prevention measure.

Graso the tick as close to the skin as possible, using fine tweezers or finger nails, and pull firmly and steadily without jerking or twisting. Don't rush. Try not to squeeze or crush the tick's body. Sometimes, tick mouth parts can break off from the body and remain in the skin. This is unlikely to increase the risk of Lyme disease, but common skin organisms could cause infection. Apply a skin disinfectant once the tick has been removed.

Specially designed tick extractors are available from veterinary practices and pet shops. They are inexpensive and particularly useful for people who are likely to have frequent tick exposure.

Never apply heat, e.g. lighted cigarette ends or match heads, to attached ticks.

Do not use chemicals such as alcohol, nail polish remover,

petroleum jelly or aromatic oils to ticks prior to removal.

Pull slowly

upwards, at the same

time avoiding crushing

the tick's body

These substances could increase infection risk by stimulating the tick to regurgitate saliva into the bite wound

Check for redness around

If you are concerned in any way or become unwell, see your doctor as soon as possible.



Wear

shoes not

sandals

Trousers

Insect repellent

sprayed onto

trousers

tucked in tucked into socks

the site of the bite.