

Sam Rowe

SENIOR LECTURER IN RUMINANT MEDICINE · UNIVERSITY OF SYDNEY

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Education

Doctorate of Philosophy

UNIVERSITY OF MINNESOTA

St. Paul, MN, USA

Aug. 2017 - Mar. 2020

- Major: Veterinary medicine. Minor: Epidemiology.
- Committee: Sandra Godden, Scott McDougall, Richard Maclehorse, Erin Royster, Luciano Caixeta

Master of Veterinary Medicine

MASSEY UNIVERSITY

Palmerston North, New Zealand

Sep. 2012 - Jan. 2017

- Major: Production animal medicine, Advisor: Richard Laven

Bachelor of Veterinary Science

JAMES COOK UNIVERSITY

Townsville, QLD, Australia

Jan. 2006 - Dec. 2010

Graduate Certificate in Higher Education

UNIVERSITY OF SYDNEY

Sydney, NSW, Australia

Jan. 2021 - Dec. 2021

Skills

Epidemiology	Observational studies, Clinical trials, Bias analysis, Hierarchical data, Test validation
Biostatistics	Regression, Mixed models, GEE, Structural Equation Modelling, Bayesian Latent Class models
Programming	R, Shiny, Stata, SAS, Latex, Markdown
Other software	Git, DairyCOMP 305, PCDART, DairyWin, CPM Dairy, AminoCow, Standard Office suites
Clinical skills	Farm consultancy, Advanced cattle practice, Milk Culture

Research Experience

Senior Lecturer

UNIVERSITY OF SYDNEY

Sydney, NSW, Australia

April. 2020 - Present

- Supervisor: John House
- Overview: Applied epidemiology for improving animal health, welfare and antibiotic stewardship in the dairy industry

Peer Reviewer

VARIOUS JOURNALS

Sydney, NSW, Australia

2018 - current

- J. Dairy Science, Frontiers in Veterinary Science, Animals, Australian Vet Journal, JDS Communications, New Zealand Veterinary Journal, The Veterinary Journal

Research assistant

UNIVERSITY OF MINNESOTA

St. Paul, MN, USA

Aug. 2017 - Present

- Supervisor: Dr Sandra Godden
- Overview: Conducting observational and experimental research into the treatment and prevention of mastitis in US dairy herds

Research manager

TABLELAND VETERINARY SERVICE

Malanda, Australia

Jan. 2015 - July. 2017

- Supervisors: Dr Bill Tranter and Dr John Cavalieri
- Clinical trials investigating novel approaches to mastitis management and reproduction

Teaching Experience

Senior Lecturer

UNIVERSITY OF SYDNEY

Sydney, Australia

2020 - Present

- VETS6406: Course coordinator. Mentoring of final-year veterinary students in a clinical setting
- VETS6304 and VETS6310: Didactic lecturers in bovine mastitis, lameness, and infectious gastrointestinal diseases.
- AVBS4002: Didactic lecturers in dairy herd reproductive management.

Lecturer

UNIVERSITY OF MINNESOTA

St Paul, USA

Oct. 2017 - 2020

- CVM 6917 Agents of Disease II: Lectures and lab sessions in the detection, diagnosis and epidemiology of bovine mastitis.
- CVM 6977 Advanced Dairy Production Medicine: Lectures, lab sessions and on-farm activities in mastitis management.

Adjunct Lecturer

JAMES COOK UNIVERSITY

Queensland, Australia

Jan. 2015 - July. 2017

- Course: TV5211:09 Veterinary Professional and Clinical Practice
- Mentoring of final-year veterinary students in a clinical setting.
- Active learning environment that included farm visits, classroom activities, clinical skills sessions

Professional Experience

Veterinarian

UNIVERSITY OF SYDNEY - LIVESTOCK VETERINARY SERVICE

Camden, Australia

April 2020 - Present

- Consultancy caseload: reproductive management, milk quality, dairy cow nutrition, calf health and herd lameness management.
- Clinical caseload: clinical examinations, surgery, lameness and obstetrics.
- Student mentoring and teaching

Technical consultant & Farm extension contractor

DAIRY AUSTRALIA

Victoria, Australia

Jan. 2013 - March. 2020

- Scientific review and revision of Dairy Australia's mastitis management technical manual
- Scientific review of selected chapters from Dairy Australia's calf health technical manual
- Delivered farmer extension workshops in the areas of mastitis management, reproductive management, transition nutrition, calf rearing, lameness prevention and wet weather planning

Associate Veterinarian

TABLELAND VETERINARY SERVICE

Malanda, Australia

Jan. 2011 - July 2017

- Consultancy caseload: reproductive management, milk quality, dairy cow nutrition, calf health and herd lameness management.
- Clinical caseload: clinical examinations, surgery, lameness and obstetrics.
- Manager of TVS milk quality laboratory
- Student mentoring and teaching (see Teaching experience)

Board Certification by Examination

Fellow - Australian and New Zealand College of Veterinary Scientists

VETERINARY EPIDEMIOLOGY

AUS

2024

Member - Australian and New Zealand College of Veterinary Scientists

VETERINARY EPIDEMIOLOGY, MEDICINE OF DAIRY CATTLE

Australia

2017, 2021

American Board of Veterinary Practitioners

DIPLOMATE IN DAIRY PRACTICE

USA

2017

Advance HE

FELLOW HIGHER EDUCATION ACADEMY (FHEA)

UK

2022

Membership

Current	Society for Epidemiologic Research,	USA
Current	American Dairy Science Association,	USA
Current	American Association of Bovine Practitioners,	USA
Current	National Mastitis Council,	USA
Current	Australian Veterinary Association,	Australia
Current	Australian Cattle Veterinarians,	Australia
Current	Sydney Institute of Agriculture,	Australia

Committees

Current	Outcome Assessment Working Group, Sydney School of Veterinary Science	AUS
Current	Workshop organising committee, Int. Symposium on Vet. Epidemiology and Economics	AUS
Current	Research Committee, National Mastitis Council	USA
Current	Morbidity and Mortality Committee, University Vet Teaching Hospital Camden	AUS
2021-2023	Research Advisory Committee, Sydney School of Veterinary Science	AUS
2021-2022	Strategic Plan Committee, National Mastitis Council	USA
2021	Scientific Program Organising Committee, National Mastitis Council	USA
2020-2024	Milk Quality and Udder Health Committee, American Assoc. of Bovine Practitioners	USA
2020-2022	Mastitis Resistance to Enhance Food Safety, USDA NE1748	USA
2020-2021	Antimicrobial Use Monitoring Group, Dairy Australia	AUS
2019-2020	Representative for Veterinary Medicine, Council of Graduate Students, U. Minnesota	USA
2015-2017	North Queensland Committee, Dairy Australia	Australia

Honors & Awards

2023	Outstanding Early Career Teaching, Faculty of Science Awards, U. Sydney	NSW, Australia
2023	Excellence in Research (Clinical Academic), Sydney School of Veterinary Science	NSW, Australia
2022	Excellence in Service Research Activity, Sydney School of Veterinary Science	NSW, Australia
2021	Excellence in Teaching, Sydney School of Veterinary Science	NSW, Australia
2020	National Mastitis Council Scholar, National Mastitis Council	FL, U.S.A
2019	Graduate student competition (1st), Assoc for Vet Epi and Prev Med (at CRWAD 2019)	IL, U.S.A
2019	Graduate student competition (3rd), American Association of Bovine Practitioners	MO, U.S.A
2019	Three minute thesis (1st), American Dairy Science Association	OH, U.S.A
2019	Travel Award, Council of Graduate Students, U. Minnesota	MN, U.S.A
2019	MnDRIVE Scholar, Global Food Ventures, U. Minnesota	MN, U.S.A
2019	Graduate Student Travel award, College of Veterinary Medicine, U. Minnesota	MN, U.S.A
2017	Graduate Student Travel award, College of Veterinary Medicine, U. Minnesota	MN, U.S.A
2015	George Osbourne Award, Australian Cattle Veterinarians	Hobart, Australia
2015	Coopers Rural Practice Scholarship, Australian Cattle Veterinarians	Hobart, Australia

Publications

PEER-REVIEWED

In Press	Nicholas Goh, John House, and Sam Rowe . "Retrospective cohort study investigating the relationship between diarrhea during the preweaning period and subsequent survival, health and production in dairy cows". <i>Journal of Dairy Science</i>
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- In Press **Sam Rowe**, John K. House Hannah Pooley, Stephanie Bullen, Mark Humphris, Luke Ingenhoff, Jacqueline M. Norris 1, and Ruth N. Zadoks. "Evaluation of Point-of-Care Tests for Identification of Pathogens to Inform Clinical Mastitis Treatment Decisions in Pasture- and Confinement-Managed Dairy Cows in Australia." *Journal of Dairy Science* 10.3168/jds.2023-24612
- In Press Andrew McPherson, Bill Tranter, Ash Phipps, Richard Laven, John House, Ruth N. Zadoks and **Sam Rowe**. "Etiology and epidemiology of digital dermatitis in Australian dairy herds." *Journal of Dairy Science* 10.3168/jds.2023-24258
- 2024 **Sam Rowe**, John K. House, and Ruth N. Zadoks, "Milk as Diagnostic Fluid for Udder Health Management." *Australian Veterinary Journal* 102(1) 5-10 10.1111/avj.13290
- 2023 John K House, **Sam M Rowe**, Ruth N Zadoks, Katrina L Bosward, Paul A Sheehy, Victoria Brookes, Jacqui M Norris "Engaging livestock clinical staff through research and collaboration" *American Journal of Veterinary Research* 84(11) 10.2460/ajvr.23.09.0202
- 2023 **Sam Rowe**, Courtney Cunningham, Luke Ingenhoff, Jacqueline M. Norris, and Ruth N. Zadoks, "Low prevalence of antimicrobial resistant organisms (methicillin resistant *Staphylococcus aureus*, extended beta-lactamase producing *Enterobacteriaceae*, and vancomycin resistant enterococci) in bulk tank milk in New South Wales, Australia." *Australian Veterinary Journal* 101(9) 339-344 10.1111/avj.13266
- 2023 M Dziuba, L Caixeta, B Boyum, S Godden, E Royster and **S Rowe**, "Negatively controlled trial investigating the effect of dry cow therapy on clinical mastitis and culling in multiparous cows." *Journal of Dairy Science* 106(8) 5687-5695 10.3168/jds.2022-22845
- 2023 RN Zadoks, E Scholz, **SM Rowe**, JM Norris, HB Pooley, J House. "A framework for evaluation of on-farm mastitis diagnostics in Australia." *Australian Veterinary Journal* 101(4) 142-152 10.1111/avj.13228
- 2023 **Sam Rowe**, Fidele Kabera, Simon Dufour, Sandra Godden, Jean-Philippe Roy, Daryl Nydam. "Selective Dry Cow Therapy can be Implemented Successfully in Cows of All Milk Production Levels." *Journal of Dairy Science* 106(3) 1953-1967 10.3168/jds.2022-22547
- 2022 Daryna Kurban, Jean-Philippe Roy, Fidèle Kabera, Annie Fréchette, Maryse Michèle Um, Ahmad Albaaj, **Sam Rowe**, Sandra Godden, Pamela R. F. Adkins, John R. Middleton et al. "Diagnosing Intramammary Infection: Meta-analysis and Mapping Review on Frequency and Udder Health Relevance of Microorganism Species Isolated from Bovine Milk Samples" *Animals* 12,3288 . 10.3390/ani12233288
- 2022 Simona Aukse Zduoba, John House, **Sam Rowe**. "Can Apps be Used to Formulate Fluid Therapy Plans in Veterinary Medicine?" *J Veterinary Internal Medicine* 36:2079–2087 10.1111/jvim.16526
- 2022 McCubbin, K.D., de Jong, E., Lam, T.J., Kelton, D.F., Middleton, J.R., McDougall, S., De Vlieghe, S., Godden, S., Rajala-Schultz, P.J., **Rowe, S.** and Speksnijder, D.C. "Invited review: Selective use of antimicrobials in dairy cattle at drying-off" *Journal of Dairy Science* 105(9) 7161-7189 . 10.3168/jds.2021-21455
- 2022 Tui Ray, Tara Nath Gaire, Christopher J. Dean, **Sam Rowe**, Sandra M. Godden, Noelle R. Noyes. "The microbiome of common bedding materials before and after use on commercial dairy farms." *Animal Microbiome* 4(18) . 10.1186/s42523-022-00171-2
- 2022 Dyson, R., Charman, N., Hodge, A., **Rowe, S.M.**, Taylor, L.F. "A Survey of Mastitis Pathogens including antimicrobial susceptibility in South Eastern Australian Dairy herds." *Journal of Dairy Science* 105(2) 1504-1518 . 10.3168/jds.2021-20955
- 2022 Tellis, A.N., **Rowe, S.M.**, Coilparampil, R., Jenkins, C., Dart, A., Zadoks, R.N., Regnerus, C.D., Bosward, K.L. "Evaluation of three immunological assays to mitigate the risk of transboundary spread of *Coxiella burnetii* by alpacas." *Transboundary and Emerging Diseases* 69(2), pp. 793–804 . 10.1111/tbed.14051
- 2021 **Rowe, S.M.**, Vasquez, A.K., Godden, S.M., Nydam, D.V., Royster, E., Timmerman, J., Boyle, M. "Evaluation of 4 predictive algorithms for intramammary infection status in late-lactation cows." *Journal of Dairy Science* 104(10) 11035-11046 . 10.3168/jds.2021-20504

- 2021 **Rowe, S.M.**, Godden, S.M., Royster, E., Timmerman, J., Boyle, M. "Post-calving udder health and productivity in cows approaching dry-off with intramammary infections caused by non-aureus Staphylococcus, Aerococcus, Enterococcus, Lactococcus and Streptococcus species." *Journal of Dairy Science* 104(5) 6061-6079 . jds.2020-19288
- 2021 **Rowe, S.M.**, D.V. Nydam, S.M. Godden, P.J. Gorden, A. Lago, A.K. Vasquez, E. Royster, J. Timmerman, M.J. Thomas, and R.A. Lynch, "Partial budget analysis of culture and algorithm-guided selective dry cow therapy." *Journal of Dairy Science* 104(5) 5652-5664 . 10.3168/jds.2020-19366
- 2021 **Rowe, S.M.**, W.P. Tranter, and R.A. Laven, "Longitudinal Study of Herd Udder Hygiene and its Association with Clinical Mastitis in Pasture-Based Dairy Cows." *Journal of Dairy Science* 104(5) 6051-6060 . 10.3168/jds.2020-19254
- 2020 **Rowe, S.M.**, S.M. Godden, D.V. Nydam, P.J. Gorden, A. Lago, A.K. Vasquez, E. Royster, J. Timmerman, and M.J. Thomas. "Randomized controlled non-inferiority trial investigating the effect of 2 selective dry cow therapy protocols on antibiotic use at dry-off and dry period intramammary infection dynamics." *Journal of Dairy Science* 103(7), 6473-6492 . 10.3168/jds.2019-17728
- 2020 **Rowe, S.M.**, S.M. Godden, D.V. Nydam, P.J. Gorden, A. Lago, A.K. Vasquez, E. Royster, J. Timmerman, and M.J. Thomas. "Randomized controlled trial investigating the effect of 2 selective dry-cow therapy protocols on udder health and performance in the subsequent lactation." *Journal of Dairy Science* 103(7), 6493-6503 . 10.3168/jds.2019-17961
- 2020 **Rowe, S.M.**, S.M. Godden, D.V. Nydam, P.J. Gorden, A. Lago, A.K. Vasquez, E. Royster, J. Timmerman, and M.J. Thomas. "Evaluation of rapid culture, a predictive algorithm, esterase somatic cell count and lactate dehydrogenase to detect intramammary infection in quarters of dairy cows at dry-off." *Preventive Veterinary Medicine* 179:104982 . 10.1016/j.prevetmed.2020.104982
- 2020 **Rowe, S.M.**, S.M. Godden, D.V. Nydam, A. Lago, A.K. Vasquez, E. Royster and J. Timmerman. "Randomized equivalence study comparing the efficacy of 2 commercial internal teat sealants in dairy cows." *Journal of Dairy Science* 103(6), 5398-5413 . 10.3168/jds.2019-17884
- 2019 **Rowe, S.M.**, Godden, S.M., Royster, E., Timmerman, J., Crooker, B.A., Boyle, M. "Cross-sectional study of the relationship between bedding materials, bedding bacteria counts and intramammary infection in late lactation dairy cows" *Journal of Dairy Science* 102(12), 11384-11400 . 10.3168/jds.2019-17074
- 2019 **Rowe, S.M.**, Godden, S.M., Royster, E., Timmerman, J., Boyle, M. "Cross-sectional study of the relationship between cloth udder towel management, towel bacteria counts and intramammary infection in late lactation dairy cows" *Journal of Dairy Science* 102(12), 11401-11413 . 10.3168/jds.2019-17075
- 2019 Hosie, J., **Rowe, S.M.**, Morton, J.M., Tranter, W.P., Cavalieri, J. "Use of a sanitary sheath at the time of artificial insemination by non professional ("DIY") technicians does not markedly improve pregnancy rates to artificial insemination in pasture-based dairy cows." *Journal of Dairy Science*, 102(6), 5588-5598 . 10.3168/jds.2018-16082
- 2019 **Rowe, S.M.**, L., Tranter, W.P., Hosie, J., Cavalieri, J. "Effect of equine chorionic gonadotropin on reproductive performance in a dairy herd in Northern Queensland, Australia." *Theriogenology*, 125, 30-36 . 10.1016/j.theriogenology.2018.10.016
- 2018 **Rowe, S.M.**, Tranter, W.P., Laven, R. "Effect of premilking teat disinfection on clinical mastitis incidence in a dairy herd in Northern Queensland, Australia." *Australian Veterinary Journal*, 96(3), 69-75 . 10.1111/avj.12674

PUBLISHED IN CONFERENCE PROCEEDINGS

- 2023 **Rowe, S.M.**, Barrett, C., Hapukotuwa, D., Mohler, J., and House, J. "Development of an app to engage students in clinic financial management", Proc. *VetEd Down Under* 2023 meeting, USA

- 2022 **Rowe, S.M.**, M. Dziuba, B. Boyum, S. Godden, E. Royster, and L. Caixeta "Negatively Controlled Trial Investigating the Effect of Dry Cow Therapy on Clinical Mastitis and Culling", Proc. 61th Annual meeting of the *National Mastitis Council*, USA
- 2022 Daryna Kurban, Jean-Philippe Roy, Fidèle Kabera, Annie Fréchette, Maryse Michèle Um, Ahmad Albaaj, **Sam Rowe**, Sandra Godden, Pamela R. F. Adkins, John R. Middleton, Marie-Lou Gauthier, Greg Keefe, Trevor J. DeVries, David F. Kelton, Paolo Moroni, Marcos Veiga dos Santos, Herman W. Barkema and Simon Dufour. "Diagnosing Intramammary Infection: Meta-analysis and Mapping Review on Frequency and Udder Health Relevance of Microorganism Species Retrieved in Bovine Milk Samples", Proc. 61th Annual meeting of the *National Mastitis Council*, USA
- 2021 M. Dziuba, **Rowe, S.M.**, B. Boyum, S. Godden, E. Royster, and L. Caixeta, "Negatively Controlled Trial Investigating the Effect of Dry Cow Therapy on Clinical Mastitis and Culling", *American Association of Bovine Practitioners* Proc. 54th Annual Conference, Salt Lake City, UT, USA. p. X
- 2021 **Rowe, S.M.**, Vasquez, A., Godden, S.M., Nydam, D.V., "Selective dry cow therapy protocols to enhance udder health from dry-off to calving", Proc. *American Dairy Science Association* Annual Meeting, p., USA
- 2021 **Rowe, S.M.**, M. Dziuba, B. Boyum, S. Godden, E. Royster, and L. Caixeta "Negatively Controlled Trial Investigating the Effect of Dry Cow Therapy on Clinical Mastitis and Culling", Proc. *American Dairy Science Association* Annual Meeting, p. 354, USA
- 2021 **Rowe, S.M.**, Vasquez, A., Godden, S.M., Nydam, D.V., "Decision Support Tools for Selective Dry Cow Therapy", Proc. 60th Annual meeting of the *National Mastitis Council*, USA
- 2021 **Rowe, S.M.**, Vasquez, A., Godden, S.M., Nydam, D.V., Royster, E., Timmerman, J., Boyle, M. "Evaluation of Four Predictive Algorithms for Intramammary Infection Status in Late Lactation Cows", Proc. 60th Annual meeting of the *National Mastitis Council*, USA
- 2021 **Rowe, S.M.**, Nydam, D.V., Godden, S.M., Gorden, P., Lago, A., Royster, E., Vasquez, A., Thomas, M., Lynch, R. "Partial budget analysis of selective dry cow therapy strategies", Proc. 60th Annual meeting of the *National Mastitis Council*, USA
- 2021 Vasquez, A., **Rowe, S.M.**, Godden, S.M., Nydam, D.V., Royster, E., Timmerman, J., Boyle, M. "Contribution of Algorithm Components for Determining Intramammary Infection Status Around Dry-off", Proc. 60th Annual meeting of the *National Mastitis Council*, USA
- 2021 Vasquez, A., Nydam, D.V., **Rowe, S.M.**, Godden, S.M., Gorden, P., Lago, A., Royster, E., Thomas, M., Lynch, R. "Impact of Dry Cow Antimicrobial Use on the Milk Microbiome: Characterization of Dry-off and Fresh-cow Samples from 6 U.S. Dairy Farms", Proc. 60th Annual meeting of the *National Mastitis Council*, USA
- 2020 **Rowe, S.M.**, Godden, S.M., Royster, E., Timmerman, J., Boyle, M. "Post-calving udder health in cows approaching dry-off with intramammary infections caused by Staphylococcus and Strep or Strep-like organisms", *Conference for Research Workers in Animal Disease*, Proc. of the 101st Annual Conference: p.312
- 2020 **Rowe, S.M.**, Nydam, D.V., Godden, S.M., Gorden, P., Lago, A., Royster, E., Vasquez, A., Thomas, M., Lynch, R. "Partial budget analysis of selective dry cow therapy strategies", *Conference for Research Workers in Animal Disease*, Proc. of the 101st Annual Conference, p.94
- 2020 Ray, T., Dean, C., **Rowe, S.M.**, Godden, S.M., Noyes, N., "The microbiome of common bedding materials, before and after use on commercial dairy farms", *Conference for Research Workers in Animal Disease*, Proc. of the 101st Annual Conference: p.328
- 2020 Vasquez, A., **Rowe, S.M.**, Nydam, D.V., Godden, S.M., Gorden, P., Lago, A., Royster, E., Thomas, M. "Partial budget analysis of selective dry cow therapy strategies", *American Dairy Science Association* Annual Meeting, USA. p. 139-140
- 2020 **Rowe, S.M.**, Godden, S.M., Nydam, D.V., Lago, A., Thomas, M., Royster, E., Vasquez, A., Timmerman, J., Thomas, M., "Randomized controlled trial investigating the effect of two selective dry cow therapy protocols on antibiotic use and udder health", Proc. 59th Annual meeting of the *National Mastitis Council*

- 2020 **Rowe, S.M.**, Godden, S.M., Nydam, D.V., Lago, A., Royster, E., Vasquez, A., "Randomized controlled trial evaluating the efficacy of two commercial internal teat sealants in dairy cows", Proc. 59th Annual meeting of the *National Mastitis Council*
- 2019 **Rowe, S.M.**, Godden, S.M., Nydam, D.V., Lago, A., Royster, E., Vasquez, A. "Randomized controlled trial evaluating the efficacy of two commercial internal teat sealants in dairy cows", *Conference for Research Workers in Animal Disease*, Proc. of the 100th Annual Conference. p100
- 2019 **Rowe, S.M.**, Godden, S.M., Nydam, D.V., Gorden, P., Lago, A., Royster, E., Vasquez, A., Thomas, M. "Selective dry cow therapy on U.S. dairy farms: Impact on udder health", *Conference for Research Workers in Animal Disease*, Proc. of the 100th Annual Conference. p98
- 2019 **Rowe, S.M.**, Godden, S.M., Nydam, D.V., Lago, A., Royster, E., Vasquez, A., "Randomized controlled trial evaluating the efficacy of two commercial internal teat sealants in dairy cows", *American Association of Bovine Practitioners* Proc. 52nd Annual Conference, St Louis, MO, USA.
- 2019 **Rowe, S.M.**, Godden, S.M., Nydam, D.V., Gorden, P., Lago, A., Royster, E., Vasquez, A., Timmerman, J., Thomas, M., "Selective dry cow therapy on U.S. dairy farms: Impact on udder health", *American Association of Bovine Practitioners* Proc. 52nd Annual Conference, St Louis, MO, USA. p. 332
- 2019 Godden, S.M., Royster, E., **Rowe, S.M.**, Patel, K., Timmerman, J., Crooker, B., Fox, L., "Chipping Away at the Tough Questions about Bedding Management and Mastitis", *American Association of Bovine Practitioners* Proc. 52nd Annual Conference, St Louis, MO, USA. p. 321-326
- 2019 **Rowe, S.M.**, Godden, S.M., Nydam, D.V., Gorden, P., Lago, A., Royster, E., Vasquez, A. "Late Breaking - Selective dry cow therapy on U.S. dairy farms: Impact on udder health", *American Dairy Science Association* annual meeting: p. 1
- 2019 **Rowe, S.M.**, Godden, S.M., Royster, E., Timmerman, J., Boyle, M. "Investigation Of The Relationship Between Bedding Bacteria Count And Intramammary Infection In Late Lactation Dairy Cows: Interim Findings". Proc. 58th Annual meeting of the *National Mastitis Council*: 153-154.
- 2019 **Rowe, S.M.**, Godden, S.M., Royster, E., Timmerman, J., Boyle, M. "Investigation of the Relationship Between Udder Towel Hygiene, Udder Towel Management and Intramammary Infection in Late-lactation Dairy Cows". Proc. 58th Annual meeting of the *National Mastitis Council* p. 153-154.
- 2018 **Rowe, S.M.**, Godden, S.M., Royster, E., Timmerman, J., Crooker, B., Boyle, M., "Investigation of the relationship between bedding bacteria count and intramammary infection in late lactation dairy cows." *American Association of Bovine Practitioners*, Proceedings of the 51st Annual Conference, Phoenix, AZ, p. 289
- 2018 **Rowe, S.M.**, Godden, S.M., Royster, E., Timmerman, J., Boyle, "Investigation of the Relationship Between Udder Towel Hygiene, Udder Towel Management and Intramammary Infection in Late-lactation Dairy Cows." *American Association of Bovine Practitioners*, Proceedings of the 51st Annual Conference, Phoenix, AZ, p. 290
- 2016 Tranter, WP, **Rowe, S.M.**, "How I treat low fertility in year round calving dairy herds: a problem-based approach." Proceedings of the *Australian Cattle Veterinarians* Annual Conference, Uluru 2016, p. 81 - 89
- 2015 **Rowe, S.M.**, D.I.Y. milk culturing: Practical microbiology for humble cattle vets. Proceedings of the *Australian Cattle Veterinarians* Annual Conference, Hobart 2015, p. 284 – 289

NON PEER-REVIEWED

- 2022 **Sam Rowe**, "Intravenous fluid therapy for calves just got a whole lot easier" *HoofPrint*. 40(3) pp 20-21 . Click to view
- 2022 **Sam Rowe**, Sandra Godden, Amy Vasquez and Daryl Nydam., "An update on evidence-based selective dry cow therapy protocols" *M2-Magazine*. 32-2022 . Click to view
- 2021 **Rowe, S.M.**, When is a Dairy Herd Ready for Selective Dry Cow Therapy?" *[Udder Topics]*. Vol 44. No. 6 . Click to view

- 2021 Vasquez, A.K., **Rowe, S.M.**, "Selective dry cow therapy: Antimicrobial stewardship can offer returns in appropriate herds" *Progressive Dairy*. July 2021 Edition . Click to view
- 2020 **Rowe, S.M.**, "Evaluation of selective dry cow therapy for controlling mastitis and improving antibiotic stewardship in U.S. dairy herds" [*Doctoral Thesis*]. University of Minnesota . Click to view
- 2020 **Rowe, S.M.**, "Research Summary: Cloth Udder Towel Management" *dairyproducer.com*. January 2020 Edition . Click to view
- 2016 **Rowe, S.M.**, "Effect of pre-milking teat disinfection on clinical mastitis incidence in a dairy herd in Northern Queensland" [*Masters Thesis*]. Massey University.
- 2016 **Rowe, S.M.**, S. Calf mortalities in a dairy herd. *Australian Cattle Veterinarian* 79:14-19
- 2016 **Rowe, S.M.**, Investigation into a herd with a high incidence interdigital necrobacillosis. *Australian Cattle Veterinarian* 78:23-29
- 2014 **Rowe, S.M.**, Tranter WP. Pseudomonas mastitis in a dairy herd. *Australian Cattle Veterinarian* 73:20-21 . Click to view

Scientific Presentations

- 2023 **Rowe, S.M.**, "Development and evaluation of a Shiny app for guiding fluid therapy", *Vet Science Week*, Gold Coast, Australia
- 2023 **Rowe, S.M.**, "Cross-sectional study into the epidemiology of digital dermatitis in Australian dairy herds", *Vet Science Week*, Gold Coast, Australia
- 2023 **Rowe, S.M.**, "Using rapid culture and data algorithms to optimise mastitis management", *Vet Science Week*, Gold Coast, Australia
- 2023 **Rowe, S.M.**, "Is ChatGPT a better vet than you?", *Vet Science Week*, Gold Coast, Australia
- 2023 **Rowe, S.M.**, "New ways of drying off", *Australian Cattle Veterinarians Conference*, Darwin, Australia
- 2023 **Rowe, S.M.**, "New ways to use tech in cattle practice", *Australian Cattle Veterinarians Conference*, Darwin, Australia
- 2023 **Rowe, S.M.**, "We made an invoicing app to engage students in clinic financial management", *VetEd Down Under*, Perth, Australia
- 2023 **Rowe, S.M.**, "How does recent research influence our management of clinical mastitis on dairy farms in Australia?", *Dairy Australia MQ5 meeting*, Australia (online)
- 2022 **Rowe, S.M.**, "Update on coursework for HDR students at the University of Sydney", *SSVS Post Graduate Student Conference*, Sydney, Australia
- 2022 **Rowe, S.M.**, "Evaluation of mastitis diagnostics using the ASSURED criteria", *Food Agility Research Symposium*, Australia (online)
- 2022 **Rowe, S.M.**, "Mastitis therapy", *Massey MVM Mastitis contact workshop*, New Zealand (online)
- 2022 **Rowe, S.M.**, "Evidence based dry cow therapy", *Zoetis Academy Webinar*, Australia (online)
- 2022 **Rowe, S.M.**, "Investigation of the capacity of the different on farm diagnostic methods to accurately identify mastitis pathogens for on-farm mastitis diagnostics available in Australia and based on the ASSURED criteria for point-of-care testing in low resources settings", *Dairy Australia Milk Quality Meeting*, Melbourne, Australia
- 2022 **Rowe, S.M.**, "Study design and statistical considerations for field studies investigation animal diseases", *Animal Research Review Panel Webinar*, Australia (online)
- 2022 **Rowe, S.M.**, "Examination of ruminants", *FAO Workshop for animal health officers in Pacific island nations*, Oceania region (online)
- 2022 **Rowe, S.M.**, "Evidence based mastitis therapy", *Zoetis Academy Webinar*, Australia

- 2022 **Rowe, S.M.**, "Selective dry cow therapy: Science in practice from a US perspective", *Merck advisor training day*, Spain (online)
- 2022 **Rowe, S.M.**, M. Dziuba, B. Boyum, S. Godden, E. Royster, and L. Caixeta "Negatively Controlled Trial Investigating the Effect of Dry Cow Therapy on Clinical Mastitis and Culling", *National Mastitis Council Annual Meeting*, USA (online)
- 2022 **Rowe, S.M.**, "Decision Support Tools for Selective Dry Cow Therapy", *Western Canadian Association of Bovine Practitioners Annual Conference*, Canada (online)
- 2021 **Rowe, S.M.**, "Development and evaluation of a decision support system for treatment of clinical mastitis", *Mastitis Research Workers Conference*, USA (online)
- 2021 **Rowe, S.M.**, Vasquez, A., Godden, S.M., Nydam, D.V., "Selective dry cow therapy protocols to enhance udder health from dry-off to calving", Proc. *American Dairy Science Association Annual Meeting*, USA
- 2021 **Rowe, S.M.**, M. Dziuba, B. Boyum, S. Godden, E. Royster, and L. Caixeta "Negatively Controlled Trial Investigating the Effect of Dry Cow Therapy on Clinical Mastitis and Culling", *American Dairy Science Association Annual Meeting*, USA
- 2021 **Rowe, S.M.**, "Selective Dry Cow Therapy: Science into practice from a US perspective", *MEX ConneXion Event 2021*, Belgium (online)
- 2021 **Rowe, S.M.**, Nydam, D.V., Godden, S.M., Gorden, P., Lago, A., Royster, E., Vasquez, A., Thomas, M., Lynch, R. "Partial budget analysis of selective dry cow therapy strategies", *Ruminant Seminar*, U. Minnesota, St Paul, USA
- 2021 **Rowe, S.M.**, Vasquez, A., Godden, S.M., Nydam, D.V., "Decision Support Tools for Selective Dry Cow Therapy", *National Mastitis Council Annual Meeting*, USA
- 2021 **Rowe, S.M.**, Vasquez, A., Godden, S.M., Nydam, D.V., Royster, E., Timmerman, J., Boyle, M. "Evaluation of Four Predictive Algorithms for Intramammary Infection Status in Late Lactation Cows", *National Mastitis Council Annual Meeting*, USA
- 2021 **Rowe, S.M.**, Nydam, D.V., Godden, S.M., Gorden, P., Lago, A., Royster, E., Vasquez, A., Thomas, M., Lynch, R. "Partial budget analysis of selective dry cow therapy strategies", *National Mastitis Council Annual Meeting*, USA
- 2020 **Rowe, S.M.**, Nydam, D.V., Godden, S.M., Gorden, P., Lago, A., Royster, E., Vasquez, A., Thomas, M., Lynch, R. "Partial budget analysis of selective dry cow therapy strategies", *Mastitis Research Workers Conference*, USA
- 2020 **Rowe, S.M.**, Godden, S.M., Royster, E., Timmerman, J., Boyle, M. "Post-calving udder health in cows approaching dry-off with intramammary infections caused by Staphylococcus and Strep or Strep-like organisms", *Conference for Research Workers in Animal Disease*, USA
- 2020 **Rowe, S.M.**, Nydam, D.V., Godden, S.M., Gorden, P., Lago, A., Royster, E., Vasquez, A., Thomas, M., Lynch, R. "Partial budget analysis of selective dry cow therapy strategies", *Conference for Research Workers in Animal Disease*, USA
- 2020 **Rowe, S.M.**, Nydam, D.V., Godden, S.M., Gorden, P., Lago, A., Royster, E., Vasquez, A., Thomas, M., Lynch, R. "Partial budget analysis of selective dry cow therapy strategies", *American Dairy Science Association Annual Meeting*, USA
- 2020 **Rowe, S.M.**, Godden, S.M., Nydam, D.V., Gorden, P., Lago, A., Royster, E., Vasquez, A., Thomas, M. "Randomized controlled trial investigating the effect of two selective dry cow therapy protocols on antibiotic use and udder health", *National Mastitis Council Annual Meeting*, Orlando, FL, USA
- 2019 **Rowe, S.M.**, Godden, S.M., Nydam, D.V., Lago, A., Royster, E., Vasquez, A. "Randomized controlled trial evaluating the efficacy of two commercial internal teat sealants in dairy cows", *Mastitis Research Workers Conference*, Columbia, MO, USA

- 2019 **Rowe, S.M.,** Godden, S.M., Nydam, D.V., Gorden, P., Lago, A., Royster, E., Vasquez, A., Thomas, M. "Selective dry cow therapy on U.S. dairy farms: Impact on udder health", *Mastitis Research Workers Conference*, Columbia, MO, USA
- 2019 **Rowe, S.M.,** Godden, S.M., Nydam, D.V., Lago, A., Royster, E., Vasquez, A. "Randomized controlled trial evaluating the efficacy of two commercial internal teat sealants in dairy cows", *Conference for Research Workers in Animal Disease*, Chicago, IL, USA
- 2019 **Rowe, S.M.,** Godden, S.M., Nydam, D.V., Gorden, P., Lago, A., Royster, E., Vasquez, A., Thomas, M. "Selective dry cow therapy on U.S. dairy farms: Impact on udder health", *Conference for Research Workers in Animal Disease*, Chicago, IL, USA
- 2019 **Rowe, S.M.,** Godden, S.M., Nydam, D.V., Gorden, P., Lago, A., Royster, E., Vasquez, A., Thomas, M. "Selective Dry Cow Therapy in U.S. Dairy Herds: Impacts on Health", *College of Veterinary Medicine Graduate Student Seminar*, U. Minnesota, St Paul, MN, USA
- 2019 **Rowe, S.M.,** Godden, S.M., Nydam, D.V., Gorden, P., Lago, A., Royster, E., Vasquez, A., Thomas, M. "Selective Dry Cow Therapy in U.S. Dairy Herds: Impacts on Health", *Department of Animal Science Graduate Student Seminar*, U. Minnesota, St Paul, MN, USA
- 2019 **Rowe, S.M.,** Godden, S.M., Nydam, D.V., Lago, A., Royster, E., Vasquez, A. "Randomized controlled trial evaluating the efficacy of two commercial internal teat sealants in dairy cows", *American Association of Bovine Practitioners Annual Meeting*, St Louis, MO, USA
- 2019 **Rowe, S.M.,** Godden, S.M., Nydam, D.V., Gorden, P., Lago, A., Royster, E., Vasquez, A., Thomas, M. "Selective dry cow therapy on U.S. dairy farms: Impact on udder health", *American Association of Bovine Practitioners Annual Meeting*, St Louis, MO, USA
- 2019 **Rowe, S.M.,** Godden, S.M., Nydam, D.V., Gorden, P., Lago, A., Royster, E., Vasquez, A., Thomas, M. "Late Breaking - Selective dry cow therapy on U.S. dairy farms: Impact on udder health", *American Dairy Science Association Annual Meeting*, Cincinnati, OH, USA
- 2019 **Rowe, S.M.,** Godden, S.M., Nydam, D.V., Gorden, P., Lago, A., Royster, E., Vasquez, A., Thomas, M. "Selective dry cow therapy on U.S. dairy farms: Impact on udder health", *Minnesota Dairy Health Conference*, St Paul, MN, USA
- 2019 **Rowe, S.M.,** Godden, S.M., Royster, E., Timmerman, J., Boyle, M. "Investigation of the Relationship Between Udder Towel Hygiene, Udder Towel Management and Intramammary Infection in Late-lactation Dairy Cows". *Minnesota Dairy Health Conference*, St Paul, MN, USA
- 2019 **Rowe, S.M.,** Godden, S.M., Royster, E., Timmerman, J., Boyle, M. "Investigation of the Relationship Between Udder Towel Hygiene, Udder Towel Management and Intramammary Infection in Late-lactation Dairy Cows". *National Mastitis Council Annual Meeting*, Savannah, GA, USA
- 2018 **Rowe, S.M.,** Godden, S.M., Royster, E., Timmerman, J., Boyle, M. "Investigation of the Relationship Between Bedding Bacteria Count and Intramammary Infection in Late-lactation Dairy Cows: Interim Findings". *Mastitis Research Workers Conference*, Chicago, IL, USA
- 2018 **Rowe, S.M.,** Godden, S.M., Royster, E., Timmerman, J., Boyle, M. "Investigation of the Relationship Between Udder Towel Hygiene, Udder Towel Management and Intramammary Infection in Late-lactation Dairy Cows". *Mastitis Research Workers Conference*, Chicago, IL, USA
- 2018 **Rowe, S.M.,** Godden, S.M., Royster, E., Timmerman, J., Crooker, B., Boyle, M. "Investigation of the relationship between bedding bacteria count and intramammary infection in late lactation dairy cows." *American Association of Bovine Practitioners*, Annual Meeting Phoenix, AZ, USA
- 2018 **Rowe, S.M.,** Godden, S.M., Royster, E., Timmerman, J., Boyle, M. "Investigation of the Relationship Between Udder Towel Hygiene, Udder Towel Management and Intramammary Infection in Late-lactation Dairy Cows." *American Association of Bovine Practitioners Annual Meeting*, Phoenix, AZ, USA

- 2018 **Rowe, S.M.**, Godden, S.M., Royster, E., Timmerman, J., Boyle, M. "Cross-sectional investigation into risk factors for intramammary infections in late lactation cows." *Ruminant Seminar*, U. Minnesota, St Paul, MN, USA
- 2018 **Rowe, S.M.**, Godden, S.M., Nydam, D.V., Gorden, P., Lago, A., Royster, E., Vasquez, A., Thomas, M. "Selective dry cow therapy on U.S. dairy farms: Impact on udder health, antimicrobial use and economics", *Minnesota Dairy Health Conference*, St Paul, MN, USA
- 2017 **Rowe, S.M.**, Godden, S.M., Royster, E., Timmerman, J., Boyle, M. "Investigation of the relationship between bedding bacteria count and intramammary infection in late lactation dairy cows." *College of Veterinary Medicine Graduate Student Seminar*, U. Minnesota, St Paul, MN, USA
- 2017 **Rowe, S.M.**, Godden, S.M., Royster, E., Timmerman, J., Boyle, M. "Investigation of the Relationship Between Udder Towel Hygiene, Udder Towel Management and Intramammary Infection in Late-lactation Dairy Cows". *Mastitis Research Workers* Conference, Chicago, IL, USA
- 2015 **Rowe, S.M.**, "D.I.Y. milk culturing: Practical microbiology for humble cattle vets." *Australian Cattle Veterinarians* Annual Conference, Hobart, TAS, AUS
- 2015 **Rowe, S.M.**, "Mastitis update for North Queensland Dairy Farmers" *Zoetis Information Night*, Malanda, QLD, AUS 2015

POSTERS

- 2020 **Rowe, S.M.**, Godden, S.M., Nydam, D.V., Lago, A., Royster, E., Vasquez, A., "Randomized controlled trial evaluating the efficacy of two commercial internal teat sealants in dairy cows", *National Mastitis Council* Annual Meeting, Orlando, FL, USA
- 2020 **Rowe, S.M.**, Godden, S.M., Royster, E., Timmerman, J., Boyle, M. "Investigation of the Relationship Between Udder Towel Hygiene, Udder Towel Management and Intramammary Infection in Late-lactation Dairy Cows". *Conference for Research Workers in Animal Disease*, Chicago, IL, USA
- 2019 **Rowe, S.M.**, Godden, S.M., Royster, E., Timmerman, J., Boyle, M. "Investigation of the Relationship Between Udder Towel Hygiene, Udder Towel Management and Intramammary Infection in Late-lactation Dairy Cows". *Conference for Research Workers in Animal Disease*, Chicago, IL, USA
- 2019 **Rowe, S.M.**, Godden, S.M., Nydam, D.V., Gorden, P., Lago, A., Royster, E., Vasquez, A., Thomas, M. "Selective Dry Cow Therapy in U.S. Dairy Herds: Impacts on Health", *University of Minnesota Points of Pride day*, St Paul, MN, USA
- 2019 **Rowe, S.M.**, Godden, S.M., Royster, E., Timmerman, J., Crooker, B., Boyle, M. "Investigation of the Relationship Between Bedding Bacteria Count and Intramammary Infection in Late-lactation Dairy Cows: Interim Findings", *National Mastitis Council annual meeting*, Savannah, GA, USA
- 2018 **Rowe, S.M.**, Godden, S.M., Royster, E., Timmerman, J., Crooker, B., Boyle, M. "Investigation of the Relationship Between Bedding Bacteria Count and Intramammary Infection in Late-lactation Dairy Cows: Interim Findings", *University of Minnesota Points of Pride day*, St Paul, MN, USA