Antimicrobial Resistance

Why does it matter to me?







One Health

The collaborative effort of multiple disciplines

- working locally, nationally and globally
- to attain optimal health for people, animals and the environment

[AVMA, ONE Health; a new professional Imperative, 2008]







One Health

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[AVMA, ONE Health; a new professional Imperative, 2008]





International Action

Sept 2009: ECDC/EMA – report

"The bacterial challenge time to react"



Suggests that each year 25 000 people die in the EU from an infection with (a selection of) multi-drug resistant bacteria;

Infections with selected multi-drug resistant bacteria in the EU would result in extra healthcare costs and productivity losses of at least 1.5 billion each year





International Action

Two motions for resolutions EU Parliament

9 May 2011 - Cie on agriculture and rural develop.

Calls for data collection, research, monitoring and surveillance, prudent and responsible use, etc.

20 Oct 2011- Cie on environment, public health and food safety:



Calls for a further intensification of the fight against antimicrobial resistance, to reduce the use of antimicrobials, to phase out prophylactic use in livestock farming and better animal husbandry practices, etc.







Communication from the Commission to the European Parliament and the Council

Action plan against the rising threats from Antimicrobial

COM (2011) 748



















AMR a public health priority!

COM (2011) 748 - 17 Nov 2011

- 5 year action plan
- Holistic approach
- 7 key areas
- 12 concrete actions



The 7 areas where action is needed

- Appropriate use of antimicrobials (humans and animals)
- Prevention microbial infections and their spread
- Development new effective antimicrobials or alternatives for treatment
- Improvement monitoring and surveillance (human and animal medicine)
- Cooperation with international partners to contain the risks of AMR
- Promotion research and innovation
- Improvement communication, education and training



The 12 actions

Human

Veterinary

- 1. Appropriate use
- 4. Prevention of infections
- 6. New antibiotics
- 9. Surveillance

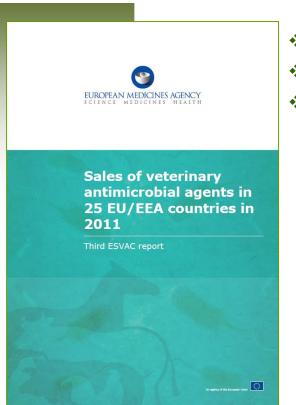
- 8. International cooperation
- 11. Research & Innovation
- 12. Communication, education

- 2 & 3. Appropriate use
- 5. Prevention of infections
- 7. Need for new antibiotics
- 10. Surveillance

DG SANCO



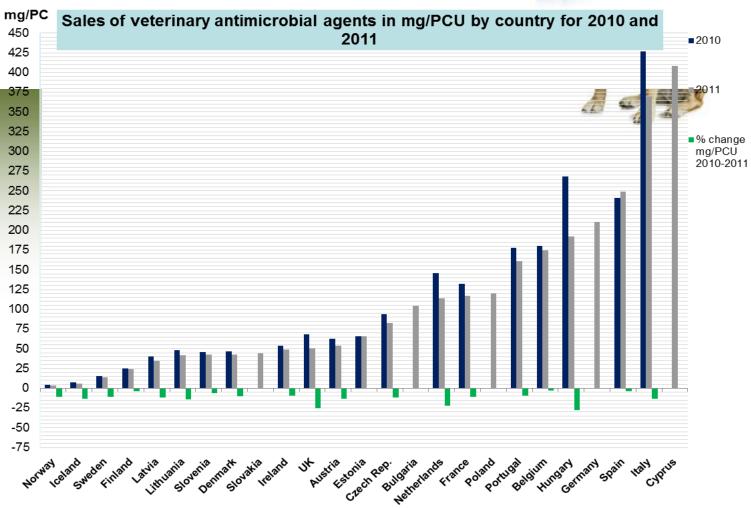
ESVAC report on sales of antimicrobials in EU and **EEA** countries



- First report: data from 8 countries
- Second report: 2010 data from 19 countries
- Third report: 2011 data from 25 countries
 - ✓ In **19 of the 20 countries** that provided data to the ESVAC project in both 2010 and 2011, there has been a **decrease in sales in 2011, from 0.4% to 28%.**

http://www.ema.europa.eu/ema/index.jsp?curl=pages/news and events/news/2013/ 10/news detail 001923.jsp&mid=WC0b01ac058004d5c1

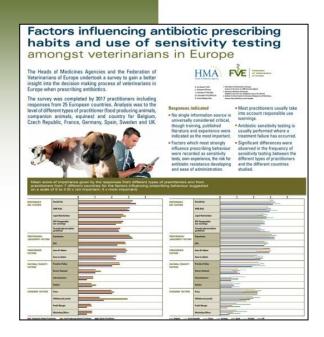






Veterinary Medicines

FVE- HMA survey on prescription habits of European Veterinarians





Factors influencing antibiotic prescribing habits and use of sensitivity testing amongst veterinarians in Europe

✓ Published in "Veterinary Record"

□ 2nd report

European survey on antibiotics most commonly used to treat animals

- ✓ Cover antibiotic & CIA use in cattle, pigs, horses, cats and dogs
- ✓ Sent for publication November 2013







FVE is founding member of **EPRUMA**

EPRUMA

- European Platform for the Responsible Use of Medicines in Animals
- □ Best-practice framework for the use of antimicrobials in food-producing animals in the EU
- □ Partners: farmers, vets, industry, etc
- http://www.epruma.eu/

Veterinary Medicines

How to use antibiotics responsibly



 Never prescribe antimicrobials without doing an examination and diagnosis

Every time you use artifinate balls, the talk that the organism that case disease will swelder residence to them increases, to make some they say effective now and in the talker, you need stiffing moterful feet uses. The school day prescribe the correct desage of artifinite table, following an examination and chimical disposite. The should also do sensitivity to simply wherever prosotion. Awards evaluate how will the troducter these workers for throughts.

 Work with your clients to minimize and stop the need for antimicrobials



A famor can reduce animal disease and so the hand to see antimiscrobial sileption by drawing up an effective health plan. You should work with farmers to do this. Plans should cettine how the farmer will knop animals health and granded effective bio security. Provention is essential for all animals, including companion animals and howards.

 Use diagnostic tests, including susceptibility tests, as much as possible

De a diagnostic test before prescribing antimicrobials, if possible on the farm. Even if you need to begin treatment immediately, it's still useful to do a test to confirm your diagnosts, or to be able to change your treatment as a result of laboratory tridings.

▶ Use antimicrobials correctly

Limit use of antimiorobals as much as possible: only use them for sick or stirled animals; minimor mother use of or example, don't regularly use antimiorobals before intersport; and extends prophylaristic use to case, where the risk of disease is clearly evident. Fernember to tall clients how to connectly administer antimiorobalists to their among the connectly administer antimiorobalists to their among.

It's vital that you abide by responsible use guidelines or recommendations. Responsible use is an integral part of your professional code of conduct, you may tace penalities if you fail to comply. Pay special attention to new and critically important antimicrobials

Antimicrobials such as fluorogeteolisms and third and fourth generation cophilingoress are closued as "Cathically Impediant Antimicrobials" (CALs) the school for generating the smoothly fluorising, as a very less resent and only exceptionally off label. Always administer CVIc, yourself and avoid administrating them to groups or fluxes of animals aways in very specific students.

Avoid off label use whenever possible

Using antimicrobials off label can load to risks and side effects for animals. That's why it should be avoided wherever possible, and always supervised by a veterinarian.

 Be prepared to report your prescription data to the national Competent Authorities

Authorities need to track proscription data to effectively evaluate antimicrobial use and resistance development. When asked, be prepared to report your prescription data.

 Report any adverse effects antimicrobials cause

Ameninches are essential for the heatherst and provention of influcious and amonto chasses in both animats and humans. Every sea increases the first animats and humans. Every sea increases the first of creditations developing. Every hope increases affected and responsible for warrang to keep ambinished belonginest. Year on pility your part by reaking our year laport adverse effects and resolvations. Including if the insolvanit tails.



Work with your clients



- Use antimicrobials and CIAs correctly
- Avoid off-label use
- Report your prescription data to the authorities

Report any adverse events, including lack of





Translated in all EU languages







Veterinarians care for animals and people

How to use antibiotics responsibly: Advice for the owners of horses and other equidae

Antibiotic resistance, or the ability of some bacteria to survive antibiotics, is a threat to both human and animal health. There is evidence to suggest that antibiotic resistance in bacteria found in horses can result in transfer of resistance to bacterial in humans, thus reducing the ability of doctors to treat bacteria infections in people. A faliure to use antibiotics responsibly is the main cause of resistance in man and animlas and we all have a duty to select and prescribe antibiotics appropriately so that these vital medicines remain effective.

▶ Antibiotics are not always the answer ▶ Together with your veterinarian Antibiotics are lifesaving medicines and it is essential that their efficacy is preserved now and in the future. They must be prescribed by a veterinarian after examination and diagnosis. Ask your vet for a complete examination and be confident in the veterinarian's expertise and decision on the apporpriate treatment if antimicrobials are not prescribed. Fever is not always synonymous with infection and antibiotic treatment is not always needed.

Keep your horse healthy and respect sanitary rules

Antibiotics cannot replace hygiene and good husbandry. Clean stables, good ventilation, care before and after exercise are fundamental in preserving your horse's health. Cleaning, lavages, bandages or local treetments are better than systemic antibiotics for healing wounds. Vaccines are effective in preventing some infectious diseases and reducing their severity. Discuss their possible use with your vet and ask for them to be used where and when appropriate. Prevention of disease is important, cost less than treatment and helps preserve the efficacy of medicines.

Do not self-medicate your horse

Antibiotics are lifesaving drugs and must be prescribed by your veterinarian. Antibiotics do not prevent all infectious disease and treatments are individual. Antibiotic prophylaxis, the practice of administering antibiotics to healthy animals to prevent disease, is an example of irresponsible use and must not be used. Drugs may not act in the same way in different species and dosages or administration routes may vary. Using antimicrobials off label may be dangerous and calling for the latest and newest antimicrobials may be not be necessary when older and more conventional products will work just fine as well.

Respect veterinary prescription

Follow thoroughly the instructions given by your veterinarian with regard to recommended dosing and duration of treatment. This will limit the risk for further complications, help ensure recovery and assist in reducing evolution of bacterial resistance. Respecting of the dose regimen is crucial for your horse's complete recovery and future sustainability of antimicrobials.

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monitor the progress of recovery and efficacy of treatment

Monitoring your horse's health during treatment can help in adjusting drug choice and dosages, especially when waiting for sample results. Don't change treatment without veterinary advice. Evaluation of how well treatment has worked is essential as a follow up.

Protect yourself though responsible use of antibiotics in your horse

Resistant bacteria. like MRSA, MRSP, ESBL, VRE, VISA and VRSA, can be transferred between horses and humans and may cause severe disease in both. Protect yourself when you are treating your horse by using gloves and/or mask when apprioprate and washing your hands often. In addition, the horse, unless declared as excluded from the food chain in the passport, must be considered as destined for human consumption. Always respect your veterinarian's instructions on antibiotic withdrawal times in order to ensure public health.

GLOSSARY

Antibioties: drugs that kill disease-causing agents such as bacteria. They are not effective against viruses.

MRSA: meticillin-resistant Staphylococcus aureus, highly-resistant bacteria that are typically found in human hospitals but can cause infection in animals.

MRSP: meticillin-resistant Staphylococcus pseudintermedius, a highly-resistant form of bacteria that typically cause infections in animals but on rare occasions have caused human infection.

ESBL: extended spectrum beta lactamase, enzyme produced by intestinal bacteria which inactivates antibiotics these bacteria are highly resistant.

VRE: Vancomycin-resistant Enterococcus, or vancomycinresistant enterococci are bacterial strains of the genus Enterococcus that are resistant to the antibiotic vanconycin.

VRSA: Vencomycin-resistant Staphylococcus aureus refers to strains of Staphylococcus aureus that have become resistant to the glycopeptide antibiotic vancomycin. Three classes of vancomycin-resistant S. aureus have emerged that differ in vancomycin susceptibilities: vancomycin-intermediate S. aureus (VISA), hoterogenous vancomycin-intermediate S. aureus (hVISA), and high-level vancomycin-resistant S. aureus (VRSA).



This leaflet has been made by Federation of Veterinarians FEEVA of European Equine Voterinary Associations (FEEVA). of Europe (FVE) in collaboration with the Federation of http://www.fve.org/uploads/publications/docs/f...









🌆 ▼ 🔝 ▼ 🖪 📥 ▼ Page ▼ Safety ▼ Too







Health professionals care for animals and people

Doctors, Dentists and Veterinarians advise "How to use antibiotics responsibly"

Antibiotics are vital to treating and preventing the spread of disease in animals and humans. However the risk that the bacteria causing a disease will develop a resistance to an antibiotic increases every time it is used. Once bacteria are resistant, the antibiotic is ineffective and can no longer treat the disease. Help us save lives and make sure that antibiotics stay effective now and in the future by following these tips:

- "Antibiotics are not always the answer"
- Not every infectious disease can be treated with antibiotics (e.g. viral infections, colds and flu). Sometimes you can recover easily without using them (e.g. superficial cat bite wounds). To protect your own health and that of others, don't demand antibiotics when your doctor, dentist or veterinarian assures you that they are not needed.
- "Keep yourself, your family and your animal healthy"

Antibiotics should not be shared between people or between animals. Do not re-use tablets prescribed for an earlier illness. They can be inappropriate for the current condition, toxic, out of date, or contaminated. Certainly do not give human medicines to your animal. This could be dangerous.

"Wash your hands often"

People's hands are the most common way germs are spread. Although some of these germs are harmless, others cause diseases, like stomach bugs, and transmit resistant bacteria such as MRSA/MRSP, even between animals and people. Washing your hands properly with soap and water is the single most important thing you can do to help reduce the spread of infections between you, other people and your animal. Pay special attention to wash your hands before preparing food or eating and after coughing, sneezing, blowing your nose or petting your animal.

"Diagnostic tests might be needed"

In order for your doctor, dentist or veterinarian to know whether treatment with antibiotics is really necessary and if so, which antibiotic will work best, a laboratory test might be needed. This will enable your health professional to prescribe the right antibiotic for the right bacteria. Older antibiotics, such as Penicillin are often as effective as modern antibiotics.

"Follow the dosage and instructions"

Make sure that you take or give your loved ones, including your animal, all the recommended doses of an antibiotic, as prescribed by your doctor, dentist or veterinarian; even if you or your animal seem to feel better after a few doses. Not only will this help cure the current infection, but it will also help to keep the bacteria from discovering new ways of being resistant to the antibiotic.

"Talk to your doctor, dentist or veterinarian"

If you have worries or questions in relation to antibiotics, do not hesitate to discuss these with your health professional. He/she is your expert and best advisor. A good relationship with your doctor, dentist or veterinarian, is the pillar of healthy and happy people and animals.

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- . Antibiotic resistance is the condition when antibiotics no longer work against the (bacterial) infection that they previously worked well against.
- . Infections caused by antibiotic resistant bacteria can be difficult to treat and last for a long time. In severe cases, no effective antibiotics can be found. so the disease cannot be treated, and may cause death.
- . Antibiotic resistant bacteria that cause infections can spread to family and friends and infect our animals as well.
- . Using antibiotics only when needed and taking them as directed can help to prevent the spread of resistant bacteria.
- . One Health has been defined as "the collaborative effort of multiple disciplines - working locally, nationally, and globally - to attain optimal health for people, animals and the environment".

Antibiotics: drugs that kill disease-causing agents such as bacteria. They are not effective against viruses, MRSA: meticillin-resistant Staphylococcus aureus. highly-resistant bacteria that are typically found in human hospitals but can cause infection in animals. MRSP: meticillin-resistant Staphylococcus pseudintermedius, a highly-resistant form of bacteria

that typically cause infections in animals but on rare

occasions have caused human infection.

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Veterinarians and farmers care for animals and people

"Responsible use of antibiotics in food-producing animals - How can this be ensured?"

Antibiotic resistance in animals – much like in their human counterparts – is becoming a greater challenge every day. Antibiotic resistance occurs when certain bacteria are able to "resist" and survive after they have been exposed to a specific antibiotic that would normally be expected to kill them or inhibit their growth.

Antibiotics are used in animals for the same reason as for people:

they are vital to treat and control diseases. Protecting the health of animals helps to protect human health. But the risk that the organism causing the disease will develop resistance to them increases every time they are used. To make sure that the limited antibiotics available on the market stay effective now and in the future, they must be used with caution and only on veterinary prescription. Not every infectious disease requires antibiotic treatment (e.g. viral infections).

Prevention is better than cure

One of the best things to do to prevent use of antibiotics is to ensure that animals are kept healthy, by guaranteeing good hygiene, proper housing and ventilation, feed with a high nutritional value, and, where available, use of vaccines as part of a good prevention and control strategy. Mixing animals with different health statuses should be avoided, but if necessary particular care should be taken when doing so. Remember always that "stress" is a killer. Antibiotics should never replace good husbandry, hygiene and management practices.

Diagnostic tests might be needed

In order for your veterinarian to know whether treatment with antibiotics is really necessary and, if so, which antibiotic will work best, a laboratory test is often advisable and in some cases even essential (e.g. use of critically important antibiotics). Your veterinarian 🏻 Þ Open dialogue between will then be able to prescribe the right antibiotic to fight the bacteria effectively. Older types of antibiotics, such as penicillins, can be as effective as the more modern drugs.

New and critically important antibiotics must be strictly controlled

Farmer and veterinarians have to work together to prevent the development of resistance to antibiotics classed as "critically important" or to new antimicrobials for as long as possible. These antibiotics should only be prescribed and used by veterinarians as a very last resort, based on appropriate sensitivity test. Using antibiotics off label or via the cascade should be avoided wherever possible, and used always on the instructions of a veterinarian.

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Antibiotics are not always the answer Do not medicate your animal yourself

Do not use antibiotics for diseases other than those they are prescribed for or after they have passed their use-by-date. They can be inappropriate for the current condition, out of date, contraindicated or contaminated. Only veterinarians can prescribe antibiotics for animals, following an examination and clinical diagnosis. Never source antibiotics outside the legal channels.

Follow the dosage and instructions

Make sure that your animals get all the recommended doses of an antibiotic as prescribed by your veterinarian, even if they get better. Not only will this help to clear up the current infection, but it will also help to keep the bacteria from discovering a new way of becoming resistant to the antibiotic. Always respect the withdrawal time in order to ensure that no residues remain before the meat or milk enters the

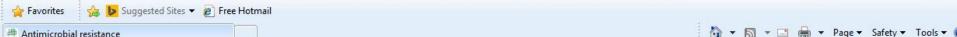
Keep your treatments records in order

Improving antibiotic use requires the transparency and responsibility of all relevant operators, including farmers and veterinarians. Both farmers and veterinarians play an important role in keeping accurate records of treatments administered, and use these records for further assessments and possible adjustments to future treatments.

veterinarians and farmers (Farm Health Management Programme)

Safe food is produced by healthy animals. Health and welfare are greatly influenced by the way animals are kept and raised. At the level of primary production, the farmer has a key responsibility to guarantee that animals satisfy the requirements of animal health and welfare provisions. An open dialogue between farmers and veterinarians is vital to ensure healthy and productive animals. To support the farmer in such an activity, the development of a Farm Health Management Programme tailored to the specific needs of the farm may be considered, in order to guarantee good management of disease risk on farm and ensure expertise when risks and irregularities are detected on farm. If you have worries or questions in relation to antibiotic resistance, do not hesitate to discuss these with your veterinarian.

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Antimicrobial resistance

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Antimicrobial resistance interactive database: EARS -Net

Antimicrobial consumption interactive database: ESAC -Net

Antimicrobial resistance

Antibiotics are one of the most important therapeutic discoveries in medical history. They have revolutionised the way we treat patients with bacterial infections and have contributed to reducing the mortality and morbidity from bacterial diseases. They are also an essential tool for modern medicine and common procedures such as transplantation, chemotherapy for cancer and even orthopaedic surgery could not be

Unfortunately, antibiotics have been liable to misuse. They are often unnecessarily prescribed for viral infections, against which they have no effect. Similarly when diagnoses are not accurately made, more often than not, broad-spectrum antibiotics, i.e. antibiotics that kill a large proportion of various bacteria and not only the bacteria responsible for the

performed without the availability of potent antibiotics.

disease, are prescribed because the causative micro-organism is not known. Read more

IN FOCUS

European Antibiotic Awareness Day: Rates of carbapenem-resistant infections continue to increase in Europe



On the occasion of the European Antibiotic Awareness Day, ECDC is releasing the EARS-Net annual report; the new EU-wide data on antibiotic resistance showing a marked increase of carbapenem-resistant infections. ECDC also publishes the results of a survey based on a self-assessment by national experts from 38 countries of carbapenems-resistant infections in Europe.

- → EARS-Net report
- → Summary of the latest data on antibiotic resistance in the European Union, 2013
- → EuSCAPE report
- → Summary of the results of a survey on carbapenem-resistant bacteria in Europe, 2013
- → EAAD news release
- A EAAD Infographics

INTERACTIVE DATABASES

Antimicrobial resistance interactive database (EARS-Net)





database (ESAC-Net) Antimicrobial consumption,

in the community and the hospital sector in Europe.

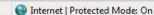
Point prevalence survey interactive database (HAI-Net PPS)



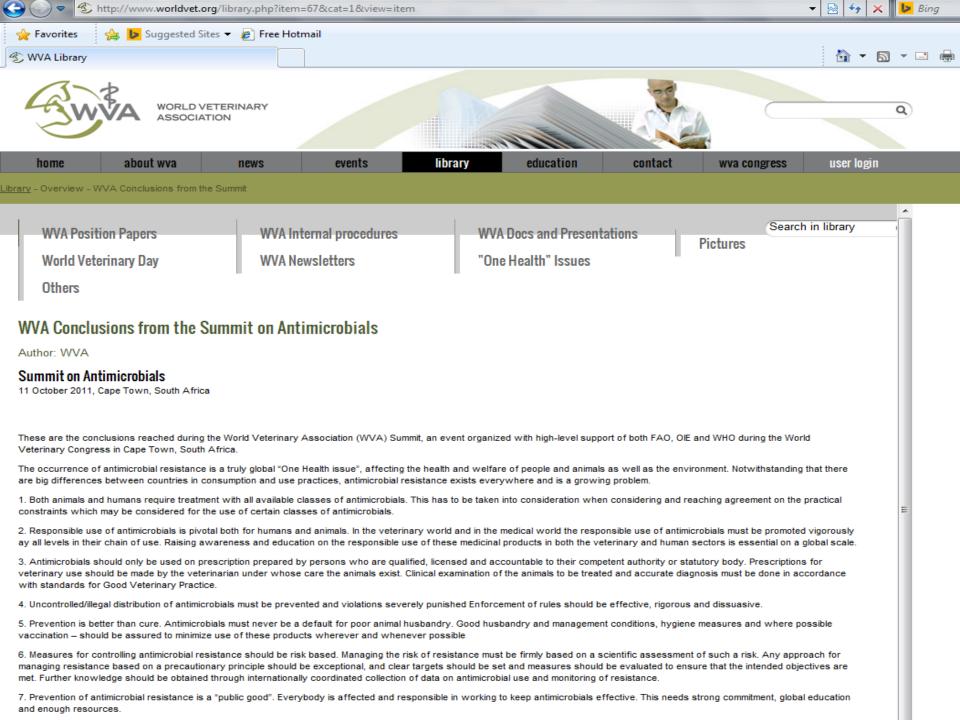
Healthcare-associated infections and antimicrobial use in acute care hospitals.

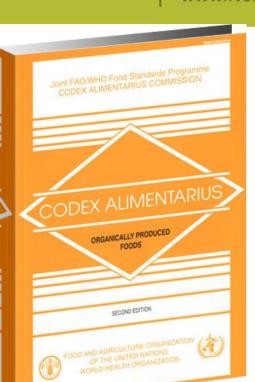














Codex Committees on Residues of Veterinary Drugs in Foods (safety of residues)

Task Force on Antimicrobial Resistance (guidance on risk analysis on AMR)



International Action



OIE terrestrial Code

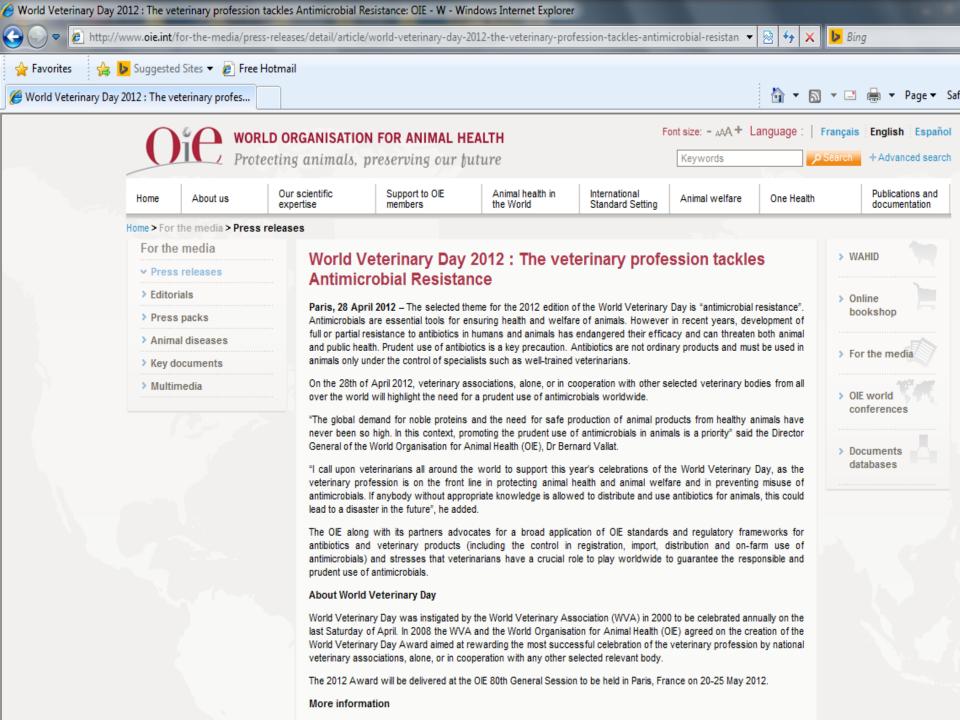
Chapter 6.6. Introduction to the recommendations for controlling antimicrobial resistance

Chapter 6.7. Harmonisation of national antimicrobial resistance surveillance and monitoring programmes

Chapter 6.8. Monitoring of the quantities of antimicrobials used in animal husbandry

Chapter 6.9. Responsible and prudent use of antimicrobial agents in veterinary medicine

Chapter 6.10. Risk assessment for antimicrobial resistance arising from the use of antimicrobials in animals



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FDA Takes Significant Steps to Address Antimicrobial Resistance

Agency implementing plan to ensure judicious use of antibiotics in food animals

December 11, 2013

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Trade Press Inquiries: Siobhan DeLancey, 202-510-4177, siobhan.delancey@fda.hhs.gov

Consumer and Industry Inquiries: AskCVM@fda.hhs.gov

The U.S. Food and Drug Administration today is implementing a plan to help phase out the use of medically important antimicrobials in food animals for food production purposes, such as to enhance growth or improve feed efficiency. The plan would also phase in veterinary oversight of the remaining appropriate therapeutic uses of such drugs.

Certain antimicrobials have historically been used in the feed or drinking water of cattle, poultry, hogs, and other food animals for production purposes such as using less food to gain weight. Some of these antimicrobials are important drugs used to treat human infection, prompting concerns about the contribution of this practice to increasing the ability of bacteria and other microbes to resist the effects of a drug. Once antimicrobial resistance occurs, a drug may no longer be as effective in treating various illnesses or infections.

Because antimicrobial drug use in both humans and animals can contribute to the development of antimicrobial resistance, it is important to use these drugs only when medically necessary. The plan announced today focuses on those antimicrobial drugs that are considered medically important (i.e., are important for treating human infection) and which are approved for use in feed and water of food animals.

In a final guidance issued today, the FDA lays out a road map for animal pharmaceutical companies to voluntarily revise the FDA-approved use conditions on the labels of these products to remove production indications. The plan also calls for changing the current over-the-counter (OTC) status to bring the remaining appropriate therapeutic uses under veterinary oversight. Once a manufacturer voluntarily makes these changes, its medically important antimicrobial drugs can no longer be used for production purposes, and their use to treat, control, or prevent disease in animals will require veterinary oversight.

The FDA is asking animal pharmaceutical companies to notify the agency of their intent to sign on to the strategy within the next three months. These companies would then have a three-year transition process.

"Implementing this strategy is an important step forward in addressing antimicrobial resistance. The FDA is leveraging the cooperation of the pharmaceutical industry to voluntarily make these changes because we believe this approach is the fastest way to achieve our goal," said FDA Deputy Commissioner for Foods and Veterinary Medicine Michael Taylor. "Based on our outreach, we have every reason to believe that animal pharmaceutical companies will support us in this effort."

In order to help phase in veterinary oversight of those drugs covered by the guidance that are intended for medically appropriate uses in feed, the FDA also has issued a proposed rule to update the existing regulations relating to Veterinary Feed Directive (VFD) drugs. The use of VFD drugs requires specific authorization by a licensed veterinarian using a process outlined in the agency's VFD regulations. The VFD proposed rule is intended to update the existing VFD process and facilitate expanded veterinary oversight by clarifying and increasing the flexibility of the administrative requirements for the distribution and use of VFD drugs. Such updates to the VFD process will assist in the transition of OTC products to their new VFD status.

"This action promotes the judicious use of important antimicrobials to protect public health while ensuring that sick and at-risk animals receive the therapy they need," said





.... and nationally





UK Five Year Antimicrobial Resistance Strategy 2013 to 2018











Strategic aims and approach

- i. Improve the knowledge and understanding of AMR through better information, intelligence, supporting data and developing more effective early warning systems to improve health security,
- ii. Conserve and steward the effectiveness of existing treatments through improving infection prevention and control and development of resources to facilitate optimal use of antibiotics in both humans and animals,
- iii. Stimulate the development of new antibiotics, diagnostics and novel therapies by promoting innovation and investment in the development of new drugs and ensuring that new therapeutics reach the market quickly.



Federation of Veterinarians of Europe

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Seven key areas

1 improving infection prevention and control practices in human and animal health, both through enhanced dissemination and implementation of best practice and better use of data and diagnostics (supports strategic aims i and ii),

2 optimising prescribing practice through implementation of antimicrobial stewardship programmes that promote rational prescribing and better use of existing and new rapid diagnostics (supports strategic aims i and ii),

3 improving professional education, training and public engagement to improve clinical practice and promote wider understanding of the need for more sustainable use of antibiotics (supports strategic aims i and ii),

4 developing new drugs, treatments and diagnostics through better collaboration between research councils, academia, industry and others; and by encouraging greater public-private investment in the discovery and development of a sustainable supply of effective new antimicrobials, rapid diagnostics, and complementary tools for use in health, social care, and veterinary systems (supports strategic aims ii and iii),

5 better access to and use of surveillance data in human and animal sectors through new arrangements that facilitate greater consistency and standardisation of the data collected across the system and encourage improved data linkage (supports strategic aims i and ii), 6 better identification and prioritisation of AMR research needs to focus activity and inform our

understanding of AMR. This may identify alternative treatments to new drugs as well as new or improved rapid or point-of-care diagnostic tests for humans and animals (supports strategic aims i, ii and iii),

7 strengthened international collaboration working with and through a wide range of governmental and non-governmental organisations, international regulatory bodies and others to influence opinion, galvanise support, and mobilise action to deliver the scale of change needed globally (supports strategic aims i, ii and iii).

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Measures to tackle antimicrobial resistance must be science based says BVA

15 November 2012

Political measures to reduce antimicrobial resistance in Europe and the UK are in danger of becoming kneejerk reactions that are not based on sound science, the British Veterinary Association (BVA) has warned ahead of European Antibiotic Awareness Day (18 November).

The BVA has told vets that they must use antimicrobials responsibly and be seen to use them responsibly or risk having restrictions imposed on their use by legislators using the precautionary principle.

To mark the Awareness Day BVA President Peter Jones delivered a webinar to over 300 veterinary surgeons titled "Resisting antimicrobials - are we acting responsibly?" hosted by The Webinar Vet and available to view at www.thewebinarvet.com/bvawebinars.

The BVA has consistently been at the forefront of promoting responsible use of these medicines, which are vital for both animal and human healthcare, through our responsible use poster, our membership of the RUMA (Responsible Use of Medicines



European Antibiotic Awareness Day

Sear

- 🔊 "Resisting antimicrobi are we acting responsibly?"
- BVA poster on responsible use of antimicrobials

Related media



Mr Peter Harlech Jones low resolution



RESPONSIBLE USE OF ANTIMICROBIALS

IN VETERINARY PRACTICE: THE 8-POINT PLAN

Work with clients to avoid need for antimicrobials

Avoid inappropriate use

Choose the right drug for the right bug

Monitor antimicrobial sensitivity

Minimise prophylactic use

Minimise use perioperatively

necessary and

practice guidelines

Record and justify deviations from protocols

Report suspected treatment failure to the VMD

- Integrated disease control programmes
- Animal Health and Welfare Planning
- Isolate infected animals wherever possible
- For example, for uncomplicated viral infections
- Restrict use to ill or at-risk animals
- Advise clients on correct administration of products and completion of course
- Avoid underdosing

SPECIAL

Fluoroguinolones and third-/ fourth-generation cephalosporins:

- Reserve these antimicrobials for clinical conditions that respond poorly to other classes of antimicrobials and where antibiotic sensitivity has been carried out.
- Do not administer systemically to groups or flocks of animals except in very specific situations and special attention should be given to the risk of antimicrobial resistance as part of the benefit/risk assessment.
 - Avoid off label use whenever possible

- Identify likely target organisms and predict their susceptibility
 - Oreate practicebased protocols for common infections based on clinical judgement and up to date knowledge
 - Know how antimicrobials work and their pharmacodynamic properties
 - Use antimicrobials with a spectrum as narrow as possible

- While clinical diagnosis is often the initial basis for treatment. microbiological sensitivity must be determined whenever possible so that a change of treatment can be implemented if necessary
- Use only when animals are at risk and evidence that usage reduces morbidity and/or mortality
- Regularly assess prophylactic use and develop written protocols for when prophylactic medication considered appropriate
- Monitor antimicrobial sensitivity trends

- Be able to justify Use only when your choice of supported by strict antimicrobial and aseptic techniques dose alongside written
 - Keep accurate records of treatment and outcome to help evaluate therapeutic regimens
- This may be the first indication of resistance
- Report through the Suspected Adverse Reaction Surveillance Scheme (SARSS)

ANTIMICROBIALS ARE ESSENTIAL FOR THE TREATMENT AND PREVENTION OF INFECTIOUS AND ZOONOTIC DISEASES IN BOTH ANIMALS AND HUMANS

EVERY USE INCREASES THE RISK OF **DEVELOPMENT OF MICROBIAL RESISTANCE**

RESPONSIBLE USE OPTIMISES THERAPEUTIC EFFECTS WHILE MINIMISING RESISTANCE DEVELOPMENT

RESPONSIBLE USE — AS LITTLE AS POSSIBLE. AS MUCH AS NECESSARY

FOR FURTHER GUIDANCE VISIT

www.bva.co.uk





.... and locally





Locally?

- Response to UK plan led by Dept of Health
- •We, as a profession, locally, need a plan!

