



# ESGVM

ESCMI STUDY GROUP  
FOR VETERINARY  
MICROBIOLOGY

European Society of Clinical Microbiology and Infectious Diseases



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### **Treasurer**

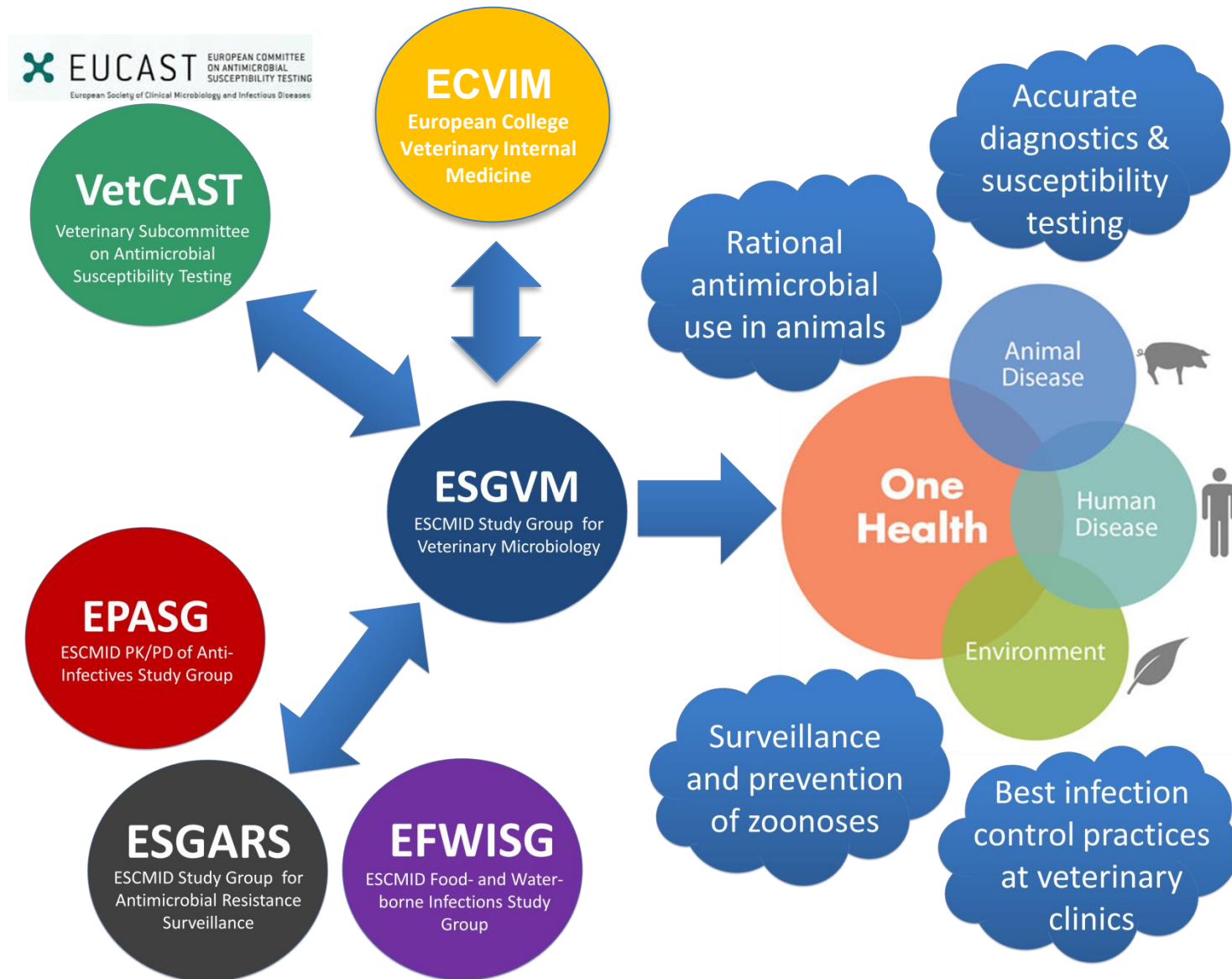
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[https://www.escmid.org/research\\_projects/study\\_groups/veterinary\\_microbiology/](https://www.escmid.org/research_projects/study_groups/veterinary_microbiology/)

- Provide a **joint European forum for veterinary microbiologists** working in research, public health and animal health care
- Contribute to advancement and harmonisation of **methods for diagnosis and antimicrobial susceptibility testing** (AST) of veterinary pathogens
- Support and divulge **antimicrobial stewardship** and best **infection control** practices in veterinary medicine
- Promote **One-Health** by facilitating joint research and training collaborations between medical and veterinary microbiologists within areas of common interests (e.g. zoonoses and antimicrobial resistance)



# **A One Health approach to solve antimicrobial resistance problems in animals**

## Public health risks

- ESBL-producing *Escherichia coli*
- Livestock-associated methicillin-resistant *Staphylococcus aureus* (LA-MRSA)



## Animal health risks

- Multidrug resistant *Brachyspira hyodysenteriae*
- Methicillin-resistant *Staphylococcus pseudintermedius* (MRSP)



## Precision Antimicrobial Therapy in Veterinary Medicine



- *“The overall research strategy, hereafter referred to as precision AMD therapy, is based on the development of veterinary diagnostic and medicinal products that **minimize the negative impact of AMD therapy in animals and the zoonotic risks to humans** through;*
  - *prevention of bacterial infection*
  - *rapid and cheap bacterial identification and AMD susceptibility testing*
  - *pathogen-targeted AMD therapy”.*



**ICOHAR International Conference  
on One Health Antimicrobial Resistance**

**COPENHAGEN**  
30 September  
- 2 October 2015

[www.icohar.org](http://www.icohar.org)

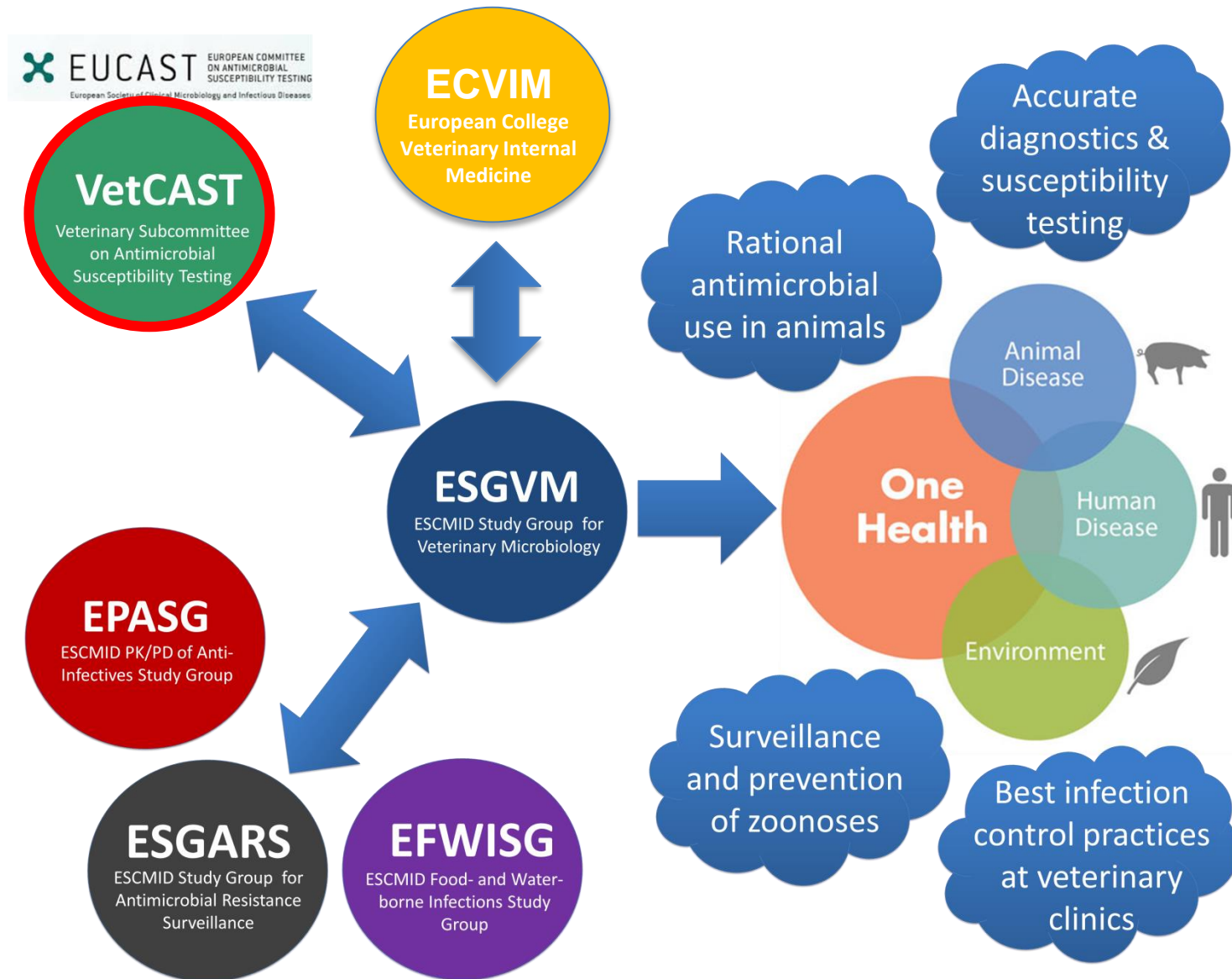
## **ECCMID 2016, Amsterdam**

- ESGVM group meeting
- Various other contributions, e.g. in the educational workshop “Plasmids without frontiers: mechanisms related to MDR and implications for epidemiology and infection control”

## **Antimicrobial Stewardship in Veterinary Medicine**

**ESCMID Postgraduate Education Course**

**10 - 11 September 2016, Gothenburg, Sweden**



- A EUCAST subcommittee dealing with all aspects of antimicrobial susceptibility testing of bacterial pathogens of animal origin and animal bacteria with zoonotic potential
- Development of reliable **clinical breakpoints** for veterinary pathogens is a main priority



- Creating an overview of licensed tetracyclines and cephalosporins in Europe
- Collection of **MIC data** from veterinary pathogens in Europe
- Identifying sources of **PK data**
- Making a position paper on how to set veterinary breakpoints

- Preventing transmission of AMR from animals to humans is important but...



Animal welfare is also impacted by AMR



- ... Finding solutions to AMR in animals (diagnostics, novel therapies etc) should therefore be of value to both humans and animals



