Cascade use



Guide for veterinarians

if NO authorised veterinary medicine is available

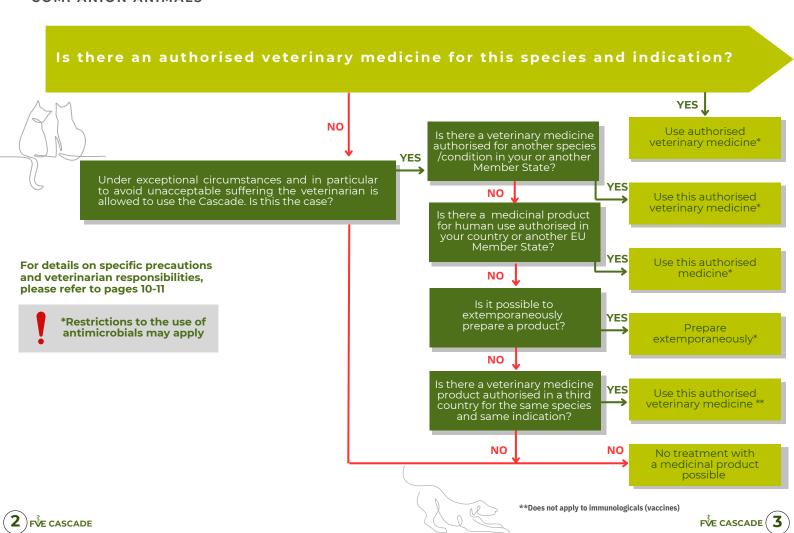


For any questions or comments, please feel free to contact us.

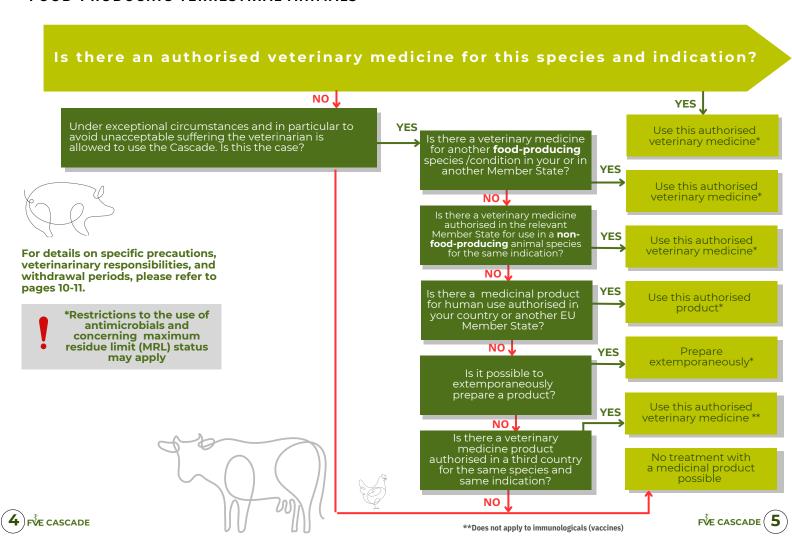
Rue Victor Oudart 7, 1030 Brussels Email: info@fve.org Website: www.fve.org







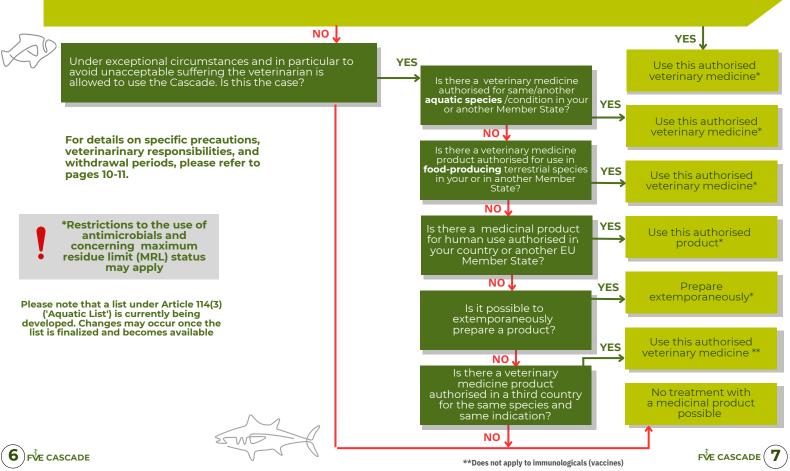
FOOD-PRODUCING TERRESTRIAL ANIMALS

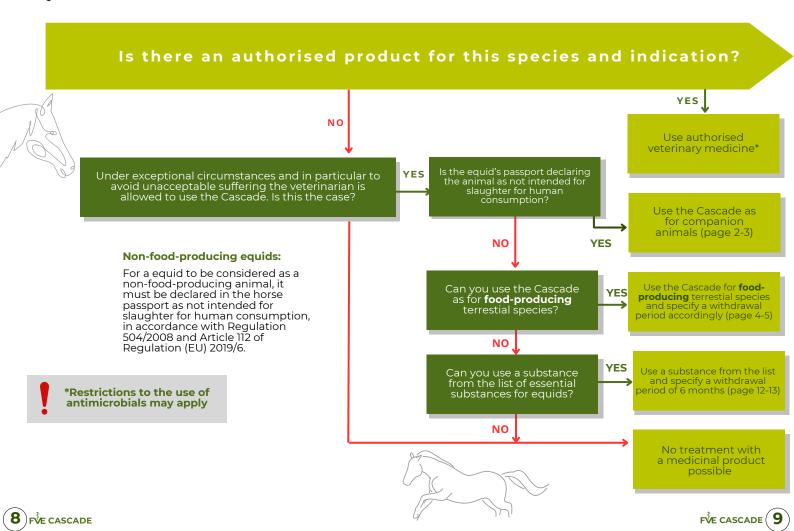


FOOD PRODUCING AQUATIC ANIMALS



Is there an authorised veterinary medicine for this species and indication?





Responsibilities, Record-Keeping, and Product Use for Food-Producing and Companion Animals

Record-Keeping Guidelines and responsibility of the veterinarian

Veterinary responsibility: The use of the cascade is always the veterinarian's direct responsibility.

Record keeping: The veterinarian has to keep records for minimum 3 years (see law in your country)

- Date of examination
- Details of the owner
- Species
- Number of animals treated
- Diagnosis
- Medicinal product prescribed

and for food-producing animals:

- Doses administered
- Duration of treatment
- Recommended withdrawal period

How to Calculate the Withdrawal Period for Food-Producing Animals?

Withdrawal periods, as specified in Regulation (EU) 2019/6, Article 115, must be adhered to.

When determining the withdrawal period, follow these steps:

1.Check Regulation (EU) No 37/2010:

Verify whether the active substance is allowed for use in **food-producing** animals (see Table 1). Ensure the substance is permitted for the specific species and target tissues.

2.If the substnace is listed in regulation (EU) N° 37/2010 but not for such specie or such target tissues, refer to Regulation (EU) N° 2017/880

Follow the conditions outlined for extrapolation of withdrawal periods.

3. If no withdrawal period is established under the above regulations, apply the following minimum withdrawal periods:

For meat and offal:

- The longest withdrawal period provided in its summary of the product characteristics multiplied by 1.5, or
- 28 days for meat and offal if the medicinal product is not authorised for foodproducing animals, or
- 1 day if the medicinal product has a zero withdrawal period and is used in a different taxonomic family.

For milk:

- The longest withdrawal period provided in the summary of the product characteristics multiplied by factor 1.5. or
- 7 days if not authorised for animals producing milk for human consumption, or
- . 1 day if the medicinal product has a zero withdrawal period.

For eggs:

- The longest withdrawal period provided in the summary of the product characteristics for any animal species multiplied by factor 1.5. or
- 10 days if not authorised for animals producing eggs for human consumption

For fish meat, the withdrawal period must be at least:

- Longest withdrawal period for any aquatic species multiplied by 1.5 and expressed as degree-days, or
- 500 degree-days, if not authorised for food-producing animal species, or
 25 degree-days, if the highest withdrawal period for any species is zero.

Use of Third-Country Veterinary Products

Veterinarians may use products authorised in a **third country*** for the same species and indication only when all previous options have been exhausted. Import of immunological products (vaccines) from third countries is not allowed.

A competent authority may permit the use of non-EU-authorised immunological veterinary products:

- During an outbreak of a listed disease (Article 5, Regulation 2016/429) or an emerging disease (Art 6, Regulation 2019/6).
- When the authorised product for an existing, non-listed disease in the Union is no longer available, to protect animal health, welfare, and public health.

Member State Availability or Shortage:

The Cascade can also be used if no product is temporarily available e.g. a shortage due to a supply issue in the veterinarian's Member State.

Use of antimicrobial medicinal products Art 107(6)

- Antimicrobials must not be used routinely or to compensate for poor hygiene, care, or farm management.
- Antimicrobials cannot be used to promote growth or increase yield in animals.
- **Prophylaxis restrictions**: Allowed only in exceptional cases for individual animals or small groups at high risk of severe infection.
- Metaphylaxis conditions: Permitted only when the risk of infection spread within a group is high, and no alternatives are available. Member States should provide guidance and promote criteria for its use.
- **Human-reserved antimicrobials**: Substances designated under Article 37(5) are not allowed to be used as per Articles 112, 113, and 114.



* For the purposes of the Cascade, Iceland, Liechtenstein, and Norway are not considered third countries.



List of substances which are essential for the treatment of equine species

Anaesthesia, analgesics and substances used in association with anaesthesia

· Sedation and premedication:

- Acepromazine
- Atipamezole
- Diazepam
- Flumazenil
- Midazolam
- Naloxone
- Propofol
- Sarmazenil
- Tiletamine
- Zolazepam

Hypotension or respiratory stimulation during anaesthesia:

- Dobutamine
- Dopamine
- Ephedrine
- Glycopyrrolate
- Noradrenaline (norepinephrine)

· Analgesia:

- Buprenorphine
- Fentanvl - Morphine
- Pethidine

· Muscle relaxants and associated substances:

- -Atracurium
- Edrophonium
- Guaifenesin

· Inhalation anaesthetics:

- Sevoflurane
- · Local anaesthetics
- Bupivacaine
- Oxvbuprocaine
- Prilocaine

Anti-inflammatory substances

Corticosteroids

- -Triamcinolone acetonide
- Flumethasone
- Anti-endotoxins
- Pentoxifvlline
- Polymyxin B

- Amiodarone
- Allopurinol
- Vasopressin
- Digoxin
- Ouinidine sulfate and quinidine gluconate
- Procainamide
- Propranolol

- Phenytoin
- Primidone

- Bethanechol
- Codeine
- Loperamide
- Metoclopramide
- Phenoxy-benzamine
- Propantheline bromide
- Ranitidine
- Sucralfate

Rhabdomvolvsis

-Dantrolene sodium

- Klebsiella spp. Infections:
- Ticarcillin
- · Rhodococcus equi infections:
- Azithromycin
- Rifampicin
- Septic arthritis
- -Amikacin

- Ambroxol
- Budesonide
- Fluticasone
- Ipratropium bromide
- Oxymetazolin

- Isometamidium
- Ponazuril
- Pvrimethamine

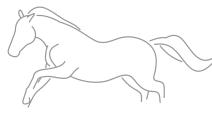
Ophthalmic medicines

Ocular ulcers

- Acvclovir
- Idoxuridine

Glaucoma

- Phenylephrine
- Tropicamide
- Dorzolamide - Latanoprost
- Timolol maleate
- Cyclosporin A
- Ketorolac
- Ofloxacin
- Fluoresceine
- Rose Bengal



Hyperlipaemia

- Insulin

- Griseofulvin
- Ketoconazole - Miconazole
- Nystatin

Diagnostic imaging

- Radiopharma-ceutical Tc99m

- Carbamazepine
- Cyproheptadine
- Domperidone
- Gabapentin
- Hvdroxvethvl-starch
- Imipramine
- Thyrotropin releasing hormone
- Barium sulphate
- Iohexol
- lopamidol

Commission Regulation (EU) No 122/2013

Please note that this list is currently being revised. Once the new list is adopted and becomes available this page will be updated.

Antimicrobials or groups of antimicrobials reserved for treatment of certain infections in humans

Antibiotics

- -Carboxypenicillins
- -Ureidopenicillins
- -Ceftobiprole
- -Ceftaroline
- -Combinations of cephalosporins with beta-
- lactamase inhibitors
- -Siderophore cephalosporins
- -Carbapenems
- -Penems
- -Monobactams
- -Phosphonic acid derivates
- -Glycopeptides
- -Lipopeptides
- -Oxazolidinones
- -Fidaxomicin
- -Plazomicin
- -Glycylcyclines
- -Eravacycline
- -Omadacycline

Antiprotozoals

-Nitazoxanide

Antivirals

- -Amantadine
- -Baloxavir marboxil
- -Celaosivir
- -Favipiravir
- -Galidesivir
- -Lactimidomycin
- -Laninamivir
- -Methisazone/metisazone
- -Molnupiravir
- -Nitazoxanide
- -Oseltamivir
- -Peramivir
- -Ribavirin
- -Rimantadine
- -Tizoxanide
- -Triazavirin
- -Umifenovir
- -Zanamivir



Commission Implementing Regulation (EU) 2022/1255



List of antimicrobials which shall only be used under restrictions in cascade

Conditions on the use of antimicrobials	Target pathogen identification and AST	Restricted around certain indications	Restricted to use for certain indications only	Restricted from use in certain species	Use in individual animals only	Restriction on route of administration	HMPs only for use in individual animals
Aminopenicillin- BLI combinations	\checkmark			X			
3rd & 4th gen. cephalosporins	\checkmark	Salmonella		X	\checkmark		
Polymyxins	\checkmark	Salmonella				✓	\checkmark
Amphenicols	\checkmark						
(Fluoro)quinolones	✓	Salmonella				✓	\checkmark
Rifamycins (excl. EU-VMPs)	\checkmark	Prophylaxis R. equi	Mycobacteria MDR Staph		\checkmark		
TB drugs	\checkmark				✓		
Riminofenazines	✓				✓		
Pseudemonic acids	\checkmark	Not for decolonisation	MRSA/P		\checkmark	Topical only	
Remdesivir			FIP only				
Echninocandins	\checkmark	Last resort			\checkmark		
Amphotericin B		Last resort					