

WOAH Collaborative Centre Reports Activities 2025

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CENTRE INFORMATION

*Title of WOA Collaborating Centre	Economics of Animal Health
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*Name (including Title and Position) of Head of the Collaborating Centre (WOAH Contact Point):	Jonathan Rushton, Professor of Animal Health and Food Systems Economics
*Name of the writer:	Jonathan Rushton

TOR 1 AND 2: SERVICES PROVIDED

1. Activities as a centre of research, expertise, standardisation and dissemination of techniques within the remit of the mandate given by WOA

Category	Title of activity	Scope
Economics of Animal Health (true)	Economics of Animal Health	Estimations of the economic burden of animal diseases Economic assessment of animal disease mitigation actions (surveillance, prevention, control) Influence of human behaviour on introduction, maintenance and spread of animal diseases

TOR 3: HARMONISATION OF STANDARDS

2. Proposal or development of any procedure that will facilitate harmonisation of international regulations applicable to the main focus area for which you were designated

Proposal title	Scope/Content	Applicable Area
GBADs technical guide	Systematic estimation of animal disease burden	Training and Education

3. In exercising your activities, have you identified any regulatory research needs* relevant for WOA?H?

Yes

Research need 1

Please type the Research need: Systematic estimation of animal disease burdens

Relevance for WOA?H Disease Control, Capacity Building, Other, Standard Setting, Animal Welfare, Facilitation of international collaboration,

Relevance for the Code or Manual Code, Manual,

Field Epidemiology and Surveillance, Diagnostics, Vaccines, Therapeutics,

Animal Category Terrestrial, Aquatic,

Disease:

Kind of disease (Zoonosis, Transboundary diseases) Zoonosis, Transboundary diseases,

If any, please specify relevance for Codes or Manual, chapter and title

(e.g. Terrestrial Manual Chapter 2.3.5 - Minimum requirements for aseptic production in vaccine manufacture)

Answer:

Notes:

Answer:

4. Did your Collaborating Centre maintain a network with other WOA?H Collaborating Centres (CC), Reference Laboratories (RL), or organisations designated for the same specialty, to coordinate scientific and technical studies?

Yes

Name of WOA?H CC/RL/other organisation(s)	Location	Region of networking Centre	Purpose
Economics of animal health, led by Kansas State University (Professor Dustin Pendell)	USA, Americas	América	Collaboration on economics of animal health
IIAD Texas A&M - Biological Threat Reduction	USA, global	América	Work on ASF and point of care testing

TOR 4 AND 5: NETWORKING AND COLLABORATION

5. Did your Collaborating Centre maintain a network with other WOA?H Collaborating Centres, Reference laboratories, or organisations in other disciplines, to coordinate scientific and technical studies?

Yes

Name of WOA?H CC/RL/other organisation(s)	Location	Region of networking Centre	Purpose
IIAD, Biological Threat Reduction	USA	Americas	Economic simulation of ASF outbreaks in the USA

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IIAD, Biological Threat Reduction	USA	Americas	Economics of point of care testing for notifiable diseases
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TOR 6: EXPERT CONSULTANTS

6. Did your Collaborating Centre place expert consultants at the disposal of WOA?H?

Yes

Name of expert	Kind of consultancy	Subject
Jonathan Rushton	Online discussion (pro bono)	Discussions on the value of investments in animal health
Benjamin Huntington	Online discussion (pro bono)	Discussions on the value of investments in animal health

TOR 7: SCIENTIFIC AND TECHNICAL TRAINING

7. Did your Collaborating Centre provide advice/services to requests from Members in your main focus area?

Yes

During 2025 a request was made by the sub-regional office in the Gulf countries for a training course

8. Did your Collaborating Centre provide scientific and technical training, within the remit of the mandate given by WOA?H, to personnel from WOA?H Members?

Yes

a) Technical visit : 0

b) Seminars : 4

c) Hands-on training courses: 1

d) Internships (>1 month) : 0

Type of technical training provided (a, b, c or d)	Content	Country of origin of the expert(s) provided with training	No. participants from the corresponding country
C	Economics of animal health	UAE, Saudia Arabia, Oman, Yemen	20

TOR 8: SCIENTIFIC MEETINGS

9. Did your Collaborating Centre organise or participate in the organisation of scientific meetings related to your main focus area on behalf of WOA?H?

Yes

National/International	Title of event	Co-organiser	Date	Location	No. Participants
Internationally	Global FMD Research Alliance annual meeting	GFRA	2025-10-22	Istanbul, Turkey	250
Internationally	World Veterinary Association conference	WVA	2025-07-19	Washington DC, USA	150

Internationally	PPR Global Research and Expert Network	PPR GREN Secretariat	2025-11-25	Qingdao, China	150
Internationally	HealthForAnimals - Investment in animal health	HealthForAnimals	2025-07-04	Brussels, Belgium	100
Internationally	WOAH Regional meeting on Vector Borne Diseases	WOAH	2025-06-25	Italy	30

TOR 9: DATA AND INFORMATION DISSEMINATION

10. Publication and dissemination of any information within the remit of the mandate given by WOAHA that may be useful to Members of WOAHA

a) Articles published in peer-reviewed journals:

7

Asteraye, G.B., Jobling, R., Jemberu, W.T., Pinchbeck, G., Knight-Jones, T.J.D., Critchlow, R., Rushton, J., Chaters, G.L. (2025) Classification of donkey systems in Ethiopia, Preventive Veterinary Medicine, Volume 246, 106719, <https://doi.org/10.1016/j.prevetmed.2025.106719>.

Baumberger C., Anríquez G., Galdames P., Palma T., Gonzalez M.A., Orozco K., Oyarzun C., Rojas C., Marambio V., Ruiz S., Di Pillo F., Schultz-Cherry S., Jimenez-Bluhm P., Rushton J. & Hamilton-West C. (2025). – Exposure Practices to Animal-Origin Influenza A Virus at the Animal–Human Interface in Poultry and Swine Backyard Farms. Zoonoses and Public Health, 72 (1), 42–54. doi:10.1111/zph.13182.

Boeters, M., Steeneveld, W., Garcia-Morante, B., Rushton, J., & van Schaik, G. (2025). A dynamic framework for calculating the biomass of fattening pigs with an application in estimating the burden of porcine reproductive and respiratory syndrome in the Netherlands. Preventive Veterinary Medicine, 234, Article 106383. <https://doi.org/10.1016/j.prevetmed.2024.106383> <https://research-portal.uu.nl/ws/files/247047207/1-s2.0-S0167587724002691-main.pdf>

Clough H.E., Chaters G.L., Havelaar A.H., McIntyre K.M., Marsh T.L., Hughes E.C., Jemberu W.T., Stacey D., Afonso J.S., Gilbert W., Raymond K. & Rushton J. (2025). – A framework for handling uncertainty in a large-scale programme estimating the Global Burden of Animal Diseases. Front. Vet. Sci., 12. doi:10.3389/fvets.2025.1459209.

Lysholm S., Chaters G.L., Di Bari C., Hughes E.C., Huntington B., Rushton J. & Thomas L. (2025). – A framework for quantifying the multisectoral burden of animal disease to support decision making. Front. Vet. Sci., 12. doi:10.3389/fvets.2025.1476505.

Meyer A., Ndiaye B., Larkins A., Chaters G., Gilbert W., Huntington B., Ilboudo G., Dione M., Jemberu W.T., Diouf M.N., Fall A.G., Fall M., Lo M. & Rushton J. (2025). – Economic assessment of animal disease burden in Senegalese small ruminants. Preventive Veterinary Medicine, 234, 106382. doi:10.1016/j.prevetmed.2024.106382.

Murray E-J, Ryan E, Rushton J, Tratalos JA, Brock J, Tarrant E, Walshe S, Graham DA, Barrett D, Geraghty T and McAloon C (2025) Estimating sectoral livestock biomass and stock value using data from national diseases eradication programs: a case study based on the Irish cattle herd from 2011 to 2021. Front. Vet. Sci. 12:1648948. doi:10.3389/fvets.2025.1648948

b) International conferences:

6

c) National conferences:

d) Other (Provide website address or link to appropriate information):

1

Expert consultation on FMD organised by MSD

11. What have you done in the past year to advance your area of focus, e.g. updated technology?

Released an updated version of the GBADs Technical Guide (<https://animalhealthmetrics.org/gbads-technical-guide-v1-1/>)

Continue to run a joint seminar series with GBADs and the EU funded DECIDE project

Continue to run monthly meetings of the GBADs community of practice

12. Additional comments regarding your report: