VetCAST kick-off meeting

ECCMID 2015

Date April 27
Veterinary Committee on Antimicrobial Susceptibility Testing (VetCAST)

• Agenda:
  1. Opening and VetCAST strategy
  2. VetCAST member vacancies + election of Steering Committee
  3. Liaison with EU-agencies: EMA, EFSA (ECDC), DG SANCO, EU Reference Laboratory
     a) SOP to describe the working relationship
  4. Collaboration with CLSI and IFAH
  5. Example of breakpoint definition based on:
     a) MIC-distributions
     b) PK-data
     c) PK/PD analysis
     d) Clinical outcome data
        i. Priorities for
           i. Data collection
           ii. SOP or position paper
  6. Review of existing (CLSI/EUCAST) breakpoints for animal pathogens and prioritization of missing breakpoints
  7. Discussion of initial tasks:
     a) MIC data collection
     b) Breakpoints for new veterinary antibiotics
     c) Breakpoints for generics
     d) Infection-specific breakpoints
     e) Expert rules
  8. Funding options
  9. Any other business (ECCMID 2016, educational WS, Symposium)
• Renewal of an initiative in 2005
  – Provided MICs of foodborne pathogens to EUCAST
    • ECOFFs in EFSA guidelines for AMR surveillance
• Onset: ECCMID Barcelona 2014
  – Gunnar Kahlmeter
  – Luca Guardabassi
• Built a core group:
  – Luca/Peter Damborg, Stefan Schwarz, PL Toutain
October 2014 meeting at Schiphol
  – Gunnar and Johan were present and invited experts
  – Chair and secretary selected

November 2014
  – VetCAST strategy defined

December 2014
  – VetCAST approved by EUCAST
  – ESGVM application
    • Chair: Luca Guardabassi
    • Kick-off Sunday April 26
The remit of VetCAST is

- To establish a science-based independent committee that will cooperate with European professionals in veterinary medicine, the European Agencies (EMA, EFSA, DG SANCO, ECDC);
- To determine antimicrobial breakpoints specific to the veterinary field;
- To harmonize veterinary antimicrobial susceptibility testing in the European Union (EU);
- To initiate and coordinate EU research aimed at filling the current gaps in veterinary antimicrobial susceptibility testing:
  - Missing or insufficient veterinary specific breakpoints (bacterial species-, animal host- and infection-specific breakpoints)
  - Optimized methods for antimicrobial susceptibility testing of bacterial pathogens of animal origin and zoonotic bacteria that can affect humans
- To ensure that antimicrobial susceptibility testing protocols and interpretive criteria are freely accessible online through the EUCAST website.
VetCAST Member Vacancies + Steering Committee

• Steering committee
  – Chair: Dik Mevius
  – Secretary: Peter Damborg
  – Datamanager: Kees Veldman?
  – Pharmacologist: Pierre-Louis Toutain?
  – Webmaster: ?

• Vacancies
  – Lisbeth Rem Jessen
  – Annet Heuvelink
  – Christophe Hugnet
Liaison with EU-agencies: EMA, EFSA (ECDC), DG SANCO

Very positive discussion with EMA by TC

- Relation with AWP
  - SOP to describe the working relationship (EUCAST model)
- Relation with industry/CLSI/independency of VetCAST
- Funding
- Data availability and if VetCAST would result in extra burden for Industry
  - Draft Efficacy guideline: provide all the data needed for MIC breakpoint definitions
  - VetCAST formally responded to EMA with a list of suggestions for improvement of this guideline

- Invitation to present VetCAST to CVMP/AWP is pending
Working relations with EFSA/DG SANCO

- Responses were very positive
- Meeting with EFSA/DG SANCO/EMA is foreseen

Working relations with

- ECDC
- EUCAST
- EURL
Both CLSI VAST and VetCAST open for collaboration (common goal)
   - Generics has been proposed from both sides

Not clear to CLSI VAST how VetCAST will operate
   - Decision on BPs, relation with EU agencies, funding etc.
   - Role of 2 CLSI observers

Overall concern from CLSI VAST that limited expertise in the field will be "diluted"

VetCAST was established to
   - Harmonize vet AST in the EU
   - Improve the regulatory process for vet antimicrobial products in Europe

Requires a European organization working in close collaboration with EMA
Example of breakpoint definition (PL)
Review Breakpoints (Kees)
Prioritization of tasks

• MIC-data collection (KV)
• Breakpoints for new drugs (PL?)
• Breakpoints for generic drugs (LP?)
• Infection specific breakpoints (?)
• Expert rules (LG?)

A leader for each task is needed
Selection criteria

- No breakpoint
- Use level
- PH-importance
- Data availability
- Costs

- New drug:
  - Cefovecin?

- Generic drug
  - Tetracyclines?
  - Trim/Sulfonamide?

- Expert rules
  - MecA pos staph?
<table>
<thead>
<tr>
<th>Group</th>
<th>Antibiotics</th>
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<tbody>
<tr>
<td>Penicillines</td>
<td>Phenoxyemethylpenicillin</td>
</tr>
<tr>
<td>Cefalosporines</td>
<td>Cefacetril, Cefoperazone, Cefovecin, Cefquinome</td>
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<tr>
<td>Quinolones</td>
<td>Flumequin, Ibafloxacin</td>
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<tr>
<td>Aminoglycosides</td>
<td>Neomycin, Apramycin</td>
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<tr>
<td>Macrolides</td>
<td>Spiramycin, Tylosin, Tylvasolin</td>
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<tr>
<td>Lincosamides</td>
<td>Lincomycin</td>
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<tr>
<td>Pleurmutilins</td>
<td>Valnemulin</td>
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<tr>
<td>Phenicols</td>
<td>Thiamphenicol</td>
</tr>
<tr>
<td>Others</td>
<td>Polymixin-B, Furazolidon, Bacitracin, Monensin</td>
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Antimicrobials lacking animal specific breakpoints

<table>
<thead>
<tr>
<th>Group</th>
<th>Antibiotics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aminoglycosides</td>
<td>Streptomycin, Kanamycin, Amikacin</td>
</tr>
<tr>
<td>Macrolides</td>
<td>Erythromycin</td>
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<tr>
<td>Streptogramins</td>
<td>Quinu/dalfopristin</td>
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<tr>
<td>Folate path inhibitors</td>
<td>Sulfonamides, Trimethoprim, TmpS</td>
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<tr>
<td>Phenicols</td>
<td>Chloramphenicol</td>
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<tr>
<td>Glycopeptides</td>
<td>Vancomycin, Teicoplan</td>
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<tr>
<td>Others</td>
<td>Nitrofurantoin, Colistin, Fusidic acid, Rifampicin</td>
</tr>
<tr>
<td></td>
<td>Metronidazole</td>
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To do

• Collaborative research project with ESGVM

• Educational WS outside ECCMID on PK/PD, ECOFFs, BPs (10 Keuro) (ESGVM)

• EUCAST session (20 min VetCAST)
  – VetCAST/ESGVM symposium at ECCMID (1 or 2 hrs)
  – VetCAST educational WS at ECCMID (1 or 2 hrs)

• Position paper
Funding options

- ESGVM
- PatVet EU application (Luca)
- ESCMID research grants
- Etc.
Any other business