Poster Sessions and Research Summaries
46th Annual Conference of the
American Association of Bovine Practitioners

POSTER SESSIONS

Thursday, September 19 (from 12:00 pm) and Friday, September 20 (until 5:00 pm)
Presenters will be available for questions 12:15-1:15 pm Friday

#01 Performance of an IDEXX bovine pregnancy test adapted for visual-read results and designed for in-clinic use  Anna Rice

#02 Application of the bovine milk pregnancy ELISA in beef cows  Jennifer Roberts

#03 The prevalence of Trichomonas foetus in cull cows at a Southeastern abattoir  Lee Jones

#04 Bovine leukemia virus in Michigan beef bulls  Jessica Zalucha

#05 A simulation model to determine the economic value of changing diagnostic characteristics for identifying bovine respiratory disease  Miles Theurer

#06 Effect of ambient temperature on viral replication and serologic titers following administration of a commercial intranasal modified-live IBR/PI-3 vaccine in beef cattle housed in high and low ambient temperature environments  Gretchen Grissett

#07 Evaluation of behavioral changes in cattle using three-dimensional accelerometers during experimental infection with Bovine Viral Diarrhea Virus  Jenna Bayne

#08 Comparison of thoracic auscultation, clinical score and ultrasonography as indicators of bovine respiratory disease in pre-weaned dairy calves  Sébastien Buczinski

#09 Identification and determination of the antimicrobial susceptibility of the main respiratory pathogens isolated from calves in dairy herds with respiratory diseases in Québec  David Francoz

#10 Evaluation of the efficacy and performance of preweaned holstein calves treated with either Resflor Gold or Baytril for bovine respiratory disease  Donald Sackett

#11 Cobalt supplementation affecting humoral immune response in weaned beef calves  Bob Sager

#12 Pathogenicity of Bibersteinia trehalosi in cattle  Christy Hanthorn

#13 Prevalence, severity, and relationships of multiple gross pathologies measured at slaughter in beef cattle  DJ Rezac

#14 Implementation of industry-oriented animal welfare and quality assurance assessment tools in commercial cattle feeding operations  Tera Rooney Barnhardt

#15 Perception of lameness management, education, and animal welfare implications in the feedlot from consulting nutritionists, veterinarians, and feedlot managers  Shane Terrell

#16 Facility and management characteristics of large upper Midwest dairy herds clustered by dairy herd improvement records  Rebecca Brotzman

#17 Medications and treatment practices used on California dairies: A survey of veterinarians  Betsy Karle

#18 Assessment of work shift transition of calving personnel on stillbirth in Holstein dairy cows  Alissa Hunter

#19 Efficacy of oral immunization with Cryptosporidium parvum in a colostrum deprived neonatal calf challenge model  David Carter

#20 Evaluation of the effect of adding gut active carbohydrates to fresh colostrum on passive transfer of immunoglobulin G in Holstein dairy calves  Matthew Brady

#21 Evaluation of the effect of adding gut active carbohydrates to colostrum replacer on passive transfer of immunoglobulin G in Holstein dairy calves  Marianne Villetaz Robichaud

#22 Effect of oral meloxicam on feed intake and pain perception in Jersey calves following cautery dehorning with a local anesthetic  Thyra Bierman

#23 Should we trim heifers pre-calving?  Arturo Gomez

#24 Effects of postpartum calcium treatment on blood calcium levels  Cedric Blanc

#25 Fecal lipidomic biomarkers in production-related metabolic disease (PRMD) resistant and susceptible dairy cows  Beverly Roeder
#26 An integrated extension and education program to reduce mastitis and antimicrobial use
Ronald Erskine

#27 Detection of β-lactam antimicrobial residues in milk of cows treated for mastitis using the Betastar Plus assay
Daniel Grooms

#28 Comparison of flunixin pharmacokinetics and milk elimination in healthy cows and cows with mastitis
Lindsey Kissell

#29 Survey of veterinarians and hoof trimmers on methods applied to treat claw lesions in dairy cattle
Jan Shearer

AABP RESEARCH SUMMARIES
(* Presentation is part of the Graduate Student Competition)

RESEARCH SUMMARIES 1
Thursday, September 19 1:30-5:30 pm
Moderators: Steve Hendrick and Roxanne Pillars

*1:30-1:45 pm Changes in rectal temperature, sacrosciatic ligament relaxation, and plasma progesterone concentration at 24 hours before parturition in Holstein-Friesian cattle
Mark Hiew

*1:45-2:00 pm Associations between calving difficulty score and intrapelvic dimensions, calf hoof circumference, and calf birth weight in Holstein-Friesian cattle
Mark Hiew

*2:00-2:15 pm Validation of two diagnostic methods for postpartum endometritis in dairy cows
Jose Denis-Robichaud

*2:15-2:30 pm Evaluation of ampicillin trihydrate for treatment of metritis and subsequent fertility in lactating dairy cows
Fabio Lima

*2:30-2:45 pm Effect of induced subclinical hypocalcemia (SCH) on dry matter intake, energetic status and function of immune cells in dairy cows
Natalia Martinez

*2:45-3:00 pm Randomized clinical field trial on the effects of butaphosphancyanocobalamin and propylene glycol on ketosis resolution and milk production
Jessica Gordon

*3:00-3:15 pm Economic considerations for subclinical ketosis in lactating dairy cattle
Khaled Gohary

*3:15-3:30 pm Evaluation of the CARDY potassium meter as a point-of-care instrument for measuring plasma and blood potassium concentrations in cattle
Ameer Abdelhameed

3:30-4:00 pm Milk/Refreshment Break

*4:00-4:15 pm The effects of BRD in Holstein dairy calves during the first 120 days of life on subsequent production, longevity, and reproductive performance as cows
Aaron Schaffer

4:15-4:30 pm Impact of milk feeding levels and housing on the incidence of respiratory disease in young dairy calves
Maria Prado

*4:30-4:45 pm Comparison of pulmonary ultrasonography and analysis of bronchoalveolar lavage fluid in the diagnosis of subclinical bronchopneumonia in dairy calves
Theresa Ollivett

*4:45-5:00 pm Ultrasonographic progression of lung consolidation after experimental infection with Mannheimia haemolytica in Holstein bull calves
Theresa Ollivett

*5:00-5:15 pm Pulmonary lesions and clinical disease response to Mannheimia haemolytica challenge 10 days following administration of tildipirosin or tulathromycin
David Amrine

*5:15-5:30 pm Effects of dietary grain content on performance and morbidity of newly received beef heifers
Caitlyn Redding
**RESEARCH SUMMARIES 2**
Friday, September 20   8:00 am-12:15 pm
Moderators: Bob Larson and Roxanne Pillars

8:00-8:15 am  A novel approach to Bovine Viral Diarrhea Virus surveillance Kay Riddell

*8:15-8:30 am  Bovine Viral Diarrhea Virus transmission from persistently infected cattle to non-persistently infected cattle when commingled: an evaluation of serum neutralizing antibody titers Kelly Foster

*8:30-8:45 am  Assessment of vaccine efficacy in early weaned beef calves challenged with bovine viral diarrhea virus (BVDV) Manuel Chamorro

*8:45-9:00 am  Association of Bovine leukemia virus (BLV) and Mycobacterium avium subsp. paratuberculosis (MAP) with shedding of Shiga toxin-producing Escherichia coli (STEC) Cristina Venegas-Vargas

*9:00-9:15 am  Prevalence of MAP ELISA-positive cows and assessment of MAP transmission risk on organic dairy farms in Ontario, Canada Laura Pieper

*9:15-9:30 am  Association between risk assessment scores and milking cow Johne’s ELISA results on Ontario dairy farms Laura Pieper

9:30-9:45 am  Interpretation of repeated testing for Johne’s Disease in Ontario dairy herds David Kelton

*9:45-10:00 am  A study to examine the relationship between uterine pathology and depletion of oxytetracycline in plasma and milk after intrauterine infusion Mike Kleinhenz

10:00-10:45 am  Milk/Refreshment Break

*10:45-11:00 am  Is digital dermatitis a cause of hoof conformation changes in its early clinical stage? Arturo Gomez

*11:00-11:15 am  Prediction of exceeding bulk tank somatic cell count threshold of 400,000 c/mL using monthly individual cow somatic cell count data Véronique Fauteux

*11:15-11:30 am  Pharmacokinetics of intravenous and oral firocoxib in preweaned calves and evaluation of perioperative analgesia following cautery dehorning Matthew Stock

*11:30-11:45 am  Behavioral response of feedlot cattle following tail docking LeeAnne Kroll

*11:45-12:00 pm  Impact of livestock production types vaccination priority order on the control of a Foot and Mouth Disease outbreak in the central United States Sara McReynolds

*12:00-12:15 pm  Impact of uncertainty in Foot and Mouth Disease indirect transmission probability on outbreak duration and herds depopulated Sara McReynolds

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**RESEARCH SUMMARIES 3**
Friday, September 20   1:45-5:45 pm
Moderators: Maisie Dawes and Jeff Ondrak

*1:45-2:00 pm  Dairy cow well-being on Wisconsin’s large, high performance dairy herds Rebecca Brotzman

*2:00-2:15 pm  Impact of disease on individual culling risk and herd culling rate in dairy cattle Denis Haine

*2:15-2:30 pm  The influence of different nutritional planes in the dry period on immunoglobulin G concentration of bovine colostrum Sabine Mann

2:30-2:45 pm  Effect of using the Perfect Udder® system to heat-treat colostrum on passive transfer of IgG in neonatal Jersey calves Andrew Kryzer

2:45-3:00 pm  Comparison of gastrointestinal parasites and management practices on organic and conventional dairy herds in Minnesota Samantha Schroth

3:00-3:15 pm  Events occurring during the previous lactation, the dry period, and peri-partum as risk factors for early lactation mastitis in cows receiving 2 different intramammary dry cow therapies Cassandra Fleming

3:15-3:30 pm  Evaluation of udder health parameters of organic and conventional dairy herds in Minnesota Lee Michels
3:30-3:45 pm  Evaluation of the API® 20 Strep system for identification of Lactococcus lactis subspecies lactis isolated from bovine milk samples  Michele Barrett

3:45-4:15 pm  Milk/Refreshment Break

*4:15-4:30 pm  Comparison of gamithromycin, tilmicosin and tulathromycin: metaphylactic treatments in high risk calves for BRD  Tanner Miller

4:30-4:45 pm  A survey of veterinarians in 6 U.S. States regarding their experience with nursing beef calf respiratory disease  Amelia Woolums

4:45-5:00 pm  Randomized longitudinal study to test the effect of pre-calving vaccination of range beef cows and other factors on the incidence of calf pneumonia  David Smith

5:00-5:15 pm  Assessment of L-lactatemia as a predictor of bovine respiratory disease occurrence and severity in feedlot steers  Sebastien Buczinski

5:15-5:30 pm  Use of thoracic ultrasonography for the evaluation of lung pathology in beef cattle with acute bovine respiratory disease  Ryan Rademacher

5:30-5:45 pm  Effect of surgical castration at different stages of maturity with or without analgesia on growth performance and acute phase response  Jeremy Powell

10:00-10:30 am  Milk/Refreshment Break

10:30-10:45 am  The relationship between rumination time within the first 10 days in milk and periparturient diseases, subclinical hypocalcemia, negative energy balance, and milk production in dairy cows  Paula Ospina

10:45-11:00 am  Dynamics of body condition score, ultrasound measured backfat, and body weight in the transition period of dairy cows and its association with milk production in herds with automatic milking systems  Luciano Caixeta

11:00-11:15 am  Effect of dystocia and metritis on daily activity patterns prior to and after parturition in lactating Holstein dairy cows.  Mallory Titler

11:15-11:30 am  A scoping review of the peer-reviewed literature in human populations and in vitro for potential non-antimicrobial interventions to reduce antimicrobial resistance in cattle  Virginia Fajt

(* Presentation is part of the Graduate Student Competition)