

## Innovating the way complex diseases are diagnosed

Do you consider **TICKS (punkki)** as one of the most dangerous animals in Finland? Worry not! In 2017, Te?ted Oy will introduce a complete diagnostic test kit for tick-borne diseases. It tests for multiple microbes, disease stages, and patients simultaneously.

### Why test for multiple microbes?

A long list of diseases including multiple sclerosis, AIDS and many others have been recognized as polymicrobial diseases, and yet the Germ Theory (one microbe is equal one disease) remains a norm in the diagnostic industry. This shortcoming has caused misdiagnosis, consequently diminishing a patient's quality of life due to inadequate testing and treatment.

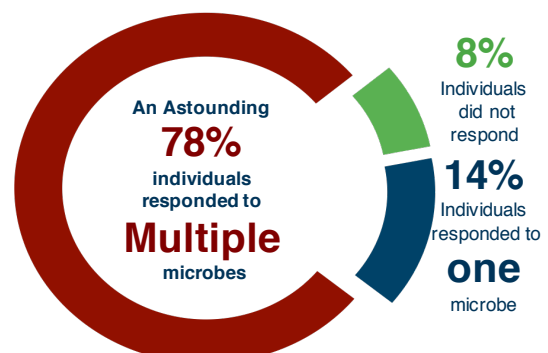


Evidence now confirms that ticks carry multiple pathogens and that human polymicrobial infections are relevant regarding tick-borne diseases. However, the current healthcare system still only tests one microbe at a time. **Interestingly, the following microbes are present in Finland with clinical consequence:** *Borrelia burgdorferi*, *Borrelia afzelii*, *Borrelia garinii*, *Borrelia miyamotoi*, *Anaplasma phagocytophilum*, Francisella tularaemia, Tick-borne encephalitis, *Rickettsia spp.*, *Bartonella spp.*, *Ehrlichia chaffeensis*, *Coxiella brunetti*, and the *Babesia* protozon (Berger 2016, Hytonen 2016, Mäkinen *et al* 2003, Rosso *et al* 1995, Sormunen *et al* 2016).



### The Innovation:

Tezted Oy is developing a complete tick-borne disease diagnostic test kit. Currently, the kit has been validated with 1100 characterized human sera samples against 20 microbes. We found, an astoundingly, 75% of patients responded to multiple microbes and only 14% of the patients responded to one microbe. This validation has led to the 2 European Patent Office patent applications and trademark. In addition, this will lead to submission of a scientific article.



## To healthcare providers,

In best interest of the patients, come contribute the change you want to see in upcoming tick-borne disease diagnostic test kits. Because, if you can test, then you can treat! Feel free to contact us.

Sincerely,  
Team Te?ted  
info@tezted.com

## References:

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## Other important articles of interest.

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4. Meriläinen L, Brander H, Herranen A, Schwarzbach A, Gilbert L, Pleomorphic forms of Borrelia burgdorferi induce distinct immune responses, Microbes and Infection, 18 (7–8), 2016, 484-495, 1286-4579.