

EMA Veterinary Info Day 2026

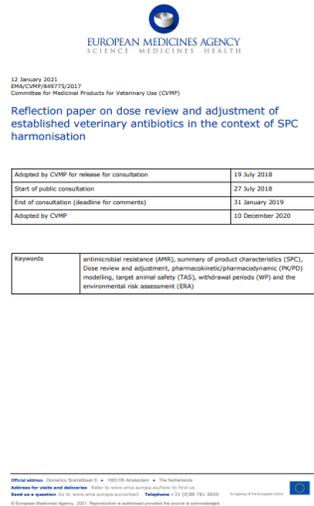
Update from the CVMP ADRA temporary
Working Party (tWP)

Damien Bouchard, Chair of the Dosage Review and
Adjustment of Established Veterinary Antibiotics
temporary Working Party (ADRA tWP)



Background information

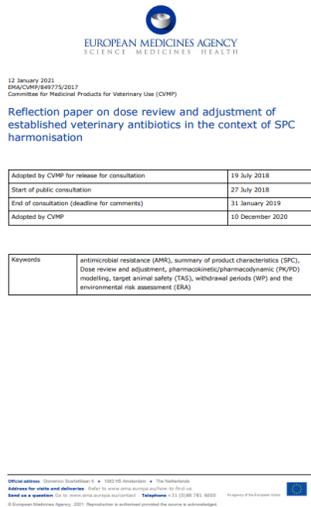
CVMP Reflection paper



*«Pilot project on feasibility to use **non-experimental approaches to review and adjust the dosing regimen** of established veterinary antibiotics.»*

Reflection paper
[EMA/CVMP/84977](https://www.ema.europa.eu/en/medicines/human/reflection-papers/reflection-paper-dose-review-and-adjustment-established-veterinary-antibiotics-context-spc-harmonisation)
[5/2017](#)
(2018-2020)

Priorisation of substances



Reflection paper
[EMA/CVMP/84977/2017](#)
(2018-2020)



ADRA Priority list
Working Group
(2024-2025)

2024

CVMP questionnaire to stakeholders

(FVE, EARS-Vet, VetCAST, EURL, AnimalHealthEurope, AccessVetMed, NCAs)

Priorisation of substances

EUROPEAN MEDICINES AGENCY
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12 January 2017
EMA/CVMP/84977/2017
Committee for Veterinary Products (CVMP)

Reflection paper on dose review and adjustment of established veterinary antibiotics in the context of SPC harmonisation

Adopted by CVMP for release for consultation	19 July 2018
Start of public consultation	27 July 2018
End of consultation (deadline for comments)	10 January 2019
Adopted by CVMP	10 December 2020

Keywords: antimicrobial resistance (AMR), summary of product characteristics (SPC), dose review and adjustment, pharmacokinetic/pharmacodynamic (PK/PD) modelling, target animal safety (TAS), withdrawal periods (WP) and the environmental risk assessment (ERA)

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Reflection paper
[EMA/CVMP/84977/2017](#)
(2018-2020)

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ADRA project – info session for veterinary pharmaceutical industry

22 May 2025, 14:30 – 16:00 (CEST)
Virtual meeting

The ADRA (Dose Review and Adjustment of selected veterinary Antibiotics) project builds on the related [EMA/CVMP/84977/2017](#), acknowledging that the authorised product information for some established veterinary antibiotics may not be fully aligned with current scientific knowledge.

Led by the Committee for Veterinary Medicinal Products (CVMP) and EMA, the ADRA project will focus on reviewing dosage regimens for established veterinary antibiotics through non-experimental approaches, with the goal to:

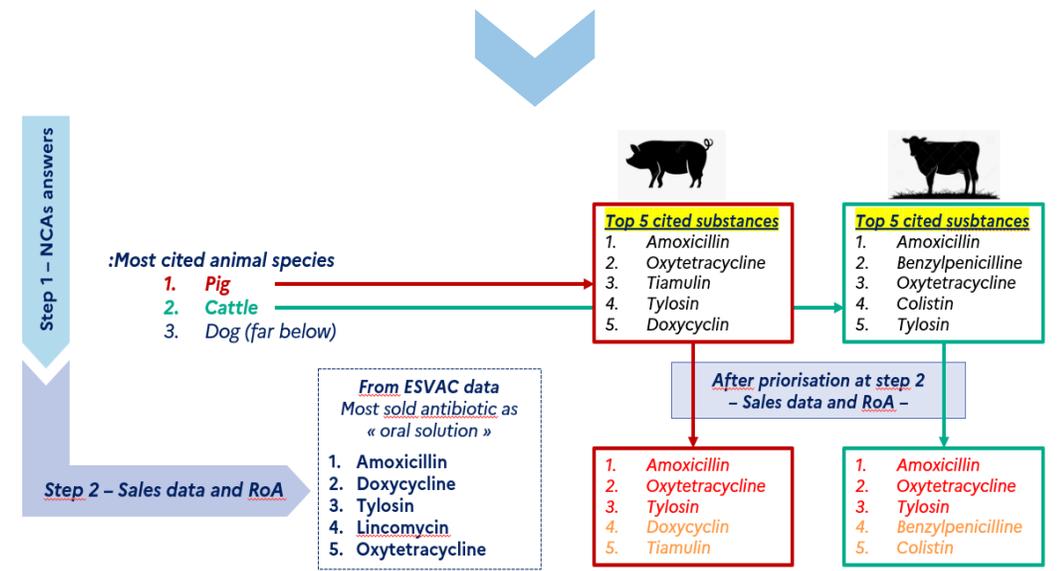
- refine the dosage regimens of those veterinary antibiotics to ensure the prudent use of antibiotics in veterinary medicine;
- evaluate the implications of any dose review on withdrawal periods, target animal safety and environmental risk assessment without necessitating the generation of new study data.

Interested participants are invited to read the discussion document ([DAD](#)) and submit questions in advance.

ADRA Priority list
Working Group
(2024-2025)

2025

Establishment of a priority list of antibiotic substances



ADRA temporary Working Party

12 January 2017
EMA/CVMP/84977/2017
Committee for Veterinary Products (CVMP)

Reflection paper on dose review and adjustment of established veterinary antibiotics in the context of SPC harmonisation

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Reflection paper
[EMA/CVMP/84977/2017](https://www.ema.europa.eu/en/medicines/veterinary/antimicrobials/antimicrobial-resistance/antimicrobial-resistance-reflection-paper)
(2018-2020)

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ADRA project – info session for veterinary pharmaceutical industry

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Led by the Committee for Veterinary Medical Products (CVMP) and EMA, the ADRA project will focus on reviewing dosage regimens for established veterinary antibiotics through non-experimental approaches, with the goal to:

- refine the dosage regimens of those veterinary antibiotics to ensure the prudent use of antibiotics in veterinary medicine.
- evaluate the implications of any dose revision on withdrawal periods, target animal safety and environmental risk assessment without necessitating the generation of new study data.

Interested participants are invited to read the discussion document (DAD) and submit questions in advance.

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ADRA Priority list
Working Group
(2024-2025)

16 July 2025
EMA/CVMP/183068/2025
Committee for Veterinary Medical Products (CVMP)

Mandate, objectives and rules of procedure for the CVMP temporary Working Party (tWP) on the ADRA project

1. General considerations

According to Article 139 of Regulation (EU) 2019/6 and to the Committee for Veterinary Medical Products (CVMP) rules of procedure, temporary working parties may be established when work of a temporary or ad-hoc nature is required such as preparation of proposals on a specific scientific topic, or preparation of responses to specific questions raised by the Committee.

The CVMP has identified the need to support particular scientific or technical matters that require specialised knowledge for the 'Dose Review and Adjustment of established Antibiotics (ADRA)' project. To achieve this, it is necessary to consult a group of experts with relevant expertise: pharmacokinetic/pharmacodynamic (PK/PD) modelling on antibiotics, efficacy of antibiotics, target animal safety (TAS), withdrawal periods/withdrawal period modelling, and environmental risk assessment (ERA).

The CVMP has therefore established a temporary Working Party (tWP) to deal with specific aspects of the assessment and respond to CVMP questions related to the ADRA project.

The group will be reporting to the Committee via its Chairperson, who will keep the appointed rapporteur and co-rapporteur informed for the respective scientific advice(s) conducted under Article 141(1)(j) of Regulation (EU) 2019/6.

The tasks identified by the CVMP should be included in the work plan of each working party to be adopted by the Committee.

2. Mandate and objectives

The temporary Working Party on the ADRA project (hereafter 'ADRA tWP') is established to provide relevant expertise and input to the CVMP on matters related to the ADRA project including, but not limited to, the following tasks:

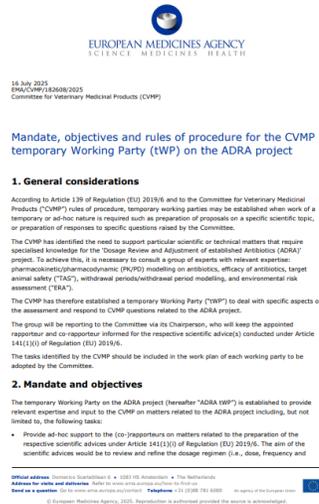
- Provide ad-hoc support to the (co-)rapporteurs on matters related to the preparation of the respective scientific advice(s) under Article 141(1)(j) of Regulation (EU) 2019/6. The aim of the scientific advice(s) would be to review and refine the dosage regimen (i.e. dose, frequency and

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ADRA temporary
Working Party
(2025-2026)

ADRA tWP

Mandate



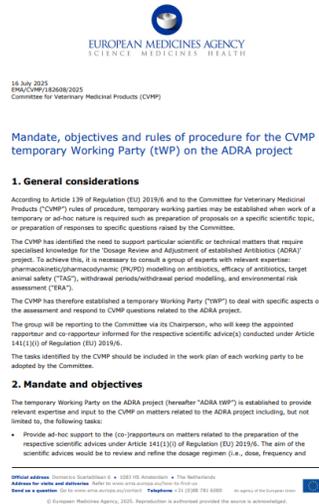
ADRA temporary
Working Party
(2025-2026)

Objective

Provide ad-hoc support related to the preparation of the respective **scientific advice procedures under Article 141(1)(i)** of Regulation (EU) 2019/6 to review:

- ***the dosage regimen (i.e., dose, frequency and treatment duration) ensuring the continued efficacy and safety of antibiotics and minimising antimicrobial resistance.***
- ***the implications that a change in the dosage regimen might have for TAS, withdrawal period, and ERA.***

Mandate



ADRA temporary
Working Party
(2025-2026)

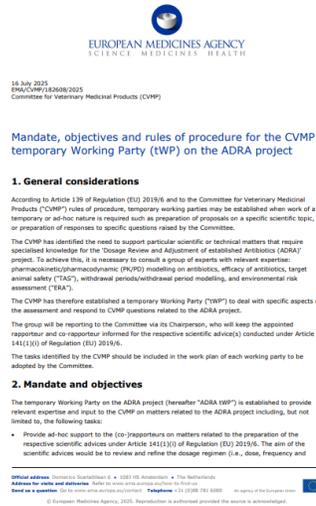
Composition

ADRA tWP is a **multidisciplinary working party**, composed of a limited number of experts. It includes 2-3 members per relevant area of expertise:

- *Pharmacokinetic/pharmacodynamic (PK/PD) modelling*
- *Efficacy of antibiotics*
- *Target animal safety (TAS)*
- *Withdrawal periods/withdrawal period modelling*
- *Environmental risk assessment (ERA)*

ADRA tWP will report to the CVMP, keeping the appointed rapporteur and co-rapporteur informed.

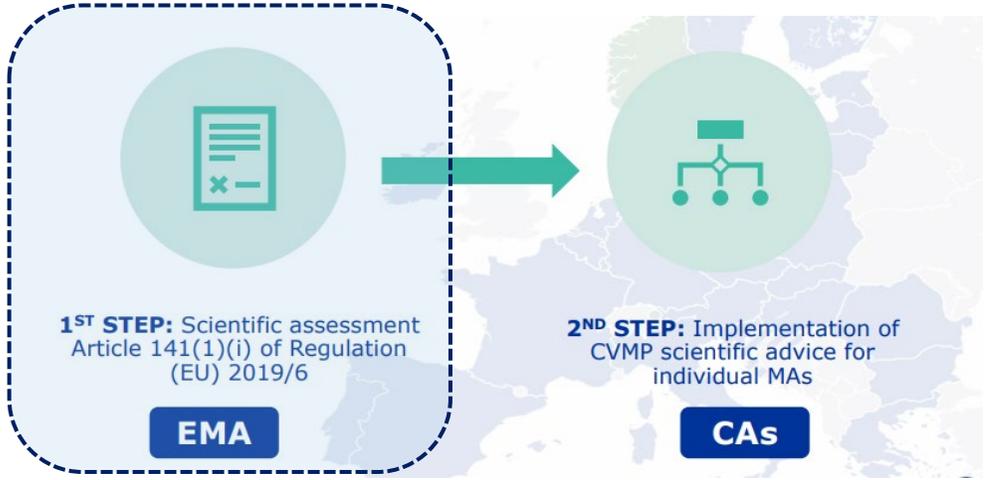
First assessment under Art. 141(1)(i)



ADRA temporary Working Party (2025-2026)

For 2026...

Art. 141(1)(i):
"CVMP shall provide scientific advice on the use of antimicrobials and antiparasitics in animals to minimise the occurrence of resistance in the Union, and update that advice when needed"



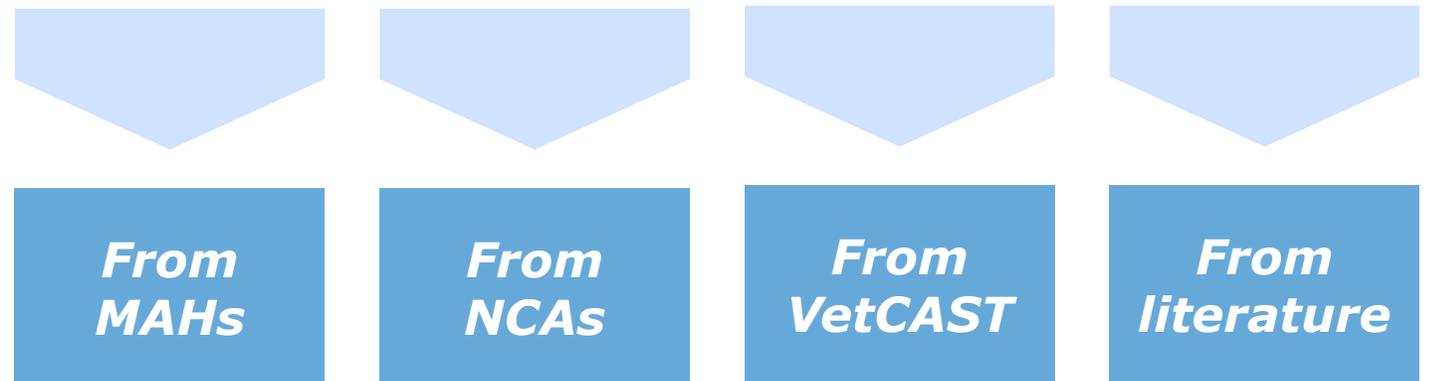
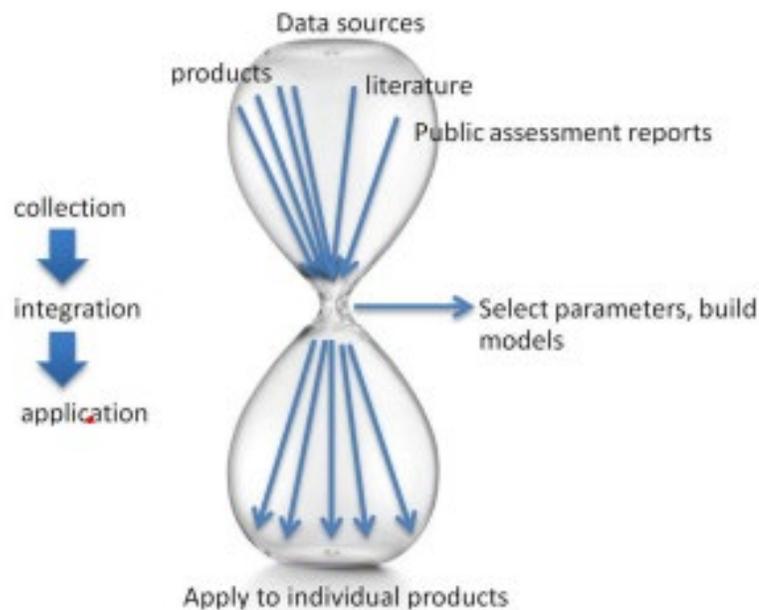
First scientific advice – concerned VMPs
"Amoxicillin (single active substance) _ pig _ oral use (in drinking water or in feed) – respiratory indications"

First assessment under Art. 141(1)(i)

For 2026

Start of review concerning veterinary medicines containing amoxicillin

Call for data closed on 19 February 2026



First assessment under Art. 141(1)(i)

Overview of data collected

Top priority of the tWP

1. PK and PD data extraction.
2. Validation of the PK/PD model.
3. Computation of the dosage regimen.

PK data for dosage regimen

- 35 studies containing **individual plasma raw data** corresponding to 430 animals (62 IV + 368 Oral)
 - **from MAH:** Ceva, Sogeval, Virbac, V.M.D, Emdoka, Dopharma, MSD, Belapharm
 - **from literature:** Anadon et al., 2006, ; Reyms et al. 2007, Krasucka et al., 2010; Menotta et al., 2012; Li et al., 2025, Rey et al., 2014 + personal data collection from Toutain et al.,

PK data for withdrawal period

- 18 studies containing **individual tissue raw data** corresponding to 157 animals
 - **from MAH:** Ceva, Virbac, V.M.D, Emdoka, Dopharma, MSD, Fatro, Vet Planet, Pharmagal, Vetoquinol

First assessment under Art. 141(1)(i)

Overview of data collected

Top priority of the tWP

1. PK and PD data extraction.
2. Validation of the PK/PD model.
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PD data for dosage regimen

- **From literature and EUCAST database:** data related to MICs distributions for relevant target pathogens
- **From VetCAST :** data related to Time-Kill Curves

Considerations related to PK/PD models

- **PD component** in relation to the indication and relevant target pathogens (e.g. MIC distribution, ECOFF)
- **PK/PD index and target values** in relation to the therapeutic objective
- **Additional considerations**
 - dosing frequency
 - duration of treatment
 - Risk of resistance (e.g. TKC, MPC)

First assessment under Art. 141(1)(i)

For 2026

- VMPs containing amoxicillin in pigs for respiratory infections -

PK/PD
integration
for dose
review and
adjustment



PK modelling
for
withdrawal
period
adjustment



scientific
review
approaches
to address
TAS and ERA

First assessment under Art. 141(1)(i)

For 2026

- VMPs containing amoxicillin in pigs for respiratory infections -

PK/PD
integration
for dose
review and
adjustment



PK modelling
for
withdrawal
period
adjustment

*_ approach using
T1/2(final phase)*

_ PBPK approach

First assessment under Art. 141(1)(i)

For 2026

- **VMPs containing amoxicillin in pigs for respiratory infections** -

PK/PD
integration
for dose
review and
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PK modelling
for
withdrawal
period
adjustment



Scientific
review
approaches
to address
TAS and ERA

First assessment under Art. 141(1)(i)

For 2026

- **VMPs containing amoxicillin in pigs for respiratory infections** -

Data from MAHs has also been received to support the reassessment once the dose will be refined:

- **ERA** _ recalculation of the PECs / RQs for the different environmental compartments
- **TAS** _ comparisons based on the data and margin of safety initially provided in MA dossiers

Scientific
review
approaches
to address
TAS and ERA

First assessment under Art. 141(1)(i)

First scientific advice to be adopted by the CVMP in **Q1 2027**

-

VMPs containing amoxicillin in pigs for respiratory infections

- Refined dosages in the PI of VMPs will further **ensure the prudent use of antibiotics** in veterinary medicine.
- The review should aim to **preserve efficacy and availability while avoiding unnecessary loss of VMPs or indications.**



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Thank you

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