



Vol. 51, No. 1
SPRING 2017

The Bovine PRACTITIONER

THE OFFICIAL PUBLICATION OF THE
AMERICAN ASSOCIATION OF BOVINE PRACTITIONERS



50th ANNUAL CONFERENCE

Omaha, Nebraska
September 14-16, 2017

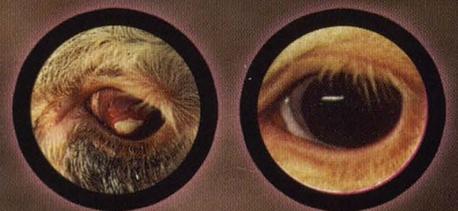
Moraxella bovoculi Bacterin

World's First Commercially Available Moraxella bovoculi Pinkeye Preventative!

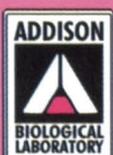
- 8 Different M. bovoculi Isolates
- Cost Effective for All Cattle Herds
- Proven Safety Record
- More Convenient than Autogenous Programs



Addison Biological Laboratory, Inc. announces the approval of the world's first commercial Moraxella bovoculi vaccine for the prevention of pinkeye in cattle. This USDA conditionally licensed product is the first of this kind. Previously the only method of prevention against *Moraxella bovoculi* was autogenous services. This vaccine signifies a breakthrough in convenience for the large number of veterinarians and herd owners battling the challenging problem of pinkeye caused by *Moraxella bovoculi*. This product license is conditional; efficacy and potency have not been fully demonstrated.



From the LEADERS in pinkeye prevention!



Addison Biological Laboratory, Inc.
www.addisonlabs.com
info@addisonlabs.com
800-331-2530





The Bovine PRACTITIONER

Vol. 51, No. 1
Spring 2017

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	Mark J. Thomas, DVM Lowville, New York
President-Elect	Mike D. Apley, DVM Manhattan, Kansas
Vice President	Glenn M. Rogers, DVM Aledo, Texas
Past President	John M. Davidson, DVM Shiner, Texas
Executive Vice President	K. Fred Gingrich II, DVM Ashland, Ohio
Treasurer	Bryan D. Halteman, DVM Turlock, California
Parliamentarian	Christine B. Navarre, DVM Baton Rouge, Louisiana

BOARD OF DIRECTORS

Carie Telgen, DVM Greenwich, New York 1st District, 2017	Hunter Lang, DVM Prairie du Sac, Wisconsin 5th District, 2018	Joe M. Hillhouse, DVM Panhandle, Texas 8th District, 2018	Dale A. Moore, DVM Moscow, Idaho 11th District, 2018
Thomas B. Massie, Jr., DVM Washington, Virginia 2nd District, 2018	Vickie L. Cooper, DVM Ames, Iowa 6th District, 2019	Jeff D. Ondrak, DVM Fairbury, Nebraska 9th District, 2019	Wayne S. Shewfelt, DVM Tavistock, Ontario, Canada 12th District, 2019
Lee Jones, DVM Tifton, Georgia 3rd District, 2019	Rodney K. Chapman, DVM Versailles, Missouri 7th District, 2017	Gerard J. Koenig, DVM Tulare, California 10th District, 2017	Eric Behlke, DVM Okotoks, Alberta, Canada 13th District, 2017
Garold H. Koester, DVM Cadillac, Michigan 4th District, 2017			

AVMA DELEGATE: **Brian J. Gerloff, DVM**
Marengo, Illinois

EXHIBITS CHAIRMAN: **Charles W. Hatcher, DVM**
College Grove, Tennessee

ADVERTISING AGENCY: **J. T. O'Brien & Assoc.**
12118 Nieman Road
Overland Park, Kansas 66213
(913) 579-4084

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

1130 East Main St., Ste. 302
Ashland, OH 44805
Tel: (419) 496-0685; FAX (419) 496-0697
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 serves as a communication medium between bovine practitioner organizations around the world. All manuscripts and communications must be presented in English. Beginning in 2017, THE BOVINE PRACTITIONER is an open access journal following a 6-month post-publication embargo to allow AABP members and veterinary medical libraries first access.

Copies of THE BOVINE PRACTITIONER are available to non-members for \$30.00 per copy for domestic destinations, or \$35.00 for international addresses. **Contact editor for details.**

Table of Contents

Antimicrobial drug use for control and treatment of bovine respiratory disease in US feedlot cattle: A meta-analysis of comparative studies versus tulathromycin Barbara Poulsen Nautrup, Ilse Van Vlaenderen, M. Decker, Ralph M. Cleale	1
Comparison of tulathromycin, tildipirosin, and tilmicosin for control of bovine respiratory disease in steers purchased from auction markets and fed in a Texas feedlot Kynan L. Sturgess, David G. Renter	17
Comparison of meat quality characteristics, growth, and feed efficiency of intact and castrated post-pubertal bovine males D. U. Thomson, M. E. Youngers, E. F. Schwandt, S. J. Bartle, M. G. Siemens, C. D. Reinhardt	25
A fecal egg count reduction test evaluating macrocyclic lactones using cattle treated 118 days earlier with saline, albendazole in combination with doramectin, or an extended-release formulation of eprinomectin T. A. Yazwinski, C. A. Tucker, J. Powell, P. Beck, E. Wray, L. Jones, J. E. Koltas, C. Hernandez	31
Effect of modified-live bovine viral diarrhea virus type 2 vaccine on performance, health, temperature, and behavior response in high-risk beef heifer calves Brad J. White, Miles E. Theurer, Dan R. Goehl, Peggy Thompson	38
Pilot study: Impact of using a culture-guided selective dry cow therapy program targeting quarter-level treatment on udder health and antibiotic use K. Patel, S. M. Godden, E. E. Royster, J. A. Timmerman, B. A. Crooker, N. McDonald	48
Assessment of dairy calves' microbiological environment using 3M™ Petrifilm™ bacteriology plates Sébastien Buczinski, Marie-Eve Borris, Jocelyn Dubuc	58
Dairy cow mortality data management: the dairy certificate of death Craig McConnel, Franklyn B. Garry	64
Evaluation and validation of a paralumbar fossa transabdominal rumen fluid sampling technique Jerry R. Roberson, Hilari French, James Q. Robinson	73
Guidelines for Authors.....	77
New Officers/Directors.....	83
Welcoming Receptions and Opening Ceremony.....	88
Seventh Annual Quiz Bowl.....	93
AABP Foundation—Zoetis Scholarships and Auction.....	96
Cattle Production Hall of Fame Inductees.....	98
Alumni Receptions.....	99
Annual Business Luncheon and Awards.....	101
President's Reception and Closing Event.....	120

Advertisers Index

Addison Biological Laboratory, Inc.	inside front cover
Bayer Animal Health.....	37
Elanco Animal Health.....	15, 16
Merial, Inc.	128, back cover
Norbrook Laboratories Limited.....	63

Cover photo courtesy of Dr. Bob Smith. Conference photos courtesy of Geni Wren and Dr. Bob Smith.

The abstracts were translated to 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.