



## Disseminating Innovative Solutions to Antibiotic Resistance Management

### General

#### #FreeFriday

World Antimicrobial Awareness Week, 18-24 November 2020: [read more](#).

Check out the HealthforAnimals [Roadmap to Reducing the Need for Antibiotics](#).

#### #StoryWednesday

Congratulations to the livestock farmers and veterinarians out there in the European field! Yesterday, 21/10/2020, EMA, the European Medicine Agency, published its tenth ESVAC report on veterinary antimicrobial consumption across Europe. It is nice to share the good news that the collective efforts to reduce the use of antimicrobials is succeeding.

Between 2011 and 2018, overall sales of veterinary antimicrobials have decreased by more than 34% and especially a decreasing trend in sales of critical antibiotics for human medicine has been observed! -70% for polymyxins, -24 % for 3rd and 4th generation cephalosporines, -4% for fluoroquinolones and -74% for other quinolones.

And still we can be confident on managing further reduction of AMU as considerable variation in sales of antimicrobials has been observed amongst participating member states! [Latest ESVAC report](#).

ANSES just [published the results of use of antibiotics in farming in France](#) that show a continuous decrease for several years, and -10.8% of use in 2019 vs 2018. Prudent use of antibiotics is now part of the farm management.

[The UK also published their results](#).

## 3 WAYS TO REDUCE THE NEED FOR ANTIBIOTICS IN ANIMALS

**PREVENTION** is our first line of defense and best way to reduce the need for antibiotics. We can do it through:



**Vaccination**



**Biosecurity**



**Overall health & wellbeing**

If an animal does become ill, early **DETECTION** is critical to identify the most appropriate treatment and to limit its spread to other animals. This is achieved with:



**Monitoring**



**Diagnostics**

When a bacterial infection strikes, there is no alternative to antibiotics. However, we can reduce the need for further **TREATMENT** by using 'as little as possible, as much as necessary.' This is known as:



**Responsible use**

**We can reduce the need for antibiotics through better PREVENTION – DETECTION – TREATMENT**

HealthforAnimals  
global animal health association

#### #MakeItEasyTuesday

**#Biosecurity:** [Watch the introduction of Biocheck Ugent](#).



## #FreeFriday

The 14th edition of the IDF Animal Health Report published today - illustrates the importance of animal health and welfare for [#sustainable](#) [#dairy](#) production, providing information and practical insight. [Download your free copy here.](#)



## Cattle



## #QuestionTuesday

**#PrecisionLivestock:** Which of the following technologies has the most potential to improve cattle health and welfare in the future?

[Check these out!](#)

- Bioinformatics (8 votes)
- Sensor technology (6 votes)
- Camera tech and machine vision (4 votes)
- Robotics (0 votes)

## Pigs

### #MakeItEasyTuesday

Here is a video where you can find some useful advices regarding [#biosecurity](#) in a pig farm.



**#Housing:** How do you maintain an optimal stable climate? A best-practice example is shown in the following video.



## #StudyMonday

Reducing antibiotics: Do we need refocus or attention? Read the article [here](#).

**#Abfeed:** In her PhD research, at ILVO and Universiteit Gent Faculteit Diergeneeskunde, Annatachja De Grande compared inorganic vs. organic zinc sources on performance and health in broilers. She found that organic zinc supplementation (as a complex with an amino acid) led to better performance, better gut health and better meat quality, especially for broilers experiencing stress, for example from high environmental temperatures. [link](#)

**#ABfeed:** [This is an interesting feed innovation](#) (in Dutch) to combat gut pathogens in piglets causing post weaning diarrhoea. This Flemish biotech spin-off company will produce in-feed antibodies similar to those in colostrum, to support the immune response in young weaned piglets.

**#Abfeed:** This is a [nice article](#) (in Dutch) from a Belgian Feed Company, fully investing in a farm specific improvement approach to overcome the ban on Colistin and ZnO in weaned piglet feed from next year onwards.

# Poultry

## #StudyMonday

**#ABfeed:** Can food influence behaviour, health or the microbiome in animals? Professor Annemarie Rebel of Wageningen University & Research studies chickens to find out more about the connections. [Video](#)



## CoP Activity

Current Members: 438

New members in the spotlight

*Hello, I am Mr Chatain, executive assistant and sales manager for Vetophage, a French start-up specializing in the field of animal health and fighting against antibiotic resistance.*

*I am happy to join this group, Vetophage is fighting in France for the rehabilitation of phage therapy and we are working for animal health.*

*We are always looking for partnerships or contacts in order to offer new solutions.*

*We are currently focused on bovine mastitis and we would need a network in Germany to obtain various samples from dairy cows. (Milk, straw, water).*

*If you have problems with bovine mastitis and you are located in Germany, you can get in touch with us via the email on the [Vetophage website](#). We will discuss the shipping formalities together.*

*Thank you so much.*

*Mr Chatain*

*Duncan Williams recently presented the findings of his Nuffield scholarship: [Dairy Antibiotics, Achieving Sustainable Use](#). While it is not peer reviewed research it has shown him how complex this issue is, and how we need collaboration across the industry to achieve solutions. He welcomes comments and discussion.*

*[Link to presentation](#)*

## Get Involved

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