



Federation  
of Veterinarians  
of Europe



# 2<sup>nd</sup> Veterinary Big Data Stakeholder Forum

*VMP availability monitoring, unmet needs  
and alternatives.*

Virtual, 23<sup>rd</sup> November 2022

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- General reflections on the use of digital technologies
- Data and reflections about shortages in EU
- Reflections about unmet medical needs
- Conclusions

# The FVE network



➤ **45 national associations**

➤ **38 European countries**

➤ **4 FVE Sections**

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



# FVE Strategy 2021-2025

## PRIORITIES

- **ONE-HEALTH AND SUSTAINABILITY**
- **ONE VETERINARY COMMUNITY**
- **BEING RECOGNISED AND INFLUENTIAL**
- **VETERINARY DEMOGRAPHY AND REWARDING CAREERS**
- **EMBRACE TECHNOLOGY**

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. FVE aims to support veterinarians in delivering their professional responsibilities to the best possible standard, and that this expertise is recognized and valued by society.

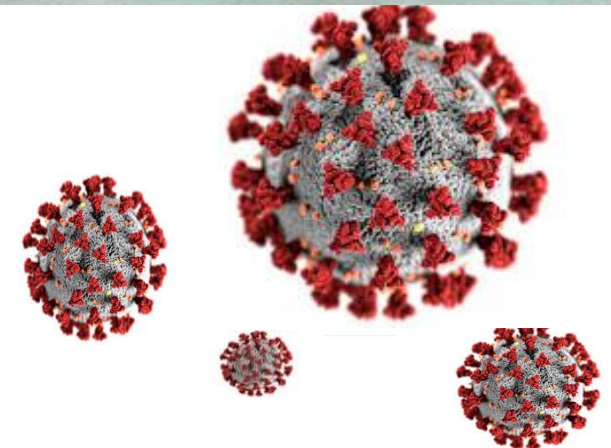




# Digital transformation

Accelerated 2020...

- Rapid sharing of information
- Monitoring and surveillance
- Remote communication and working – even for veterinarians

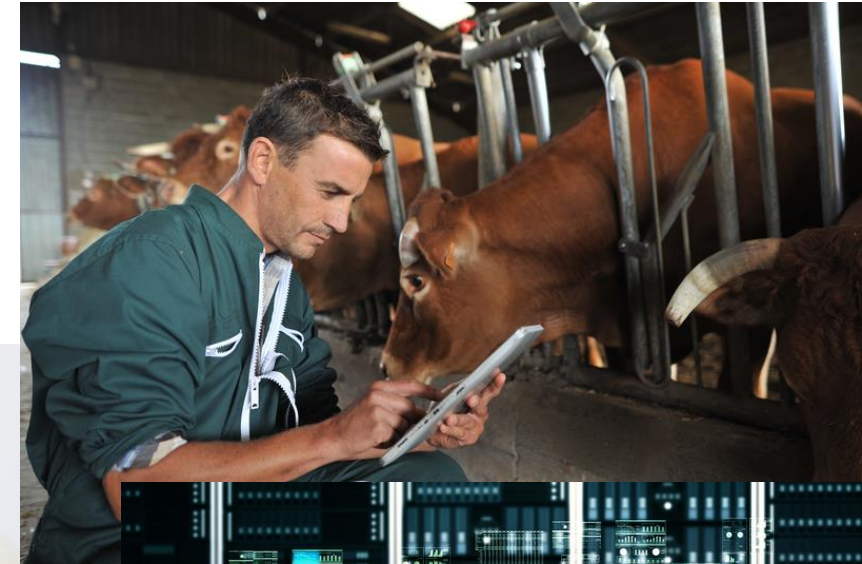




# Use of digital tools in veterinary practice <sup>1/2</sup>

Transformation has started long ago

- Monitoring and surveillance
- Precision medicine
- Big data management
- Robotics





# Use of digital tools in veterinary practice <sup>2/2</sup>

## More innovation is needed

- Monitoring market to increase availability & forecast shortages
- Identify unmet medical needs, incl. alternative treatments
- Improve adverse event reporting and signal detection to support pharmacovigilance



# Monitoring availability & shortages forecast



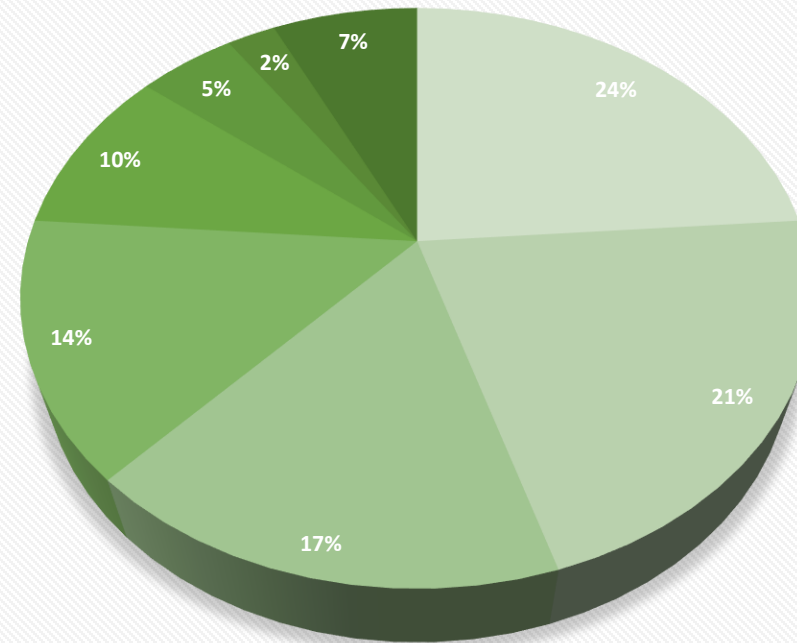




# Monitoring availability

## FVE survey on medicine/vaccine shortages in Europe

Medicines/vaccines shortages



- Antibiotics
- Livestock vaccines
- Feline vaccine
- Canine vaccine
- Equine influenza vaccine
- NSAIDs
- Antiparasitic
- Others

# Monitoring availability

## FVE survey on medicine/vaccine shortages in Europe

Country	Important medicines/vaccines shortages you are aware of currently
Croatia	Anthrax vaccine, horse influenza and tetanus vaccine, then for the other medicines bovine PPD and avian PPD for tuberculosis testing
Cyprus	Feline vaccines, some canine vaccines, caninsulin, some antibiotics, cytopoint and xylazine. In large animal medicine there is shortage on Ovipast vaccine for pneumonia in lambs and Enzovac for chlamydial abortion. There are also medicines that were never marketed in Cyprus but are widely used in other EU countries (e.g. DepoMedrol).
FEEVA	Equine Influenza Vaccine has been in sort supply in recent months to the point that FEI have adjusted the vaccination requirements for competition horses. Historically Equine Herpes Virus vaccine has been unavailable. Some local anaesthetic have also been unavailable.
Finland	lokivetmab (Cytopoint ®), bedinvetmab (Librela ®), oclacitinib (Apoquel ®). At the time of writing this answer Fimes has also announced problems in availability of some vaccines (Eurican DAPPI®, Eurican Herpes®).

## Critical shortages

- Vaccines, observed for several species
- Antibiotics, especially narrow spectrum or lower classes antibiotics— *i.e. penicillin, amoxycillin, tetracyclines, etc.*

Greece	<b>Greece</b> - reports issues with live salmonella and Gumboro vaccines in recent months. <b>Portugal</b> -Some current issues with availability of mycoplasma, Pox and AE are reported. <b>France</b> - shortages are not unusual, but vary from week to week, month to month. A wide range of live vaccines and some inactivated vaccines have been experienced this year and some continue for many months
Romania	No problems related to the important medicines/vaccines shortages
Slovenia	Rabies vaccine from time to time and infectious disease polyvalent vaccine and dermatophytosis vaccine (Rabisin, Eurican, Purevax, Vanguard, Insol Trichophyton). Currently there is a substantial shortage of tetracyclines on market
Sweden	Equine influenza vaccine, atropine eyedrops, meloxicam, and (for laboratory animals): Hypnorm (needed for diabetes research) and Buprenorphine.
Switzerland	Almost permanent with intramammary Penicilline-Products, other first-line Antibiotics. This spring we hadn't any vaccine against Enterotoxemia/pulpy kidney disease in lambs, a lot died.
United Kingdom	Cat vaccines ( which is now improving), equine influenza vaccines, intravenous fluids, particularly large 5 litre bags for equine practice

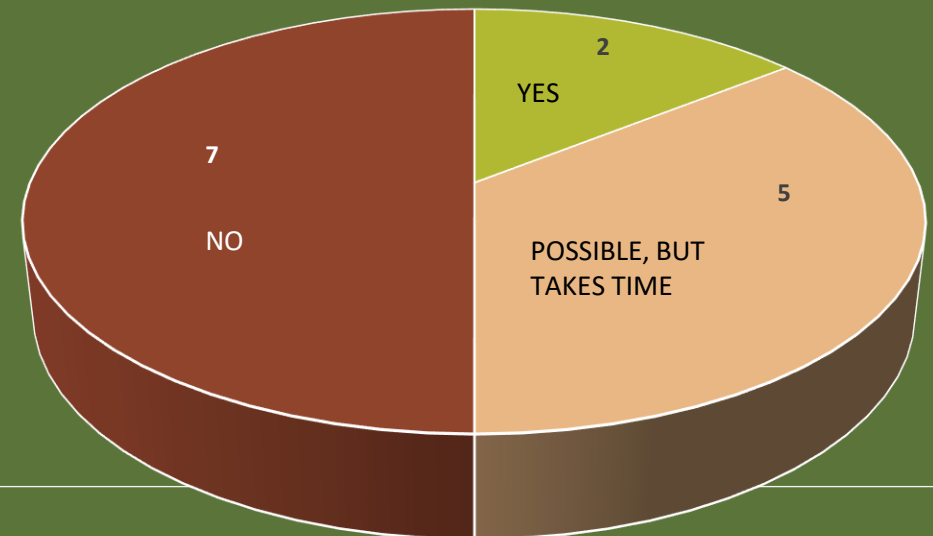
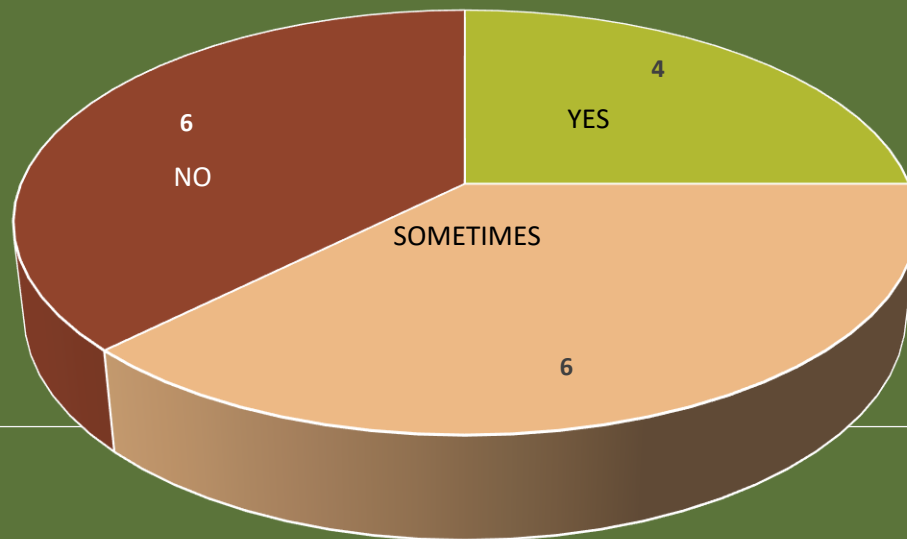


## Monitoring availability

### FVE survey on medicine/vaccine shortages in Europe

If you have a medicines/vaccine shortage, is it **easy to get reliable information** on the duration, reasons or alternatives to use?

If you have a medicine/vaccine shortage, do you **easily source them from other EU countries?**



# Monitoring availability for Minor species – Small markets



*e.g. products for aquatic animals*

## FISH DISEASES LACKING TREATMENT

Gap Analysis Outcome  
FINAL (December 2017)

FishMed + Coalition  
Federation of Veterinarians of Europe (FVE)

### PRIORITY LIST OF IDENTIFIED DISEASES/INDICATIONS

<b>Ectoparasites</b> - Ich (Ichthyophthirius or Ichthyophthiriosis), costia (Ichthyobodosis), Sea/salmon lice, Monogenea infestation – All species
<b>Bacterial diseases</b> - Aeromonas - All species
<b>Fungal and Oomycotic infections</b> – All species
<b>Amoebic gill disease (AGD)</b> – Mostly Salmon
<b>Rainbow Trout Fry syndrome (RTFS)</b> – Flavobacteriosis – Trout and Carp
<b>Sedation and anaesthesia</b> - All species
<b>Viral diseases</b> – all species (see OIE list)
<b>Hormones</b> for broodstock management/maturation/ovulation induction
<b>Endoparasites</b> - in all species (mostly secondary effects, lower production parameters and food quality aspect)

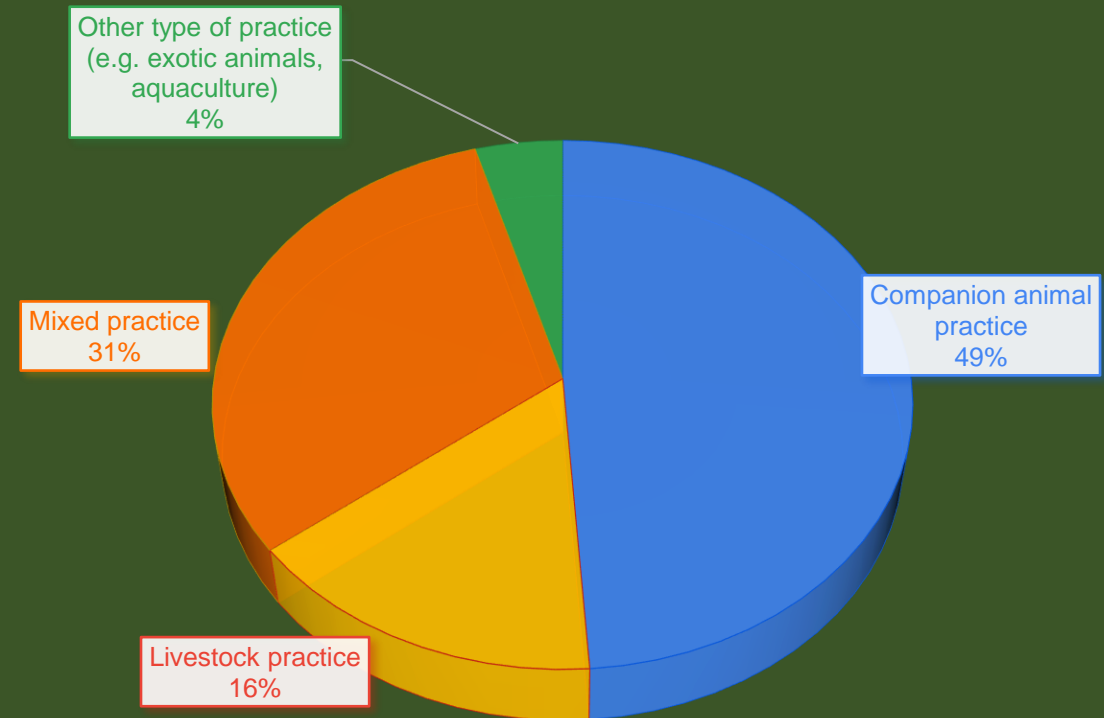
# Monitoring availability

*FVE survey on availability of antibiotic sensitivity testing (AST) and other diagnostics*

*ONGOING*

## Shortages of AST & other diagnostics

*Replies from 6 countries*



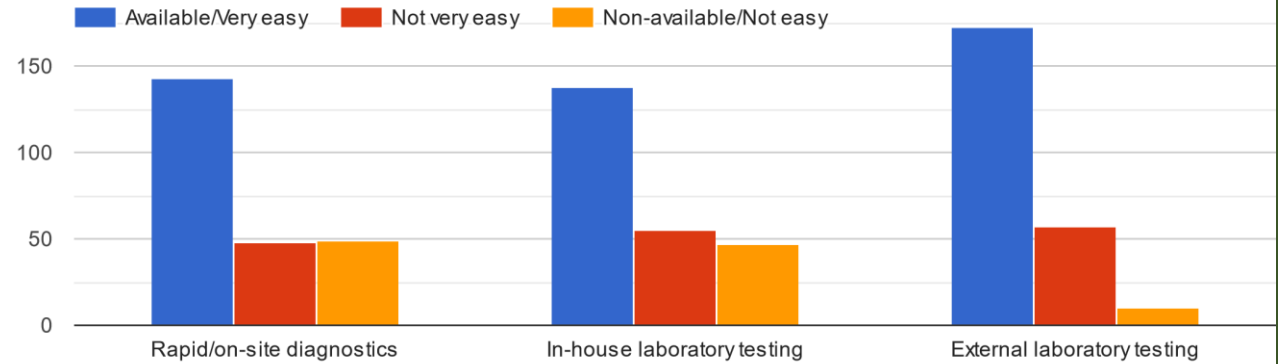
# Monitoring availability

*FVE survey on availability of antibiotic sensitivity testing (AST) and other diagnostics*

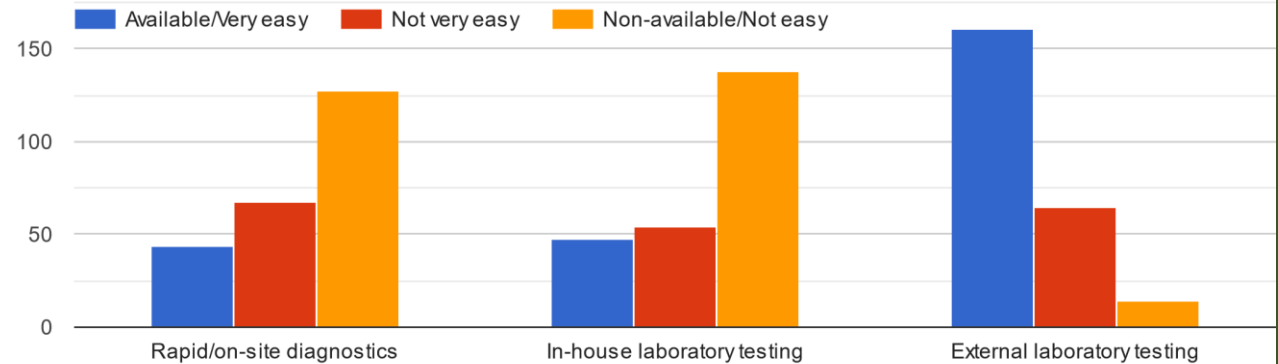
*ONGOING*



How easy is it for you to do diagnostic testing other than antimicrobial susceptibility testing



How easy is it for you to do antimicrobial susceptibility testing ?





# Why monitoring availability and forecast of shortages are important

- Animal health, animal welfare and/or public health, food production;
- Identify regulatory pitfalls;
- Work on establishing a harmonized approach on how to address issues, e.g. imports from 3<sup>rd</sup> countries & batch control testing  
(*Example: mink vaccines*)





## Digital tools provide opportunities for

- real-time **monitoring** of shortages
- a **harmonized framework**, e.g. for collection of data, connection of established databases (UPD, EudraVigilance Veterinary)
- enhanced **communication**
- establishment of a **network**, e.g. with the engagement of stakeholders and regulators

**How ready are we?**





# Unmet needs

## Alternative treatments & diagnostics



# Some reflections on veterinarians' wishes <sup>1/2</sup>

## New technologies could provide solutions

- Reliable diagnostics and AST
- Alternatives to antibiotics
- SPC harmonization/modernization and optimization of dosages and regimes
- Disease forecasting and preparedness, assistance in decision making
- Easy pharmacovigilance reporting
- ...



## Some reflections on veterinarians' wishes 2/2

- Include stakeholders in identification of the needs and solution finding
- Integrate One Health approach
- Avoid administrative burden for the users
- Ensure robust and ethical framework for
  - ✓ data ownership & data management
  - ✓ validation of analytical methods and forecasting models
  - ✓ data protection

# Conclusions



NEEDS	WHAT WE HAVE ACHIEVED	WHAT WE COULD DO MORE
<p><b>Enable access to availability and pharmacovigilance data</b></p> <p><b>Enhance communication</b></p>	<p>Establishment of platforms with data on veterinary medicinal products in EU , i.e. UPD, Eudravigilance veterinary</p>	<ul style="list-style-type: none"> <li>▪ Link databases;</li> <li>▪ Use them for sharing information about shortages, alternative treatments, quick pharmacovigilance reports, etc.</li> </ul>
<p><b>Build sustainable capability and capacity within the Network</b></p>	<p>Started to look into it,e.g. today's workshop</p>	<ul style="list-style-type: none"> <li>▪ Engage policy makers and all stakeholders on Big Data initiatives and policy making</li> <li>▪ Work on a framework for reliable new technologies and their validation</li> <li>▪ Identify areas where new technologies could facilitate the implementation of the NVR, <i>e.g. SPC harmonisation</i></li> <li>▪ Use new technologies to identify unmet needs</li> </ul>
<p><b>Ensure ethics and security</b></p>	<p>Veterinary profession integrates the use of digital tools in practice</p>	<ul style="list-style-type: none"> <li>▪ A clear framework is necessary</li> </ul>
<p><b>Enhance the use of existing resources/ tools</b></p>		<ul style="list-style-type: none"> <li>▪ Interdisciplinary One health collaboration</li> </ul>



**THANK YOU FOR YOUR ATTENTION**

