Dear Dr Simonsen and Prof. Molbak,

**Request for data related to the publication "Estimation of incidences of infectious diseases based on antibody measurements” Stat Med. 2009; 28:1882­1895**

Following recent email correspondence we would like to formally request the above data to utilise in ongoing research. The publication noted above described a process for estimating antibody kinetics from sample data, using a mathematical model for antibody behaviour, combined with a statistical model for describing the variability inherent in individual test results. We seek to develop novel statistical approaches which build on this work, and the above data set would be invaluable in testing such methods.

We would not publish the study data or results derived from this data in a way which would enable identification of individuals in the study, and would seek your guidance on such matters prior to publication. Furthermore, in any publication that might result from use of this data, we would of course offer you co-authorship(s) reflecting the importance of the data used for the scientific quality of the publication, as well as any input you might have in the research and/or writing of the manuscript.

Best regards,

Gustaf Rydevik

PhD student

Biomathematics and Statistics Scotland/

SRUC/University of York

Writing on behalf of myself and the other scientists involved in this project:

Mike Hutchings

Professor in Disease Systems,

SRUC

Glenn Marion

Head of Research,

Biomathematics and Statistics Scotland

Ross Davidson

Mathematical Epidemiologist

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Piran White

Deputy Head of Department, Environment Department,

University of York

Giles Innocent

Senior Research Scientist,

Biomathematics and Statistics Scotland

**Email conversation**

Dear Gustav,You can get the data . I have just discussed it with Kaare Molbak (the project leader). You have to send us a protocol of how the data will be used (just briefly, a single page is enough). Further, there were lot of work in the data collection, we may require an authorship if you publish anything on these data. If you are fine with that, then I send you the data. By the way, I must also admit that I would not have done the same model again if I could do it over. Partly, the "d"-parameter was difficult to identify, though the important thing in the Statistics-in-medicine paper was that the model fits the data, which it did very well. It is very likely that a simpler model could have done the job. Also, should I do it over, then I would use a likelihood approach instead of the Baysian approach. Jacob -----Oprindelig meddelelse----- Fra: Gustaf Rydevik [mailto:[Gustaf.Rydevik@bioss.ac.uk](https://webmail.bioss.ac.uk/src/compose.php?send_to=Gustaf.Rydevik%40bioss.ac.uk)] Sendt: 2. maj 2014 17:21 Til: Jacob Simonsen Emne: Request for information regarding "Estimation of incidences of infectious diseases...." Dear Dr Simonsen, I am currently attempting to reimplement the first part of the model in "Estimation of incidences of infectious diseases based on antibody measurements. Stat Med. 2009; 28:1882­1895", in order to then build on, and expand the framework. Ideally, I would like to see if I can replicate your results in the paper, before going any further. In order to do so, I wonder if you still have access to, and would be willing to send, the longitudinal antibody data (anonymised if necessary) used for estimating the antibody kinetics? If that is not possible, due to restrictions on access to the data, I wonder if you can tell me the posterior distributions for the parameters of the model? If so, it would be possible to simulate data sets that are "close enough" to validate my reimplemented model. With best regards, Gustaf Rydevik PS: Have we met before? I seem to remember talking to you at some MedVetNet meeting back in 2009, while I was still working for SMI. --------------- Gustaf Rydevik PhD student Biomathematics and Statistics Scotland/ SRUC email:[gustaf@bioss.ac.uk](https://webmail.bioss.ac.uk/src/compose.php?send_to=gustaf%40bioss.ac.uk) skype:gustaf\_rydevik Biomathematics and Statistics Scotland (BioSS) is formally part of The James Hutton Institute (JHI), a registered Scottish charity No. SC041796 and a company limited by guarantee No. SC374831 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ STATENS SERUM INSTITUT 5 Artillerivej | DK-2300 Copenhagen S | T +45 3268 3268 | F +45 3268 3868 | E [serum@ssi.dk](https://webmail.bioss.ac.uk/src/compose.php?send_to=serum%40ssi.dk)<mailto:[serum@ssi.dk](https://webmail.bioss.ac.uk/src/compose.php?send_to=serum%40ssi.dk)> | W ssi.dk<[http://www.ssi.dk](http://www.ssi.dk/" \t "_blank)> \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ This e-mail, inclusive of attachments, is intended for the person(s) or entity stated above and may contain confidential information. Unauthorised reading, disclosure, copying, distribution or use of this information may violate rights to proprietary information. If you are not an intended recipient, please return this e-mail to the sender and delete your copy. Thank you.