

New tick-borne disease threatens primarily immune suppressed persons

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This is Christine Wennerås, researcher, University of Gothenburg. Credit: University of Gothenburg

A newly discovered tick-borne bacterium known as "*Candidatus* Neoehrlichia mikurensis" has been implicated in six cases of disease in Sweden. A new international study led by the Sahlgrenska Academy has shown that this bacterium is primarily a risk for people who are already sick and who are receiving immunosuppressive drugs.

The *Candidatus* Neoehrlichia mikurensis [bacterium](#), known in the medical world by its short name Neoehrlichia, was discovered and described for the first time in a [scientific article](#) in 2010.

The bacterium, which is spread by rodents and ticks mainly in Asia and

Europe, including Sweden, has been found in 19 cases worldwide, six of them in Sweden.

Eleven cases closely examined

Scientists and doctors from Germany, Switzerland, The Czech Republic and Sweden have examined 11 of these cases more closely, in an international research project led by the Sahlgrenska Academy. The study has shown that it is primarily people who are already sick who run the greatest risk of becoming infected by the bacterium.

"Those who run the greatest risk are generally over the age of 50 years, suffer either from a haematological disease or a [rheumatic disease](#), and are currently undergoing [immunosuppressive treatment](#) with, for example, chemotherapy or cortisone," says Christine Wennerås, scientist at the Sahlgrenska Academy.

Difficult to detect

No figures are available for how common the tick-borne infection, neorlichiosis is in humans. This is mainly due to the infection being difficult to detect.

"The bacterium cannot be grown in culture, and this means that it is not picked up in routine diagnostic procedures. Furthermore, the symptoms are deceptive: several patients, for example, have been affected by blood clots in the leg or the blood vessels in the head, and this has not been coupled to an infectious cause. Other typical symptom such as fever, muscle pain and joint pain can be caused also by the patient's underlying disease," says Christine Wennerås.

"We know very little about how the infection affects otherwise healthy

people who are not taking [immunosuppressive drugs](#)."

Once neehrlichiosis has been diagnosed, the patients recover completely after treatment with antibiotics.

More information: The study Infections with the tick-borne bacterium "Candidatus Neoehrlichia mikurensis" mimic non-infectious conditions in patients with B cell malignancies or autoimmune diseases has been e-published ahead of print on March 18, and will appear in *Clinical Infectious Diseases*. cid.oxfordjournals.org/content.../cid.ciu189.abstract

Provided by University of Gothenburg

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