

NO. 32.1
JANUARY, 1998



The Bovine PRACTITIONER

THE OFFICIAL PUBLICATION OF THE
AMERICAN ASSOCIATION OF BOVINE PRACTITIONERS



© Copyright American Association of Bovine Practitioners; open access distribution.

31st ANNUAL CONVENTION

American Association of Bovine Practitioners

Spokane, Washington

September 24-27, 1998

Pfizer is a proud sponsor of AABP.

© Copyright American Association of Bovine Practitioners

Dectomax keeps working long after Ivomec has called it a day.*

©1997 Pfizer Inc. DX9771/797 7-6390
Dectomax is a registered trademark of Pfizer Inc.
Ivomec is a registered trademark of Merck & Co., Inc.

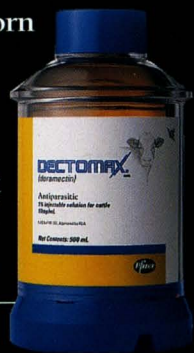
Parasites don't know when to quit. That's why you need strong parasite control that keeps on working. Like Dectomax[®] with its next generation molecule, doramectin.

A single injection protects your herd from 36 stages of internal and external parasites. Label to label, it's the broadest spectrum of control available.

Dectomax is the first product labeled to control brown stomach worm for up to 21 days. And now,

it also controls lungworm and small intestinal worm for up to 28 days. You don't get this duration claim with Ivomec. *Doesn't apply to horn fly or bolus product.

So talk to your veterinarian or animal health supplier or call toll-free at 1-888-332-8669 and ask for the product that works overtime.



Animal Health

www.pfizer.com/ah

Stronger. Longer.

TAKE TIME—OBSERVE LABEL DIRECTIONS



The Bovine PRACTITIONER

No. 32.1
January, 1998

EDITOR:
ERIC I. WILLIAMS, F.R.C.V.S., M.S.
1226 N. Lincoln
Stillwater, Oklahoma 74075
Tel: (405) 372-3693
FAX (405) 372-0939

ASSISTANT EDITOR
ROBERT A. SMITH, DVM
Stillwater, OK 74075

PRINTER:
Frontier Printers, Inc.
205 W. 9th
Stillwater, Oklahoma 74074

OFFICERS

| | |
|---------------------------------------|---|
| President | James E. Sears, DVM Bridgeport, Nebraska |
| President-Elect | Walter M. Guterbock, DVM Visalia, California |
| Vice President | Larry Hutchinson, DVM University Park, Pennsylvania |
| Past President | Deborah A. Stark, DVM Guelph, Ontario, Canada |
| Executive Vice President | James A. Jarrett, DVM Rome, Georgia |
| Treasurer | Roger Saltman, DVM Cazenovia, New York |
| Parliamentarian | L. Mac Cropsey, DVM Golden, Colorado |

BOARD OF DIRECTORS

| | | |
|--|--|--|
| John Ferry, DVM Adams, New York 1st District, 1999 | Kenneth Nordlund, DVM Madison, Wisconsin 5th District, 2001 | Gary Daley, DVM Turlock, California 10th District, 1999 |
| Richard L. Wilkes, DVM Rocky Mt., Virginia 2nd District, 1998 | Mark Kirkpatrick, DVM Readlyn, Iowa 6th District, 1998 | Gregory A. Ledbetter, DVM Jerome, Idaho 11th District, 2001 |
| Paul E. Johnson, DVM Enterprise, Alabama 3rd District, 2001 | Darrell C. Payne, DVM Sedalia, Missouri 7th District, 1999 | Emile Bouchard, DVM St. Hyacinthe, Quebec, Canada 12th District, 1998 |
| N. Kent Ames, DVM East Lansing, Michigan 4th District, 1999 | Steve Lewis, DVM Hereford, Texas 8th District, 2001 | David Hamilton, DVM Morden, Manitoba, Canada 13th District, 1999 |
| | Delbert G. Miles, DVM Greeley, Colorado 9th District, 1998 | |

REPRESENTATIVE TO THE AVMA HOUSE OF DELEGATES:

Darrel E. Johnson, DVM
Weyauwega, Wisconsin

James A. Jarrett, DVM
(alternate)

EXHIBITS MANAGER:

Samuel Hutchins, III, DVM
South Barre, Vermont

ADVERTISING AGENCY:

Veterinary Learning Systems
425 Phillips Boulevard #100
Trenton, NJ 08618-1496
609-882-5600 Fax: 609-882-6357

THE BOVINE PRACTITIONER is published by the American Association of Bovine Practitioners, Inc., twice a year (May and January) at **Frontier Printers, 205 W. 9th, Stillwater, OK 74074 (Tel: 405-372-8500; FAX 405-372-8523)**. Over 6000 copies are mailed to veterinarians engaged in cattle practice and allied institutions. Send new address (please include old address) to:

Dr. James A. Jarrett, Exec. Vice President, AABP, P.O. Box 1755, Rome, GA 30162-1755
Tel: 1-800-269-2227; FAX 706-232-2232

By agreement between the Board of Directors, American Association of Bovine Practitioners and the World Buiatrics Association this journal serves as a communication medium between Bovine Practitioner Associations across the world and is the official journal of the World Association for Buiatrics (WAB). Papers related to bovine practice will be accepted from overseas correspondents. Notices and brief reports of national conventions on cattle diseases will be accepted for publication. All communications must be presented in English. A section of the journal is refereed.

Copies of THE BOVINE PRACTITIONER are available to non-members for \$15.00 per copy, surface mail, or \$20.00, airmail (overseas).

AABP Publication Dates

On the recommendation of the Strategic Planning Committee and the AABP Editor, the Board of Directors approved the following:

| | 1998 | 1999 |
|--------------------------------|-----------|-----------|
| <i>The Bovine Practitioner</i> | May | January |
| <i>Annual Proceedings</i> | September | September |

Deadlines for submitting manuscripts.

| | | |
|--------------------------------|-------------------|------------------|
| <i>The Bovine Practitioner</i> | February 15, 1998 | October 15, 1998 |
| <i>Annual Proceedings</i> | May 01, 1998 | May 01, 1999 |

Instructions for submitting articles for *The Bovine Practitioner / Proceedings*

1. Articles should be supplied to the Editor on 3 1/2" HD (high density) diskettes, using Word Perfect or Microsoft Word programs.
2. Include a printed copy of the article with the diskette.
3. All charts, tables, drawings, etc., should be sent as separate pieces on an 8 1/2" x 11" sheet of paper. Oversize art is preferred, as printer will size to fit.
4. If photos are used, send 3 1/2" x 5" prints (not negatives). Printer will size to fit.

Send to Editor: **ERIC I. WILLIAMS, F.R.C.V.S., M.S.**
1226 N. Lincoln
Stillwater, Oklahoma 74075 U.S.A.
Tel: (405) 372-3693
FAX (405) 372-0939

Cover Photo

"*Summer Scenes*" is a copy of a painting by Bonnie Mohr, America's popular rural artist. Her original paintings and limited edition prints are found in private and public collections throughout the United States, Canada and several overseas countries.

For information, contact Bonnie Mohr Studio, P.O. Box 32, Glencoe, MN 55336,
Call 1-800-264 MOHR or FAX (320) 864-6646.

TABLE OF CONTENTS

| | |
|--|-----|
| ✓ • Evaluation of Viral Shedding and Immune Response Following Vaccination With a Modified Live BHV1 Vaccine — <i>James A. Roth, Michael B. Vaughn</i> | 1 |
| ✓ • Control of Inflammation in Experimental Bovine Pneumonic Pasteurellosis — <i>F. Bureau, M.L. Van de Weerd, E. Hanon, P-P Pastoret, P. Lekeux</i> | 5 |
| • Determination of Alpha-toxin Antibodies Against <i>Staphylococcus aureus</i> and Phagocytic Ability Postimmunization in Rabbits — <i>Hong Ryul Han, Hee Myung Park, Doo Kim</i> | 14 |
| ✓ • Comparative Efficacy and Duration of Immunity of Commercial <i>Pasteurella haemolytica</i> Vaccines — <i>Raymond W. Loan, Hsi-tang Tung, Jerry B. Payne</i> | 18 |
| • Systems Electronic Information — <i>James Waddell</i> | 22 |
| ✓ • Prevention of Bloat in Pastured Cattle - Using Monensin Sodium Controlled Release Capsules (CRC) — <i>L.B. Lowe</i> | 27 |
| • Alleviated Nutrient Imbalance by Monensin Premix (Romensin®, Rumensin®); Reduced Risk of Ketonaemia in Dairy Cows — <i>L.J. Jonker, J.I.D. Wilkinson, M. Tarrant</i> | 31 |
| ✓ • Clinical and Subclinical Events Related to the Presence of Mycotoxins in Cattle Feed — <i>M. Schuh</i> | 34 |
| ✓ • Enteric Pathogens of Young Calves — <i>Karl Kersting</i> | 39 |
| • NOAH® - AVMA Network of Animal Health — <i>James Brewer</i> | 43 |
| ✓ • Antibiotic Residues: Perception vs. Reality — <i>Gary D. Neubauer</i> | 45 |
| • Clinical and Serological Observations of Bovine Neospora Abortion in Three Dutch Dairy Herds — <i>A.R. Moen, W. Wouda, A.L.W. de Gee</i> | 48 |
| • Nutrition, Metabolic Diseases and Immunity in Dairy Cows — <i>G.H. Wentink, V.P.M.G. Rutten, Th. Wensing</i> | 52 |
| • Risk Factors of Displaced Abomasum in Wisconsin Dairy Herds — <i>Jan Hultgren, Bo Pehrson</i> | 56 |
| • Grumpy Old Vets: The 1960's Practice Hits the 21st Century — <i>Ken Nordlund</i> | 58 |
| • Transgenics and Dairy Animal Reproduction: Current Status and Potential — <i>Carol L. Keefer</i> | 63 |
| • Tools for the Veterinarian to Increase Herd Performance and Profitability — <i>Michael F. Hutjens</i> | 68 |
| • Pathophysiology of the Liver in High Yielding Dairy Cows and Its Consequences for Health and Production — <i>H. J. Breukink, Th. Wensing</i> ... | 73 |
| • Lameness of Dairy Cattle: Consequences and Causes — <i>J.K. Shearer</i> | 79 |
| • Environmental Quality in Dairy Housing — <i>Kevin A. Janni</i> | 87 |
| • Observations on Claw Abnormalities in Beef Cows PART ONE: Physical Characteristics and Claw Growth — <i>Paul R. Greenough, Lyall Petrie, John Campbell, Todd Scott</i> | 92 |
| • Tongue Ulcer — <i>Jim Wentzel</i> | 102 |

- Overview of BSE in the United Kingdom: U.S. Response
 Questions and Answers Regarding Bovine Spongiform Encephalopathy —
Linda A. Detwiler 104
- **Student Report** — Management of a *Salmonella* Outbreak on a Dairy Farm —
Alecia L. Larew 112

- AABP Officers i
- Exhibitors iv
- Opening Ceremony vi
- Social Events vii
- Annual Business Meeting x
- Awards xii

Abstract Index

- ✓ Evaluation of Ruminal Sulfide Concentrations and Seasonal Outbreaks of
 Polioencephalomalacia in Beef Cattle in a Feedlot —
M.M. McAllister 13
- Detection of Calves Persistently Infected with Bovine Pestivirus in a Sample of
 Dairy Calves in South-eastern Queensland —
R.E. Bock, B.J. Rodwell and M. McGowan 30
- ✓ Vitamin B₁₂ Responses to Cobalt Pellets in Beef Cows —
G.J. Judson, J.D. McFarlane, A. Mitsioulis and P. Zviedrans 33
- Effects of Parenteral Administration of Vitamin E on Health of Periparturient
 Dairy Cows —
R.J. Erskine 55
- Use of Physiologic Variables to Predict Milk Yield After Clinical Mastitis in Dairy
 Cattle —
W.M. Sischo 67
- ✓ Comparison of Histology with Maternal and Fetal Serology for the Diagnosis
 of Abortion Due to Bovine Neosporosis —
A. Otter, B. Helmick, M. Jeffrey, S.F.E. Scholes, J.W. Wilesmith, A.J. Trees 91
- Use of Drama in Teaching the Human Side of Veterinary Practice —
J.N. Mills 116

Advertisers' Index

- Bayer Corporation 101, 118, xxvii
- Elanco Products Company 17, 117
- Pfizer Animal Health Inside Front Cover
- Pharmacia & Upjohn, Inc. Outside Back Cover