

CVMA

CVMA Activities and Programs Supporting Antimicrobial Stewardship



CANADIAN VETERINARY
MEDICAL ASSOCIATION

L'ASSOCIATION CANADIENNE
DES MÉDECINS VÉTÉRAIRES

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ANTIMICROBIAL USE AND ANTIMICROBIAL RESISTANCE

Strategies for Animal Agriculture
September 18, 2014



UTILISATION DES ANTIMICROBIENS ET RÉSISTANCE ANTIMICROBIENNE

Stratégies pour l'agriculture animale
18 septembre 2014



CVMA Antimicrobial Stewardship

“How do CVMA activities and programs contribute to implementation of recommendations from the NFAHW Council AMU/AMR Advisory Statement”

- **What are implications/impacts for CVMA & veterinary profession?**

ANTIMICROBIAL USE AND ANTIMICROBIAL RESISTANCE

Strategies for Animal Agriculture
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UTILISATION DES ANTIMICROBIENS ET RÉSISTANCE ANTIMICROBIENNE

Stratégies pour l'agriculture animale
18 septembre 2014



- Tax season
- See-through Lululemon
- Spring letdown
- Photos: Iraq War

Antibiotics for livestock called risky to human health

Ban use of antibiotics as growth promoters in food animal production, Ontario Medical Association urges

The Canadian Press Posted: Mar 20, 2013 9:28 AM ET | Last Updated: Mar 20, 2013 9:27 AM ET 48



Antibiotic resistance now 'a public health problem of global proportions, researcher warns

By Julia Chapman, CBC News Posted: Mar 22, 2013 7:18 AM ET | Last Updated: Mar 22, 2013 7:16 AM ET 3

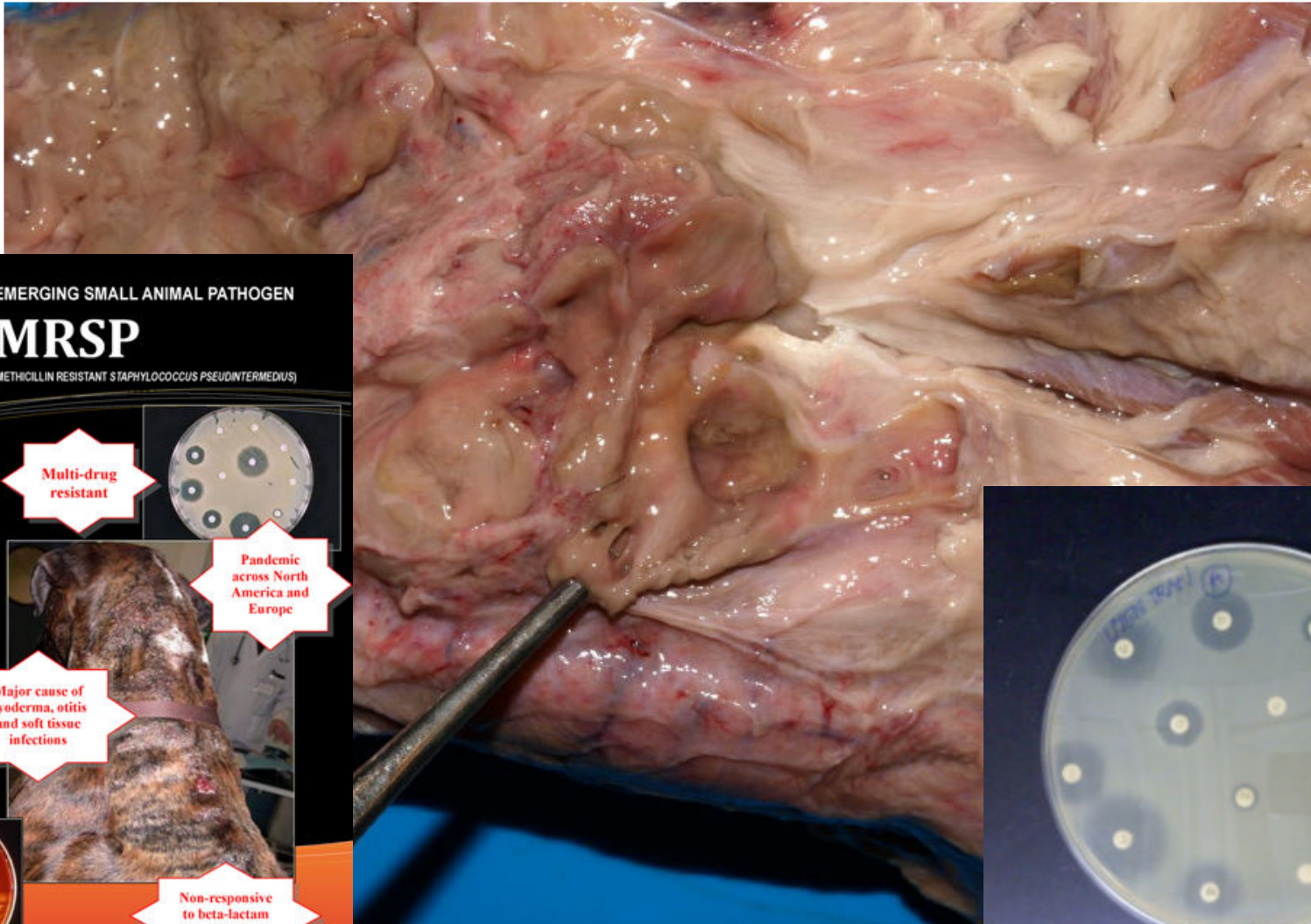


The MRSA bacteria strain growing inside this petri dish is a drug-resistant superbug that can cause deadly infections. (Fabrizio Bensch/Reuters)

Antibiotics use in agriculture should be limited to cases where veterinarians write prescriptions for the drugs, the Ontario

Drag this icon to your Windows taskbar for quicker access to CBC.

This is what the post-antibiotic era looks like in an animal



UCD DUBLIN

EMERGING SMALL ANIMAL PATHOGEN

MRSP
(METHICILLIN RESISTANT STAPHYLOCOCCUS PSEUDINTERMEDIUS)

STRICT ADHERENCE TO HYGIENE PROTOCOLS IN VETERINARY CLINICS AND HOSPITALS IS PARAMOUNT

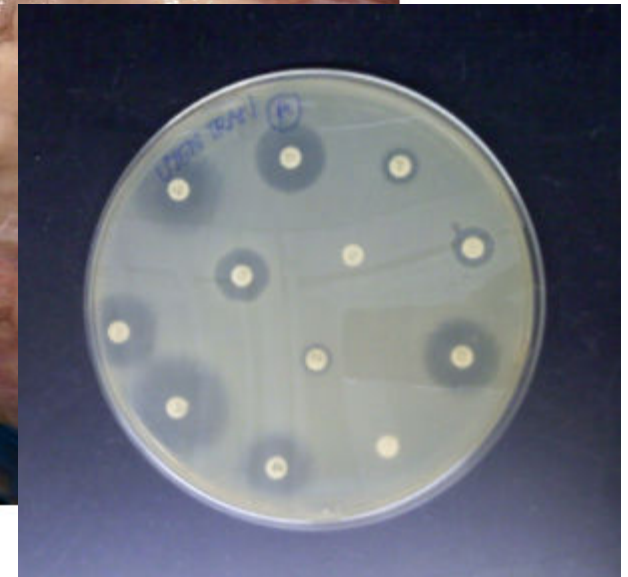
For more information on MRSP please refer to UCDVH website: www.ucd.ie/vthweb

Multi-drug resistant

Pandemic across North America and Europe

Major cause of pyoderma, otitis and soft tissue infections

Non-responsive to beta-lactam antibiotics



CVMA Antimicrobial Stewardship

Antimicrobial stewardship is a priority issue for the CVMA

What have we been doing?

- ✓ Antimicrobial position statements
- ✓ Antimicrobial prudent use guidelines
- ✓ Advocacy, awareness and education

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CVMA Antimicrobial Positions



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ANTIMICROBIAL USE IN ANIMALS – POSITION STATEMENT



June 30, 2009

Position

The CVMA recognizes the public health implications of antimicrobial use in veterinary medicine and takes the responsibility of protecting both animal and human health and welfare very seriously.

The CVMA supports and encourages all veterinarians to use antimicrobials prudently.

The veterinarian is in the best position to assess the benefit /risk ratio of antimicrobial use in animals. Veterinarians must explain to their clients the importance of prudent use of antimicrobials. Veterinarians must achieve a balance between maximizing animal health and welfare, minimizing bacterial resistance, and conserving antimicrobial efficacy.



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NOTRE APPLI

À propos
de l'ACMV

Valeur de
l'adhésion

Centre
des médias

Politiques et
défense des intérêts

Science et
connaissances

Prat
fin

UTILISATION DES ANTIMICROBIENS CHEZ LES ANIMAUX – ÉNONCÉ DE POSITION



Le 30 juin 2009

Position

« L'ACMV reconnaît les conséquences pour la santé publique de l'utilisation d'antimicrobiens en médecine vétérinaire et envisage très sérieusement la responsabilité de protection de la santé et du bien-être des animaux et des humains.

L'ACMV appuie et encourage tous les vétérinaires à utiliser les antimicrobiens avec prudence. Le vétérinaire se trouve dans la meilleure position pour évaluer le rapport bienfaits-risques de l'utilisation des antimicrobiens chez les animaux. Les vétérinaires doivent expliquer à leurs clients l'importance de l'administration prudente des antimicrobiens. Par ailleurs, les vétérinaires doivent parvenir à un équilibre entre la maximisation de la santé et du bien-être des animaux tout en minimisant la résistance bactérienne et en préservant l'efficacité des antimicrobiens. »

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CVMA Antimicrobial Positions

Antimicrobial Use in Animals

Key Elements:

- Veterinarians are uniquely positioned to assess benefits/risks of AMU in animals, and also the public health risks.
- Veterinarians have a responsibility to educate clients on the importance of AM stewardship and appropriate use.
- AMU should only be done within a valid VCPR
- ELDU – evidence-based, CgFARAD withdrawal intervals req'd (PUGs)



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CVMA Antimicrobial Positions

Active Pharmaceutical Ingredients (APIs)

- bulk raw chemicals used to manufacture drugs – not intended to be administered directly to animals

Key Elements:

- Administration of APIs directly to animals carries without appropriate oversight carries inherent animal health & food safety risks as well as risks to trade
- CVMA supports regulatory change that is intended to stop such direct use in animals

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CVMA Antimicrobial Positions

Importation of Veterinary Products



Key Elements:

- CVMA position developed to address Health Canada's 'own use' provision that allows importation of unapproved non-prescription veterinary drugs (original policy for 90 day supply of human drugs for personal use – continuity of care)
- CVMA does not support OUI of unapproved drugs, especially antimicrobials or their use inside of on-farm food safety programs

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Antimicrobial Prudent Use Guidelines

Objective of CVMA PUGs:

- to provide veterinarians with practical, evidence-based decision-making tools that promote responsible antimicrobial use.



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Canadian Veterinary Medical Association Antimicrobial Prudent Use Guidelines 2008

for beef cattle, dairy cattle, poultry, and swine



Lignes directrices de l'Association canadienne des médecins vétérinaires sur l'administration judicieuse des antimicrobiens 2008

pour les bovins laitiers, les bovins de boucherie,
la volaille et les porcs



Antimicrobial Prudent Use Guidelines

Livestock Antimicrobial Use Guidelines

- Published in 2008
- Guidance for veterinarians on treating common bacterial diseases in cattle, poultry and swine.
- Recommendations are evidence-based, structured using the VDD Categorization for importance of antimicrobials in human medicine.



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Beef Treatment Table

Disease / condition / clinical diagnosis	Microbial agents	Treatment options	Veterinary Drug Directorate category based on importance in human medicine (Appendix)
Acute bovine interdigital necrobacillosis ("pasture footrot")	<i>Fusobacterium necrophorum</i> ; <i>Bacteroides</i> spp. ; <i>Porphyromonas</i> spp.	<p>Florfenicol: 40 mg/kg SC as a single injection or 20 mg/kg IM repeated in 48 h. Meat withdrawal of 36 d following IM treatment and 55 d following SC treatment.</p> <p>Oxytetracycline dihydrate: 20 mg/kg by injection (route dependent on formulation of individual product used). Meat withdrawal of 21 to 48 d (dependent on product used and route of administration).</p> <p>Procaine penicillin G — Long-acting stable suspension: 20 mg/kg SC or IM as a single dose. If necessary the dose may be repeated in 72 h. Meat withdrawal of 14 d if administered SC. Meat withdrawal of 21 d if administered IM.</p> <p>Ceftiofur hydrochloride: 1.0 mg/kg IM or SC daily for 3-5 d; Meat withdrawal of 3 d.</p> <p>Ceftiofur sodium: 1.0 mg/kg, IM daily for 3 d; No meat withdrawal time.</p>	<p>III</p> <p>III</p> <p>II</p> <p>I</p> <p>I</p>



Antimicrobial Prudent Use Guidelines

Companion Animal Prudent Use Guidelines Antimicrobial *SmartVet*

- Unique, innovative “app” decision tool for smartphones & tablets
- Launched in March 2014
- Initial app development funded by CAHI



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iPod 10:53 AM

Back CVMA

Welcome

What would you like to do:

Start UTI Treatment Algorithm

Review Urine Collection, Handling and Urinalysis Interpretation

Review Antimicrobial treatment table

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Antimicrobial Prudent Use Guidelines

Companion Animal Prudent Use Guidelines Antimicrobial *SmartVet*

- Urinary tract infection first tool loaded onto platform
- Skin infections will be next tool

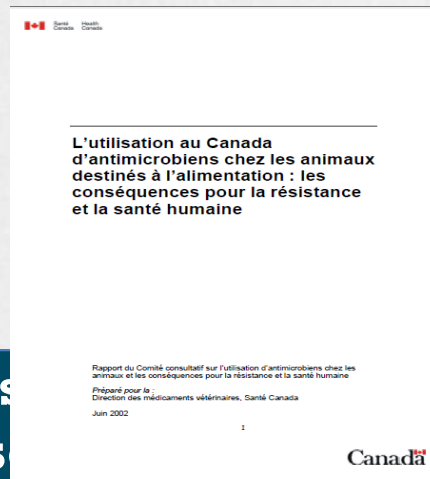
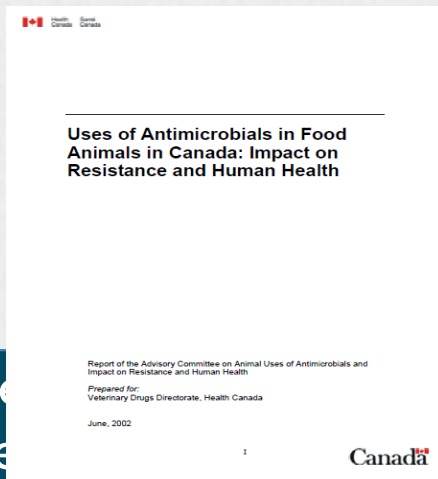


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CVMA Antimicrobial Advocacy

CVMA supports regulatory change that allows for appropriate oversight of antimicrobials.

CVMA has been urging Health Canada to make regulatory changes to address OUI and API loopholes since 2002 when they were identified by HC's Advisory Report (Dr. Scott McEwen 2002).



CVMA Antimicrobial Advocacy

CVMA is encouraged by HC/CAHI phase out of growth promotion AMU, and supports further regulatory changes HC has proposed to close long-standing gaps:
HC proposed framework March 2013:

- **OUI** – excludes antimicrobials from own use importation
- **APIs** – importation of APIs allowed for licensed establishments only (stops direct use of APIs in animals).



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Antimicrobial Stewardship Awareness

Summit of Veterinary Leaders CVMA Convention 2014



- ***“Antimicrobial Stewardship - A New World Order”***
Presentations from experts in veterinary and human medicine
- **Dr. John Prescott – Canada is in a ‘golden moment’ to improve antimicrobial stewardship**

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Antimicrobial Stewardship Awareness

Summit of Veterinary Leaders CVMA Convention 2014



- Reaffirmed the need for Canada to have an all-species, all-sector strategy (agric, human & vet med) to address growing concerns around AMU & AMR (e.g. UK Antimicrobial Strategy led by CVO & CMO)

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Department
of Health



Department
for Environment
Food & Rural Affairs

UK Five Year Antimicrobial Resistance Strategy 2013 to 2018



Northern Ireland
Executive

www.northernireland.gov.uk



Llywodraeth Cymru
Welsh Government



The Scottish
Government
Riaghaltas na h-Alba

Antimicrobial Stewardship Awareness

Summit of Veterinary Leaders CVMA Convention 2014



All-species, all-sector strategy to address antimicrobial stewardship:

- ✓ Coordinated national and provincial AMU/AMR framework aligned with OIE recommendations
- ✓ Close regulatory loopholes allowing implementation of a comprehensive national surveillance system that accurately tracks AMU

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Thank you!!

