“Veterinarians care for animals and people”
The holistic approach of one health in practice

5th Animal Health and Veterinary Medicine Congress
Valencia, 26-27September 2016

Despoina Iatridou
FVE Veterinary Policy Officer



FVE | Federation of Veterinarians of Europe





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Federation of veterinarians of Europe

46 national associations

38 European countries

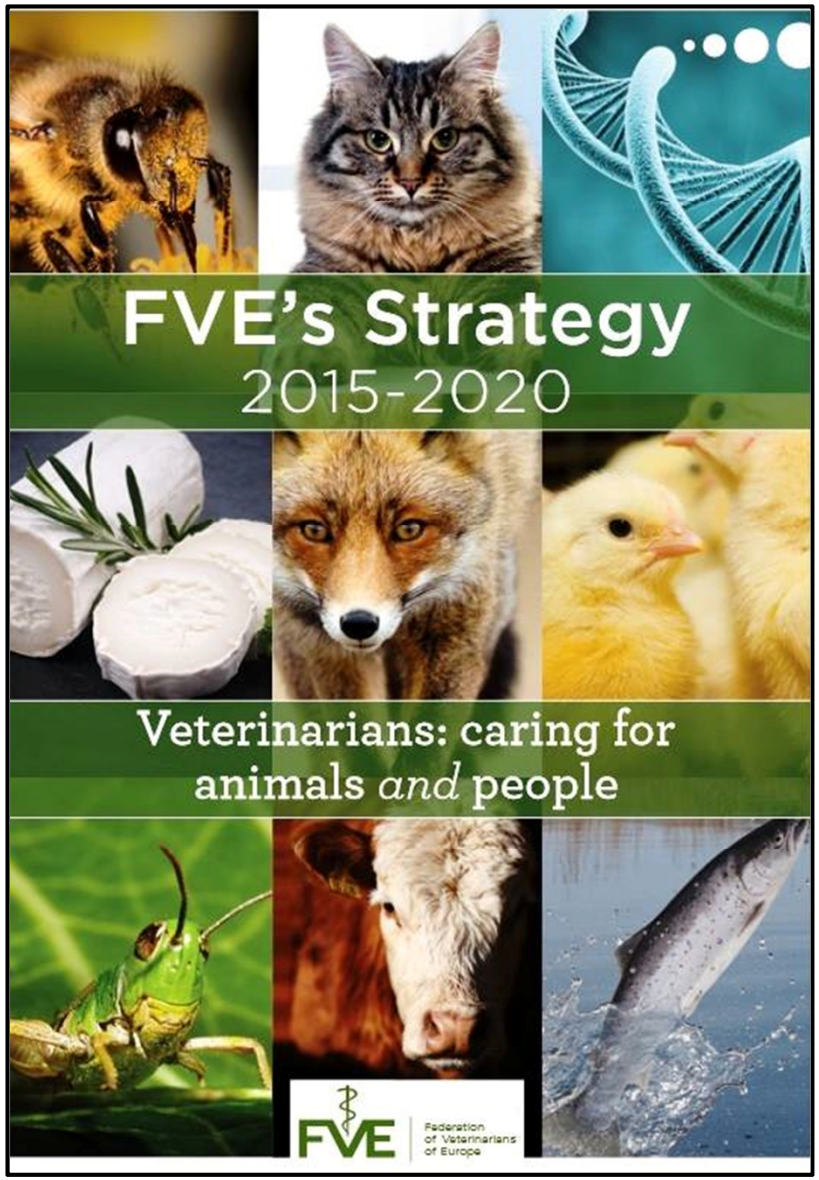
4 FVE Sections

- UEVP (*Practitioners*)
- UEVH (*Hygienists – Public Health Officers*)
- EASVO (*Veterinary State Officers*)
- EVERI (*Education, Research, Industry*)

"One Profession-One Vision -One Voice"



FVE | Federation of Veterinarians of Europe



FVE's mission

The European veterinary profession, embodied by FVE, strives to **enhance animal health, animal welfare, public health and protect the environment** by promoting the veterinary profession.

Veterinarians play a vital role in society.

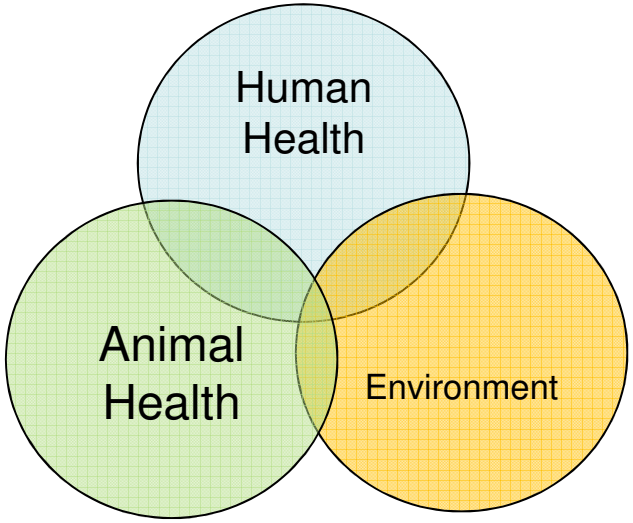
FVE plays a vital role in making sure they can do their jobs well.

One Health concept

Human – Animals -Environment



Hippocrates (c. 460-370 BCE)
"On Airs, Waters and Places"



One Health
in 21st century

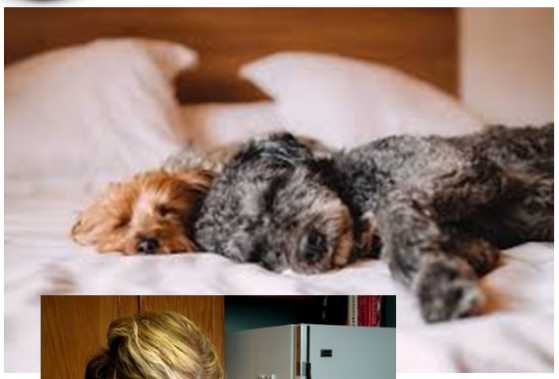


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One Health





















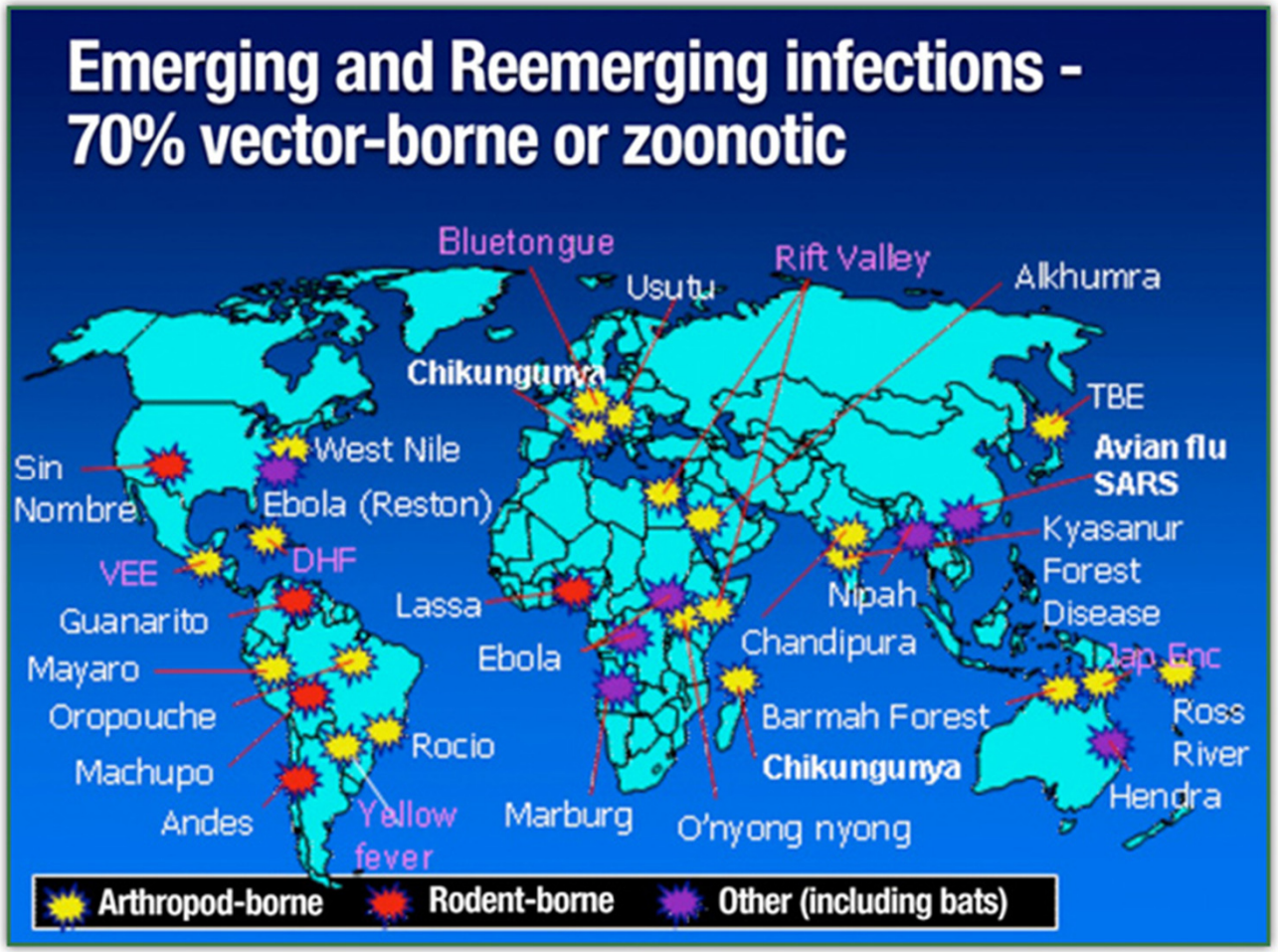


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Epidemiology and zoonoses



- ✓ *60% of human pathogens are of animal origin*
- ✓ *70% of emerging animal diseases can be transmitted to humans*





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One World – One Health

EUROPE'S FIGHT AGAINST ANTIMICROBIAL RESISTANCE



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WHAT IS ANTIMICROBIAL RESISTANCE (AMR)?

Antimicrobials?
Substances used to treat a wide variety of infectious diseases in humans and animals. They:
- kill micro-organisms
- stop micro-organisms from growing and multiplying

Example: antibiotics

Antimicrobial resistance?
The ability of micro-organisms to withstand antimicrobial treatments.

Example: MRSA (meticillin-resistant Staphylococcus aureus) commonly present on human skin and in mucous membranes

Why is resistance growing?
- Overuse of antibiotics
- Misuse of antibiotics
- Spread through various routes

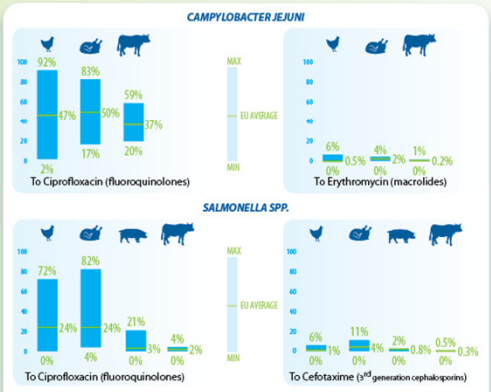
Effect of growing resistance?
- Treatment is rendered ineffective, which poses serious risk to public health

OVERVIEW ON RESISTANCE LEVELS IN ANIMALS AND HUMANS

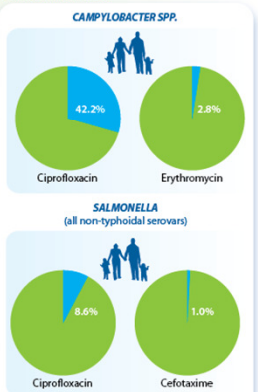
Based on the European Union Summary Report on antimicrobial resistance in zoonotic and indicator bacteria from humans, animals and food in 2010

Monitoring
is a prerequisite for understanding the development and spread of antimicrobial resistance

Levels of AMR in animals to specific micro-organisms in Member States and EU



Levels of AMR in humans to specific antibiotics in EU



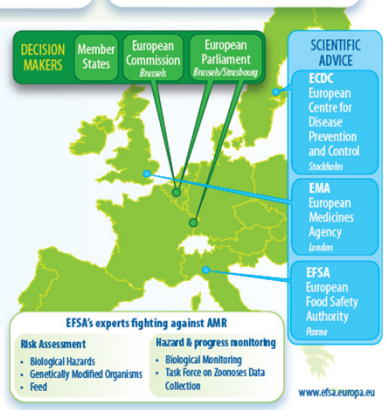
Interpretative criteria of resistance in humans and animals are different and generally result in higher levels in animals and food compared with humans.

HOW DOES EFSA FIGHT AMR?

Scientific support & advice
EFSA provides independent scientific support and advice to risk managers on the possible emergence, spread and transfer to humans and animals of antimicrobial resistance through the food chain or from animals.

Through an integrated approach
EFSA involves a number of its Scientific Panels and Units, as it is a concern for the entire food chain.

Through close cooperation
EFSA cooperates closely with other relevant EU agencies:
- European Centre for Disease Prevention and Control (ECDC), to harmonise monitoring of antimicrobial resistance to enable better comparison regarding the impact on human health.
- European Medicines Agency (EMA), to analyse the relationship between antimicrobial use and the emergence of resistance.

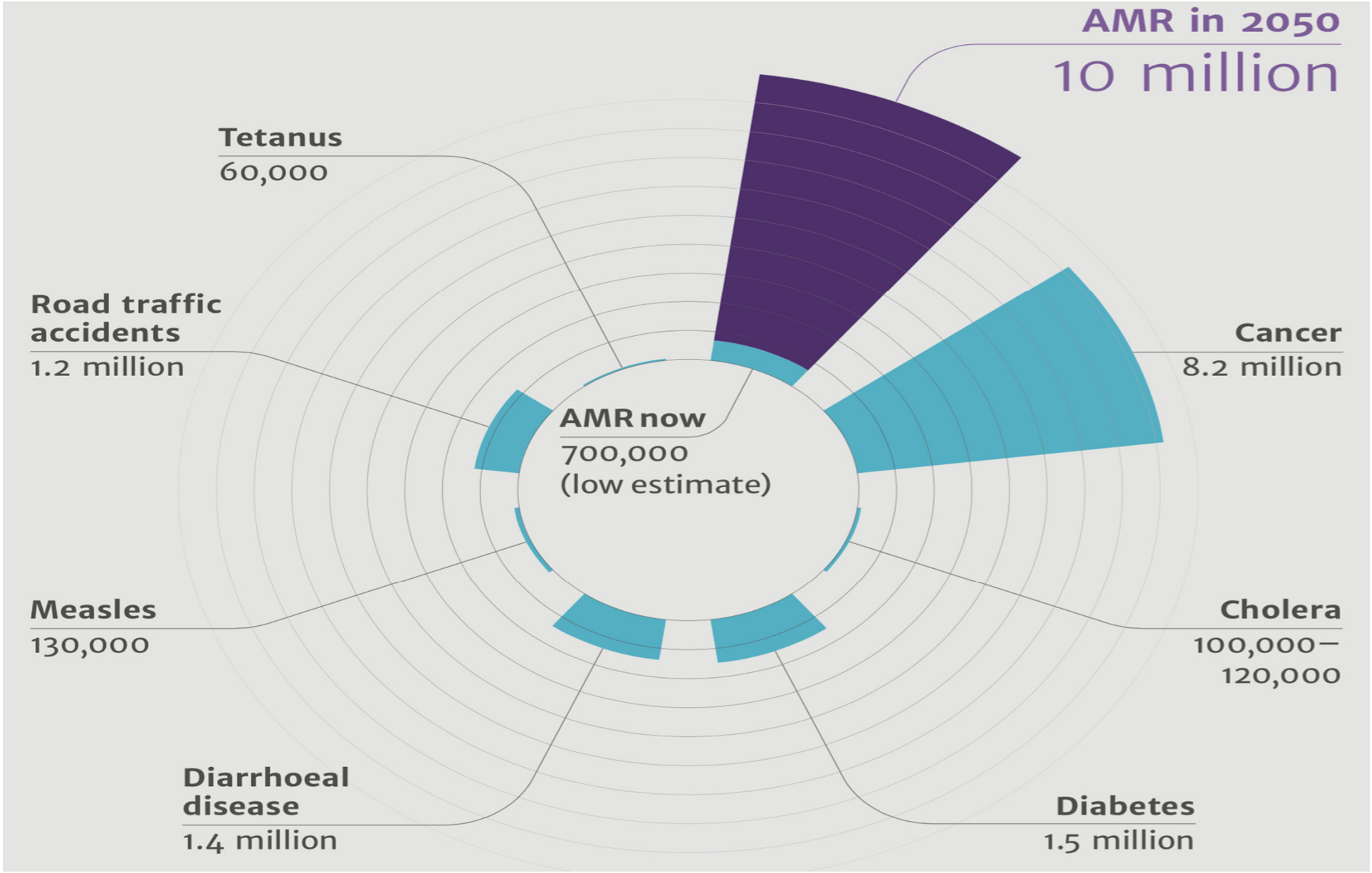


efsa
European Food Safety Authority

EFSA is the keystone of EU risk assessment regarding food and feed safety. In close collaboration with national authorities and in open consultation with its stakeholders, EFSA provides independent scientific advice and clear communication on existing and emerging risks.



One Health is the key



Deaths attributable to antimicrobial resistance every year compared to other major causes of death in humans

Jim O'Neill Chairman of the Review on Antimicrobial Resistance, 2014



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Modern life-style diseases















Environmental hazards













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Top 10 Strange Mass Animal Deaths

Large numbers of animals have mysteriously died recently, from the thousands of birds found dead in two southern U.S. states to 100,000 dead fish in Arkansas. TIME takes a look at other mass animal deaths, many of which are still unsolved.

Tweet

MYSTERIOUS DEATHS

Southern Blackbirds

1 of 10 VIEW ALL

By Ishaan Tharoor Wednesday, Jan. 05, 2011

Some residents in an Arkansas town must have felt transported to an earlier age of superstition when, over the first weekend of the new year, thousands of red-winged blackbirds fell dead from the sky. Like a grim omen, the same phenomenon occurred two days later, with some 500 blackbirds dropping dead in Louisiana. Scientists have puzzled over what killed them, ruling out disease or some form of poisoning. Instead, initial autopsies revealed internal trauma and hemorrhaging, possibly as a result of some violent midair collision among the blackbirds, who tend to fly in very tight formations. They could have also been disoriented by a passing thunderstorm and waterlogged by its rainfall. In any event, EPA officials swiftly arrived on the scene, wearing gas masks and fully covered in hazmat g while cleaning away the corpses. These blackbirds certainly won't be baked in a pie.

Arkansas Game and Fish Commission / Re

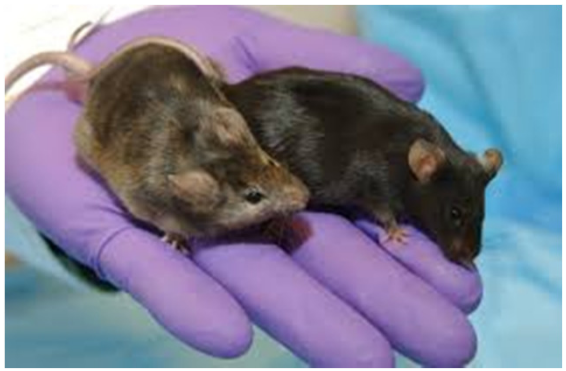
NEXT American Honeybees

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Research follows similar protocols…





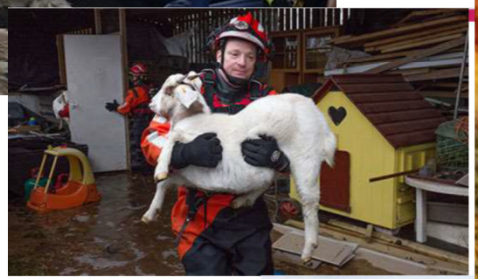




…and results can be used to understand our world

Natural disasters







Dozens Of Animals Escape...

www.viralspell.com/dozens-of-animals-escape-from-a-tbilisi-zoo-during-an-apoca

VIRAL SPELL | STORIES | ENTERTAINMENT | NATURE | DOGS | CATS

Dozens Of Animals Escape From A Tbilisi Zoo During An Apocalyptic Flood In Georgia.

FACEBOOK

← PREV ARTICLE NEXT ARTICLE →

Tbilisi, the capital of Georgia, has been locked down after floods destroyed the enclosures at the city's zoo and allowed tigers, lions, jaguars, wolves, jackals and a hippo to escape into the streets.

Tbilisi residents have been warned to remain indoors, after dozens of dangerous animals escaped from the zoo and most of them are unaccounted for.

Up to 12 people are known to have been killed as a result of the apocalyptic floods so far, including three

own for the video.)

o in the Georgian capital Tbilisi after flash flood

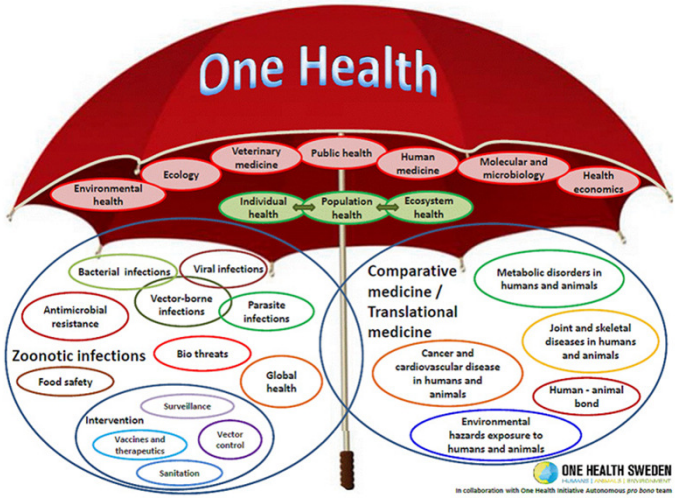
he animals' enclosures, allowing them to roam the streets.



at









Veterinarians are committed to One Health

- ✓ Key role in **prevention and management of zoonotic and foodborne diseases**
- ✓ Ensure **hygiene and safety** throughout the whole food chain, from farm to table
- ✓ Can make important contribution to **joint research**
- ✓ Vets are particularly important in **preparedness**, **crisis management** and **recovery** in disasters
- ✓ **Engage with physicians and other stockholders**
- ✓ **Raise awareness** and **educate** heath professionals and the society

FVE and One Health



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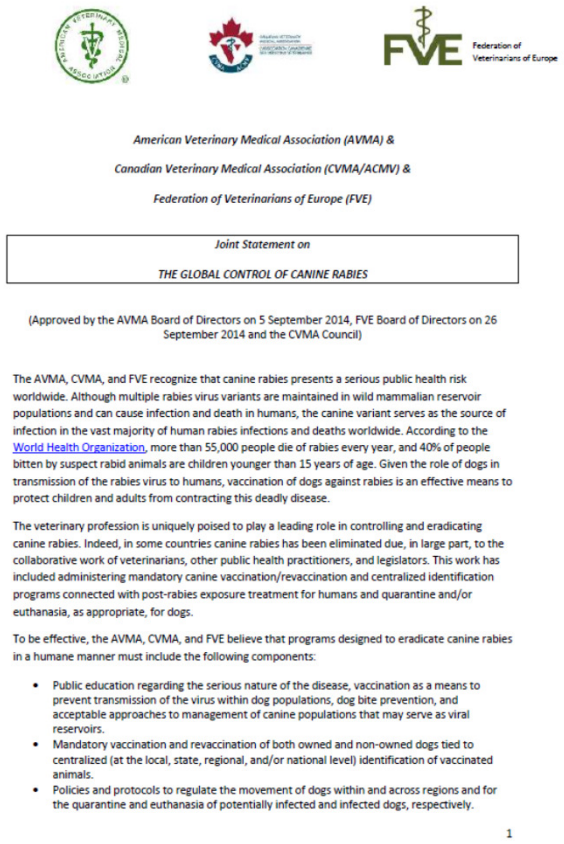
➢ Vet-Week 2009



Animals + Humans = One Health

➢ Rabies Control

- ✓ Member of the ***Global Alliance Against Rabies***
- ✓ FVE-AVMA-CVMA ***Joint position on the Global Control of Canine Rabies***



American Veterinary Medical Association (AVMA) &

Canadian Veterinary Medical Association (CVMA/ACMV) &

Federation of Veterinarians of Europe (FVE)

Joint Statement on

THE GLOBAL CONTROL OF CANINE RABIES

(Approved by the AVMA Board of Directors on 5 September 2014, FVE Board of Directors on 26 September 2014 and the CVMA Council)

The AVMA, CVMA, and FVE recognize that canine rabies presents a serious public health risk worldwide. Although multiple rabies virus variants are maintained in wild mammalian reservoir populations and can cause infection and death in humans, the canine variant serves as the source of infection in the vast majority of human rabies infections and deaths worldwide. According to the World Health Organization, more than 55,000 people die of rabies every year, and 40% of people bitten by suspect rabid animals are children younger than 15 years of age. Given the role of dogs in transmission of the rabies virus to humans, vaccination of dogs against rabies is an effective means to protect children and adults from contracting this deadly disease.

The veterinary profession is uniquely poised to play a leading role in controlling and eradicating canine rabies. Indeed, in some countries canine rabies has been eliminated due, in large part, to the collaborative work of veterinarians, other public health practitioners, and legislators. This work has included administering mandatory canine vaccination/revaccination and centralized identification programs connected with post-rabies exposure treatment for humans and quarantine and/or euthanasia, as appropriate, for dogs.

To be effective, the AVMA, CVMA, and FVE believe that programs designed to eradicate canine rabies in a humane manner must include the following components:

- Public education regarding the serious nature of the disease, vaccination as a means to prevent transmission of the virus within dog populations, dog bite prevention, and acceptable approaches to management of canine populations that may serve as viral reservoirs.
- Mandatory vaccination and revaccination of both owned and non-owned dogs tied to centralized (at the local, state, regional, and/or national level) identification of vaccinated animals.
- Policies and protocols to regulate the movement of dogs within and across regions and for the quarantine and euthanasia of potentially infected and infected dogs, respectively.

1

http://www.fve.org/uploads/publications/docs/004_avma_cvma_fve_statement_on_rabies.pdf



Dr Rafael Laguens, FVE President
Dr Katrín Fjeldsted, CPME President



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- European doctors and veterinarians alliance



2015 Memorandum of Understanding between the Federation of Veterinarians of Europe (FVE) and the Standing Committee of European Doctors (CPME) in the field of 'One Health'

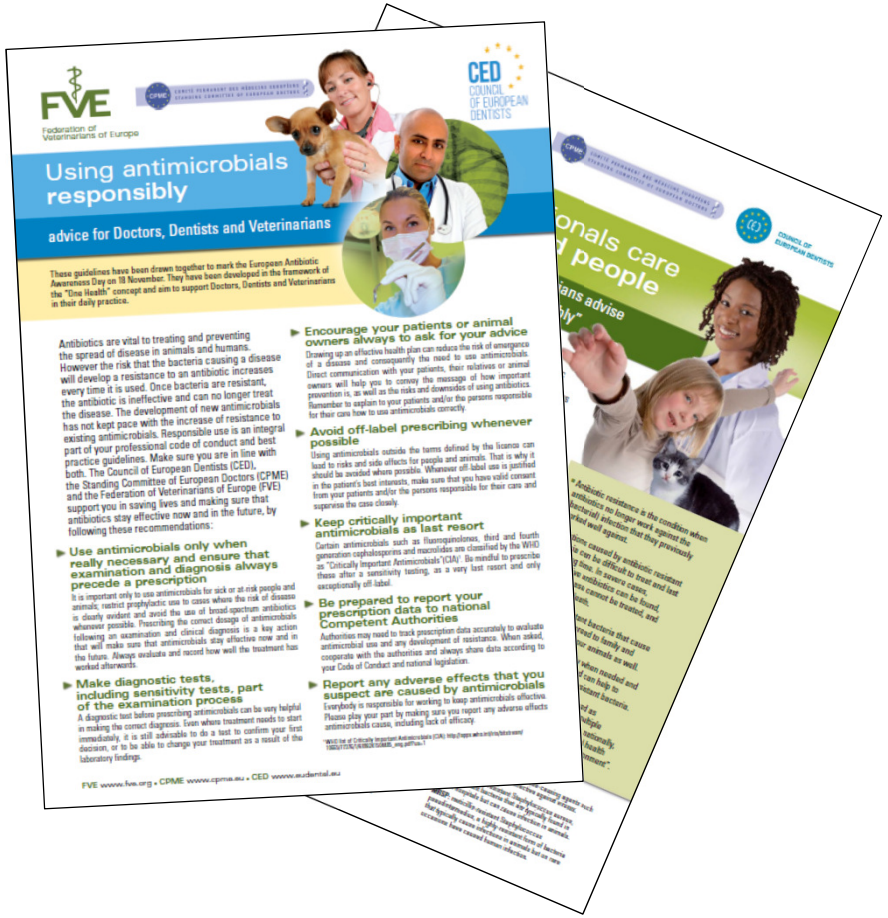
Preamble

FVE-CMPE Memorandum of Understanding (updated in November 2015)





www.fve.org



- Responsible use guidelines
  - ✓ *One addressed to the general public and one addressed to all health professionals*
  - ✓ *Developed together with CPME (doctors) and CED (dentists)*
  - ✓ *Translated in all EU languages*



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➢ European conferences on One Health

Ensuring Health & Sustainability in Europe: Doctors and Veterinarians emphasise "prevention is better than cure" *(Together with CPME)*



Brussels, 7 April 2014

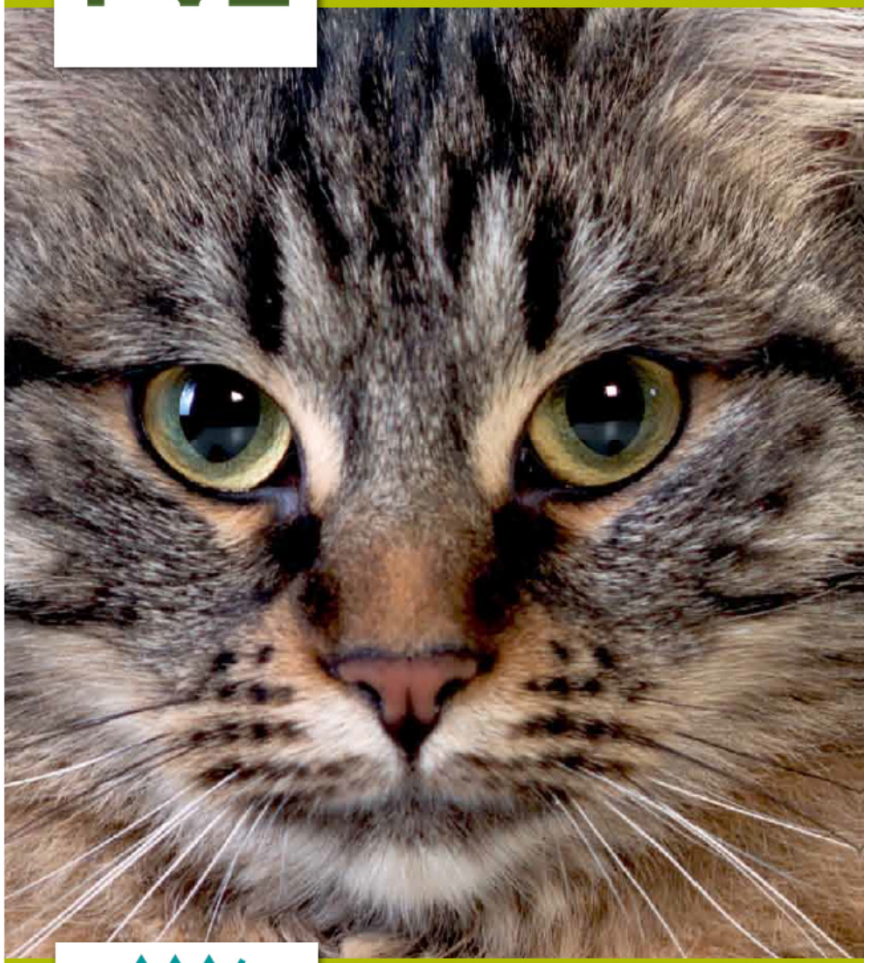
Conclusions

Natural disasters and "One – Health":
Are we prepared to react?

Brussels, 16-17 April 2015

Conclusions



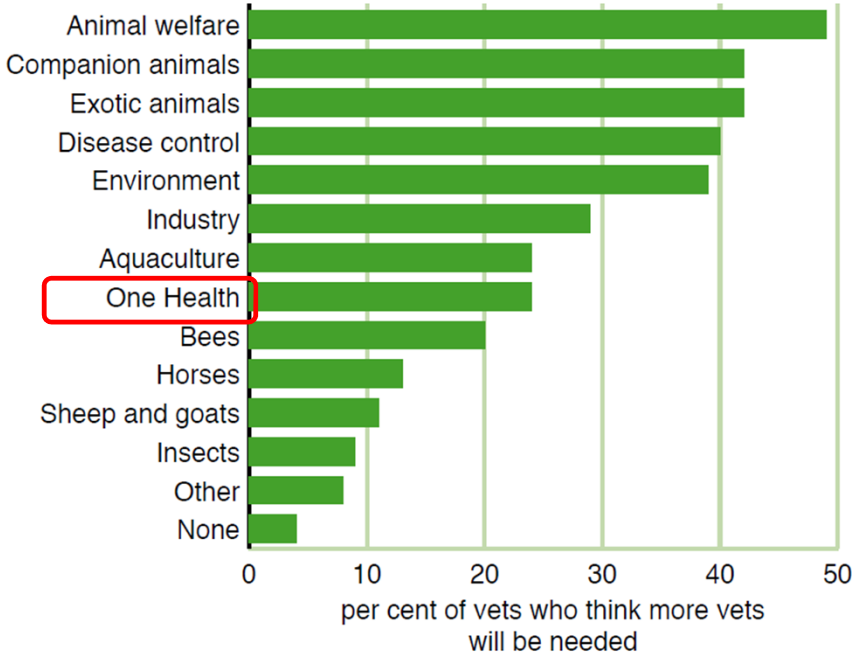




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How vets think the market will change - next five years

Areas where more veterinarians will be needed - Europe





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Something is changing…

OIE

GUIDELINES ON DISASTER MANAGEMENT AND RISK REDUCTION IN RELATION TO ANIMAL HEALTH AND WELFARE AND VETERINARY PUBLIC HEALTH

(GUIDELINES FOR NATIONAL VETERINARY SERVICES)



OIE WORLD ORGANISATION FOR ANIMAL HEALTH
Protecting animals, preserving our future

MAYO 2016

…should cover **public health**, **animal health** and **animal welfare** aspects during all stages of the disaster.

Learning today, **protecting** our **future**
Bangkok (Thailand) 22-24 June 2016

4th OIE Global Conference on Veterinary Education: Implementing OIE guidelines to ensure the excellence of the veterinary profession

4th OIE Global Conference on Veterinary Education

Final Recommendations

CONSIDERING:

1. that Chapters 3.1. of the OIE *Terrestrial* and *Aquatic Animal Health Codes* stipulate that A… quality of the Veterinary Services depends on a set of factors, which include fund… principles such as the professional judgement of the personnel of Veterinary Services… have the relevant qualifications, scientific expertise and experience to make sou… judgements and that the compliance with this fundamental principle cannot be … qualified personnel;

2. that other principles to assure quality of Veterinary Services require additional … skills not necessarily from the domain of veterinary science for meeting a wide … expectations and to effectively communicate with various stakeholders, such as … industries, policy makers and the general public;

3. the need to strengthen the capacity of all countries worldwide to maintain national animal h… and veterinary public health systems that cover entire national territories and are able to p… surveillance, early detection and reporting, and rapid response to any natural, accid… intentional aquatic and terrestrial animal disease outbreak;

4. the emergence of new or re-emergence of existing animal diseases; the social, … and production consequences of transboundary animal diseases; the impact of chan… land use, climate, production systems and population demographics; the global moveme… of commodities and people, as well as societal demands in the field of food security, food safety, veterinary public health and animal welfare; the concrete implementation of the 'One Health' concept and the growing awareness of the importance of biosecurity;

5. that the quality of education for and effective regulation of both veterinarians and veterinary para-professionals by Veterinary Statutory Bodies, with clear definitions of the respective roles and responsibilities of veterinarians and veterinary para-professionals, are pillars of good governance for the public and private sector components of national Veterinary Services;

6. that following the Recommendations of previous OIE Global Conferences on Veterinary Education, the OIE has published key guidance documents, namely "Recommendations on the Competencies …

common training with other professions to motivate close collaboration also in students' future professional life

ONE WELFARE

HOME | ANIMAL WELFARE & ETHICS | INTERACTIVE SCENARIOS | TOOLBOX | RESOURCES

One Welfare

Veterinarians should be "leading advocates for the welfare of all animals, recognising the key contribution that animals make to human society through food production, companionship, biomedical research and education" (Recommendation of the World Organisation for Animal Health, May 2012).

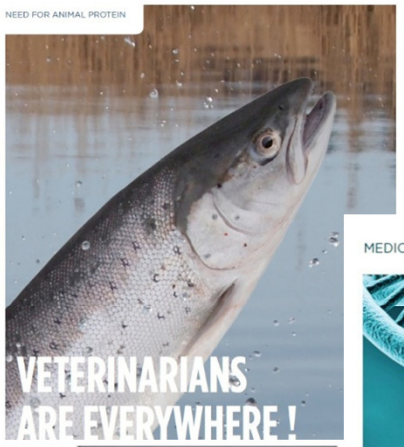


Considerations on the way forward

- ✓ One Health is an holistic approach that addresses health risks at the human-animal-ecosystem interfaces
- ✓ What used to be local is now global
- ✓ Inter-professional open minded cooperation (*e.g. health professionals, environmental scientists, socioeconomists, etc.*) is necessary
- ✓ Recognition of benefits of 'thinking One Health' by all stakeholders is essential to influence policy makers to take political action.


ANNUAL
one health
DAY
november 3
Promoting efforts around the world to bring together
all human, animal, and environmental health disciplines
created and hosted by
One Health
One Health Commission
ONE HEALTH PLATFORM
check www.onehealthday.org for more information







www.fve.org













"Veterinarians care for animals and people"

Thank you for your attention

