

Communicating spatial risk of tick-borne infections: Creating a ScandTick Innovation website based on surveillance data

Clausen, Cecilie Grønlund; Schou, Kirstine Klitgaard; Kirkeby, Carsten; Bødker, Rene

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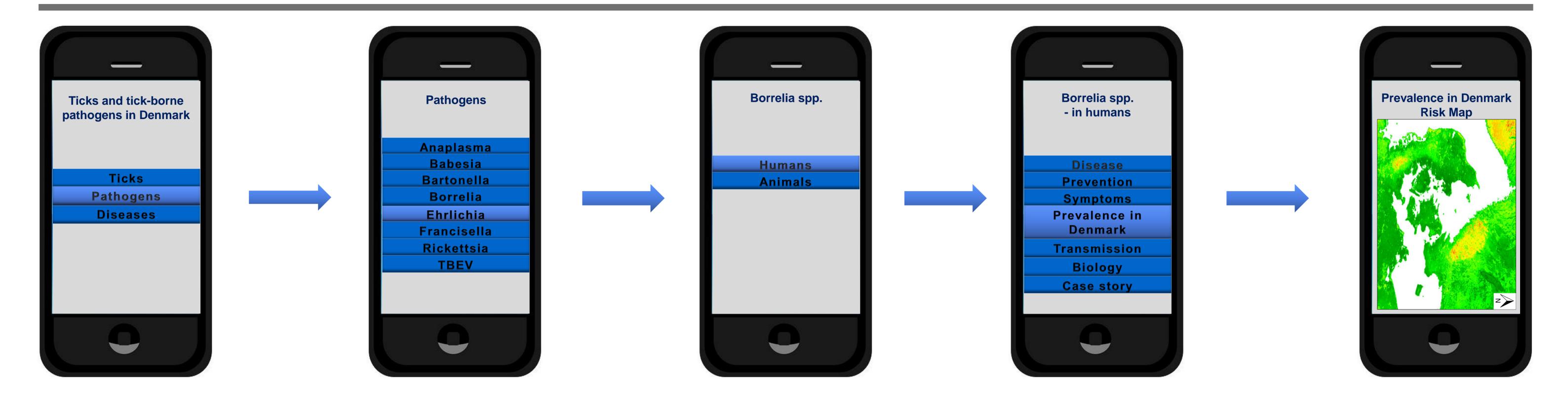


Communicating spatial risk of tick-borne infections

Creating a ScandTick Innovation website based on surveillance data

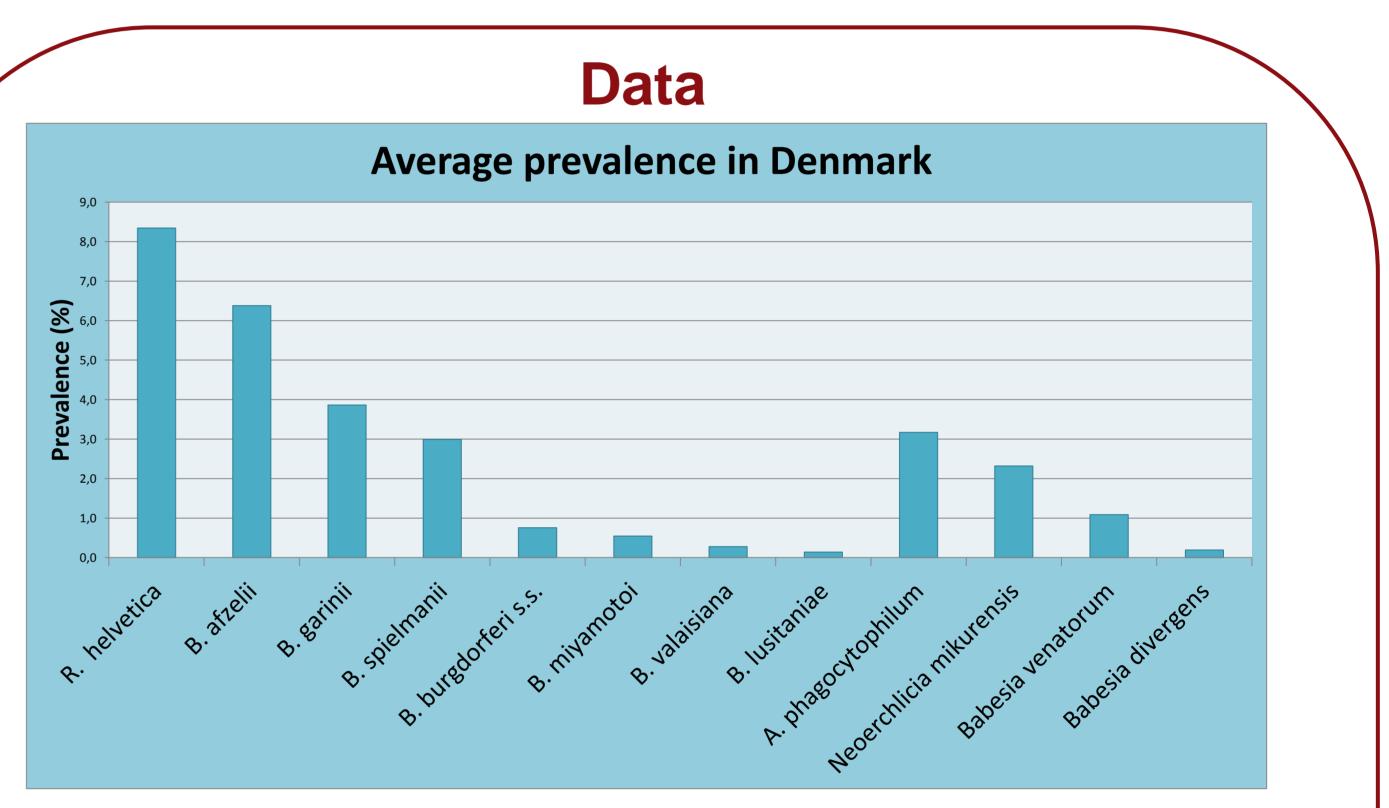
Cecilie Grønlund Clausen, Kirstine Klitgaard Schou, Carsten Kirkeby, René Bødker

Section for Epidemiology, National Veterinary Institute, Technical University of Denmark



Introduction

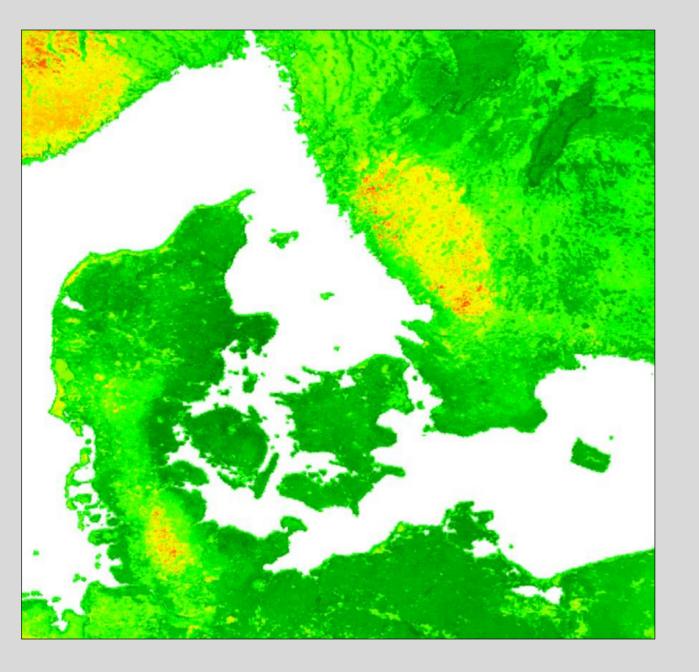
On a new informative website we illustrate the <u>spatial</u> <u>prevalence and variation of tick-borne pathogens</u> in Denmark, which has been largely unknown until now. By <u>increasing awareness</u> of this variation, we aim to ensure <u>early diagnosis</u>, more <u>effective prevention</u> of tick-borne diseases and to provide <u>quantitative risk estimates</u> to



health professionals.

Risk map

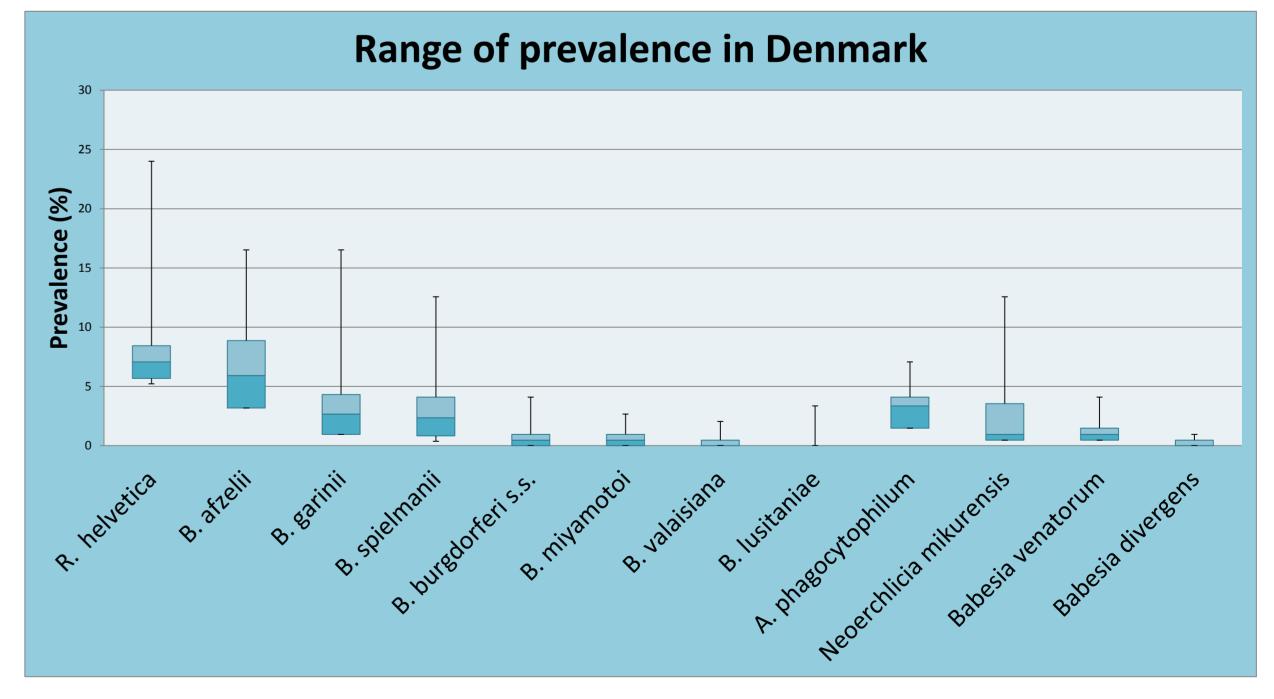
Map illustrating the probability finding a positive pool (N=15) of *Candidatus Neoehrlichia mikurensis* throughout Denmark (green → red : increasing probability). This model was made using remote sensing and is based on preliminary data.



Website

The aim is to communicate quantitative and targeted

The average prevalence of tick-borne pathogens throughout Denmark makes it possible to rank the pathogens in order of abundance. *B. lusitaniae* is the least and *R. helvetica* the most prevalent tick-borne pathogens in Denmark.



Illustrating the range of data for each pathogen reveals a geographical variation in the prevalence of tick-borne pathogens in Denmark. Fx. the prevalence *B. miyamotoi* ranges between 0% - 2,6%, indicating that the risk of infection will vary between geographical areas. This information can be helpful in the assessment of potential infection risks.

information on ticks, pathogens and the risk of infection

and illness. The website is directed towards the public,

veterinarians and general practitioners and be quickly

accessible from a smartphone.

Corresponding author:

Cecilie Grønlund Clausen Research Assistant, MSc

Phone: +45 40 95 16 95 Email: cgcl@vet.dtu.dk



DTU VET National Veterinary Institute Section for Epidemiology Technical University of Denmark

> Bülowsvej 27 1870 Frederiksberg C

Technical University of Denmark