1. Factors Influencing New Intramammary Infection Rate in Teat Dip Efficacy Trials by Meta-analysis
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2. Evaluation of the Composite Milk Somatic Cell Count at Dry-off and Last Milk Recording before Dry-off as an Indicator for Intramammary Infections at Dry-off
Z. Lipkens, S. Piepers, and S. De Vliegher, M-team and Ghent University, Merelbeke, Belgium

3. Clinical Mastitis Recurrence in Dairy Cows
Hossein Jamali, Herman Barkema, Mario Jacques, François Malouin, Vineet Saini, Henrik Stryhn, and Simon Dufour, Canadian Bovine Mastitis and Milk Quality Research Network, St. Hyacinthe, Quebec, Canada

4. Bedding Substrates Utilized on Canadian Dairy Farms: Bacterial Concentrations and Their Association with Cow Hygiene and Milk Quality
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5. Assessment of Changes in Quarter Milk Yield Ranking in Early Lactation
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6. Effect of the Selective Treatment of Gram-positive Clinical Mastitis Cases versus Blanket Therapy
Cinthya Tovar, Darcy Pearce, Juanita Zaragoza, Diane Luiz, and Alfonso Lago, DairyExperts Inc., Tulare, California, USA

7. Preliminary Results of an Ongoing Clinical Trial Evaluating Effects of Treatment of Culture Negative Cases of Clinical Mastitis on Somatic Cell Count and Milk Production
Maria J. Fuenzalida, Cecilia Baumberger, and Pamela L. Ruegg, University of Wisconsin, Madison, Wisconsin, USA

8. Practices Surveyed in the Southeast USA that Impact Milk Quality
9. Somatic Cell Score Effects on Dairy Cattle Milk Production in the Southeastern United States
Derek T. Nolan and Jeffrey M. Bewley, University of Kentucky, Lexington, Kentucky, USA

10. Prevalence of Coagulase Negative Staphylococcal Species Associated with Intramammary Infection in Dairy Goats
Véronique Bernier Gosselin, Pamela R.F. Adkins, and John R. Middleton, University of Missouri, Columbia, Missouri, USA

11. The Use of Casein Hydrolysate as Intramammary Therapy to Cause Cessation of Lactation at the Quarter Level in Dairy Cows
Justine E. Britten, David J. Wilson, and Kerry A. Rood, Utah State University, Logan, Utah, USA

12. A Screening Method to Significantly Reduce the Use of Intramammary Antibiotics at Drying Off in Dairy Cow Production
Cyril Crosson, Bioteck Lait, Pacé, Ille-et-Vilaine, France

13. Quarters with High Teat End Condition Scores are More Likely to have New Intramammary Infections
Marianna Gentilini¹, Mario Lopez Benavides¹, Eduardo de S.C. Pinheiro², Cristian M.M.R. Martins², and Marcos V. dos Santos², ¹DeLaval Manufacturing, Kansas City, Missouri, USA, ²University of São Paulo, São Paulo, Brazil

14. Iodide Residues in Bulk Tank Milk when Using Iodine and Non-iodine Pre-milking Teat Disinfectants
Mario Lopez-Benavides, Sandra Romero-Suarez¹, Mark Henderson¹, Eric C. Adkins², John Denbigh², and John Middleton², ¹DeLaval Manufacturing, Kansas City, Missouri, USA, ²University of Missouri, Columbia, Missouri, USA

15. Glycolic Acid is Present in Bulk Tank Milk when Using Non-glycolic Acid and Glycolic Acid Based Teat Disinfectants
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16. Effect of Amoxicillin and Clavulanic Acid Plus Prednisolone in the Reduction of Clinical Signs of Induced Mastitis
Luis Leon¹ and Hans-Georg Schön², ¹Zoetis Germany, Berlin, Germany, ²University of Osnabrück, Osnabrück, Germany

17. Effect of Bovine Subclinical Mastitis on Milk Yield and Composition at the Mammary Quarter Level
Juliano L. Gonçalves¹,³, Cristian M. de M. R. Martins¹, Juliana R. Barreiro¹, Tiago Tomazi¹, Augusto H. Gameiro⁵, Claudia Kamphuis³, Henk Hogeveen³, and Marcos V. dos Santos¹, ¹Milk Quality Research Laboratory, Qualileite, University of São Paulo, Pirassununga, Brazil, ²University of São Paulo, São Paulo, Brazil, ³Wageningen University, Wageningen, The Netherlands

18. Using Milk Leukocyte Differentials In Diagnosis Of Subclinical Bovine Mastitis
Juliano L. Gonçalves¹,², Roberta L. Lyman¹, Mitchell Hockett³, Martha Payne³, Rudy Rodriguez¹,³, Marcos V. dos Santos², AND Kevin L. Anderson¹, ¹North Carolina State University, Raleigh, North Carolina, USA, ²Milk Quality Research Laboratory, Qualileite, University of São Paulo, Pirassununga, Brazil, ³Advanced Animal Diagnostics, Morrisville, North Carolina, USA

19. National Dairy Study – A Focus On Udder Health And Milking Management on Canadian Farms
Emilie Belage and David F. Kelton, University of Guelph, Guelph, Ontario, Canada

20. Association between Etiology and Severity of Clinical Mastitis in Brazilian Dairy Herds
Tiago Tomazi, Alessandra M. Orsi, Gabriel C. Ferreira, Eduarda B. Bernardes, Ana C. C. Henrique, Cristian M. M. R. Martins, Juliano L. Gonçalves, and Marcos V. dos Santos, Milk Quality Research Laboratory, Qualileite, Brazil, University of São Paulo, Pirassununga, Brazil

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22. Preliminary Results: Lactococcus lactis lactis and Streptococcus uberis Invasion and Immune Activation of a Bovine Mammary Epithelial Cell Line
Stephanie A. Metzger, Pamela L. Ruegg, and Laura L. Hernandez, University of Wisconsin-Madison, Madison, Wisconsin, USA

23. Comparison between 24- and 48-hour Milk Culture Results
Paula A. Ospina, Carlos Santisteban, Paul Virkler, Paolo Moroni, Francis Welcome, and Daryl V. Nydam, Cornell University, Quality Milk Production Services, Ithaca, New York, USA

24. Correlation between Lactoferrin Concentration in Milk and Bubaline Mastitis Diagnostic Parameters in Different Levels of Production
25. Noninferiority Trial Comparing Two Dry Cow Treatments in Italy
Paula Ospina¹, Nicola Rota², Clara Locatelli², Luca Colombo², Claudia Pollera², Giuseppina Giacinti³, Valerio Bronzo², Antonio Casula², Augusto Arpinelli⁴, Valentine Brossette⁴, Mario Facchi⁴, Antonio Patelli⁴, Arturo Ruggeri⁴, Guido Potenza⁵, Daryl Nydam¹, and Paolo Moroni¹,²,¹Cornell University, Quality Milk Production Services, Ithaca, New York, USA, ²Università degli Studi di Milano, Dipartimento di Scienze Veterinarie per la Salute, la Produzione Animale e la Sicurezza Alimentare, Milan, Italy, ³Istituto Zooprofilattico Sperimentale del Lazio e della Toscana Mario Aleandri, Via Appia Nuova, Roma, Italy, ⁴Veterinary Practitioner, Roma, Bergamo, Brescia, Torino, Italy, ⁵Merial Italia spa, Viale Bodio, Milan, Italy

26. Assessment of a Novel Milk Protein Biomarker for Improving Detection of Intramammary Infections in Dairy Cows
Maria Filippa Addis¹, Vittorio Tedde¹, Giulia Maria Grazia Puggioni¹, Salvatore Pisanu¹, Antonio Casula², Clara Locatelli², Valerio Bronzo², Paolo Moroni²,³, Sergio Uzzau¹, ¹Porto Conte Ricerche, SP 55 Porto Conte/Capo Caccia, Loc. Tramariglio, Alghero, Italy, ²Università degli Studi di Milano, Dipartimento di Scienze Veterinarie per la Salute, la Produzione Animale e la Sicurezza Alimentare, Via Celoria 10, Milan, Italy, ³Cornell University, Animal Health Diagnostic Center, Ithaca, New York, USA

27. Molecular Characterization of Coagulase Negative Staphylococci from Heifer Intramammary Infections and Potential Body Site Reservoirs
Pamela R.F. Adkins and John R. Middleton, University of Missouri, Columbia, Missouri, USA

28. Distribution of Organisms We are Calling “Other Streptococci”: An Investigation in Northern New York
Jessica C. Scillieri Smith, Paolo Moroni, Carlos G. Santisteban, Bradley J. Rauch, Brenda G. Werner, and Daryl V. Nydam, Cornell University, Ithaca, New York, USA

29. Effect of Heat Stress on Adherence to and Internalization of Streptococcus uberis into Bovine Mammary Epithelial Cells
R.A. Almeida, O. Kerro-Dego, S.P. Oliver, and A.G. Ríus, The University of Tennessee, Knoxville, Tennessee, USA

30. Efficacy of Ciprofloxacin Combined With An Internal Teat Sealant For Dry Cow Therapy – Preliminary Results
Marcelo A. Feckinghaus¹, Marcus L. G. Rezende¹, Michele R. Bastos¹, Cristian Marlon de M. R. Martins², Eduardo de S. C. Pinheiro², and Marcos V. dos Santos², ¹Ourofino Saúde Animal, Cravinhos, São Paulo, Brazil, ²University of São Paulo, Pirassununga, São Paulo, Brazil
31. Antimicrobial Susceptibility and Biofilm-Producing Ability of *Staphylococcus aureus* Isolated From Clinical and Subclinical Mastitis in Dairy Cows
Alessandra M. Orsi, Tiago Tomazi, Juliano L. Gonçalves, Cristian M. M. R. Martins, Marcos A. Arcari, Larissa Martins, Carlos E. Fidelis, and Marcos V. dos Santos, Milk Quality Research Laboratory, Qualileite, Brazil, University of São Paulo, Pirassununga, Brazil

32. Associations of Selected Bedding Types with Incidence Rate of Subclinical and Clinical Mastitis in Primiparous Holstein Dairy Cows
Robert F. Rowbotham and Pamela L. Ruegg, University of Wisconsin, Madison, Wisconsin, USA

33. Identification and Characterization of Virulence Factors of *Staphylococcus aureus* Isolates from Cases of Bovine Mastitis
Oudessa Kerro Dego, R.A. Almeida, and S.P. Oliver, The University of Tennessee, Knoxville, Tennessee, USA

34. Determination of Microbiological Content through Isolating the Bacteria in Buffalo Milk Samples
Emmanuella O. Moura¹, Edine R. Lima¹, José G. B. Galvão Júnior², Luis H. F. Borba¹, Luciano P. Novaes¹, Stela A. Urbano¹, and Adriano H. N. Rangel¹, ¹Federal University of Rio Grande do Norte, Natal, Rio Grande do Norte, Brazil, ²Federal Institute of Education of Rio Grande do Norte, Ipanguaçu, Rio Grande do Norte, Brazil

35. Bacteria Isolation in Buffalo Milk Samples of Different Production Batches
Emmanuella O. Moura¹, Danielle C. Sales¹, José G. B. Galvão Júnior², Luis H. F. Borba¹, Luciano P. Novaes¹, and Adriano H. N. Rangel¹, ¹Federal University of Rio Grande do Norte, Natal, Rio Grande do Norte, Brazil, ²Federal Institute of Education of Rio Grande do Norte, Ipanguaçu, Rio Grande do Norte, Brazil

36. Farmer and Farm Characteristics Associated with Bulk Tank SCC
Susan M. Schexnayder¹, Karen E. Lewis³, Dayton M. Lambert¹, Lorraine E. Garkovich², J. Mark Fly¹, Peter D. Krawczel¹, and Stephen P. Oliver³, ¹The University of Tennessee, Knoxville, Tennessee, USA, ²University of Kentucky, Lexington, Kentucky, USA

37. Somatic Cell Count and Its Effect on Reproduction Parameters in Dairy Cows
Elena M. de Torres, Carlos Morón, Andrés Brienza, and Rafael Bentos, Universidad de la República, Montevideo, Uruguay

38. Stochastic Decision Tree for Mastitis Treatment Options
Derek T. Nolan and Jeffrey M. Bewley, University of Kentucky, Lexington, Kentucky, USA

39. Analysis of Bimodal Milk Flow Curves and Abrupt Air Admissions in Milking Parlors of the Biobio Region of Chile
Marcos Munoz and Alejandra Latorre, Facultad de Ciencias Veterinarias, Universidad de Concepción, Chillán, Chile
Jason Lombard¹, Charles Fossler¹, Chelsey Shivley¹,², Natalie Urie¹,², Lindsey Garber¹, and Christine Kopral¹; ¹USDA:APHIS:VS: Center for Epidemiology and Animal Health, Fort Collins, Colorado, USA, ²Colorado State University, Fort Collins, Colorado, USA

41. **Test Characteristics of the qPCR Test Mastit 4 to Identify Major Pathogens in Spiked and Originally Infected Milk Samples**
Torben W. Bennedsgaard³, Line Svennesen², and Ilka C. Klaas²; ¹Aarhus University, Foulum, Denmark, ²University of Copenhagen, Copenhagen, Denmark

42. **The Treatment of Only Environmental Streptococci Clinical Mastitis Cases Reduced Antibiotic Use, Days Out of the Tank, Recurrence of Clinical Mastitis, and a Tendency to Reduce Culling**
Alfonso Lago, Cinthya Tovar, Juanita Zaragoza, Diane Luiz, and Darcy Pearce, DairyExperts Inc., Tulare, California, USA

43. **Spontaneous Bacteriological Cure of Intramammary Infections on Clinical Mastitis Cases**
Darcy Pearce, Cinthya Tovar, Juanita Zaragoza, Diane Luiz, and Alfonso Lago, DairyExperts Inc., Tulare, California, USA

44. **Changes in Teat Condition Observed when Switching Pre- and Post-milking Teat Disinfectants**
Daniela R. Bruno¹, Mario Lopez-Benavides¹, H. Jean Grow², Sarah Leibowitz¹, and Allan Britten²; ¹DeLaval Manufacturing, Kansas City, Missouri, USA, ²Udder Health Systems, Meridian, Idaho, USA

45. **Southeast Quality Milk Initiative: Milk Quality in the Southeast USA, 2012-2014**
Gina M. Pighetti¹, Christina S. Petersson-Wolfe², Jeffrey M. Bewley³, Stephen C. Nickerson⁴, Stephanie Hill Ward⁵, Albert DeVries⁶, and Stephen P. Oliver¹; ¹The University of Tennessee, Knoxville, Tennessee, USA, ²Virginia Tech University, Blacksburg, Virginia, USA, ³University of Kentucky, Lexington, Kentucky, USA, ⁴University of Georgia, Athens, Georgia, USA, ⁵Mississippi State University, Starkville, Mississippi, USA, ⁶University of Florida, Gainesville, Florida, USA

46. **Bovine Milking Machine Screening on Sicilian Dairy Farms**
M. Gambina, C. Guardiano, and V.M. Marino, CoRFiLaC, Regione Siciliana, Ragusa, Italy

47. **Teat End Condition Changes Induced by Different Shaped Liner in One Typical Sicilian Dairy Herd**
M. Gambina, C. Guardiano, and V.M. Marino, CoRFiLaC, Regione Siciliana, Ragusa, Italy

48. **Distribution of Delayed Milk Flow and Overmilking in Michigan Dairy Herds as Measured by the VaDia**
Rhyannon M. Moore, Leah M. Girard, Trevor L. Walling, and Ronald J. Erskine. Michigan State University, East Lansing, Michigan, USA

49. Mastitic Cow Management Practices and Treatments on California Dairies
Arnau Espadamala¹, Pau Pallarés¹, Alfonso Lago², and Noelia Silva-del-Río¹. ¹UC Davis School of Veterinary Medicine, VMTRC, Tulare, California, USA, ²DairyExperts, Tulare, California, USA

50. Case Study: Use of a Glycolic Acid Based Barrier Teat Disinfectant During Winter Did Not Adversely Affect Teat Condition
Mario Lopez-Benavides¹, Melanie Matti², Leo Timms², Sarah Leibowitz³. ¹DeLaval Manufacturing, Kansas City, Missouri, USA, ²Iowa State University, Ames, Iowa, USA

51. Milking Machine Test Results – A Case Report
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