VETERINARY DRUG RESIDUE NACRW WORKING GROUP

NACRW
NORTH AMERICAN CHEMICAL RESIDUE WORKSHOP

PARAMETERS OF PROPOSED COLLABORATIVE STUDY

SHERRI TURNIPSEED AND ERIC VERDON

MONDAY JULY 26, 2021

Contents :

LAUNCH of the VDR WG – Review of July 2019 Meeting

- Highlighting Existing International Guidance
- Critical Issues to Discuss

Our 2020 Roadmap toward a White Paper

A dedicated web page on NACRW website

GOALS OF THE NACRW « Veterinary Drug Residues » WORKING GROUP

THE PROJECT OF A COLLABORATIVE STUDY

PREPARING THE ROUNDS

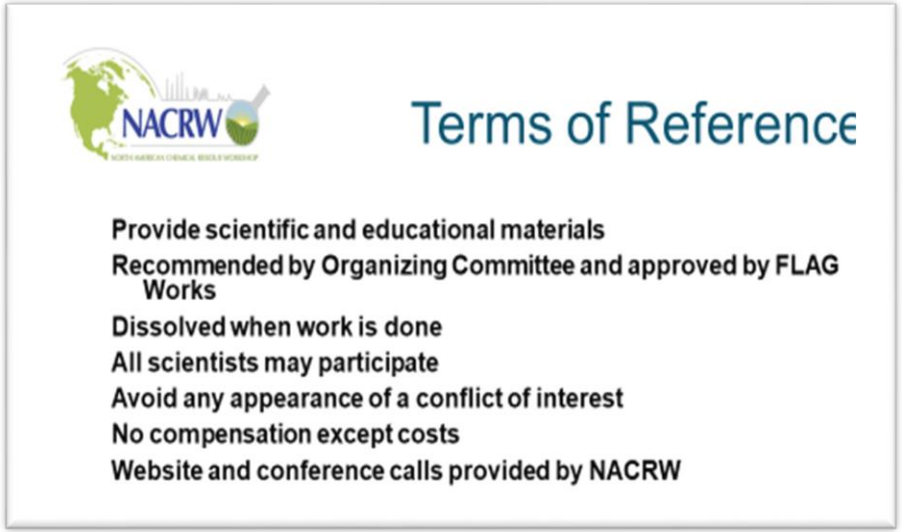
- Advertising official control laboratories
- Preparing TOP30 list of substances
- Data/Factors for processing results
- Total of 3 rounds expected for the period of study

LAUNCH of the VDR WG

A bit of history back to July 2019

MORE THAN JUST TALK!

Scientists coming together to solve problems
Address issues discussed during the meeting
Produce tangible solutions (studies, white papers, guidance documents)



LAUNCH of the VDR WG

A bit of history back to July 2019

INTRODUCTION of the Veterinary Drug Residue Working Group (VDR WG)

JULY 2019 AGENDA

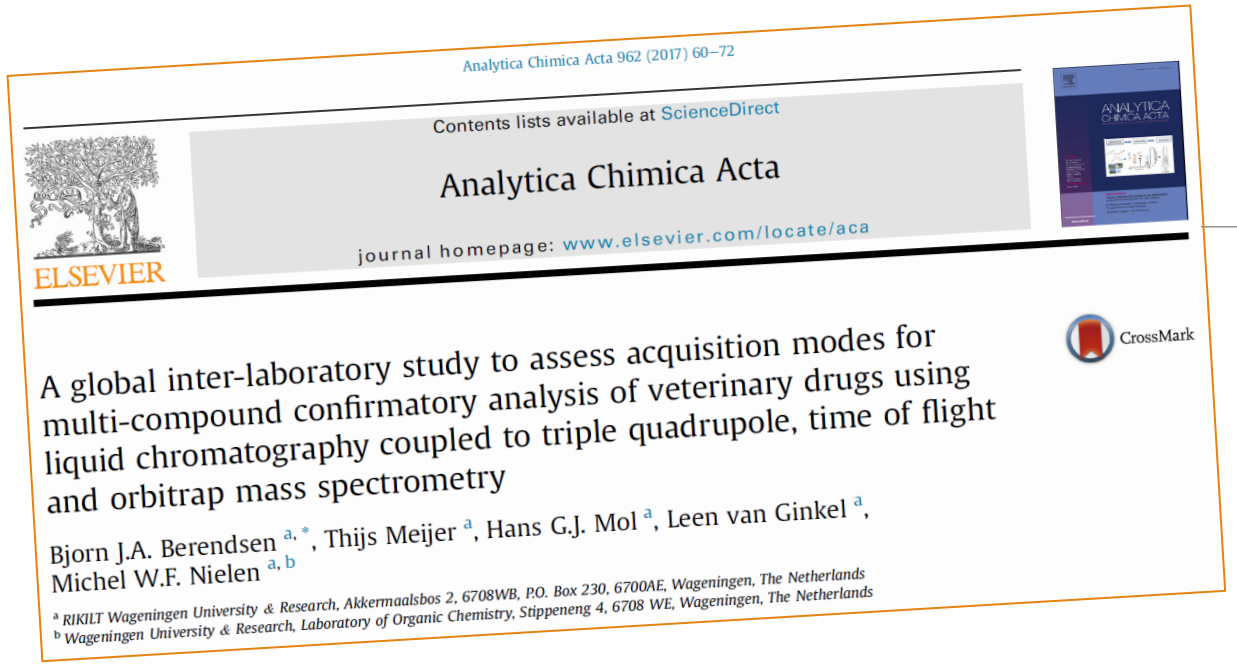
***HIGHLIGHTS ON EXISTING INTERNATIONAL GUIDANCE**

TRENDS IN DIFFERENT REGIONS OF THE WORLD

*** CRITICAL ISSUES TO DISCUSS AND REVIEW**

2020 ROADMAP FOR THE WG toward a WHITE PAPER

HIGHLIGHTS FROM EXISTING INTERNATIONAL GUIDANCE



Analytica Chimica Acta 962 (2017) 60–72

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journal homepage: www.elsevier.com/locate/aca

A global inter-laboratory study to assess acquisition modes for multi-compound confirmatory analysis of veterinary drugs using liquid chromatography coupled to triple quadrupole, time of flight and orbitrap mass spectrometry

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From NACRW Veterinary Drug Working Group
July 21, 2019

Updates on US FDA guidance documents relating to chemical methods for veterinary drug residues

CX/RVDF 13/21/7

CCRVDF ELECTRONIC WORKING GROUP ON MULTI-RESIDUE ANALYTICAL METHODS: PAPER ON REVISION OF THE DRAFT REPORT ON PERFORMANCE CRITERIA FOR MULTI-RESIDUE ANALYTICAL METHODS AND THE DEVELOPMENT OF A GENERIC VALIDATION PROTOCOL FOR THESE METHODS

Process of Revision of Performance Requirements as of European Commission Decision 2002/657/EC

European Commission

HIGHLIGHTS FROM EXISTING INTERNATIONAL GUIDANCE

Emphasis on:

- Technical validation approaches for screening methods
- Technical validation approaches for confirmatory methods
- On-going performance verification during routine analysis
- Extension of scope of methods *(add analytes, add species/products, extending calibrations)*

SUGGESTED CRITICAL ISSUES TO DISCUSS AND REVIEW

1 – Survey MRMs for VDR : Which **technologies** are suitable for Multi-Residue Methods ?

2 – Level/Quality of VDR **identification** ? Minimum required criteria to be applied …

3 – To **screen** and to **confirm** simultaneously? Minimum criteria to be applied …

4 – **Alternative method validation guidance** for large multi-analyte methods ?

5 – Are **AOAC performance requirements** for vet drug screening applicable to regulatory monitoring ?

6 – Clarification of **screening vs quantitative** methods ?

From NACRW Veterinary Drug Working Group
July 21, 2019

CORE MEMBERS OF VDRWG

Eric Verdon, ANSES*-Fougeres, NRL/EU-RL for VDR, FRANCE/EU
Sherri Turnipseed, FDA* Animal Drugs Research Center, USA
Anton Kaufmann, Official Food Control Authority*, SWITZERLAND
Steven Lehotay, USDA* Agricultural Research Service, USA
Jian Wang, CFIA*, CANADA
Jon Wong, FDA* Center for Food Safety and Applied Nutrition, USA
Alejandra Rodriguez-Haralambides, University of the Republic; URUGUAY
Jo Marie Cook, NACRW, USA

** The information in these materials is not a formal dissemination of information by Regulatory Agencies or Authorities (US FDA ; USDA ; CFIA ; FR-ANSES ; EU-COMM ; Swiss-OFCA) and does not represent agencies positions or policies.*

2020 ROADMAP toward a WHITE PAPER

TAKE HOME *From NACRW Veterinary Drug Working Group*
July 21, 2019

GOAL : TO IDENTIFY **MULTI-RESIDUE VET DRUGS METHODS (MRMS)** THAT WOULD MEET THE NEEDS OF REGULATORS

In theory at first

Discuss the concept of MRMs

Develop a list of tools and approaches to frame the concept and establish criteria of method performance

In practice

NEEDS ARE DIVERSE

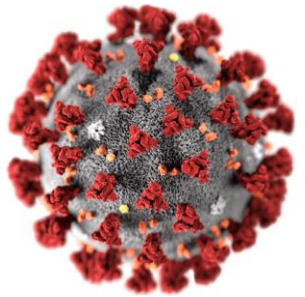
Determine relevant vet drug substances
and
combinations with species/products/matrices

The 2020 ROADMAP toward a WHITE PAPER

2020 THE PLAN

- Establish the VDR WG : initial group of scientists from reg labs at NACRW 2019 meeting will establish the WG with additional labs joining later
- Set up conf calls for initial group
- **Plan next face-to-face meeting at NACRW in July 2020**

2020 THE REALITY



- **WORK CONTINUED!**
- SKYPE, TEAMS, ZOOM
- Established VDR WG Website to document meetings, discussions
- **Planned virtual meeting at 2021 NACRW - next face-to-face meeting at NACRW in July 2022**

A DEDICATED WEB PAGE ON NACRW WEBSITE

http://nacrw.org/vet-drugs-1

VETERINARY DRUGS WORKING GROUP

VIRTUAL WORKING GROUP MEETING

Monday, July 26, 2021
1:15 - 3:15 pm
ZOOM
Presentations and Open Forum will discuss the optimal MS-based analyte identification criteria. A collaborative study of multiple matrices and analytes is being planned to evaluate analyte identification criteria to minimize the rate of false positives and false negatives.

Goals of the NACRW Veterinary Drugs Working Group

- To identify Multi-Residue/Multi-Class Vet Drug Residue Methods (> 100 analytes) that would meet the needs of regulators.
- The NACRW Veterinary Drugs Working Group (VDWG) proposes to investigate veterinary drug screening methods which utilize LC-MS instrumentation to detect the presence of one or more regulated compounds at levels below the food safety relevant defined maximum levels.
- Current project: VDR-WG to draft and review the process and agenda for a Collaborative Study in several rounds identifying methods and criteria relevant for goal described above.

Contacts

PLEASE CONTACT THE CHAIRS FOR MORE INFORMATION

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FIND OUT MORE

2021 MEETINGS

- **January 28, 2021**

Virtual meeting
Reviewed study parameters, discussed introductory letter and "Call for Participants"; began developing a list of international laboratories who might participate; prepare protocol for first round.

- **March 6, 2021**

Virtual meeting
Discussed introductory letter and "Call for Participants"; began developing a lis of official control international laboratories who might participate; prepare protocol for first round.

- **April 7, 2021**

Virtual meeting
Draft introductory letter reviewed; added international, E.U. and U.S. labs to invitation list; reviewed website content, drafted content for Meeting at a Glance, reviewed collaborative study timeline, began preparing protocol for first round.

- **June 2, 2021**

Virtual meeting
Finalize list of potential participants and letter advertising the study. Begin drafting protocol for 1st round of collaborative study. Approve abstract and agenda for July Working Group annual meeting.

GOALS OF THE NACRW « Veterinary Drug Residues » WORKING GROUP

- To identify multi-residue/multi-class vet drug methods (> 100 analytes) that would meet the needs of regulators.

- The NACRW Veterinary Drugs Working Group (VDWG) proposes to investigate veterinary drug screening methods which utilize LC-MS instrumentation to detect the presence of one or more regulated compounds at levels below the food safety relevant defined maximum levels.

- **Current project: VDR-WG to draft and review the process and agenda for a Collaborative Study in several rounds identifying methods and criteria relevant for goal described above. (Eric will now describe in more detail)**