



Human and veterinary pharmaceuticals regulation

Towards EU accession: Serbia's regulatory challenges, expectations and opportunities

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Republika Srbija
Ministarstvo zdravlja
Ministarstvo poljoprivrede,
šumarstva i vodoprivrede,
Uprava za veterinu

Republic of Serbia
Ministry of Health,
Ministry of Agriculture, Forestry
and Water Management,
Veterinary Directorate



EUROPEAN MEDICINES AGENCY
SCIENCE MEDICINES HEALTH

Maximum Residue Limits (MRLs) and Consumer safety

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Overview

- Consumer safety and MRLs
- Procedure for the establishment of MRLs in the EU
- Data requirements and assessment
- Implementation and residue control
- Information on MRLs made publicly available by the Agency

Consumer safety

Main principles:

- Foodstuffs obtained from animals treated with veterinary medicinal products must not contain residues which might constitute a health hazard to the consumer

Through:

- Establishment of maximum residue limits (MRLs) as pre-condition for marketing authorisation for veterinary medicinal product for food-producing animals
- Establishment of withdrawal period within marketing authorisation procedure
- Residue surveillance

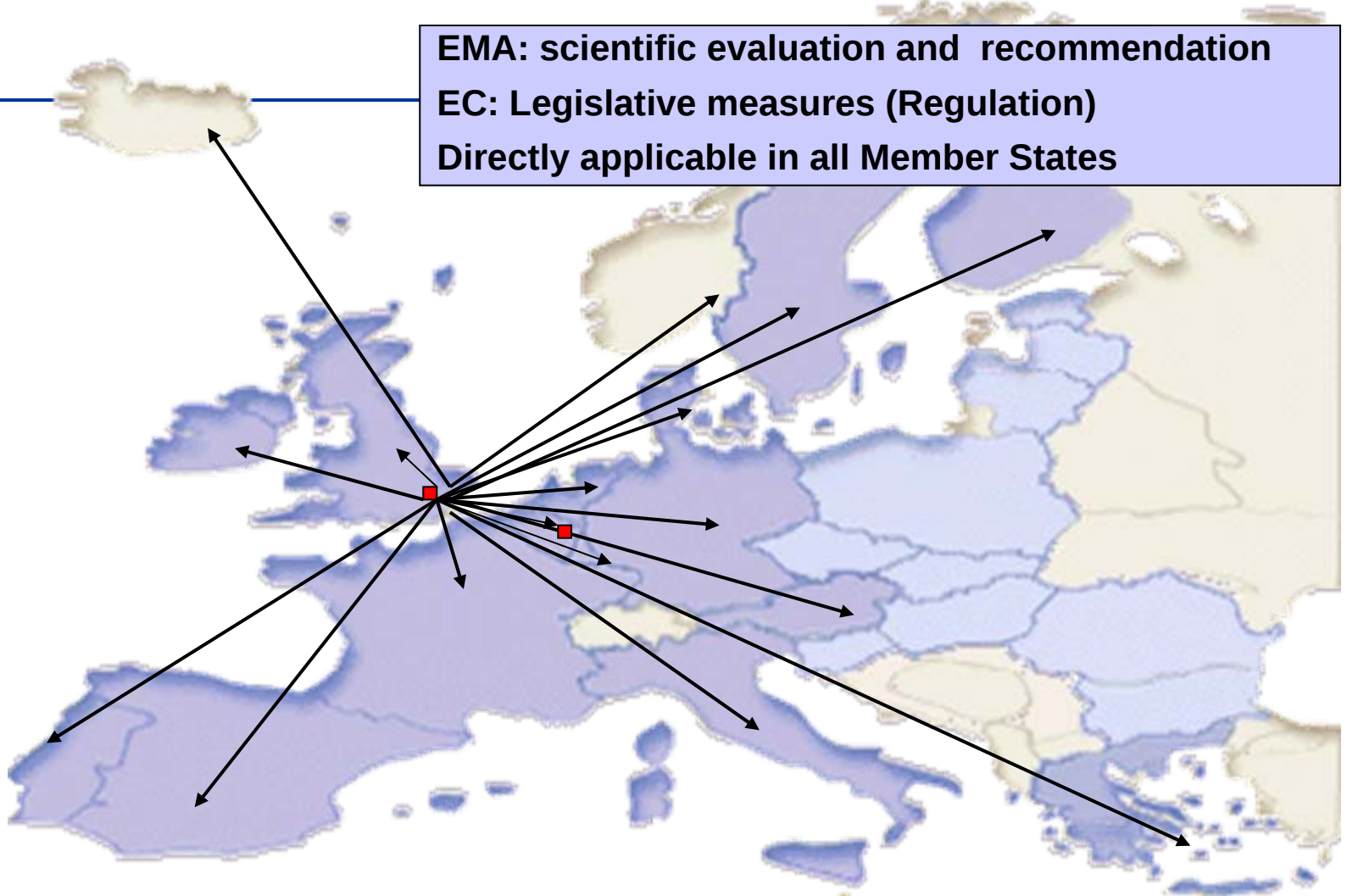
Legal basis for the establishment of maximum residue limits (MRLs)

- Regulation (EC) No 470/2009 (repealing Regulation (EEC) No 2377/90)
http://ec.europa.eu/health/files/eudralex/vol-5/reg_2009-470/reg_470_2009_en.pdf
- Defines the procedure for the establishment of residue limits of pharmacologically active substances in foodstuffs of animal origin



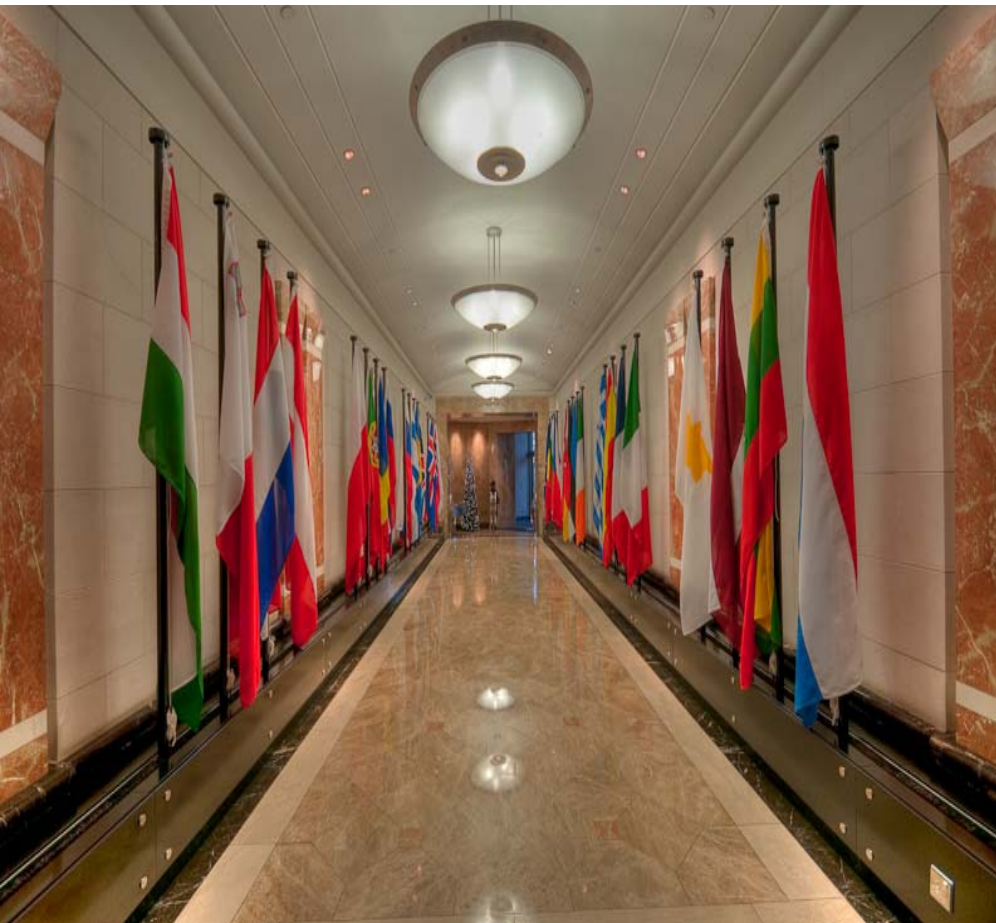
Establishment of MRLs in the EU

EMA: scientific evaluation and recommendation
EC: Legislative measures (Regulation)
Directly applicable in all Member States





European Medicines Agency role



- To provide to the European Commission with a scientific opinion with regard to the establishment of MRLs
- The opinion follows the evaluation of the safety of residues carried out by the Committee for Medicinal Products for Veterinary Use (CVMP) upon receipt of a valid application



Requests for establishment of MRLs

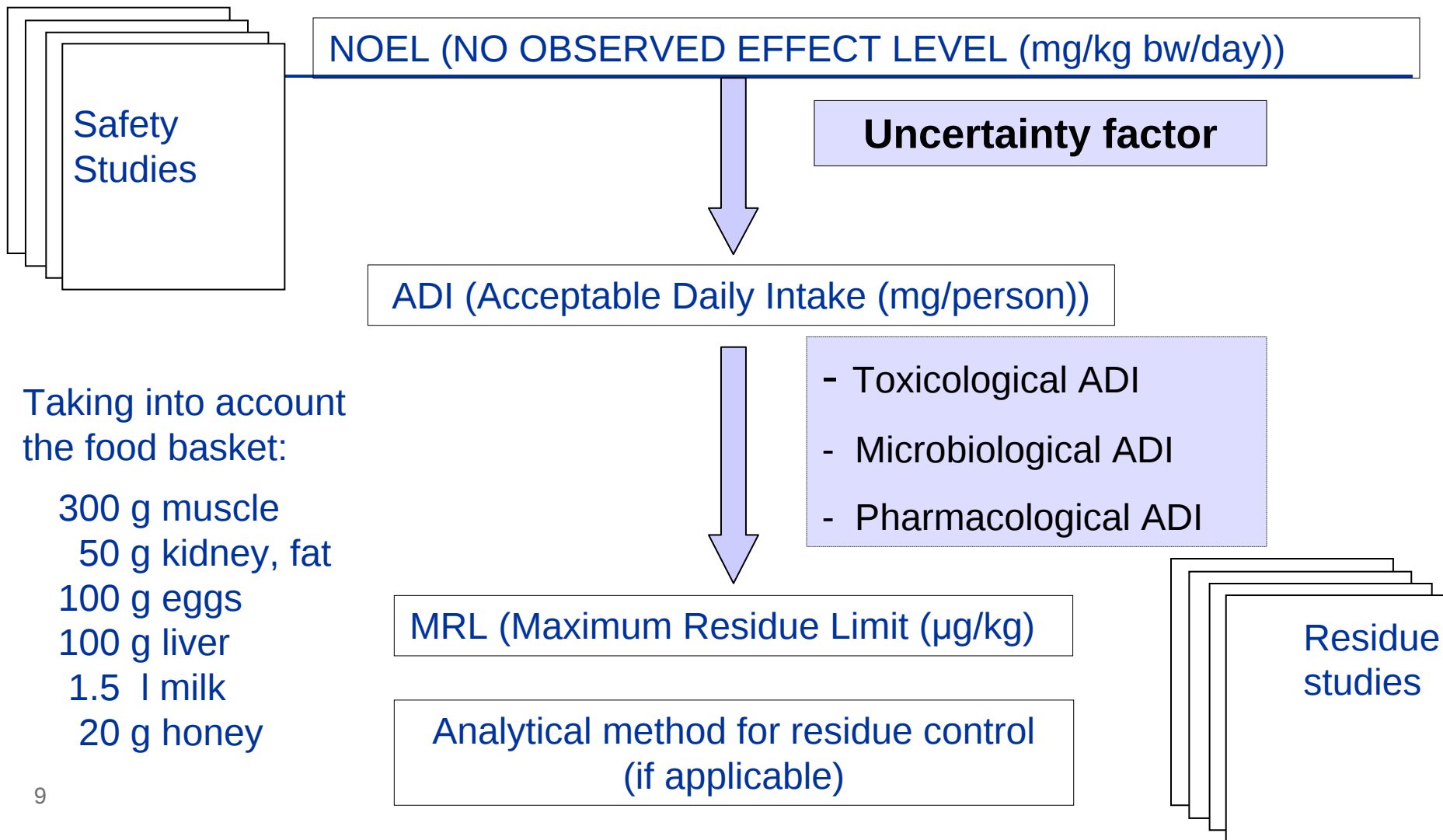
Requests can be submitted to the EMA by:

- A company with the aim to establish a MRL for a new substance, a new species or a new food commodity
- The European Commission or a Member State for:
 - A substance included in a product authorised in a non-EU country
 - A substance included in a veterinary medicine used in a different animal species

Data requirements for establishment of maximum residue limits

- **Implementation rules** to be established by European Commission further to Article 13 of Regulation 470/2009 – in the meantime Annex V of Regulation 2377/90 applies
- **Volume 8** of the Notice to Applicants and Guideline: establishment of maximum residue limits – currently under review to take into account the new MRL Regulation
- **CVMP Guidelines** on how to carry out the studies on pre-clinical safety and residue depletion

Principles of MRL evaluation



CVMP evaluation

(1/4)

- Rapporteurs are appointed following receipt of a letter of intent for submission of an application
- EMA checks conformity of the dossier within 10 days of receipt according to legal requirements and validates the dossier
- Rapporteurs assess the data and produce an assessment report
- Other CVMP members comment on the assessment report
- Peer reviewers scrutinise the scientific content of the report

CVMP evaluation (2/4)

- Consideration of possibility for extrapolation of MRLs during the assessment
- Consultation of Community Reference Laboratories (CRLs) with regard to the analytical method proposed by the applicant for monitoring purposes





CVMP evaluation (3/4)

Analytical methods

- With the application for the establishment of MRLs the company must submit an analytical method for monitoring of residues.
- The suitability of the analytical method is one of the evaluation criteria.



CVMP evaluation

(4/4)

Collaboration with the European Food Safety Authority (EFSA)

- The CVMP opinion has to take into account any relevant scientific findings of the European Food Safety Authority (EFSA) (dual use substances: pesticides, feed additives, food additives)



Possible outcome of evaluation (1/2)

Positive

- MRLs established
- Provisional MRLs established with a deadline to resolve outstanding issues
- MRLs not required for protection of public health



Possible outcome of evaluation (2/2)

Negative

- No MRLs established as no safe limit can be identified
- No MRLs established as no final conclusion concerning the effect on human health can be drawn

Maximum residue limits (MRLs) established in the EU

Regulation (EC) No 37 / 2010

Alphabetical list of pharmacologically active substances,
including marker residue, target species, MRL values/status,
target tissues, other provisions and therapeutic classification

http://ec.europa.eu/health/files/eudralex/vol-5/reg_2010_37/reg_2010_37_en.pdf

- Table I : Allowed substances
- Table II: Forbidden substances

MRLs in the Official Journal

20.1.2010

EN

Official Journal of the European Union

L 15/3

ANNEX

Pharmacologically active substances and their classification regarding maximum residue limits (MRL)

Table 1
Allowed substances

Pharmacologically active Substance	Marker residue	Animal Species	MRL	Target Tissues	Other Provisions (according to Article 14(7) of Regulation (EC) No 470/2009)	Therapeutic Classification
Abamectin	Avermectin B1a	Bovine	10 µg/kg 20 µg/kg	Fat Liver	NO ENTRY	Antiparasitic agents/Agents acting against endo- and ectoparasites
		Ovine	20 µg/kg 50 µg/kg 25 µg/kg 20 µg/kg	Muscle Fat Liver Kidney	Not for use in animals from which milk is produced for human consumption.	
Absinthium extract	NOT APPLICABLE	All food producing species	No MRL required	NOT APPLICABLE	NO ENTRY	NO ENTRY
Acetyl cysteine	NOT APPLICABLE	All food producing species	No MRL required	NOT APPLICABLE	NO ENTRY	NO ENTRY
Acetylmethionine	NOT APPLICABLE	All food producing species	No MRL required	NOT APPLICABLE	NO ENTRY	NO ENTRY

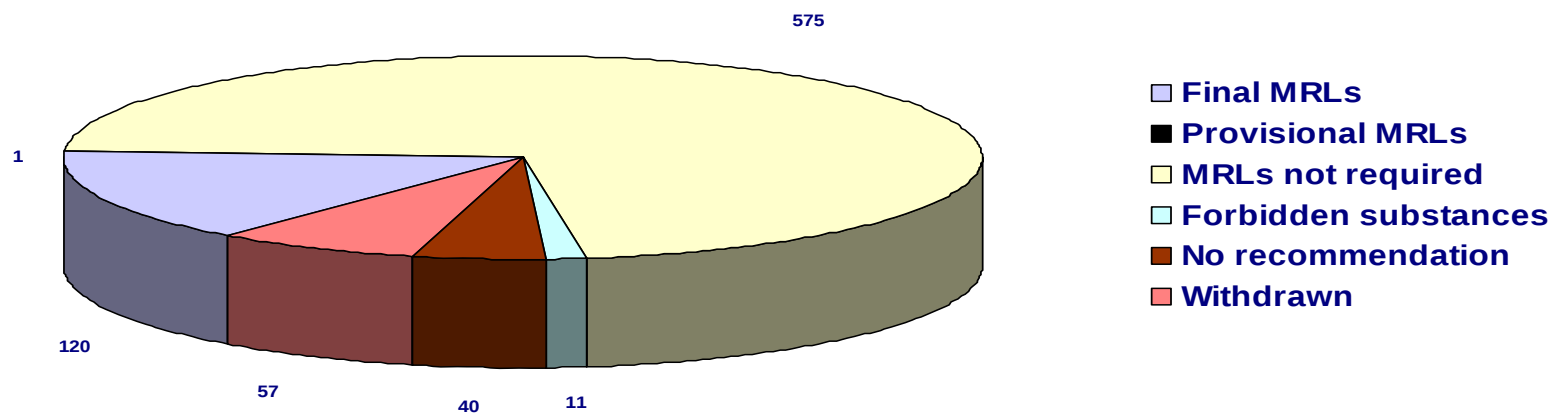
Forbidden substances

- *Aristolochia* spp and preparations thereof
- Chloramphenicol
- Chloroform
- Chlorpromazine
- Colchicine
- Dapsone
- Dimetridazole
- Nitrofurans (including furazolidone)
- Ronidazole

Overview of MRLs established in the EU

Over 800 substances assessed by CVMP

CVMP recommendations





Implementation and residue control

- Following publication of MRLs in the Official Journal of the European Communities (OJ): the analytical method is submitted to the Community and national Reference Laboratories (if relevant)
- The **responsibility** for monitoring residues of veterinary medicinal products in foodstuffs of animal origin lies with the **competent authorities** of the EU **Member States**



Consumer safety / marketing authorisations

In order to obtain a marketing authorisation, all pharmacologically active substances, included in the product intended for food-producing animals must undergo an evaluation of the safety of residues

No marketing authorisation if no MRL established



Other aspects of the new MRL Regulation

- Establishment of MRLs for **biocides** used in animal husbandry
- Codex MRLs retained as EU MRLs as far as agreed by EU at Codex Commission level
- Establishing **Reference Points for Action** to ensure functioning of control when no MRL is established



Information on MRLs

Information is available on the Agency's website

<http://www.ema.europa.eu/>

- Summary opinions
- Opinions
- European Public MRL Assessment Reports (EPMARs)
- Guidelines

Queries on MRLs: mrl@ema.europa.eu



SUMMARY

- MRLs are established at Union level only and are directly applicable in all Member States
- Agency: scientific evaluation ➡ recommendation to the European Commission
- European Commission: Legislative measures
- Member States: Monitoring (EC coordination)
- No MRLs: no marketing authorisation for medicines intended for food producing species



Thank you for your attention