PAIN IN ANIMALS WORKSHOP 2023 (PAW2023)

Advancing Outcome Measure Development and Analytical Approaches
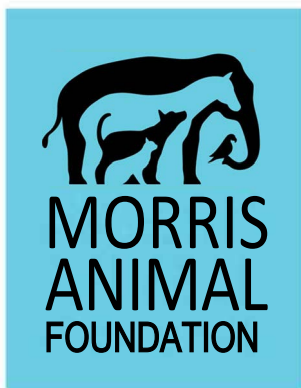

September 26 - 27, 2023 • National Institutes of Health • Bethesda, Maryland

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Tuesday, September 26, 2023

TIME	DESCRIPTION	SPEAKER
8:00am-9:00am	Registration /Check-In	
9:00am-9:10am	Welcome	
	Updates on Validated Approaches to Measuring Pain	
9:10am-9:50am	Michele Sharkey PAW Lecture: Outcome Assessment in Veterinary Pain Studies: The Yellow Brick Road Continues	Dottie Brown, MSCE, DVM, DACVS Mars Veterinary Health
9:50am-10:10am	Measurement Properties of Pain Scoring Instruments in Farm Animals	Marina Cayetano Evangelista, MV, MSc, PhD Université de Montréal
10:10am-10:30am	Biomarker Update: What Progress Have We Made?	Daniel Barratt, BSc(Hons),PhD University of Adelaide
10:30am-10:50am	BREAK	
10:50am-11:10am	Artificial Intelligence in Veterinary Medicine	Parminder S. Basran, PhD, FCCPM Cornell University
11:10am-11:30pm	Application of AIML to Large Animals for Pain Measurement	Eduarda Bortoluzzi, BVMS, MS, PhD Kansas State University
11:30am-12:00pm	*Discussion on advances in measurement tools, use of biomarkers and potential application of AI to pain measurement*	**Panel Discussion** (Evangelista, Barratt, Basran, Bortoluzzi)
12:00pm-1:40pm	**LUNCH** 12:15 – 12.45 American Association of Swine Veterinarians "Assessing pain in pigs: A collaborative effort by industry, academia, and government to advance pig welfare." 12:45 – 1.15 Recent Advances in Rodent Pain	Sherrie Webb, MSc American Association of Swine Veterinarians Liezl Maree, MS Salk Institute for Biological Studies

	Measurement: Automated Detection of Behaviors and Application of Deep Learning	
	Opportunity Areas (Biopsychosocial) for Additional Outcome Measure Development	
1:40pm-2:00pm	Overview of the Domains Impacted by Pain	B. Duncan Lascelles, BSc, BVSc, PhD, FRCVS NC State University
2:00pm-2:50pm	The Biospychosocial Model of Pain	Mark Hutchinson, BSc, PhD University of Adelaide
2:50pm-3:20pm	BREAK	
3:20pm-3:50pm	Domains Impacted by Acute Pain	Ishmail Abdus-Saboor, PhD Columbia University
3:50pm-4:20pm	Domains Impacted by Chronic Pain	Kathleen Sluka, PT, PhD, FAPTA University of Iowa
4:20pm-4:40pm	*Discussion: Are Different Pain Conditions Impacting Various Domains Differently?*	**Panel Discussion** (Lascelles, Hutchinson, Abdus-Saboor, Sluka)
4:45pm-7:00pm	Social w/ Drinks & Posters	

Wednesday, September 27, 2023

TIME	DESCRIPTION	SPEAKER
	Analytic Approaches to Utilize Outcome Measures in Clinical Trials	
9:00am-9:20am	Approaches to Defining Clinically Meaningful Change in Trial Outcome Measures	Jennifer Gewandter, PhD, MPH University of Rochester

Time	Session	Speaker
9:20am-9:40am	Creating MCID Thresholds in Veterinary Medicine: Estimating Minimal Clinically-Important Difference (MCID) for LOAD and COI	John F. Innes, BVSc, PhD, CertVR DSAS(orth),FRCVS University of Liverpool
9:40am-9:50am	Discussion of Application of Success-Failure to Pain Outcome Measures: CBPI	Dottie Brown, MSCE, DVM, DACVS Mars Veterinary Health
9:50am-10:10am	BREAK	
10:10am-10:20am	Validated Scales for Assessing Acute Pain in Ruminants and Pigs: Approaches to Defining Success-Failure and What is Next?	Stelio Luna, DVM, Ms, PhD, DipECVAA, CVA (IVAS) São Paulo State University
10:20am-10:30am	Success-Failure: Ground Reaction Forces	Michael Conzemius, DVM, PhD, DACVS Gilbert Queen Creek
10:30am-10:50am	Use of AUC in Human Pain Studies	James N. Campbell, MD Centrexion Therapeutics
10:50am-11:20am	*Discussion: Analytic Approaches to Utilize Outcome Measures in Clinical Trials*	**Panel Discussion** (Gewandter, Innes, Luna, Conzemius, Campbell)
11:20am-12:30pm	**LUNCH**	
12:30pm-12:50pm	Primary Endpoints: Single, Multiple Endpoints, or Composite Endpoints?	John T. Farrar, MD, PhD University of Pennsylvania
12:50pm-1:10pm	Statistical Considerations When Using Multiple or Composite Endpoints	Claire Ruberman, PhD FDA CVM
1:10pm-1:30pm	Examples of Use of Multiple or Composite Endpoints in Veterinary Species: Food Animals	Hans Coetzee, BVSc, Cert CHP, PhD, DACVCP, DACAW, DipECAWBM Kansas State University

1:30pm-1:50pm	Adaptive and Other Innovative Pain Measurement Study Designs	Qiao Zhang, MS, PhD FDA CVM	
1:50pm-2:10pm	*Discussion on Pros and Cons of Multiple / Composite Endpoints, Design Adaptations in Veterinary Clinical Pain Research*	**Panel Discussion** (Farrar, Ruberman, Coetzee, Zhang)	
2:10pm-2:30pm	*Open Discussion and Future Planning*		