



STOC free: WP1 and WP2, Deliverable 2

Summary

Guidelines for the identification of sources of the data available to quantify the confidence of freedom from infection, with an application to BVDV

M. Mercat¹, A. van Roon², I. Santman^{2,3}, G. van Schaik^{2,3}, M. Nielen², L. van Duijn³, S. More⁴, D. Graham⁵, J. Frössling⁶, A. Lindberg⁶, J. Gethmann⁷, C. Sauter-Louis⁷, G. Gunn⁸, C. Gomes⁸, M. Henry⁸, C. Fourichon¹, A. Madouasse¹

¹ BIOEPAR, INRA, Oniris, Université Bretagne Loire, 44307, Nantes, France, ²Urecht University, the Netherlands, ³GD Animal Health, the Netherlands, ⁴University College Dublin, Ireland, ⁵Animal Health Ireland, ⁶Swedish National Veterinary Institute, Sweden, ⁷FLI, Germany, ⁸SRUC, Scotland

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The second deliverable of WP1 (D1.2) “Guidelines for the identification and sources of data” is developed in close collaboration with WP2. This deliverable is linked to the conceptual model representing the course and dynamics of infection at different levels (D1.1) and the questionnaire which captures data about aspects of control programmes that influence the confidence of freedom (D2.1 and D2.2). In this deliverable, the data needed for calculation of the confidence of freedom within the STOC free framework are listed. The data of interest include information issued from monitoring the infection (e.g. programme output and test characteristics) and information on factors that could influence the probability for a given entity to be free from infection (e.g. contact structure, infection pressure and presence of risk factors for introduction or delayed detection).

This deliverable consists of:

1. a table for collecting all data that is possibly important for calculation of the confidence of freedom within the STOC free framework 2.
2. a table that describes all data that is possibly important for calculation of the confidence of freedom within the STOC free framework,
3. a table that gives an overview of BVDV diagnostic tests that are used in Europe with associated test characteristics and
4. a table that lists risk factors for introduction and delayed detection of BVDV ordered on importance by the six countries within the consortium.

The aim of the first table that lists important data for calculation of confidence of freedom is not to collect the data itself but to indicate on the territory level whether quantitative or qualitative data are available for each variable of interest, the sources of the data and the strengths and limitations of the data.

The overview of diagnostic tests for BVDV and their characteristics is a first inventory. Currently, the consortium is working on a systematic review about risk factors for introduction and/or delayed detection which also includes papers about test performance. If the systematic review does not provide sufficient data on the test characteristics, the consortium will explore other options to complete the overview presented in this deliverable.

The third table presents the risk factors for introduction or delayed detection that were deemed most relevant by the partners collaborating in the STOC free consortium. The table distinguishes risk factors on animal, herd and territory level and was stratified towards a disease free or endemic situation. In the systematic review that is currently conducted, risk factors with their risk estimates will be identified, which will be used to complete the current risk factor overview.

This deliverable gives a comprehensive overview of all relevant and potentially available data for calculating the confidence of freedom. The tables will guide the further development of both the statistical model (STOC free MODEL) and the data collection tool (STOC free DATA).

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