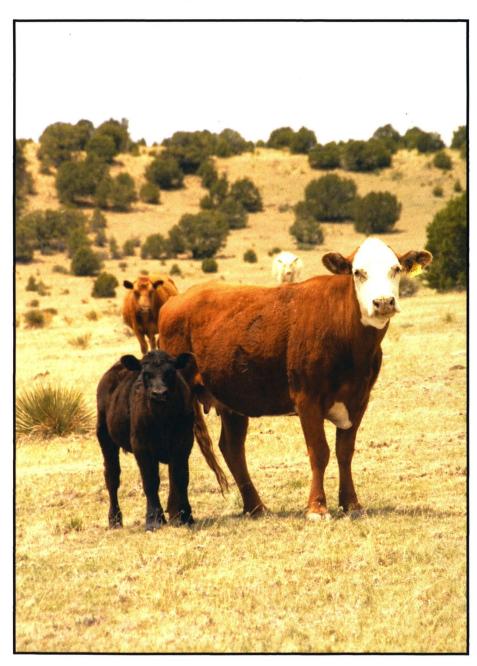


The Bouine PRACTITIONER

THE OFFICIAL PUBLICATION OF THE AMERICAN ASSOCIATION OF BOVINE PRACTITIONERS



43rd ANNUAL CONFERENCE

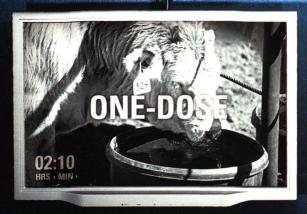
American Association of Bovine Practitioners Albuquerque, New Mexico August 19-21, 2010













INTRODUCING



See a Difference in One Dose

RESFLOR GOLD is a broad-spectrum antibiotic that works against the three major bacterial causes of BRD and a non-steroidal anti-inflammatory drug in one.

Watch the video at www.resflorgold.com

Time-lapse photos were taken of a randomly chosen calf during an actual trial conducted at a Research Facility in Canyon, TX, on October 14, 2009.

Ask your Intervet/Schering–Plough Animal Health representative about RESFLOR GOLD.

For subcutaneous use in beef and non-lactating dairy cattle only. Not for use in female dairy cattle 20 months of age or older or in calves to be processed for veal. The effects of florfenicol and flunixin on bovine reproductive performance, pregnancy, and lactation have not been determined. When administered according to the label directions, RESFLOR GOLD may induce a transient local reaction in the subcutaneous and underlying muscle tissue. Full product information on page 40.

Resflor Gold is property of Intervet International B.V. or affiliated companies or licensors and is protected by copyrights, trademark and other intellectual property laws. Copyright © 2009 Intervet International B.V. All rights reserved. RES-026 ¹ Exhibits bacterial activity against some strains of Mannheimia haemolytica and Histophilus somni. ² The correlation between in vitro susceptibility data and clinical effectiveness is unknown.

ISSN 0524-1685



The BOUINE PRACTITIONER

Vol. 44, No. 1 Spring 2010

EDITOR: ROBERT A. SMITH, DVM 3404 Live Oak Lane Stillwater, Oklahoma 74075

Tel: (405) 372-8666 Fax: (405) 743-8422 **PUBLISHER:** VM PUBLISHING COMPANY 205 W. 7th Avenue, Suite 201G Stillwater, Oklahoma 74074

Tel/Fax: (405) 533-1883 kellijo.vmpubco@gmail.com

OFFICERS

President	Roger Saltman, DVM
	Cazenovia, New York
President-Elect	Christine Navarre, DVM
	Baton Rouge, Louisiana
Vice President	
	Marengo, Illinois
Past President	Richard Wallace, DVM
	Champaign, Illinois
Executive Vice President	
	Auburn, Alabama
Treasurer	
	Manheim, Pennsylvania
Parliamentarian	Rich Meiring DVM
	Starkville, Mississippi
	Ctarkville, iviississippi

BOARD OF DIRECTORS

Mark J. Thomas, DVM Carthage, New York 1st District, 2011 Bob Cloninger, VMD Centre Hall, Pennsylvania 2nd District, 2012

Art Donovan, DVM Gainesville, Florida 3rd District, 2010

Richard Wiley, DVM Wooster, Ohio

4th District, 2011

Glen Johnson, DVM

Reedsburg, Wisconsin 5th District, 2012

Bill Seglar, DVM Johnston, Iowa 6th District, 2010

Shawn Blood, DVM Guymon, Oklahoma 7th District, 2011

Glenn Rogers, DVM

Aledo, Texas 8th District, 2012

John Schnackel, DVM Fort Collins, Colorado 9th District, 2010

Steve Smalley, VMD Chandler, Arizona 10th District, 2011

Fred Muller, DVM

Sunnyside, Washington 11th District, 2012

Guy R. Boisclair, DVM Victoriaville, Quebec, Canada 12th District, 2010

J. Egan Brockhoff, DVM Olds, Alberta, Canada 13th District, 2011

AVMA DELEGATE:

EXHIBITS CHAIRMAN:

ADVERTISING AGENCY:

Mark Spire, DVM

Manhattan, Kansas

Charlie Hatcher, DVM

College Grove, Tennessee

J. T. O'Brien & Assoc.

12118 Nieman Road

Overland Park, Kansas 66213 913-402-8383 Fax: 913-402-8384

THE BOVINE PRACTITIONER is published by The American Association of Bovine Practitioners, Inc., at VM Publishing Co., 205 W. 7th, Suite 201G, Stillwater, OK 74074 (Telephone and Fax: 405-533-1883). Over 6000 copies are mailed to veterinarians engaged in cattle practice and allied institutions. Send new address (please include old address) to:

> AABP, P.O. Box 3610, Auburn, AL 36831-3610 Tel: 1-800-269-2227; FAX 334-821-9532 e-mail: aabphq@aabp.org http://www.aabp.org

THE BOVINE PRACTITIONER is the official publication of The American Association of Bovine Practitioners, published in the spring and summer annually. It also serves as a communication medium between bovine practitioner organizations around the world. All manuscripts and communications must be presented in English.

Copies of THE BOVINE PRACTITIONER are available to non-members for \$25.00 per copy for domestic destinations, or \$33.00 for international addresses. Contact editor for details.

@American Association of Bovine Practitioners, 2010 • All Rights Reserved • The Bovine Practitioner • ISSN 0524-1685

Join more than 2,000 experts in builtics at the XXVI World Builtics Congress 2010, and learn about the latest breakthroughs in the study and treatment of cattle and their diseases.

Program Highlights:

- Lectures by World-class Speakers
- Reviews & Workshops
- Oral & Poster Presentations
- Proposed & Sponsored Symposia

Abstracts Submission Deadline: May 31, 2010

www.wbc2010.com







© Copyright American Association of Bovine Practitione



Av. Los Conquistadores 1700, Off. 303 Providencia Sariago - Chile Tel: +56-2-323-2843; Fax: +56-2-335 4149 E-mail: buiatrics2010@kenes.com

Kenes Group® 2010. All rights reserved.





2010-2011 AABP Publications Fees

The dues for the 2010-2011 membership year will remain the same at \$125 for regular members, \$65 for interns, residents and graduate students and \$20 for veterinary students.

Postage and printing costs have increased significantly in the last few years. To keep dues from rising, the Board of Directors has implemented a series of publication fees for members wishing to receive hard copies of the various AABP publications. As already in use by many other associations, electronic-only publications help to address rising costs, a disparity in mailing costs to various parts of the globe and improve resource utilization. When you renew your dues for the 2010-2011 membership year, the actual dues will remain the same. The following table lists the fees that will be charged, if you wish to continue to receive the two categories of publications as printed copies. The largest input considered in establishing the following fees is postage, followed by printing, shipping and handling.

Publication	United States	North America non-US*	Outside North America
Newsletter	\$10.00	\$20.00	\$30.00
Bovine Practitioner (2 volumes) and the Annual Conference Proceedings	\$25.00	\$40.00	\$55.00

* Canada and Mexico

All of the publications will continue to be available to members on the AABP website and they can be accessed on-line or downloaded using routine "file save" procedures unique to the web browser being used. Additionally, the AABP Information Technology Coordinator has created an extractable ZIP file with all of the 2009 publications (12 newsletters, 2 Bovine Practitioners and 1 Proceedings). This file can be downloaded from either the Bovine Practitioner page or the Annual Conference Proceedings page using either of the following links: http://www.aabp.org/members/publications/practitioner.asp or http://www.aabp.org/members/publications/proceedings.asp

Please contact the AABP Office by phone, fax, or email at 800-269-2227, 334-821-9532, or aabphq@aabp.org, respectively, if you have any questions.

M. Gatz Riddell, Jr., DVM
Executive Vice President
American Association of Bovine Practitioners
P.O. Box 3610
Auburn, Alabama 36831-3610

Phone: 334-821-0442 Fax: 334-821-9532 mgriddell@aabp.org

Table of Contents

Clinical and Economic Effects of an Internal Teat Sealant at Dry-off on the Incidence of Clinical Mastitis in Early Lactation Paul Baillargeon, Stephen J. LeBlanc
Characterization of Specific Passive Immunity Stimulated by Vaccination of Beef Cows Grazing Native Range with E. coli O157:H7-SRP® B.W. Wileman, D.U. Thomson, KC Olson, L.A. Pacheco, J.R. Jaeger, D.T. Burkhardt, J. Sandstrom, D.A. Emery
Reproductive Endocrinology and Hormonal Control of the Estrous Cycle G.C. Lamb, M.F. Smith, G.A. Perry, J.A. Atkins, M.E. Risley, D.C. Busch, D.J. Patterson
Beef Heifer and Cow Estrous Synchronization Programs G.C. Lamb
Trace Mineral Concentrations in Dairy Cattle with Rupture of Abdominal Artery Aneurysms Catherine G. Lamm, Karyn L. Bischoff, Hollis N. Erb, Charles L. Guard, Joseph R. Hillebrandt, Belinda Thompson, Bradley L. Njaa
Veterinary Related Issues Associated with Feeding Free Fatty Acids to Dairy Cows Pre- and Postpartum R. M. Thornsberry, A. F. Kertz
Treatment of Candidal Mastitis in Two Holstein Cows: a Case Report and Review **Jerry R. Roberson, Karen A. Kalck**** 52
Magnitude and Duration of Effects of Two Corticosteroid Formulations (Dexamethasone Sodium Phosphate and Phenyl Propionate; Prednisolone Acetate) on Blood Glucose, Leukocyte Values, and Milk Yield in Dairy Cows M.S. Lima, G. Stilwell, N. Carolino, C.A. Hjerpe
Effect of Watering Trough Chlorination on Persistence of Mycobacterium avium subsp paratuberculosis Kimberly L. Cook, Carl H. Bolster, Jenks S. Britt, Michael Rothrock
Costs of Living for US Veterinarians in Food Animal Practice Compared to other Practice Categories and the Effect on Adjusted Income **Jeff W. Tyler, Saku Aura, Loren G. Schultz** 77
Effects of Removing Cows from Chronic Oxytocin use During Lactation W.M. Leone, D.V. Nydam, F. Welcome, L.D. Warnick
A Survey of Southern Arizona Calves for Persistent Infection with Bovine Viral Diarrhea Virus M.D. McDaniel, J.K. Collins, G.C. Duff, S.P. Cuneo, R.D. Glock, J.W. Campbell
Advertisers Index
Addison Biological Laboratory, Inc.
Intervet/Schering-Plough Animal Healthinside front cover, 40, xlviii, inside back cover
Novartis Animal Health US, Inc
Pfizer Animal Health
PRN Pharmacal
United States Department of Agriculture
World Buiatrics Congress

Cover photo courtesy of Cheramie Viator, Silver Spur Ranches, Raton, New Mexico. Additional photos courtesy of Dr. Bob Smith, Stillwater, Oklahoma.

The abstracts were translated in French by Dr. Guy Beauchamp and revised by Dr. Emile Bouchard.

Notice to Readers

All statements, opinions and conclusions contained in articles in *The Bovine Practitioner* are those of the author(s), and are not necessarily those of the American Association of Bovine Practitioners (AABP) unless specifically approved by the AABP Board of Directors.