

SEMINAR SERIES IN BIOSTATISTICS



Tom Britton, PhD
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15:00-16:00

Zoom

(MEETING ID: 651 0002 8770) (PWD: 490973)

”Evaluating and optimizing COVID-19 vaccination policies: a case study of Sweden”

We evaluate the efficiency of vaccination scenarios for COVID-19 by analysing a data-driven mathematical model. Healthcare demand and incidence are investigated for different scenarios of transmission and vaccination-schemes. Our results suggest that reducing the transmission rate affected by invading virus strains, seasonality and the level of prevention, is most important. Second to this is timely vaccine deliveries and expeditious vaccination management. Postponing vaccination of antibody-positive individuals reduces also the disease burden, and once risk groups have been vaccinated, it is best to continue vaccinating in a descending age order. (Joint work with Henrik Sjogren and Joacim Rocklov)

Tom Britton is a specialist in mathematical models for the spread of infections. He has written several monographs and numerous papers in the area; recently several focusing on COVID-19 including one in Science. He has also frequently been interviewed in Swedish and international media. He was awarded Statistical ambassador of the year 2020 by the Swedish Statistical Society for his way of explaining statistical science to the general public.