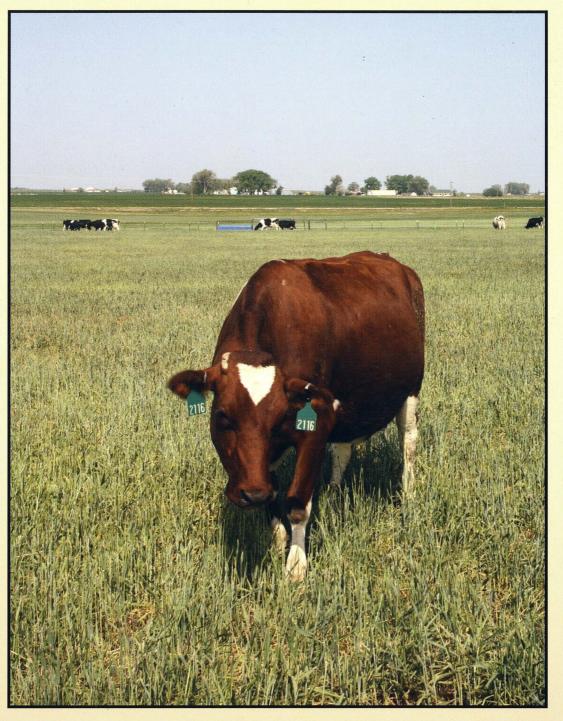
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Omaha, Nebraska September 10-12, 2009

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September 10-12, 2009

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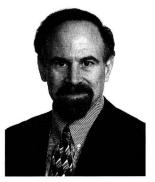
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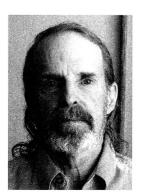
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Table of Contents

GENERAL SESSIONS

Livestock Disease Surveillance: Meeting Future Needs
David C. Van Metre, M. D. Salman1
 Training Bovine Health Professionals for the Future
Franklyn Garry6
 Prescriptions and Drug Distribution: Pharmacy and State
Regulations
Shirley Arck9
· Veterinary Prescriptions and Drug Distribution: Who's in
Charge?
Elaine Lust11
 Health Risks to Veterinarians and Associated Personnel:
Handling Pharmaceuticals and Biologicals
Kelley J. Donham, David Rendell 14
 Your Livelihood: Your Neck, Shoulder, and Arm
Ronald Ailsby 18

FEEDLOT SESSION

•	Abrupt Weaning Significantly Increases Mortality Following a	
	Secondary Bacterial Respiratory Infection	
	Philip J. Griebel, Paul D. Hodgson	23

DAIRY SESSIONS

 BioPRYN[®], a Measure of Pregnancy-specific Protein B for
Detection of Pregnancy in Ruminant Animals
RG Sasser, J Branen, J Howard, C Passavant, D Pals
Economic Concepts Regarding Early Pregnancy Testing
David Galligan, James Ferguson, Robert Munson,
Darren Remsburg, Andy Skidmore
 Application of "Pregnancy Specific Protein B" Testing
Technology in a Commercial Dairy
Richard C. Prather 54
 A Less-palpation Dairy Practice? Rediscovering
Theriogenology
Robert J. Vlietstra 57
A Practitioner Approach to Consulting and Monitoring a Dairy
Heifer Replacement Operation
Gregory M. Goodell62
 Pre-harvest Feeding, Feeding Duration, and Inclusion of a
β-agonist on Market Dairy Cow Feedlot Performance and
Carcass Characteristics
A.E. Ewing, J.K. Ahola, M.E. Doumit, C.W. Hunt 66
 Mycoplasmas and the Dairy Industry
Ricardo F. Rosenbusch73
 Mycoplasma as an Environmental Isolate on Dairy Farms
David J. Wilson, Anne Justice-Allen, Greg Goodell77
 Effects of Temperature and Humidity on the Survival of
Mycoplasma Organisms in Recycled Bedding Sand
Anne Justice-Allen, Jessie Trujillo, Robert Corbett,
Robert Harding, Greg Goodell, David Wilson
 Management Approaches to Reducing or Eliminating
Mycoplasma Mastitis in a Dairy Herd–What Has Been
Working and Not Working
David J. Wilson, Anne Justice-Allen, Jennifer Maddox
 Perspective on Planned BVD Control Strategy
Dale M. Grotelueschen
BVD Control for the Dairy Practitioner: Strategies and
Implementation
Scott T Smith

AABP & AASRP JOINT SESSIONS
 Field Anesthetic Techniques for Camelids
David E. Anderson103
 Angular Limb Deformity in Llamas and Alpacas
David E. Anderson
• Fracture of the Long Bones
Kenneth D. Newman, David E Anderson
 Tips and Tricks for Common Medical and Surgical
Procedures in Small Ruminants
David C. Van Metre
• Surgery of the Gastrointestinal Tract in Camelids-Part 1 & 2
Kenneth D. Newman, David E. Anderson
 Laparoscopy in Llamas and Alpacas
David E. Anderson
 Periapical Tooth Root Infections in Llamas and Alpacas
David E. Anderson
 Surgical Management of Reproductive Emergencies
David E. Anderson
Enterotoxemia of Small Ruminants
David C. Van Metre
VETTECU

VET TECH

Assisting with Calvings: the Role of the Veterinary	
Technician	
David R. Smith, Douglas Hostetler, Sherry Westphal14	48
A New Health Care Delivery System and the Economics of	
Utilizing Veterinary Technicians	
DT Galligan, JD Ferguson, R Munson, D Remsburg,	
A Kelly1	56
Critical Calf Care	
Sheila M. McGuirk, Rachel Kipp10	63
	Technician David R. Smith, Douglas Hostetler, Sherry Westphal

SESSIONS FOR STUDENTS

•	Client Perception = Your Reality
	Communication and Professionalism
	Kathleen A Bonvicini168
R	ESEARCH SUMMARIES 1
•	A Comparison of Feeding an Oral Electrolyte in the Milk to

	Diarrhea
	G.M. Goodell, J. Campbell, L. Carstensen
•	Effect of Oral Flunixin Meglumine on Heart Rate, Physical
	Activity, and Salivary Cortisol Concentration following
	Cautery Disbudding of Dairy Calves
	D. Morin, L. Brown, R. Wallace, V. Jarrell, P. Constable 171
•	Effect of Nutritional Plane on Health and Performance in
	Dairy Calves after Experimental Infection with
	Cryptosporidium parvum
	T.L. Ollivett, D.V. Nydam, T.C. Linden, D.D. Bowman,
	M. Van Amburgh172
•	Lameness in Dairy Cattle: A Debilitating Disease or a
	Disease of Debilitated Cattle? A Cross-sectional Study of
	Lameness Prevalence and Thickness of the Digital Cushion
	R.C. Bicalho, L.S. Caixeta, V.S. Machado
•	A Randomized and Blinded Field Trial to Assess the Efficacy

A Randomized and Blinded Field Trial to Assess the Efficacy	
of an Autogenous Vaccine to Prevent Naturally Occurring	
Infectious Bovine Keratoconjunctivis (IBK) in Beef Calves	
L. Funk, M. Maroney, T. Engelken, V.L. Cooper,	
I Kinvon D Dlummer A M O'Connor	174

•	Evaluation of Retreatment and Case Fatality Rates for Calves
	Treated with Antimicrobials and Ancillary Flunixin Meglumine
	for BRD Complex
	E.D. Linsenmeyer, D.U. Thomson, J.T. Fox,
	N.N. Lindberg
•	Comparison of Three Tetracycline Antibiotic Treatment Regimens for Carrier Clearance of Persistent Anaplasma
	marginale Infection Derived under Field Conditions
	J.B. Reinbold, J.F. Coetzee, R.R. Ganta
•	Comparison of the Timing of the Second Dose of Prostaglandin
	F2 Alpha in a Five-Day Progesterone-based Timed AI
	Synchronization Protocol in Angus Cross Beef Cows
	W.D. Whittier, R. Kasimanickam, J. Currin, H. Schramm,
	M. Vlcek
•	Weight Gain in the First 28 Days after Weaning on Five Commercial Cow-Calf Farms
	J.F. Currin
•	Evaluating Health, Performance and Behavior in Beef Stocker
	Calves Administered Two Preventive Health Protocols
	G.A. Hanzlicek, B.J. White, D.G. Renter, D. Blasi 179
•	Bilingual, Digital, Audio-visual Training Modules Improve
	Technical Knowledge of Feedlot Workers
	C.D. Reinhardt, D.U. Thomson, D.D. Retzlaff, J.A. Valles 180
•	Preliminary Investigation of the Association between Feeding Starch-based Ethanol Co-Products and <i>Salmonella</i> Species
	Shedding in Commercial Feedlots
	J.B. Osterstock, J.E. Kahl, S.D. Lawhon
	ESEARCH SUMMARIES 2
•	Determining the Prevalence of Bovine Viral Diarrhea Virus
	Persistently Infected Calves Originating from a Number of Modern Western Well-vaccinated Dairy Herds
	T. Shelton, B. Hoffman
•	The Association of Level of Milk Production with Reproductive
	Performance in Dairy Cattle
	M.S. Campbell, K. Hand, D.F. Kelton, F. Miglior,
	S.J. LeBlanc
•	Evaluation of 14 Western Dairy Herds Using FirstStep [™] : A Novel Tool to Troubleshoot and Prevent Lameness in Dairy
	Herds
	J.M. DeFrain, M.T. Socha, D.J. Tomlinson, N.B. Cook 184
•	Dairy Beef Quality Assurance: Do Reproductive Hormone
	Injections in Dairy Cows Cause Significant Edible Tissue
	Damage?
	S. Wagner, V. Fajt, L. Pedersen
•	Johne's Disease Control in Ontario and Western Canada U. Sorge, D. Kelton, K. Lissemore, A. Godkin, S. Hendrick,
	S. Wells
•	Preliminary Results on the Effect of Feeding Heat-treated
	Colostrum on Health and Growth in Pre-weaned Dairy Calves
	M. Donahue, S. Godden, R. Bey, S. Wells, J. Fetrow,
	J. Stabel
•	Effect of Flunixin Meglumine Treatment Following Parturition on Cow Health and Milk Production
	T. Duffield, H. P. Dingwell, A. Skidmore, D. Weary,
	L. Neuder, W. Rapheal, S. Millman, N. Newby, K. Leslie 188
•	Herd Alarm Levels for Health, Reproductive, and Production
	Effects Based on Non-esterified Fatty Acid and Beta-
	Hydroxybutyrate Concentrations in Dairy Herds
	P.A. Ospina, D.V. Nydam, T.S. Stokol, T.R. Overton
•	Validation of a Rapid Cow-side Test for the Measurement of
	Blood Beta-Hydroxybutyrate in Fresh Cows K Konkol S Godden P Pappicki M Overton E Pollin 100
	K. Konkol, S. Godden, P. Rapnicki, M. Overton, E. Rollin 190

	Difference Diet on the Metabolism of High-Producing Dairy
	Cows In Country DD Constable
•	W. Grunberg, P.D. Constable
	Displacement
•	H. Guzelbektes, I. Sen, M. Ok, P.D. Constable, A. Coskun 192 Preliminary Validation of a 'Calf-Side' Test for Measurement
	of Serum IgG in Dairy Calves
	S. Stewart, S. Godden, M. Schrupp 193
R	ESEARCH SUMMARIES 3
•	Rumenotomy and Rumenostomy in Cattle: A Retrospective
	Study of Twenty-five Cases (1999-2005)
	A. Niehaus, D.E. Anderson
•	Association between Serum Total Protein and Immunoglobulin G Measures in Calves Fed a Whole Colostrum Derived
	Colostrum Replacer
	J. Belz, S. Godden, D.M. Haines, K. Leslie, B. Nelson 195
•	Use of Three-Dimensional Accelerometry for Non-Contact,
	Continuous Characterization of Behavior Using an Induced
	Arthritis Model in Calves
	B. Robert, B. White, D.E. Anderson, K. Schulz
•	Quantitative Electroencephalographic Findings Associated with Nociception Following Surgical Castration in Conscious
	Calves
	L. Bergamasco, J.F. Coetzee, R.M. Mosher,
	J.L. Kotschwar 197
•	Apparent Differences in Xylazine, Ketamine, and
	Butorphanol Pharmacokinetics Linked with Pain Associated
	with Dehorning and Castration J.F. Coetzee, R. Gehring, S. Barron, D.E. Anderson,
	J. Havel
•	Veterinary Opinion and Evidence-Based Medicine Regarding
	the Best Management Practice for a Bovine Uterine Prolapse
	W. Wapenaar, H. Griffiths, M. Green, J. Huxley 199
•	Analgesic Efficacy of Sodium Salicylate in an Amphotericin
	B Induced Bovine Synovitis-Arthritis Model
	J.L. Kotschwar, J.F. Coetzee, D.E. Anderson, R. Gehring, B. KuKanich, M.D. Apley
•	Evaluation of the Conference Proceedings and Peer-reviewed
	Publications for Vaccine-related Studies Presented at the
	Annual Meeting of the American Association of Bovine
	Practitioners from 1988 to 2003
	S.J. Brace, D.D. Taylor, A.M. O'Connor
•	Variation in Viremic Concentration among Cattle Persistently Infected with Bovine Viral Diarrhea Virus
	J.S. Nickell, B.J. White, R.L. Larson, D.R. Renter
•	Incidence of Herds Infected with Bovine Viral Diarrhea Virus
	in Four Western Counties Enrolled in the Michigan Upper
	Peninsula BVDV Eradication Program
	E.M. Corbett, D.L. Grooms, S.R. Bolin, B. Bartlett
•	Transmission of Bovine Viral Diarrhea Virus from Acutely Infected White-tailed Deer to Cattle via Indirect Contact
	J.F. Ridpath, J.D. Neill, C.C.L. Chase
•	Establishing Guidelines for Reporting Clinical Trials: An
	Extension of the CONSORT Statement for Trials Involving
	Livestock with Production, Health, and Food Safety Outcomes
	A.M. O'Connor, J.M. Sargeant, I. Gardner, J. Dickson,
	M. Torrence

• Periparturient Effects of Feeding a Low Dietary Cation-Anion

RESEARCH SUMMARIES 4

RESEARCH SUMMARIES 4
 Single-drug and Multi-drug Resistance Exhibited by
Gram-positive Mastitis Pathogens
M.D. Apparao, P. L. Ruegg, A. Lago, S. Godden, R. Bey,
K.E. Leslie
 Impact of a Coagulase-negative Staphylococci or
Staphylococcus aureus Intramammary Infection during the
First Month of Lactation on Somatic Cell Count, Milk Yield,
and Culling in Primiparous Cows
M.È. Paradis, É. Bouchard, D. Scholl, F. Miglior, J.P. Roy 209
• Impact of Intramammary Infection of Serratia Species on
Milk Production, Somatic Cell Count, and Survival in Dairy
Cattle
M.G. Chuff, R.N. Zadoks, F.L. Welcome,
C.G. Santisteban, M.J. Zurakowski, Y.H. Schukken
• Risk of New Intramammary Infections during the Dry Period
in Holstein Dairy Cattle Enrolled in the CBMRN National
Cohort of Dairy Farms
C.D. Calloway, I.R. Dohoo, G.P. Keefe
Effect of the Treatment of Clinical Mastitis Based on On-farm
Culture on Secondary Therapy, Days to Clinical Cure, Days
out of Tank, Mastitis Recurrence, Somatic Cell Count, Milk
Yield, and Culling
A. Lago, S. Godden, R. Bey, P. Ruegg, K. Leslie
• An Investigation into the Coliform Growth of Digested
Manure Solids on a Large Commercial Michigan Dairy
J.S.P. Tulloch, N.J. O'Boyle, P.M. Sears
Efficacy of Two Fresh Cow Subclinical Mastitis Treatment
Programs on Antibiotic Use, Days out of Tank,
Bacteriological Cure, Clinical Mastitis, Somatic Cell Count,
Milk Yield, Reproduction, and Culling
A. Lago, S. Godden, R. Bey, P. Ruegg, K. Leslie
 Ovsynch versus Ultrasynch: A Clinical Trial of Breeding
Efficiency Utilizing Corpus Luteum Function
J.A.A. McArt, L. Caixeta, V. Machado, C.L. Guard,
R.C. Bicalho
 Milk Production and Reproductive Performance in
Postpartum Dairy Cows Diagnosed and Treated for Metritis
Using a Health Monitoring Program
M. B. Rabaglino, J. E. Santos, C. Fuentes, C. A. Risco 216
• Evaluation of Techniques for Diagnosis of Endometritis in
Dairy Cows
J. Dubuc, T.F. Duffield, K.E. Leslie, J.S. Walton,
S.J. LeBlanc
Effect of High Somatic Cell Counts on Reproductive
Performance of Chilean Dairy Cattle
P. J. Pinedo, P. Melendez, J. A. Villagomez-Cortes,
C. Risco
С. мэсо
POSTERS
Beet Pulp A Solution to Reduce Fat Cows' Body Condition
Scores (BCS)
E. Mahjoubi, H. Amanlou, D. Zahmatkesh,
M. Ghelich khan, M.H. Yazdi, G. R. Noori 219

 Effect of Energy and Protein Density in the Diet and Milking Frequency on Milk Production in Early Lactation Dairy
Cows
N. Aghaziarati, H. Amanlou, D. Zahmatkesh,
E. Zahmatkesh
Effects of Feeding Xylose-treated Soybean Meal and Parity
on Performance of Dairy Cows in Early Lactation
M.J Moghadam, H. Amanlou, F. Fard, A.R. Noushari,
M.H. Yazdi
 Automated Detection of Lameness in Dairy Cows Using
Measurements of Weight Distribution
N. Chapinal, S.A. Wagner, J. Rushen, A.M. de Passillé 222
• Passive Immunity to a Commercial E. coli-SRP® Vaccine in
Beef Cattle Colostrum from Cows Grazing Native Range
B.W. Wileman, D.U. Thomson, K.C. Olson, L.A. Pacheco 223
Assessing and Predicting Feedlot Mortality and Culling
Using Standard Feedlot Arrival Data
A.H. Babcock, D.G. Renter, B.J. White, H.M. Scott
Fatty Acid Profiles and Eicosanoid Biosynthesis in Transition
Dairy Cows
G.A. Contreras, N.J. O'Boyle, J.C. Gandy, L.M. Sordillo 225
• Evaluation of Thoracic Ultrasonography as a Diagnostic
and Prognostic Tool for Early Bovine Respiratory Disease
of Feedlot Calves in Western Canada
C.W. Booker, C. Pollock, S.M. Abutarbush, A. Vogstad,
G.K. Jim, S.J. Hannon
 Effects of Feeding OmniGen-AF[®] on Phagocytic Ability of
Neutrophils Isolated from Dairy Cattle, Rats and Mice
Neutrophils Isolated from Dairy Cattle, Rats and Mice A.D. Rowson, Y. Wang, N.E. Forsberg, S.B. Puntenney 227
Neutrophils Isolated from Dairy Cattle, Rats and Mice
Neutrophils Isolated from Dairy Cattle, Rats and Mice A.D. Rowson, Y. Wang, N.E. Forsberg, S.B. Puntenney 227
 Neutrophils Isolated from Dairy Cattle, Rats and Mice A.D. Rowson, Y. Wang, N.E. Forsberg, S.B. Puntenney 227 Examination of the Use of Intrauterine or Systemic
 Neutrophils Isolated from Dairy Cattle, Rats and Mice A.D. Rowson, Y. Wang, N.E. Forsberg, S.B. Puntenney 227 Examination of the Use of Intrauterine or Systemic Antimicrobial Therapy to Prevent Puerperal Metritis in Dairy Cows with Dystocia
 Neutrophils Isolated from Dairy Cattle, Rats and Mice A.D. Rowson, Y. Wang, N.E. Forsberg, S.B. Puntenney 227 Examination of the Use of Intrauterine or Systemic Antimicrobial Therapy to Prevent Puerperal Metritis in Dairy Cows with Dystocia J.M. Pinos-Rodriguez, N.J. O'Boyle, P.M. Sears
 Neutrophils Isolated from Dairy Cattle, Rats and Mice A.D. Rowson, Y. Wang, N.E. Forsberg, S.B. Puntenney 227 Examination of the Use of Intrauterine or Systemic Antimicrobial Therapy to Prevent Puerperal Metritis in Dairy Cows with Dystocia J.M. Pinos-Rodriguez, N.J. O'Boyle, P.M. Sears
 Neutrophils Isolated from Dairy Cattle, Rats and Mice A.D. Rowson, Y. Wang, N.E. Forsberg, S.B. Puntenney 227 Examination of the Use of Intrauterine or Systemic Antimicrobial Therapy to Prevent Puerperal Metritis in Dairy Cows with Dystocia J.M. Pinos-Rodriguez, N.J. O'Boyle, P.M. Sears
 Neutrophils Isolated from Dairy Cattle, Rats and Mice A.D. Rowson, Y. Wang, N.E. Forsberg, S.B. Puntenney 227 Examination of the Use of Intrauterine or Systemic Antimicrobial Therapy to Prevent Puerperal Metritis in Dairy Cows with Dystocia J.M. Pinos-Rodriguez, N.J. O'Boyle, P.M. Sears
 Neutrophils Isolated from Dairy Cattle, Rats and Mice A.D. Rowson, Y. Wang, N.E. Forsberg, S.B. Puntenney 227 Examination of the Use of Intrauterine or Systemic Antimicrobial Therapy to Prevent Puerperal Metritis in Dairy Cows with Dystocia J.M. Pinos-Rodriguez, N.J. O'Boyle, P.M. Sears
 Neutrophils Isolated from Dairy Cattle, Rats and Mice A.D. Rowson, Y. Wang, N.E. Forsberg, S.B. Puntenney
 Neutrophils Isolated from Dairy Cattle, Rats and Mice A.D. Rowson, Y. Wang, N.E. Forsberg, S.B. Puntenney 227 Examination of the Use of Intrauterine or Systemic Antimicrobial Therapy to Prevent Puerperal Metritis in Dairy Cows with Dystocia J.M. Pinos-Rodriguez, N.J. O'Boyle, P.M. Sears

Advertisers' Index

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Prudent Drug Usage Guidelines

The production of safe and wholesome animal products for human consumption is a primary goal of members of the AABP. In reaching that goal, the AABP is committed to the practice of preventive immune system management through the use of vaccines, parasiticides, stress reduction and proper nutritional management. The AABP recognizes that proper and timely management practices can reduce the incidence of disease and therefore reduce the need for antimicrobials; however, antimicrobials remain a necessary tool to manage infectious disease in beef and dairy herds. In order to reduce animal pain and suffering, to protect the economic livelihood of beef and dairy producers, to ensure the continued production of foods of animal origin, and to minimize the shedding of zoonotic bacteria into the environment and potentially the food chain, prudent use of antimicrobials is encouraged. Following are general guidelines for the prudent therapeutic use of antimicrobials in beef and dairy cattle.

- 1. The veterinarian's primary responsibility to the client is to help design management, immunization, housing and nutritional programs that will reduce the incidence of disease and the need for antimicrobials.
- 2. Antimicrobials should be used only within the confines of a valid veterinarian-client-patient relationship; this includes both dispensing and issuance of prescriptions.
- 3. Veterinarians should properly select and use antimicrobial drugs.
 - a. Veterinarians should participate in continuing education programs that include therapeutics and emerging and/or development of antimicrobial resistance.
 - b. The veterinarian should have strong clinical evidence of the identity of the pathogen causing the disease, based upon clinical signs, history, necropsy examination, laboratory data and past experience.
 - c. The antimicrobial selected should be appropriate for the target organism and should be administered at a dosage and route that are likely to achieve effective levels in the target organ.
 - d. Product choices and regimens should be based on available laboratory and package insert information, additional data in the literature, and consideration of the pharmacokinetics and pharmacodynamics of the drug.
 - e. Antimicrobials should be used with specific clinical outcome(s) in mind, such as fever reduction, return of mastitic milk to normal, or to reduce shedding, contagion and recurrence of disease.
 - f. Periodically monitor herd pathogen susceptibility and therapeutic response, especially for routine therapy such as dry cow intramammary antibiotics, to detect changes in microbial susceptibility and to evaluate antimicrobial selections.
 - g. Use products that have the narrowest spectrum of activity and known efficacy *in vivo* against the pathogen causing the disease problem.
 - h. Antimicrobials should be used at a dosage appropriate for the condition treated for as short a period of time as reasonable, i.e., therapy should be discontinued when it is apparent that the immune system can manage the disease, reduce pathogen shedding and minimize recurrence of clinical disease or development of the carrier state.
 - i. Antimicrobials of lesser importance in human medicine should be used in preference to newer generation drugs that may be in the same class as drugs currently used in humans if this can be achieved while protecting the health and safety of the animals.
 - j. Antimicrobials labeled for use for treating the condition diagnosed should be used whenever possible. The label, dose, route, frequency and duration should be followed whenever possible.
 - k. Antimicrobials should be used extra-label only within the provisions contained within AMDUCA regulations.
 - 1. Compounding of antimicrobial formulations should be avoided.
 - m. When appropriate, local therapy is preferred over systemic therapy.
 - n. Treatment of chronic cases or those with a poor chance of recovery should be avoided. Chronic cases should be removed or isolated from the remainder of the herd.
 - o. Combination antimicrobial therapy should be discouraged unless there is information to show an increase in efficacy or suppression of resistance development for the target organism.
 - p. Prophylactic or metaphylactic use of antimicrobials should be based on a group, source or production unit evaluation rather than being utilized as standard practice.
 - q. Drug integrity should be protected through proper handling, storage and observation of the expiration date.
- 4. Veterinarians should endeavor to ensure proper on-farm drug use.
 - a. Prescription or dispensed drug quantities should be appropriate to the production-unit size and expected need so that stockpiling of antimicrobials on the farm is avoided.
 - b. The veterinarian should train farm personnel who use antimicrobials on indications, dosages, withdrawal times, route of administration, injection site precautions, storage, handling, record keeping and accurate diagnosis of common diseases. The veterinarian should ensure that labels are accurate to instruct farm personnel on the correct use of antimicrobials.
 - c. Veterinarians are encouraged to provide written guidelines to clients whenever possible to describe conditions and instructions for antimicrobial use on the farm or unit.

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