



Seroprevalence of seven CSI in Greenland and northern Sweden (1)

An analysis of serum samples from Greenland and northern Sweden demonstrates for the first time the presence of seropositivity to **brucellosis, leptospirosis, rickettsioses** and **tularemia** in Greenland, even if the figures for brucellosis and tularemia were as low as 1% of the tested samples.

In West Greenland, the percentage of **leptospirosis** positive samples increased significantly from 2.5% in 1998 to 30% in 2013.

Our findings provide new baseline data for human seroprevalence of rarely or not at all described CSI in Greenland and northern Sweden.





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Table: Percentage of serum samples that tested positive against seven CSI. Stored serum samples from 50 years-old donors from Greenland (460 in total) and Umeå region in northern Sweden (200 in total) were tested. The year of sampling is indicated.

Putative CSI	Greenland 1998	Greenland 2013-15	Northern Sweden 2012-2017
Brucellosis	Not tested	1%	1%
Leptospirosis	2.5%	21%	4%
Q-fever	Not tested	Not detectable	Not detectable
Rickettsioses	12.5%	9%	11.5%
Tularemia	Not tested	1%	3%
Borreliosis	Not tested	Not tested	2%
TBE	Not tested	Not tested	5%