Research outputs:

Effects of control measures on the spread of LA-MRSA among Danish pig herds between 2006 and 2015 – a simulation study
Schulz, J., Boklund, A., Toft, N. & Halasa, T. 1 Dec 2019 In : Scientific Reports. 9, 1, 9 p., 691
Research output: Research - peer-review › Journal article – Annual report year: 2019

Economic and epidemiological impact of different intervention strategies for clinical contagious mastitis
Research output: Research - peer-review › Journal article – Annual report year: 2019

Economic and epidemiological impact of different intervention strategies for subclinical and clinical mastitis
Research output: Research - peer-review › Journal article – Annual report year: 2019

Transmission dynamics of Staphylococcus aureus within two Danish dairy cattle herds
Research output: Research - peer-review › Journal article – Annual report year: 2019

A new method for estimating transmission rates of mastitis-causing pathogens
Kirkeby, C., Halasa, T., Gussmann, M. K. & Græsbøll, K. 2018
Research output: Research - peer-review › Poster – Annual report year: 2018

A strain-, cow-, and herd-specific bio-economic simulation model of intramammary infections in dairy cattle herds
Research output: Research - peer-review › Journal article – Annual report year: 2018

Drivers for Livestock-Associated Methicillin-Resistant Staphylococcus Aureus Spread Among Danish Pig Herds - A Simulation Study
Schulz, J., Boklund, A., Toft, N. & Halasa, T. 2018 In : Scientific Reports. 8, 11 p., 16962
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Methods for estimating disease transmission rates: Evaluating the precision of Poisson regression and two novel methods
Kirkeby, C. T., Hisham Beshara Halasa, T., Gussmann, M. K., Toft, N. & Græsbøll, K. 2017 In : Scientific Reports. 7, 9496
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Modelling spread of MRSA within a pig herd
Research output: Research - peer-review » Poster – Annual report year: 2017

Mulighederne for en bedre udnyttelse af de økonomiske ressourcer til det veterinære beredskab for mund- og klovsyge
Research output: Research » Report – Annual report year: 2017

Network analysis of pig movements: Loyalty patterns and contact chains of different holding types in Denmark
Research output: Research - peer-review » Journal article – Annual report year: 2017

Opportunities and challenges when pooling milk samples using ELISA
Research output: Research - peer-review » Journal article – Annual report year: 2017

Resource Estimations in Contingency Planning for Foot-and-Mouth Disease
Research output: Research - peer-review » Journal article – Annual report year: 2018

Sampling pig farms at the abattoir in a cross-sectional study – Evaluation of a sampling method
Research output: Research - peer-review » Journal article – Annual report year: 2017

Semiquantitative Decision Tools for FMD Emergency Vaccination Informed by Field Observations and Simulated Outbreak Data
Research output: Research - peer-review » Journal article – Annual report year: 2017

Simulating control of paratuberculosis in Danish dairy herds
Research output: Research - peer-review » Conference abstract for conference – Annual report year: 2017

Spatial patterns of antimicrobial resistance genes in a cross-sectional sample of pig farms with indoor non-organic production of finishers
Research output: Research - peer-review » Journal article – Annual report year: 2017

Transmission of African swine fever virus from infected pigs by direct contact and aerosol routes
Research output: Research - peer-review » Journal article – Annual report year: 2017

Treatment Patterns for Mastitis in Danish Dairy Cattle Farms
Research output: Research - peer-review » Poster – Annual report year: 2017
What tools are useful for monitoring endemic diseases? A simulation study based on different time-series components.
Research output: Research - peer-review › Article in proceedings – Annual report year: 2017

Adaptive Test Schemes for Control of Paratuberculosis in Dairy Cows
Research output: Research - peer-review › Journal article – Annual report year: 2016

A herd- and cow-specific decision support tool for control of mastitis
Research output: Research - peer-review › Poster – Annual report year: 2016

A simulation model for the spread of LA-MRSA within a pig herd
Research output: Research - peer-review › Poster – Annual report year: 2016

A space-time analysis of Mycoplasma bovis: bulk tank milk antibody screening results from all Danish dairy herds in 2013-2014
Research output: Research - peer-review › Journal article – Annual report year: 2016

Comparing algorithms performance for monitoring endemic disease: a simulation study based on the Danish PRRSV monitoring program
Lopes Antunes, A. C., Dorea, F., Hisham Beshara Halasa, T. & Toft, N. 2016 Book of abstracts from the 24th International Pig Veterinary Society (IPVS) Congress. Dublin, Ireland, p. 542-542 1 p. PO-PW1-128
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Comparing algorithms performance for monitoring endemic disease: a simulation study based on the Danish PRRSV monitoring program
Lopes Antunes, A. C., Dorea, F., Hisham Beshara Halasa, T. & Toft, N. 2016 1 p.
Research output: Research - peer-review › Poster – Annual report year: 2016

Control of African swine fever epidemics in industrialized swine populations
Hisham Beshara Halasa, T., Betnær, A., Mortensen, S., Christensen, H., Toft, N. & Boklund, A. 2016 In : Veterinary Microbiology. 197, p. 142-150 9 p.
Research output: Research - peer-review › Journal article – Annual report year: 2016

Determining the optimal number of individual samples to pool for quantification of average herd levels of antimicrobial resistance genes in Danish pig herds using high-throughput qPCR
Research output: Research - peer-review › Journal article – Annual report year: 2016

Dynamic generalized linear models for monitoring endemic diseases: moving beyond univariate process monitoring control algorithms
Research output: Research › Article in proceedings – Annual report year: 2016
Economic analysis of activities to prevent foot and mouth disease in Denmark
Research output: Research - peer-review › Article in proceedings – Annual report year: 2016

Experimental pig-to-pig transmission study with a recent European African Swine Fever virus isolate
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Models to Estimate Lactation Curves of Milk Yield and Somatic Cell Count in Dairy Cows at the Herd Level for the Use in Simulations and Predictive Models
Research output: Research - peer-review › Journal article – Annual report year: 2016

Monitoring endemic livestock diseases using laboratory diagnostic data: A simulation study to evaluate the performance of univariate process monitoring control algorithms
Lopes Antunes, A. C., Dorea, F., Hisham Beshara Halasa, T. & Toft, N. 2016 In : Preventive Veterinary Medicine. 127, p. 15-20
Research output: Research - peer-review › Journal article – Annual report year: 2016

Optimised surveillance for paratuberculosis
Research output: Research - peer-review › Poster – Annual report year: 2016

Simulating the epidemiological and economic effects of an African swine fever epidemic in industrialized swine populations
Hisham Beshara Halasa, T., Bøtner, A., Mortensen, S., Christensen, H., Toft, N. & Boklund, A. 2016 In : Veterinary Microbiology. 193, p. 7-16
Research output: Research - peer-review › Journal article – Annual report year: 2016

Simulating the Epidemiological and Economic Impact of Paratuberculosis Control Actions in Dairy Cattle
Research output: Research - peer-review › Journal article – Annual report year: 2016

Simulation of Spread of African Swine Fever, Including the Effects of Residues from Dead Animals
Research output: Research - peer-review › Journal article – Annual report year: 2016

Spatial patterns of Antimicrobial Resistance Genes in Danish Pig Farms
Research output: Research - peer-review › Article in proceedings – Annual report year: 2017

Towards control of LA-MRSA - Simulation modeling of LA-MRSA spread between pig farms
Research output: Research - peer-review › Poster – Annual report year: 2016

What to look for when monitoring animal diseases?
Research output: Research - peer-review › Poster – Annual report year: 2016
A Bayesian herd-level diagnostic test evaluation - Mycoplasma bovis
Nielsen, P. K., Petersen, M. B., Nielsen, L. R., Hisham Beshara Halasa, T. & Toft, N. 2015 1 p.
Research output: Research - peer-review › Poster – Annual report year: 2015

A space-time analysis of Mycoplasma bovis in Denmark
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Comparison of individual and pooled samples for quantification of antimicrobial resistance genes in swine feces by high-throughput qPCR
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iCull – A bioeconomic model for herd management and disease control
Research output: Research › Poster – Annual report year: 2015

Improving the Effect and Efficiency of FMD Control by Enlarging Protection or Surveillance Zones
Research output: Research - peer-review › Journal article – Annual report year: 2015

Latent class analysis of bulk tank milk PCR and ELISA testing for herd level diagnosis of Mycoplasma bovis
Research output: Research - peer-review › Journal article – Annual report year: 2015

Mean effective sensitivity for Mycobacterium avium subsp paratuberculosis infection in cattle herds
Kirkeby, C., Græsbøll, K., Hisham Beshara Halasa, T., Toft, N. & Nielsen, S. S. 2015 In : B M C Veterinary Research. 11, 1, 6 p., 190
Research output: Research - peer-review › Journal article – Annual report year: 2015

Monitoring PRRS based on laboratory submissions: a simulation study to evaluate detection algorithms performance
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Monitoring PRRS based on laboratory submissions: A simulation study to evaluate detection algorithms performance.
Lopes Antunes, A. C., Dorea, F., Hisham Beshara Halasa, T. & Toft, N. 2015 1 p.
Research output: Research - peer-review › Poster – Annual report year: 2015

Monitoring PRRS sero-prevalence in Danish breeding herds: Evaluation of algorithms performance
Lopes Antunes, A. C., Dorea, F., Hisham Beshara Halasa, T. & Toft, N. 2015 1 p.
Research output: Research - peer-review › Poster – Annual report year: 2015

Planning a cross-sectional study of antimicrobial resistance genes in Danish pig farms
Birkegård, A. C., Hisham Beshara Halasa, T. & Toft, N. 2015 1 p.
Research output: Research - peer-review › Poster – Annual report year: 2015
Prevalence, risk factors and spatial analysis of infections with liver flukes in Danish cattle herds
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Prevalence, risk factors and spatial analysis of liver fluke infections in Danish cattle herds
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Simulator bruges i kampen mod plasmacytose
Boklund, A., Hisham Beshara Halasa, T., Chriël, M., Struve, T., Østergaard, J. & Clausen, J. 2015 In : Dansk Pelsdyralav. 1
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Simulering af kontroforanstaltninger til bekæmpelse af plasmacytose i minkfarmer
Boklund, A., Hisham Beshara Halasa, T., Struve, T., Østergaard, J., Clausen, J. & Chriël, M. 2015 In : Dansk Veterinaertidsskrift. 6, p. 24-30
Research output: Research - peer-review › Journal article – Annual report year: 2015

Spatial analysis and temporal trends of porcine reproductive and respiratory syndrome in Denmark from 2007 to 2010 based on laboratory submission data
Research output: Research - peer-review › Journal article – Annual report year: 2015

A Comparison between Two Simulation Models for Spread of Foot-and-Mouth Disease
Research output: Research - peer-review › Journal article – Annual report year: 2014

Association of MAP specific ELISA-responses and productive parameters in 314 Danish dairy farms
Research output: Research - peer-review › Poster – Annual report year: 2014

Association of map specific ELISA-responses and productive parameters in 367 danish dairy farms
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iCull - a herd-specific tool for financial evaluation of the impact of paratuberculosis
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Impact of clinical surveillance during a foot-and-mouth disease epidemic
Hisham Beshara Halasa, T. & Boklund, A. 2014
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Infections with cardiopulmonary and intestinal helminths and sarcoptic mange in red foxes from two different localities in Denmark
Decisions on foot-and-mouth disease control informed by model prediction
Hisham Beshara Halasa, T., Willeberg, P., Christiansen, L. E., Boklund, A., Alkhamis, M., Perez, A. & Enæe, C. 2013
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Simulated effects of changes in herd sizes and densities with regard to FMD outbreaks in Denmark
Research output: Research - peer-review › Poster – Annual report year: 2013

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Research output: Research - peer-review › Journal article – Annual report year: 2013

Annual incidence, prevalence and transmission characteristics of Streptococcus agalactiae in Danish dairy herds
Research output: Research - peer-review › Journal article – Annual report year: 2012

Bioeconomic modeling of intervention against clinical mastitis caused by contagious pathogens
Hisham Beshara Halasa, T. 2012 In : Journal of Dairy Science. 95, 10, p. 5740-5749
Research output: Research - peer-review › Journal article – Annual report year: 2012

Comparison of different control strategies on FMD in Denmark
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Consequence of changes in herd size and densities for the contingency planning
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

General introduction to simulation models
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Influence of livestock markets on the spread of FMD
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Input parameters and scenarios, including economic inputs
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012
Input parameters in the models
Boklund, A., Hisham Beshara Halasa, T., Christiansen, L. E. & Enøe, C. 2012
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Meta-analysis on the efficacy of foot-and-mouth disease emergency vaccination
Research output: Research - peer-review > Article in proceedings – Annual report year: 2012

Model’s comparison
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Optimizing the control of foot-and-mouth disease in Denmark by simulation: Meta-analysis on the efficacy of foot-and-mouth disease emergency vaccination
Hisham Beshara Halasa, T., Boklund, A. & Enøe, C. 2012
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Optimizing the control of foot-and-mouth disease in Denmark by simulation: Foot-and-mouth disease simulation modeling
Hisham Beshara Halasa, T. & Boklund, A. 2012
Research output: Research - peer-review > Sound/Visual production (digital) – Annual report year: 2012

Optimizing the control of foot-and-mouth disease in Denmark by simulation: Comparison of foot-and-mouth disease simulation models
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Optimizing the control of foot-and-mouth disease in Denmark by simulation: Comparison of different control strategies on FMD in Denmark
Boklund, A., Hisham Beshara Halasa, T., Christiansen, L. E. & Enøe, C. 2012
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Optimizing the control of foot-and-mouth disease in Denmark by simulation: Influence of livestock markets on spread of FMD
Boklund, A., Hisham Beshara Halasa, T., Christiansen, L. E. & Enøe, C. 2012
Research output: Research - peer-review > Sound/Visual production (digital) – Annual report year: 2012

Optimizing the control of foot-and-mouth disease in Denmark by simulation: Consequences of changes in herd sizes and densities for the contingency planning
Hisham Beshara Halasa, T., Boklund, A., Enøe, C. & Christiansen, L. E. 2012
Research output: Research - peer-review > Sound/Visual production (digital) – Annual report year: 2012

Predicting the structural development in Danish livestock and how it affects control strategies against FMD
Research output: Research - peer-review > Article in proceedings – Annual report year: 2012

Simple decision tools to help optimize the control strategy 2 weeks into a Danish FMD epidemic
Research output: Research - peer-review > Article in proceedings – Annual report year: 2012

Simulated Effects of Introducing Emergency Vaccination or Depopulation During FMD Outbreaks in Denmark
Simulation of the influence of Danish cattle markets on a Foot-and-Mouth epidemic

Simuleringsstudier af konsekvenser af mund- og klovesyge i Danmark

Source attribution of human campylobacteriosis using a meta-analysis of case-control studies of sporadic infections

Source attribution of human salmonellosis using a meta-analysis of case-control studies of sporadic infections

Meta-analysis on the efficacy of foot-and-mouth disease emergency vaccination

Modelling food safety and economic consequences of surveillance and control strategies for Salmonella in pigs and pork
Baptista, F. M., Hisham Beshara Halasa, T., Alban, L. R. & Nielsen, L. 2011 In : Epidemiology and Infection. 139, 5, p. 754-764

A simulation model to calculate costs and benefits of dry period interventions in dairy cattle

Bioeconomic modeling of lactational antimicrobial treatment of new bovine subclinical intramammary infections caused by contagious pathogens

Meta-analysis of dry cow management for dairy cattle. Part 1. Protection against new intramammary infections

Meta-analysis of dry cow management for dairy cattle. Part 2. Cure of existing intramammary infections
Hisham Beshara Halasa, T., Nielen, M., Østerås, O. & Whist, A. C. 2009 In : Journal of Dairy Science. 92, p. 3150

Production loss due to new subclinical mastitis in Dutch dairy cows estimated with a test-day model

Stochastic bio-economic model of bovine intramammary infection
Economic effects of bovine mastitis and mastitis management: A review
Hisham Beshara Halasa, T., Huijps, K., Østerås, O. & Hogeveen, H. 2007 In: Veterinary Quarterly. 29, p. 18-31
Research output: Research - peer-review › Journal article – Annual report year: 2007

Projects:

Veterinary epidemiology with emphasis on the association between spatial proximity, contact structures, antibiotic consumption and antibiotic resistance
Birkegård, A. C., Toft, N., Hisham Beshara Halasa, T., Boklund, A., Dewulf, J. & Nielsen, S. S.
Samfinansieret - Andet
01/12/2013 → 20/12/2017
Project: PhD

Development of a herd- and cow-specific decision support tool for control of mastitis
Samfinansieret - Andet
01/07/2015 → 30/09/2018
Project: PhD

Simulation modeling of LA-MRSA dispersal and control between swine herds
Schulz, J., Hisham Beshara Halasa, T., Boklund, A., Toft, N., Jensen, V. F., Baekbo, P. & Selhorst, T.
Offentlig finansiering
01/05/2015 → 21/02/2019
Project: PhD

The spread and control of LA-MRSA within Danish pig herds
Offentlig finansiering
01/04/2015 → 20/06/2018
Project: PhD

Veterinary Epidemiology with focus on monitoring livestock disease using diagnostic databases
Lopes Antunes, A. C., Toft, N., Hisham Beshara Halasa, T., Jensen, V. F., Revie, C. W. & Mortensen, S.
Offentlig finansiering
15/12/2013 → 26/04/2017
Project: PhD

Optimizing the bulk milk tank surveillance in Danish dairy cattle
Institut, samfinansiering
01/07/2010 → 09/03/2015
Project: PhD

Activities:

Maul- und Klauenseuche – verschiedene Bekämpfungsmethoden und ihre Auswirkungen
Carola Sauter-Louis (Other), Christoph Staubach (Other), Thomas Selhorst (Other), Hisham Beshara Halasa, T. (Guest lecturer), Christine Pottgiiese (Other), Jorn Gethmann (Other), Carolina Probst (Other), Brend Haas (Other), Franz J. Conraths (Other)
6 Sep 2017 → 8 Sep 2017
Activity: Talks and presentations › Conference presentations