

An overview of the 2021 AABP Conference

The 2021 54th AABP Annual Conference offered bovine veterinarians “Science with Practice”

After a year’s hiatus from an in-person conference, the American Association of Bovine Practitioners (AABP) 2021 54th Annual Conference was held in Salt Lake City, Utah, Oct. 7-9, with preconference seminars held Oct. 3-6. Beef and dairy veterinarians were able to get high-quality CE and interact with speakers in person as well as via the AABP virtual conference platform, livestreaming and Zoom.

“For many of us, COVID-19 didn’t change our day-to-day,” notes now-AABP Past President Dr. Carie Telgen. “There were still cows to care for, businesses to run and clients to serve. As an organization, we made great strides in moving forward from the creation of the Diversity, Equity and Inclusion Task Force, the Mental Health Task Force, acceptance of robust Vaccination Guidelines, and the inclusion of veterinary technicians into our organization.”

With the theme “Science with Practice”, the conference gave in-person and virtual attendees up to 22.50 hours of continuing education on beef, dairy, clinical skills, practice management, student and other sessions plus preconference seminars and clinical forums. Awards, a scholarship auction and \$247,000 in scholarships were also high points of the conference.

“This conference demonstrates the resiliency and determination of bovine practitioners to continue with offering CE to members,” says AABP Executive Director Dr. K. Fred Gingrich, II. “Our volunteers put together a great scientific program and our board supported offering the conference to both in-person attendees and those who chose to participate virtually. We were all excited to network and get together with friends and colleagues again and seeing new and familiar faces is always rewarding.

“The program committee did a great job in creating a scientific program that was applicable to our members,” states current AABP President and 2021 Program Chair Dr. Pat Gorden. “However, I think the biggest success of the meeting was the ability to network with colleagues and friends while we were in Salt Lake City.”

Also at the conference, keynote speaker Dr. Carrie Journey, president of Not One More Vet (NOMV), addressed the issue of depression and suicide in the veterinary profession. NOMV started on Facebook and grew to 33,000 veterinary professionals across the world (www.nomv.org). “Dr. Journey did a great job of connecting with our audience and pointing out that there is mental illness throughout the profession,” Gorden says. “If her talk moves the needle on recognizing mental health within the bovine veterinary industry, it was a huge success.”

Introduction of the 2022 AABP vice president candidates, Drs. Fred Muller and Dave Sjeklocha, gave members a chance to get to know their potential leadership.

“It’s been very nice to be in-person,” Telgen added. “It’s been fantastic to see everyone face-to-face. Prior to the keynote address, we did a ‘word cloud’ where attendees, through the Sli.do app, indicated their reasons for attending, and the number one reason was networking. There has been a lot of enthusiasm and people conferencing in the hall and reconnecting with each other.”

New AABP Officers 2021-2022

President

Dr. Patrick Gorden is a 1993 graduate of the Iowa State University College of Veterinary Medicine. After graduation, Gorden joined the Platteville Veterinary Clinic, a predominantly dairy practice in southwest Wisconsin. While in there, he developed an interest in teaching, and also served as an adjunct instructor in the Animal Science Department at the University of Wisconsin-Platteville. In 2000, he joined Dairy Veterinary Services in Chandler, Ariz. providing dairy health and production services to farms ranging in size from 400 to 9,000 cows and developed quality milk programs and milking equipment evaluation.



In 2007, Gorden and his family relocated back to Ames, Iowa, where he joined the faculty at the Iowa State University College of Veterinary Medicine, is currently a clinical professor specializing in dairy production medicine in the Department of Veterinary Diagnostic and Production Animal Medicine, and was appointed Director of Food Supply Veterinary Medicine. He is the lead instructor for dairy production medicine, records analysis and applied nutrition. He has been instrumental in developing and the ongoing delivery of residue detection services in milk and meat, which is currently offered through the ISU Veterinary Diagnostic Laboratory.

Gorden earned board certification from the American Board of Veterinary Practitioners (Dairy Practice) in 2004, received his PhD in Veterinary Microbiology in 2017, and achieved board certification with the American College of Veterinary Clinical Pharmacology in the summer of 2018.

Gorden has been an active AABP member since he was in veterinary school and has served in a number of roles for AABP, including dairy program coordinator for the 2006 AABP Annual Conference, and numerous committees.

Throughout his career, Gorden has been a private and academic veterinary practitioner who strongly advocates for his clients, as well as being a teacher and mentor to students and veterinarians.

Gorden and his wife of over 30 years, Kelly, are the proud parents of Sam, Abby and Erica.

Vice President

Dr. Michael Capel grew up in the Hudson Valley region of New York. Despite being the son of a commercial river boat pilot, he developed an interest in agriculture and dairy medicine. He earned a BS in Animal Science from Cornell University (1996) and his DVM from the College of Veterinary Medicine at Cornell (2000). He married a classmate during veterinary school, and upon graduation, the Drs. Capel joined Perry Veterinary Clinic in Perry, N.Y. where he became a partner two years later, served as a managing partner for six years, and has served as the chairman of the large animal service committee at the practice for over 10 years.



Capel's key interests include milk quality (NYS certified milking equipment technician since 2011), nutrition and the judicious use of antimicrobials in addition to providing traditional veterinary services. He has an equity share in a large dairy and is actively involved in its management and planning.

AABP has been an integral part of Capel's professional career since before graduation, having been a member for 25 years and attending almost all AABP annual conferences during that time. He became actively involved in AABP, especially with formalizing AABP's externship program. Capel was a member of several AABP committees.

Capel is active within New York state, serving as the chair of the Quality Milk Production Services Advisory Board for the past eight years, as a member of the New York State Animal Well-Being Work Group for the past five years, and a member of the Dean's Advisory Council at the veterinary college at Cornell for the past four years. In 2008, he received the AABP James A. Jarrett Award for Young Leaders.

In 2004, Capel completed the University of Guelph Dairy Production Medicine Certificate Program and has been actively involved in independent field research for his clients as well as research with colleagues from several academic institutions and researchers in the pharmaceutical industry. He has authored numerous papers and give many national and international presentations.

Michael is excited to be with his family including veterinarian wife Kate, son Matthew and daughters Adeline, Caroline and Natalie. He sings tenor for the church and local university community choir and has sung at numerous weddings and funerals, and enjoys hiking and running, snow and water skiing, cooking, camping and musical theater.

Minutes of the American Association of Bovine Practitioners

Annual Business Meeting

October 9, 2021 | Salt Palace Convention Center, Salt Lake City, Utah

The meeting was called to order by AABP President, Dr. Carie Telgen, at 12:00 PM Mountain Time. Dr. Telgen presented the minutes of the 2020 Louisville business meeting. On motion with a second, the minutes of the 2020 Annual Business Meeting were approved.

President Telgen introduced the current AABP Executive Committee, Dr. Fred Muller, chair of the AABP Foundation, Dr. Michael Capel, incoming AABP vice-president, and Dr. Fred Gingrich, AABP Executive Director. President Telgen acknowledged the program committee for their outstanding work in creating the content for the 54th AABP Annual Conference. Dr. Telgen recognized retiring District XI Director, Dr. Dale Moore and AVMA Delegate, Dr. Brian Gerloff. The election results for the board of directors were announced. Dr. Elizabeth Quesnell Kohtz has been elected to her first term representing District XI. The following directors were elected to serve a second term:

DR. RANDALL HINSHAW – *District II*.
DR. WIL SCHULER – *District V*.
DR. ARN ANDERSON – *District VIII*.

The following committee chairs who have completed their term of service were recognized and thanked by President Telgen:

DR. SARAH WAGNER – *Lameness Committee*
DR. RENEE DEWELL – *Animal Welfare Committee*
DR. GABE MIDDLETON – *Membership Committee*
DR. ROGER THOMSON – *Milk Quality and Udder Health Committee*
DR. EARL AALSETH – *Nutrition Committee*
DR. JUSTIN KIEFFER – *Committee on Pharmaceutical and Biologic Issues*

Dr. Brian Reed AABP Treasurer, presented the treasurer's report to the membership. He reported that the CPA firm of Irwin Financial Associates, LLP, Ashland, Ohio, completed a satisfactory combined audit of AABP and the AABP Foundation for the fiscal year ending December 31, 2020. They found no material weaknesses. During the fiscal year 2020, total revenues were \$2,103,653, against total expenses of \$1,777,551, leading to an increase in net assets of \$326,102 on a consolidated basis from December 31, 2019 until December 31, 2020. As of the end of 2020, total net assets were \$2,872,093, of which \$1,721,043 have donor restrictions associated with them (scholarships, grants, etc.) and \$1,151,050 without donor restrictions associated with them. On motion with second, the Treasurer's Report was approved.

Dr. Richard Wallace, AABP Parliamentarian, presented the proposed bylaws changes presented to the membership by the Bylaws Committee that were approved by the AABP Board of Directors. The proposed changes included:

- Adding a class of membership for licensed veterinary technicians
- Change the AVMA Delegate to a board appointed position
- Change the makeup of the Finance Committee
- Change the makeup of the Forward Planning Committee
- Change the requirements for serving as the parliamentarian

Awards

Dr. Telgen recognized the scholarship recipients of the Amstutz Scholarships, AABP Foundation-Zoetis Scholarships, AABP Foundation Bovine Veterinary Student Recognition Award sponsored by Merck Animal Health, and the Francis Welcome Future Dairy Practitioners Scholarship. Dr. Fred Muller from the AABP Foundation Board, announced the winner of the 2021 AABP Foundation Competitive Research Grants is Dr. Stephen LeBlanc from the University of Guelph. The winners of the 2021 Cattle Welfare Research grants are Dr. Pat Gorden from Iowa State University and Dr. Michael Kleinhenz from Kansas State University.

Dr. Nicole Costello announced the winners of the Student Case Presentation Competition:

Overall winner	MONICA DZIUBA <i>Michigan State University</i>
Clinical Case winner	JESSICA GARCIA <i>The Ohio State University</i>
Research Project 1st place	MONICA DZIUBA <i>Michigan State University</i>
Research Project 2nd place	MEGAN MCMAHON, <i>University of Minnesota</i>

Dr. Derek Foster announced the Graduate Student Research Summaries Awards. Prizes of \$1,500, \$1,000, and \$500 were awarded to the first, second and third place winners respectively

First place –	DR. LISA GAMSJAGER <i>University of Calgary</i>
Second place –	DR. WILLIAM CROSBY <i>Mississippi State University</i>
Third place –	MS. CLAIRA SEELY <i>Cornell University</i>

The following awards were presented:

Boehringer Ingelheim Excellence in Preventive Medicine Beef Award

Presented to Dr. Christine Navarre from Dr. Mark Hilton.

Boehringer Ingelheim Excellence in Preventive Medicine Dairy Award

Presented to Dr. Jim Bennett from Dr. Sandra Godden.

Zoetis Distinguished Service Award

Presented to Dr. Dale Moore from Dr. Fred Muller.

AABP Award of Excellence

Presented to Dr. Nigel Cook from Dr. Sheila McGuirk.

Merck Animal Health Mentor of the Year Award

Presented to Dr. Mark Hilton from Dr. Elizabeth Homerosky.

James a. Jarrett Award for Young Leaders

Presented to Dr. Elizabeth Homerosky from Dr. Mark Hilton.

Boehringer Ingelheim Bovine Practitioner of the Year Award
Video presentation to Dr. Kelly Barratt by Dr. Ann Godkin.

AABP Honorary Life Membership

Presented to Mr. Dickson Lewis from Dr. Roger Saltman.

Amstutz-Williams Award

Presented to Dr. Dee Griffin from Dr. Dave Sjeklocha.

Dr. Telgen delivered her president's address to the membership. She thanked the many volunteers of the organization and the support of the membership during the past year. Dr. Telgen identified the difficulties we have all faced as veterinarians, especially during the COVID-19 pandemic. She thanked the leaders of AABP for assisting the organization in continuing to provide resources to the membership during the past year.

Dr. Telgen introduced the next AABP President, Dr. Pat Gorden. Dr. Gorden thanked Dr. Telgen for her exemplary service and presented her with the president's plaque. Dr. Gorden delivered closing remarks to the membership and asked for a motion to adjourn. Upon motion and a second, the meeting was adjourned at 1:30 PM.



Dr. Dee Griffin (center), congratulated by peers and colleagues for receiving the AABP Amstutz-Williams Award.



AABP President Dr. Pat Gorden and Immediate Past President Dr. Carrie Telgen.



2021 AABP Annual Conference Business Meeting and Luncheon.



AABP Foundation Chair Dr. Fred Muller addresses attendees.



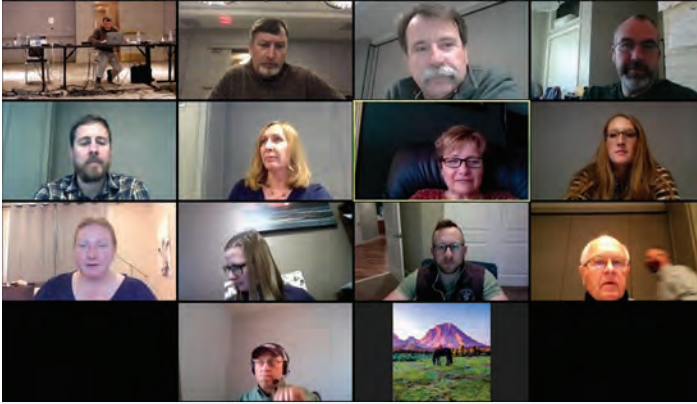
The AABP Board of Directors

Front Row, L-R: Incoming District 11 Director Dr. Elizabeth Kohtz, District 8 Director Dr. Arn Anderson, District 10 Director Dr. Paul Cook, District 11 Director Dr. Dale Moore, Past President Dr. Calvin Booker, District 1 Director Dr. Elizabeth Brock

Back Row, L-R: Incoming Vice President Dr. Michael Capel, Parliamentarian Dr. Dick Wallace, District 7 Director Carl Meyer, President-Elect Dr. Pat Gorden, President Dr. Carrie Telgen, District 4 Director Dr. Mark Hardesty, District 3 Director Dr. Lee Jones, District 13 Director Dr. Ryan Rademacher, Treasurer Dr. Brian Reed, District 12 Director Dr. Murray Gilles

Not Pictured: Vice President Dr. Sandra Godden, District 2 Director Dr. Randall Hinshaw, District 5 Director Dr. Wilfred Schuler, District 6 Director Vickie Cooper, District 9 Director Jeff Ondrak

2021 AABP Annual Conference Program Committee



Top Row (L-R): 2021 AABP President-Elect Dr. Pat Gorden (Chair), Dr. Pat Gorden again (!), Dr. Terry Engelken (Cow-calf); Dr. Derek Foster (Research Summaries)

Second Row (L-R): Dr. Jonathan Garber (Dairy), 2021 AABP Vice President Dr. Sandra Godden (Preconference Seminars), Dr. Joyce Van Donkersgoed (Feedlot), Dr. Nicole Costello (Students/New Graduates)

Third Row: (L-R): Dr. Kelly Still-Brooks (Small Ruminants); Dr. Clair Windeyer (Research Summaries), Dr. Kevin Jacque (Practice Tips), Dr. David Welch (VPS)

Bottom Row (L-R): Dr. Lowell Midla (Clinical Skills)

2021 AABP Annual Conference Meeting Stats

Attendee and other meeting stats from the 2021 AABP Annual Conference:

- 1083 registrants including:
- 736 attendees on-site
- 335 virtual attendees
- 241 veterinary students
- 149 members of the American Association of Small Ruminant Practitioners
- 8 countries represented
- 5 registered veterinary technicians
- 80 exhibitors

2021 AABP Awards

Most award winners were able to be present at the 2021 Annual Conference and celebrate their recognition with their colleagues and peers. Two infrequent awards were also given – the Amstutz Williams Award and an Honorary Life Membership.

See more AABP awards on pages 282 thru 286.

Other awards given at the 2021 54th AABP Annual Conference include:

2021 AABP Foundation Competitive Research Grant Awards



Assessment of systemic inflammation following oral calcium supplementation in postpartum dairy cows

DR. STEPHEN LeBLANC
Ontario Veterinary College

2021 AABP Foundation Cattle Welfare Grant Awards*



Evaluating the efficacy of two local anesthetic options to reduce pain in calves after cauterization

DR. ABBIE VISCARDI
Kansas State University



Determination for the need for analgesics in day-old calves following cauterization

DR. PAT GORDEN
Iowa State University

**These grants are supported by an anonymous donor with matching funds from the AABP Foundation.*

2021 AABP Research Summaries Graduate Student Awards

1st Place Do volume, immunoglobulin G content and feeding method of the first colostrum meal impact subsequent nursing behavior and transfer of passive immunity in beef calves?

LISA GAMSJÄGER
University of Calgary

2nd Place Effect of Hyperketonemia on Circadian Patterns of Blood Metabolites and Milk Predicted Constituents in Dairy Cows

DR. CLAIRA SEELY
Cornell University

3rd Place Associations of Serum Calcium and Subclinical Hypocalcemia at Calving with Productive, Reproductive and Health Outcomes in multiparous Jersey Cows

DR. AINHOA VALLDECABRES
UC-Davis

2021 Student Case Presentation Competition Winners



Overall Winner

Negatively Controlled Trial
Investigating the Effect of Dry Cow
Therapy on Clinical Mastitis and Culling

MONIKA DZUIBA
Michigan State University

Research Report Winners

1st Place Negatively Controlled Trial Investigating
the Effect of Dry Cow Therapy on Clinical
Mastitis and Culling

MONIKA DZUIBA
Michigan State University

2nd Place: Effect of water tank sanitation on water quality,
bacterial and viral contamination, and feed
intake of cattle in a midwestern feedlot

MEGAN MCMAHON
University of Minnesota

Clinical Case

Management of a zoonotic emerging multidrug
resistant *Salmonella enterica* serotype 4, 5, 12, i- on
dairies in the Midwest

JESSICA GARCIA
The Ohio State University

AABP Keynote Speech

Addresses Mental Health and Veterinarians

In the 2021 Keynote Address from Not One More Vet (NOMV) President Dr. Carrie Journey, a packed crowd learned how mental health is critical in veterinary medicine and what some tools are available to help. Journey started off with some sobering statistics on suicide in the profession. “Too many of us know someone who has been touched by suicide,” Journey said. Three of Journey’s 86 classmates have died from suicide since graduation in 2005. “If you are in that dark place, I want to help you up and out,”

NOMV offers peer support, resource and education, and was born when veterinarians started talking about why veterinary medicine is hard. NOMV started on Facebook and grew to 33,000 veterinary professionals across the world, at least one follower in every single continent. Most people connect through the online support forum, but Journey says that now as a registered 501c3, they make available peers to talk to and other resources, including lecture. “I do lectures because knowledge is power,” she says. “That’s how we make real change.”

Is suicide really a problem in the profession? Journey noted a study that looked at suicide, cancer and other causes of death among 450 California veterinarians from 1960-92. Male veterinarians were 2.5 times and female veterinarians 5.9 times

as likely to die by suicide than the general population. “It’s not a millennial problem, it’s a veterinary medicine problem that persists to this day,” she notes. A paper in 2014 looked at violent deaths for veterinary professionals; males were 1.6 times and females 2.4 times likely to die by suicide, and female veterinary technicians were 2.3 times and male veterinary technicians five times more likely to die by suicide. “It’s not just a vet problem, it’s a vet med problem.”

Secondary trauma stress is the emotional duress that results when an individual hears about the first-hand trauma experiences of another, including clients. “A lot of us hold onto too much of that trauma,” Journey says. In a poll, 58.9% of U.S. veterinarians had high secondary trauma out of 5,000+ veterinarians.

So, what can we control? When we look at how we handle stress, we have a lot of research that says that your personality and personal coping mechanisms matter more. Veterinarians are quite a bit more neurotic than the general public, but that can make you a good doctor. That part of your brain helps you quickly identify and sort risk, a really important thing in veterinary medicine. Being able to think about worst-case scenarios and how you are going to deal with them, that’s really important in surgery.

A Merck study showed the risk factors for wellbeing and mental health, and they included neuroticism, having a higher debt, being younger, being female and having a dissatisfaction with hours. “You can’t read the label front inside the jar, sometimes you need help to not get in your own way.”

You can view Journey’s full presentation at <http://aabp.org/meeting/2021/journey.mp4> and find out more at www.nomv.org.

Scholarships

In 2021, the AABP Foundation received 127 scholarship applications and awarded 51 scholarships to veterinary students, totaling \$247,000.

2021 AABP Foundation-Zoetis Scholarship

Veterinary students graduating in 2022 were eligible for the AABP Foundation-Zoetis Scholarship. This year 13 students received the \$5,000 award which is generously funded by Zoetis. The 2021 recipients are:

ALEXANDRA COLTON, *Oregon State University*
PATRICK CRANNELL, *Michigan State University*
R. JORDAN FARRELL, *Auburn University*
LUCAS HEIMMERMANN, *University of Wisconsin*
MARYANA HUDSON, *Mississippi State University*
HANNA JARVIS, *The Ohio State University*
MARISA KLISTER, *University of Wisconsin*
MONTANA LINS, *University of Wisconsin*
LOGAN MURRAY, *University of Georgia*
ALLYSON PATTERSON, *North Carolina State University*
MARINA SWEET, *The Ohio State University*
ADAM WIEGAND, *Western University*
LYLE WIELENGA, *Iowa State University*

2021 Amstutz Scholarship

Nine veterinary students received the \$10,000 2021 Harold E. Amstutz Scholarship. Funding sources are AABP member contributions, investment fund interest and dividends, AABP 5k Stampede registrations sponsored by Boehringer Ingelheim, and proceeds from the AABP Live and Silent Auctions and raffle. The 2021 recipients are:

TREVOR COPES, *Tufts University*
MONIKA DZIUBA, *Michigan State University*
LINDSEY FENSTER, *University of Georgia*
MADISON KELLY, *Auburn University*
ENED MCNETT, *Oregon State University*
JESSICA MESECK, *Iowa State University*
TYLER OXLEY, *Ross University*
JARED SANDERSON, *Michigan State University*
KARA VALASEK, *Iowa State University*

2021 AABP Foundation -Merck Animal Health Bovine Veterinary Student Recognition Awards

Eighteen 3rd and 4th year veterinary students have been chosen to receive this \$5,000 scholarship generously sponsored by Merck Animal Health. The 2021 recipients are:

KATHRYNE BLAIR, *Washington State University*
JULIA BRIGANDI, *Cornell University*
ALEXANDRA COLTON, *Oregon State University*
JORDAN CORNWALL, *Washington State University*
MONIKA DZIUBA, *Michigan State University*
LINDSEY FENSTER, *University of Georgia*
JULI HENDERSON, *Iowa State University*
KALENE JOHNSON, *Ohio State University*
MONTANA LINS, *University of Wisconsin*
JESSICA MESECK, *Iowa State University*
ALEXANDRA PRESZLER, *Iowa State University*
LEXIE REED ONTARIO, *Veterinary College*
JARED SANDERSON, *Michigan State University*
ARTEMIS SAPOUNTZI, *Cornell University*
JARED SCHENKELS, *Atlantic Veterinary College*
ANNA SCHMIDT, *University of Pennsylvania*
ISABELL STAMM, *Western University*
KARA VALASEK, *Iowa State University*

2021 Dr. Francis Welcome Future Dairy Practitioner Scholarship

The purpose of the Francis Welcome Memorial Scholarship is to support a superior 3rd year veterinary student who demonstrates the character, knowledge and potential to become an outstanding dairy veterinarian upon graduation. The award is \$2,000.

The Francis Welcome Memorial Scholarship was endowed by the Welcome family, and supported through member donations, to honor the memory of AABP Honor Roll member Dr. Francis (Frank) Welcome who was actively involved in the AABP organization throughout his career.

BLOSSOM DEBRUIN, *Western University*

Amstutz Scholarship Fund Auctions Raise \$85,000

Auction donations and purchasing was back in high gear at the 2021 conference, and raised a total of \$85,000 between the live and silent auctions. Many items were re-donated on the spot which raised the dollar amount. In the spirit of cooperation, the Kansas State Great Plains Beef Syndicate, Ohio Dairy Veterinarians, and the Southern Crescent Bull Buyers combined funds to purchase the Mark Hopkins Bronze Bull Statue for \$26,000.

Vacation homes, art, tools, student chapter bundles, food and more were donated by students, members and AABP exhibiting partners.

New this year was a 50:50 raffle, raising \$9,200, \$4,600 of which went to Dr. Tanner Leon. Leon donated \$1,000 back to the AABP Foundation.

Simplified CE Certificates

The 2021 54th AABP Annual Conference offered 22.50 RACE-approved continuing education (CE) credits. RACE approval is one benefit in addition to having online CE free of charge for AABP members.

If you attended the 2021 AABP Annual Conference in-person or virtually, you can access and print your CE certificate by logging on to the AABP website at <https://aabp.org>, and in the upper righthand corner at "Member Log On", click on "My CE Certificates". You can edit the certificate and check the presentations you watched, then click Create Your CE Certificate and print.

2021 AABP–Boehringer Ingelheim Bovine Practitioner of the Year

DR. KELLY BARRATT

The Bovine Practitioner of the Year Award has been awarded annually since its establishment in 1978. Since its inception, this award has been sponsored by Syntex Animal Health, Fort Dodge Animal Health, and now Boehringer Ingelheim. The award consists of a diamond ring and commemorative plaque. The award winner exhibits those qualities that exemplify the AABP and its members. Candidates are evaluated on the following criteria:



- Must be a bovine practitioner in active practice;
- The quality of veterinary service provided as judged by his or her peers;
- Participation in organized veterinary medicine, such as AABP, as well as activity on veterinary boards, such as licensing, specialty, etc.;
- Contribution to the knowledge of the profession through case reports, scientific reports and continuing education;
- Achievements and activities which have an impact on the cattle industry and bovine practice.

Dr. Ann Godkin described the 2021 AABP-Boehringer Ingelheim Bovine Practitioner of the year. “The winner this year amply fulfills the criteria for this award. As a test for this award, I considered, ‘What would an early years’ student think after spending time with our winner? Would they want to go on to become a veterinarian working mainly with cows?’ Our winner has become a lifestyle role model, veterinary leader and a mentor to new young vets in practice and beyond, encouraging them to see bovine veterinary medicine as a valuable and rewarding career choice.

This year’s winner stated that they had always wanted to be a veterinarian. Riding with a local vet and working on a local dairy farm did lead to this year’s winner graduating from the Ontario Veterinary College in 2005. Prior to graduation, our winner showed an early interest in bovine practice and, in 2003, was awarded an AABP Amstutz scholarship. Following graduation our winner became an associate veterinarian in the Heartland Veterinary Services practice, working with all ruminant species but focused mainly on dairy cattle. In 2010, our winner became a partner. The practice now has six small animal and 14 large animal veterinarians making it one of the largest in Ontario.

Our winner has shown leadership and enhanced the professional reputation of the bovine practitioner by taking on duties as an Assurance Program Analyst with the Dairy Farmers of Ontario (DFO). In Ontario, uniquely, veterinary practitioners have been enlisted to help dairy producer clients conduct annual ProAction audits. Our winner has been the veterinary trainer, providing training and ongoing consultation to the 60+ veterinary practitioners actively involved in ProAction. She is respected by fellow practitioners for practical resolutions to the various issues that have arisen and has done this while maintaining the integrity of the overall program.

Our winner has helped to host community events such as farm and clinic open house events. As an early adopter of social media (A SnapChat tour of “A Day in the life of a Large Animal Veterinarian”) and as a twitter pioneer (@BarrattKelly), our winner has used the medium to share information about the dairy industry, dairy farming and veterinary medicine.

Beyond these activities, notable evidence of our winner’s veterinary leadership role has included receiving numerous awards. She was a founder of the Ontario Association of Bovine Practitioners’ Bovine Vet Tech CE committee.

Outside of veterinary medicine our winner and partner Adam operate a dairy farm. They have one son (Noah, aged 2) and a new son, Archie, born June 12th. Managing practice (as a partner), daily road work, additional work with ProAction and DFO, as well as dairy farming with a growing family is an awesome achievement.

Dr. Kelly Barratt exemplifies what a bovine veterinarian should strive to be and does it with humility. Her work ethic is exemplary – she also demonstrates that it is possible to be a really good bovine veterinarian, assume leadership roles, collegiality and maintain a healthy lifestyle.”

AABP-Boehringer Ingelheim Awards for Excellence in Preventive Veterinary Medicine

The AABP-Boehringer Ingelheim Excellence in Preventive Medicine Award for one beef and one dairy practitioner includes a plaque and a \$1,500 scholarship to the college of veterinary medicine of the recipients choice. The award was established in 1982 and previously sponsored by Merial. In 2017, Boehringer Ingelheim became the sponsor of these awards. The awards recognize individual member practitioners that have developed outstanding preventive medicine programs.

Boehringer Ingelheim Excellence in Preventive Medicine – Beef

DR. CHRISTINE NAVARRE



Presenting the 2021 Boehringer Ingelheim Excellence in Preventive Medicine Beef award was Dr. Mark Hilton. “Our awardee is one of the most well-known members of the AABP. Career highlights include a DVM from Louisiana State University, private practice in Texas, residency in food animal internal medicine at Texas A&M University, a diplomate of the American College of Veterinary Internal Medicine, being a professor at Auburn and LSU, president AABP, AABP Distinguished Service Award winner, NCBA member, BQA coordinator for Louisiana, NAVC president, CAST board member, mentor to hundreds of undergraduate, graduate and veterinary students, author of hundreds of articles and more.

You likely know that our very deserving award winner is Dr Christine Navarre, extension veterinarian at LSU. Here are some quotes from her letters of support ‘Dr. Navarre has dedicated her career to the advancement of food animal practice within the veterinary profession.’ ‘She introduced me to a wider network of cattle veterinarians and has been a wonderful resource for herd health management, individual animal care and helping me find my path in cattle production medicine.’ ‘She is a tireless advocate for strategic deworming so that we can delay resistance to our commonly used anthelmintics. She can explain refugia to a veterinarian, a producer or a 4-H’er due to her excellent communication skills.’ ‘My purpose in life is to emulate Dr. Navarre in so many ways and I cannot imagine my career without her as an influence since day 1 in veterinary school.’”

Boehringer Ingelheim Excellence in Preventive Medicine – Dairy

DR. JIM BENNETT

Presenting the 2021 Boehringer Ingelheim Excellence in Preventive Medicine Dairy award was Dr. Sandra Godden. “This year’s recipient is so deserving of this distinction that there was some debate among his colleagues about whether he had already received it. Throughout his career, he has exemplified the best in progressive dairy practice, building a practice that is known for offering a wide variety of traditional clinical services, preventive herd health and production medicine. His (now former) co-owner describes him as ‘the backbone and driving force’ in their practice with his passion for his clients and their success. He is a rare ‘jack-of-all-trades,’ having developed expertise in nutrition, milk quality, facility design and evaluation, calf management and more. He’s also a prolific writer, educator and consultant, appearing frequently in regional dairy publications as well as the Bovine Practitioner and JAVMA, behind the speaker’s podium at many CE events, and on dairy farms around the globe. As neighboring veterinary faculty, we often hold up this award recipient as an example of the type of veterinarian students should aspire to be – someone who has held onto his passion for veterinary medicine while pursuing new avenues of interest and expertise throughout his career. It is therefore a great honor to present this award to Dr. Jim Bennett of Northern Valley Livestock Services in Plainview, Minnesota.”



health and sharing their knowledge through veterinary extension positions at the VMTRC at UC Davis and later at Washington State University, where they were the director of veterinary Extension and field disease investigation as well as the director of continuing veterinary medical education.

Many of their students regard this doctor as a great teacher and mentor, to them and their careers. One of our colleagues recently found a quote from our beloved mentor which states ‘I just love what I do and always finding new things to work on. You know, I tell students if you are bored in veterinary medicine, you are doing something wrong because there is always something to learn. One of the things I’ve done is try to look at things that haven’t been done before.’ This recipient has been a committed volunteer to the AABP, providing countless hours on boards, committees and task forces, including the Board of Directors, the Foundation Board, the Lameness Committee, and the Amstutz Committee. They have also served the American College of Veterinary Preventive Medicine, the WSU Spring Conference and the Academy of Dairy Veterinary Consultants (ADVC), a group of consultants, predominantly from the West, which meets twice a year. While our good doctor technically served as the secretary of the ADVC for over 20 years, in reality SHE, and her husband Bill, practically carried this group on their shoulders. Organizing meeting sites, hotels, speakers and anything else which needed to be done for the organization. Through years of research and Extension, this year’s recipient has spent her entire career serving veterinarians, students and dairy producers. And because of this distinguished and widely recognized career of service, there is no one better suited for the AABP-Zoetis Distinguished Service Award, than Dr. Dale Moore.”

AABP-Zoetis Distinguished Service Award

DR. DALE MOORE

This award was established in 1989. Beginning in 1996, it has been given annually by Pfizer Animal Health, Inc., now Zoetis. It consists of a commemorative plaque and a certificate of appreciation.



Candidates for the award are those individuals who, through long and continued service, have promoted the goals of the American Association of Bovine Practitioners, and whose accomplishments have served as a model for service to bovine agriculture through organized veterinary medicine. Selection criteria include the following:

- A career of self-effacing commitment to excellence in bovine medicine as evidenced by conscientious involvement in the affairs of the AABP;
- Demonstrated leadership in keeping organized veterinary medicine abreast of the times;
- Peer recognition as an effective spokesman for the bovine practitioner.

Dr. Fred Muller described the recipient of the 2021 AABP-Zoetis Distinguished Service Award. “This year’s recipient of the 2021 AABP-Zoetis AABP Distinguish Service Award has recently completed a 40+ year career of service to their profession and the dairy industry of the U.S. and beyond. They come from a popular dairy state back east but didn’t get hooked on dairy cows until they began working on a small farm in California while attending veterinary school at the University of California, Davis. From that point forward, they have been learning about dairy cattle

AABP Award of Excellence

DR. NIGEL COOK

This award was first established in 1989. Candidates for the award must be nominated from teaching, research, industry, or government areas. The nominees’ professional activities must have had a consistent and direct influence on daily activities of veterinarians in bovine practice. Eligibility also includes a degree in veterinary medicine and AABP membership



Dr. Sheila McGuirk presented the 2021 AABP Award of Excellence. “The recipient of this year’s AABP Award of Excellence is distinguished among us for contributions in research, teaching, mentorship and extension education. Our recipient is an advocate for cows, sustainability of agriculture, the importance of our profession, and safety of food products produced by the animals under our care. Extensive research investigations have resulted in contributions of immense impact on students, veterinarians, individual farms and the dairy industry. Creation of usable tools, patented inventions, interactive, analytical methods, benchmarking data and novel forums for dissemination of knowledge have set the stage for present and future advancements in the areas of lameness pathogenesis, prevention and treatment; heat stress, cooling and ventilation of barns; transition and fresh cow management; cattle well-being and welfare; mastitis; farm drug selection, use, handling and monitoring.

Our recipient has been an invited speaker on almost every continent in the world and is the author of hundreds of high-impact meetings' proceedings and online publications directed to cattle veterinarians, producers and allied dairy industry partners. Peer-reviewed publications and training programs conducted all over the world may dwarf, but do not minimize, the magnitude of his local impact. Ipad applications, risk assessment tools, online virtual tours, and real-time, multi-lingual support continue to improve our dairy systems. He is an outstanding teacher. He connects with, creates excitement amongst and engages students of all backgrounds, experience, training and skills. Learning goes both ways in the eyes of this teacher and collaboration with students plays a significant role in creation and dissemination of new knowledge. Exceptional leadership qualities of the recipient start locally but expand broadly. Organizations including Wisconsin VMA, AABP, AVMA, ADSA, the Hoof Trimmers Association, NMC and schools and colleges of veterinary medicine have benefitted."

2021 AABP Merck Animal Health Mentor of the Year Award

DR. W. MARK HILTON

The Merck Animal Health Mentor of the Year Award is presented annually to an AABP member who has been engaged in the field of veterinary medicine for at least 25 years and has served as both advisor and role model to pre-veterinary and/or veterinary students. This award was instituted in 2007 and is conferred annually to a member that embodies this spirit whether in practice, the clinic, or the classroom. The recipient is presented with a commemorative plaque and is provided complimentary meeting registration and lodging at the next annual conference.

Dr. Elizabeth R. Homerosky presented the 2021 AABP Merck Animal Health Mentor of the Year Award. "As veterinarians, we all have a tremendous impact on our practices, our communities and the many clients we serve. But at the end of the day, our fuel tank only takes us so far and our reach can only extend to so many animals. We've all heard the saying, 'Give a man a fish and he eats for a day, teach a man fish and he eats for a lifetime.' This proverb epitomizes the life's work of this year's recipient of the Merck Animal Health Mentor of the Year Award. Dedicating your life and your career to the development of the next generation of 'cow vets' through mentorship is the ultimate gift one can give to the future of our profession.

Throughout his 15 years in private practice, 18 years in academia and five years in industry, this year's recipient has taught many students and young veterinarians 'how to fish.' I speak from experience when I say he gives you the confidence boost when you need it, but challenges you to do better when he knows you can. He encourages you to constantly think outside the box, embrace change and build meaningful relationships. In fact, one would only need to scroll through his Facebook page a short distance to realize just how many hundreds of human lives and ultimately how many tens of thousands of animal lives have been positively impacted by this single individual. He has built a tremendous network of bovine practitioners, serving as the vital link that connects so many of us. I am forever thankful to him for helping me in both my personal life and my professional career, for teaching me what it means to be a consultant, how to truly add value to my clients' operations, and for inspiring me to give back to this profession in every way that I can.



He has been an active and dedicated member of AABP since graduation from Purdue University in 1983 and was a very deserving recipient of the AABP Excellence in Preventive Medicine Beef Award in 2012. Besides being a mentor, he is a veterinarian's veterinarian with a producer's perspective, an educator and advocate in coveralls, a diplomat and volunteer, a family man and husband to the amazing, Denise. It is my absolute honor to present this year's Merck Animal Health, Mentor of the Year Award to my personal mentor and friend, Dr. W. Mark Hilton."

James A. Jarrett Award for Young Leaders

DR. ELIZABETH HOMEROSKY

The James A. Jarrett Award for Young Leaders, named after the second Executive Vice President of AABP, recognizes members of the American Association of Bovine Practitioners who have made significant contributions to ensuring the current success and the future viability of the organization. The award will consist of a commemorative plaque and ring or pin. This award was established in 2005 and will be presented only when a deserving individual has been nominated and selected. The James A. Jarrett Award for Young Leaders is limited to deserving AABP members who have graduated within the previous 10 years from veterinary school. Recipients will have given extraordinary service to the AABP in a manner that significantly enhances the mission of the organization.

Dr. Mark Hilton presented the 2021 James A. Jarrett Award for Young Leaders. "I first met our award winner in 2014 at the WVC when she was a resident in beef production medicine at the University of Calgary College of Veterinary Medicine. Interns, residents, and graduate students from across the world are nominated by their professors for the Dr. Bruce Wren Food Animal Incentive Award at WVC where we would normally receive 30-40 nominations with the top five being honored. Our award winner was a unanimous choice.

This young doctor is bilingual – she speaks 'Buckeye' and 'Canadian', graduating from THE Ohio State University before her MS and residency at the University of Calgary. Her career highlights so far are: private practice in Western Iowa, Diplomate ABVP – beef cattle practice, adjunct clinical instructor at the University of Calgary, author or co-author on 11 research publications, speaker at AABP, WVC (where she won the continuing educator of the year award in food animal), AVC and WBC in Dublin, Ireland where she gave three talks and they had to turn away attendees in her very large room, she teaches advanced beef production medicine rotation with other members of her veterinary practice team, was the AABP 2018 Emerging leader and program chair at a Recent Graduate conference, is a representative to AVMA, was a AABP Foundation Competitive Research Grant recipient and involved with the Canadian Cattlemen's Association young leaders' program.

The James A. Jarrett Award for Young Leaders recipient for 2021 is Dr. Elizabeth Homerosky of Veterinary Agri-Health Services in Crossfield, Alberta Canada. After meeting Dr. Homerosky at WVC, I asked her to apply for the ABPM block I taught at Purdue Veterinary Medicine. I thought with her interest and experience in Beef cow-calf production medicine, she would be a perfect fit for the rotation starting as a student and evolving into assisting in teaching the course. My plan worked perfectly and allowed me



to see the tremendous ability in this young doctor. The 4th year DVM students on the rotation praised her for her knowledge and leadership and I knew we had a budding superstar.”

AABP Amstutz-Williams Award

DR. DEE GRIFFIN

The award was established in 1986 by the American Association of Bovine Practitioners in honor of Dr. Harold E. Amstutz who served the AABP as secretary-treasurer and executive vice president until 1993, and Dr. Eric I. Williams who was the editor of the *Bovine Practitioner* and proceedings from 1969 until 1998. The award was made to recognize the long and distinguished services of the two honorees. It is the highest honor that can be bestowed by the AABP and this will only be presented when a highly qualified individual is nominated and selected for outstanding service to the veterinary profession. The recipient receives a hand carved wooden bull. The last recipient was Dr. Gatz Riddell, in 2016.

The award was presented by Dr. Dave Sjeklocha. “With awards of this level of distinction, it is very difficult to keep the name of the recipient a surprise. Our recipient’s accolades, awards and honors are well-known and his career impact is felt in each of our days as well as each of our clients’ days. I dare say that every person in this room has been impacted by his efforts. He has mentored hundreds, if not thousands, of students. I am one of the many, and to this day I seek his advice, thoughts and we remain great friends. In addition, he has worked tirelessly to improve the safety and quality of beef. He is an incredible giver, especially of his most valuable asset – his time. He has been described as having the energy of the Energizer Bunny – but I think that description is a huge compliment to the Energizer Bunny. For him, good enough is never good enough.

A tremendous wealth of knowledge, he was always willing to share what he knew and what he experienced. He could teach you how to tie a knot, sharpen a knife and move right in to how to build an incubator without taking a breath. He is always teaching and refused to let a minute go to waste. His use of the Suburban windshield as a dry-erase board is legendary. His philosophy in life closely mimics that of Ladd Hitch of Hitch Enterprises: ‘If it ain’t right, make it right.’

He has been a devoted husband to his wife, Joan, for nearly 50 years, and they have raised three children who also would not settle for ‘good enough.’ He now has a PhD and two medical doctors in his family.

He is a 1975 graduate of Oklahoma State University, where he was taught and mentored by Dr. Eric Williams, and he received his Master’s degree in 1978 from Purdue University with Dr. Harold Amstutz as his major professor. One of his life-long heroes and mentors is Dr. Don Williams, who received the Amstutz-Williams Award in 2001. Given this heritage, it seems only fitting for him to receive this award.

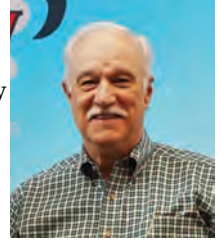
It is my great pleasure and honor to announce the recipient of the AABP Amstutz-Williams Award, my mentor and friend, Dr. Dee Griffin.”



Lifetime Honorary AABP Member

MR. DICK LEWIS

AABP consists of veterinarians and veterinary students, but the AABP Board of Directors also recognizes non-veterinarians who have made significant contributions to our organization, its members, or bovine veterinary medicine. The board can confer Honorary Life Membership to recognize these individuals.



Dr. Roger Saltman presented the 2021 Lifetime Honorary AABP Member. “I have the rare honor of presenting a Lifetime Honorary AABP Membership. This will be only the 6th time that the AABP has honored a non-veterinarian with lifetime membership, and it couldn’t possibly go to someone any more worthy for the work that he has done for bovine practitioners in the U.S. and Canada.

In 2010, we began to recognize that the practice model for mixed animal and cattle practice that had been in place for at least half a century seemed to no longer be providing the kind of stability, both professionally and financially, that we had come to expect. As the AABP president at the August 2010 Board meeting, I asked to establish an ad hoc committee on Rural Veterinary Practice to ‘deeply delve into all of the issues’ that ‘surround the financial and intellectual practice sustainability for both practice owners and new graduates.’ The proposal was approved and the ad hoc committee met in February 2011 to develop a strategic and tactical plan.

Flying home, I sat next to a gentleman and we struck up a conversation about what I had been doing in Kansas City. He was an executive for a yearbook company who was approaching retirement after a very successful career in business. He shared that he had spent summers in his youth at his grandparents’ farm in Pennsylvania, and, in his undergraduate years at the University of Pennsylvania, had contemplated being pre-vet, but ultimately decided to major in business and graduated from Wharton, one of the country’s elite business schools. As we talked, he became increasingly interested in the challenges that the ad hoc committee and our profession faced. He said he would love to help the committee if we thought that his background might be of use. We traded contact information and I promised to stay in touch as the committee’s plans developed.

In 2011, the ad hoc committee became the Veterinary Practice Sustainability (VPS) Committee. The person we are honoring came to all of the early VPS meetings and his approach to establishing clear value propositions for each cattle segment practice type has been foundational for the committee’s success. Over the last nine years of service, our award winner took part in developing and delivering many AABP-sponsored seminars and webinars to practitioners around the country. Here’s just a partial list of his activities: creation of the first VPS webinar ‘Constructing Your Value Proposition’, followed by the next three webinars ‘Partial Budgeting,’ ‘Marketing Your Value Proposition,’ and ‘Measuring the Impact of Your Value Proposition,’ provided significant assistance as AABP applied for, and won, three grants from the USDA to fund the ‘Manage Your Rural Practice for Success,’ ‘Next Generation,’ and ‘Your Practice Now’ workshops, he continues to help teach the VPS preconference seminars, and the list goes on.

Our recipient, Dick Lewis, has already invested over 110 days traveling and presenting workshops on behalf of the AABP, and all of these efforts over the last nine years have been provided to the AABP at absolutely no charge!”

54th Annual AABP Conference

Salt Lake City, Utah



Salt Lake City, Utah (courtesy of Visit Salt Lake)



2021 Quiz Bowl Winners

Front Row (L-R): University of Pennsylvania veterinary students Mary Wright, Veronica Daugherty and Sarah Rassler.

Back Row (L-R): AABP "Dream Team", President Dr. Carie Telgen, District 8 Director Dr. Arn Anderson, District 11 Director Dr. Elizabeth Kohtz, District 13 Director Dr. Ryan Rademacher and Quiz Bowl emcee Dr. Allen Hodapp.



Participants of the 2021 AABP 5K Stampede Fun Run, sponsored by Boehringer Ingelheim



Attendees at the Food Animal Educators Symposium



Keynote speaker Dr. Carrie Journey, President of Not One More Vet



Salt Lake City welcomed AABP with this chalk art.



Dozens of items were donated for the silent and live Amstutz Scholarship Auction.



Students and others enjoyed the student reception at dueling piano bar Keys on Main sponsored by Endovac.



There was a lot of fun signage in front of the Salt Palace Convention Center!



Students from 24 veterinary schools were registered for the conference.

We Would Like To Thank the Sponsors of the 2021 54th AABP Annual Conference

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GATHERING — THE HERD —

55th Annual Conference

September 22-24 2022

Long Beach, California

Long Beach Convention Center

AABP-AASRP Joint Sessions

Social Events

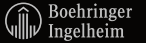
Research Summaries

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IMPORTANT SAFETY INFORMATION: Do not treat cattle within 35 days of slaughter. Do not use in female dairy cattle 20 months of age or older, or in calves to be processed for veal. Subcutaneous injection may cause a transient local tissue reaction in some cattle that may result in trim loss of edible tissues at slaughter. **NOT FOR USE IN HUMANS.**

*Clinical relevance has not been determined. **A small percentage of cattle may have already suffered lung damage, and may be too far gone or will require a little longer to turn around. ¹Giguère S, Huang R, Malinski TJ, et al. Disposition of gamithromycin in plasma, pulmonary epithelial lining fluid, bronchoalveolar cells and lung tissue in cattle. *Am J Vet Res* 2011;72(3):326-330. ²Sifferman RL, Wolff WA, Holste JE, et al. Field efficacy evaluation of gamithromycin for treatment of bovine respiratory disease in cattle at feedlots. *Intern J Appl Res Vet Med* 2011;9(2):166-175. ³ZACTRAN product label. ZACTRAN[®] is a registered trademark of the Boehringer Ingelheim Group. ©2021 Boehringer Ingelheim Animal Health USA Inc., Duluth, GA. All Rights Reserved. US-BOV-0178-2021-BEEFA



ZACTRAN[®]

(gamithromycin)

150 mg/mL ANTIMICROBIAL

NADA 141-328, Approved by FDA

For subcutaneous injection 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.

Caution: Federal (USA) law restricts this drug to use by or on the order of a licensed veterinarian.

READ ENTIRE BROCHURE CAREFULLY BEFORE USING THIS PRODUCT.

INDICATIONS

ZACTRAN is indicated for the treatment of bovine respiratory disease (BRD) associated with *Mannheimia haemolytica*, *Pasteurella multocida*, *Histophilus somni* and *Mycoplasma bovis* in beef and non-lactating dairy cattle. ZACTRAN is also indicated for the control of respiratory disease in beef and non-lactating dairy cattle at high risk of developing BRD associated with *Mannheimia haemolytica* and *Pasteurella multocida*.

CONTRAINDICATIONS

As with all drugs, the use of ZACTRAN is contraindicated in animals previously found to be hypersensitive to this drug.

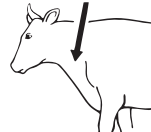
WARNING: FOR USE IN CATTLE ONLY. NOT FOR USE IN HUMANS. KEEP THIS AND ALL DRUGS OUT OF REACH OF CHILDREN. NOT FOR USE IN CHICKENS OR TURKEYS.

DOSAGE AND ADMINISTRATION

Administer ZACTRAN one time as a subcutaneous injection in the neck at 6 mg/kg (2 mL/110 lb) body weight (BW). If the total dose exceeds 10 mL, divide the dose so that no more than 10 mL is administered at each injection site.

Body Weight (lb)	Dose Volume (mL)
110	2
220	4
330	6
440	8
550	10
660	12
770	14
880	16
990	18
1100	20

Animals should be appropriately restrained to achieve the proper route of administration. Use sterile equipment. Inject under the skin in front of the shoulder (see illustration).



The Safety Data Sheet (SDS) contains more detailed occupational safety information.

To report suspected adverse drug events, for technical assistance, or to obtain a copy of the SDS, contact Boehringer Ingelheim Animal Health USA Inc. at 1-888-637-4251. For additional information about adverse drug experience reporting for animal drugs, contact FDA at 1-888-FDA-VEETS, or online at www.fda.gov/reportanimalae.

RESIDUE WARNINGS: Do not treat cattle within 35 days of slaughter. Because a discard time in milk has not been established, do not use in female dairy cattle 20 months of age or older. A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.

PRECAUTIONS

The effects of ZACTRAN on bovine reproductive performance, pregnancy, and lactation have not been determined. Subcutaneous injection of ZACTRAN may cause a transient local tissue reaction in some cattle that may result in trim loss of edible tissues at slaughter.

ADVERSE REACTIONS

Transient animal discomfort and mild to moderate injection site swelling may be seen in cattle treated with ZACTRAN.

EFFECTIVENESS

For information on effectiveness, the product label in full can be found at https://www.zactran.com/sites/default/files/pdfs/Zactan_Label.pdf.

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Duluth, GA 30096

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