



Plan Nacional Resistencia Antibióticos



Workshop

Control of Antibiotics Use and Surveillance of Clinical Pathogens in Veterinary in Europe

Spanish Agency of Medicines and Medical Devices, Madrid, Spain
29-30 October 2018

Plans to voluntarily reduce the consumption of antibiotics in Animal Health

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Why was an action plan necessary in Spain?



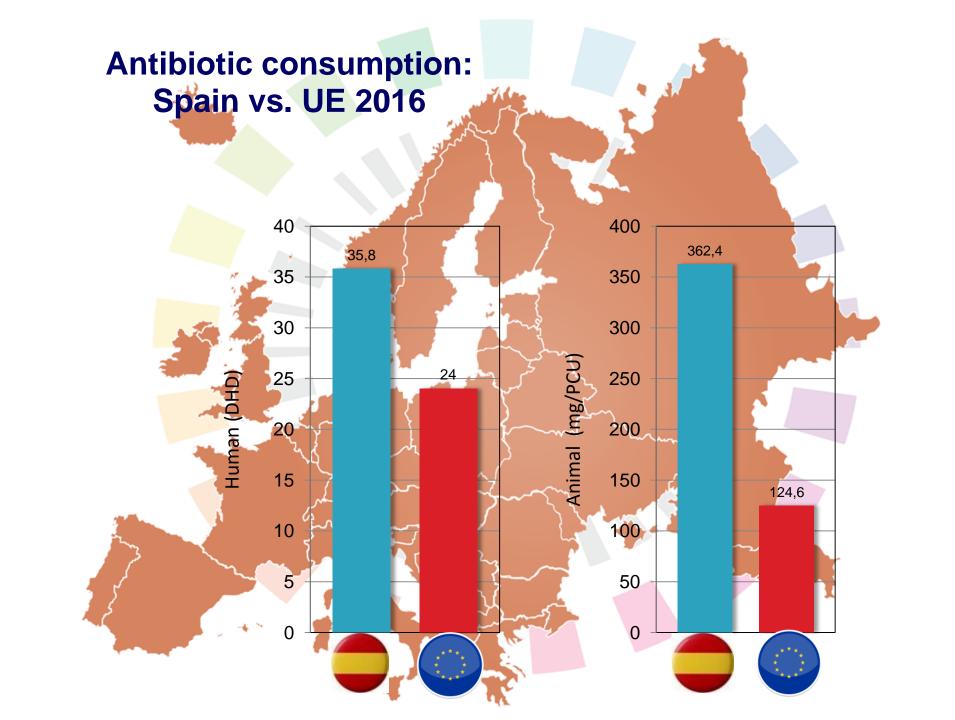


1 out of 2 in Spain believe that antibiotics cure flu and 6% self-medicate with them

the use of antibiotics considered critical for human health in animals is still common









Plan Nacional Resistencia Antibióticos

Objective of the Plan:

Reduce the contribution of the use of antibiotics in human and veterinary medicine to bacterial resistance and its consequences on health

Preserve in a sustainable way the existing therapeutic arsenal

ONE HEALTH approach

We are all part of the PRAN



8 Ministries: Health, Agriculture, Economy, Education, Local Government, Defense, Science, Ecological Transition

All the Autonomous Communities

+70 scientific societies, collegiate organizations, universities and professional associations

+ 300 experts



1ª EDITION 2014-2018

2º EDITION 2019-2021



SURVEILLANCE OF VETERINARY ANTIBIOTICS CONSUMPTION



ESVAC-ES Project: Harmonized data collection of SALES of veterinary antibiotics in 30 Member States of the U. E.

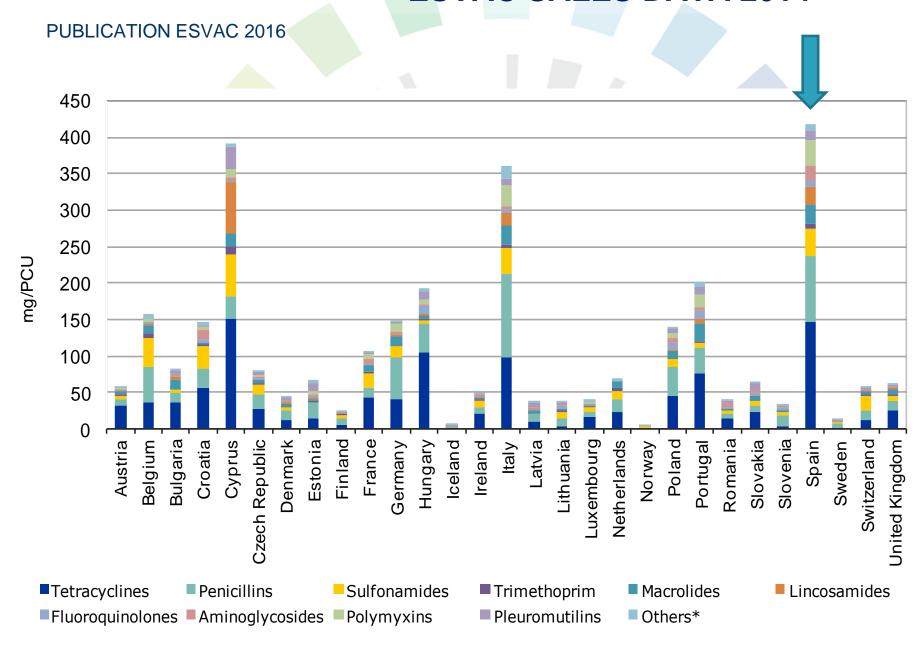
Collect sales of:

Marketing authorization holders, wholesalers, retailers, pharmacies and livestock associations.

The report is published annually (October) referring to consumption of two years before.

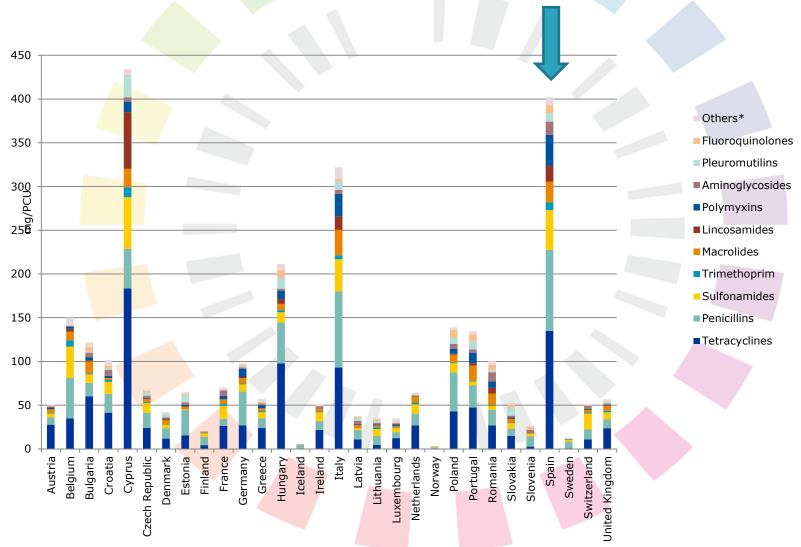
It is currently the only consumption surveillance system established in Spain (until January 2019)

ESVAC SALES DATA 2014



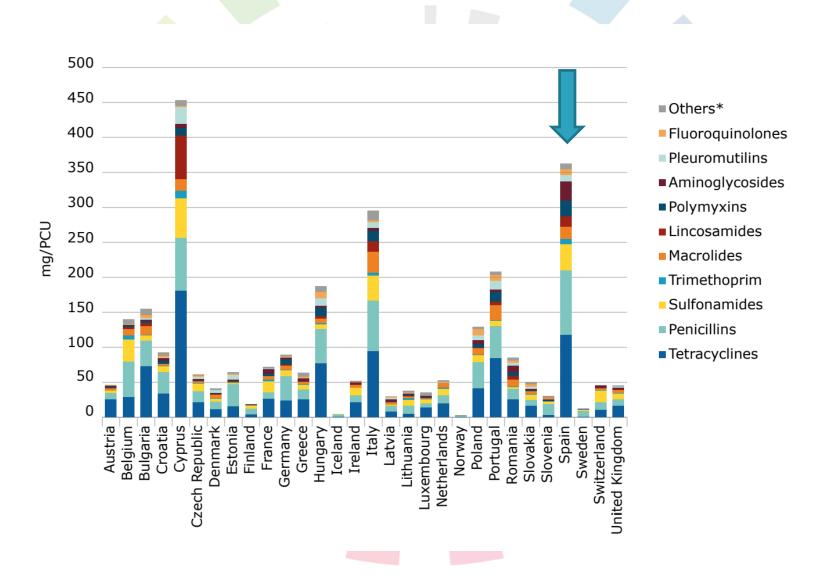
ESVAC SALES DATA 2015

PUBLICATION ESVAC 2017

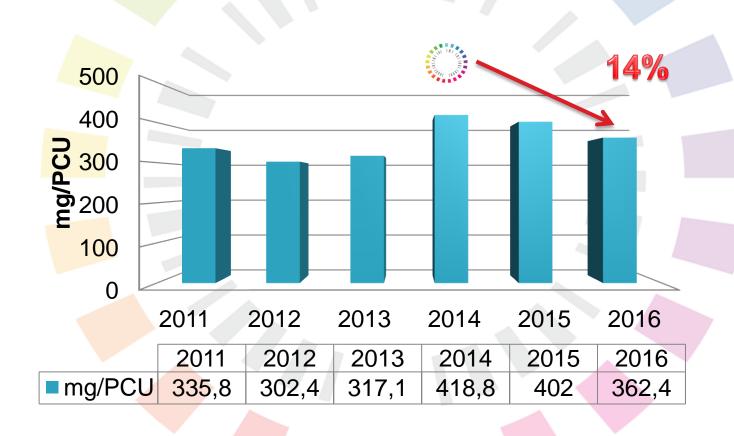


ESVAC SALES DATA 2016

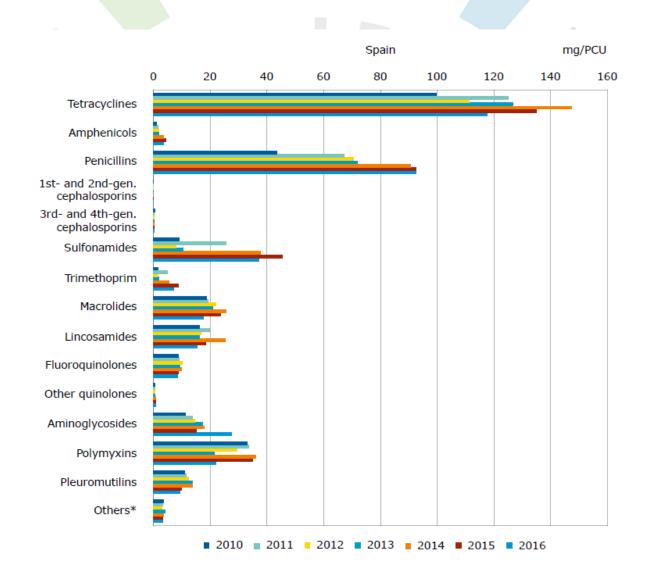
PUBLICATION ESVAC: 15 octubre 2016



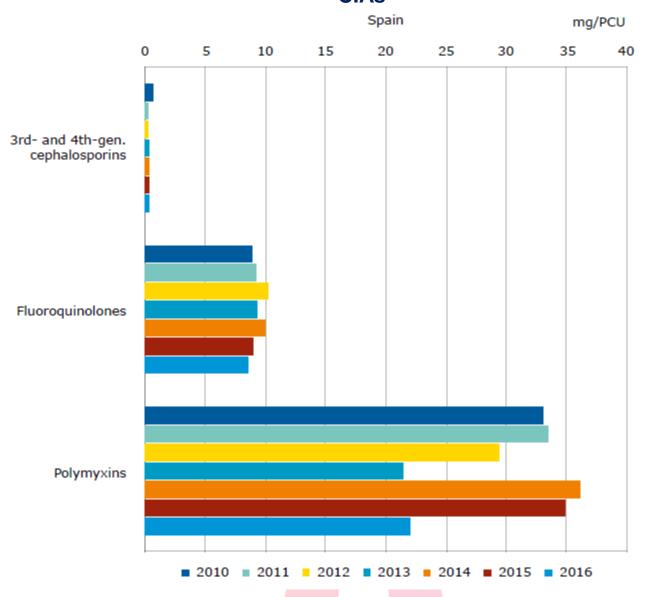
EVOLUTION OF VETERINARY ANTIBIOTIC CONSUMPTION (mg/PCU)



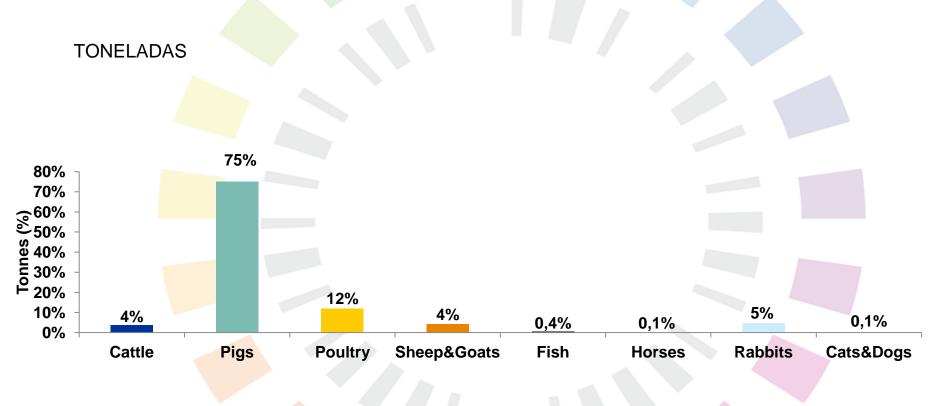
SITUATION OF THE CONSUMPTION OF VETERIANRY ANTIBIOTICS



SITUATION OF THE CONSUMPTION OF VETERIANRY ANTIBIOTICS CIAs

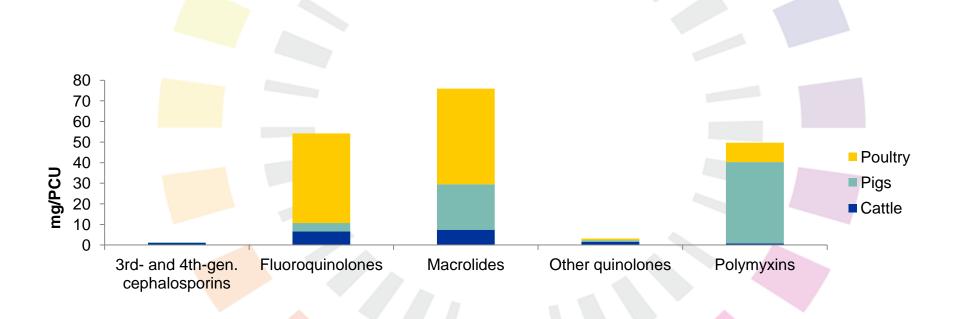


SITUATION OF THE CONSUMPTION OF VETERIANRY ANTIBIOTICS YEAR 2016



SITUATION OF THE CONSUMPTION OF VETERIANRY ANTIBIOTICS YEAR 2016





PRAN in Animal Health: Plans to voluntarily reduce the consumption of antibiotics in Animal Health ORTANT SECTOR OF ANIMAL PRODUCTION IN SPAIN GREAT CAPACITY OF IMPROVEMENT INTEGRATION

PRAN in Animal Health:

Plans to voluntarily reduce the consumption of antibiotics in Animal Health

THE CASE OF COLISTIN



In veterinary medicine, colistin was widely used, especially for controlling diarrhea in pigs after weaning.



In human medicine, treatment options are limited for patients infected with resistant bacterias such as carbapenem-resistant Enterobacteriaceae and Acinetobacter spp. Colistin is "old" antibiotic that have been reintroduced to human medicine to treat multi-resistant infections.



Emergence of the mcr-1 gene, which confers resistance of the enterobacteria to colistin. This mcr-1 gene, apart from China, has been isolated in more countries in Europe (Holland, France, United Kingdom, Denmark, Spain and Portugal) and also in the USA, which is showing its worldwide distribution.



On July 27, 2016, the EMA (European Medicines Agency) stablished a maximum use threshold of 5 mg / PCU, which must be reached by the Member States in a period of three years, 1mg / PCU being the ideal goal.



COLISTIN CONSUMPTION (mg/PCU): consumption of COLISTIN in Spain, based on ESVAC analysis about sales of veterinary antibiotics.

Spain, in the ESVAC sales report of 2014, presented the highest consumption of colistin, 37 mg / PCU and also the highest total consumption of veterinary antibiotics. In 2015 it dropped to 35 mg / PCU.

How much colistin do we consume?

COLISTIN SALES LEVEL IN 2014 IN COUNTRIES WITH THE SAME LEVEL OF SWINE PRODUCTION:

Denmark: 0.5 mg / PCU Netherlands: 0.9 mg / PCU

France: 6 mg / PCU Germany: 13 mg / PCU

Spain: 37 mg / PCU





Agreement for Voluntary Reduction of Colistin Consumption in Porcine Sector

Taking into account all the antecedents, on September 15, 2016, representatives of the national associations of veterinarians and professionals of the swine production sector met in the headquarters of the AEMPS, with the objective of preparing an agreement to reduce the consumption of colistin



Agreement for Voluntary Reduction of Colistin Consumption in Porcine Sector

Programa
Reduce
Colistina



Agreement for Voluntary Reduction of Colistin Consumption in Porcine Sector

 members: associations of veterinarians and professionals of the swine production sector

- Asociación de Veterinarios de Porcino de Aragón (A.V.P.A)
- Asociación de Veterinarios de Porcino de la Región de Murcia (AVEPOMUR)
- Asociación Gallega de Veterinarios de Porcino (AGAVEPOR)
- Asociación Nacional de Porcinocultura Científica (ANAPORC)
- Asociación Nacional de Productores de Ganado Porcino (ANPROGA
- Asociación Nacional de Veterinarios de Porcino (ANAVEPOR)
- Asociación Nacional de veterinarios de Porcino Ibérico (ANVEPI)
- Associació Catalana de Fabricants de Pinsos (ASFAC)
- Associació de Veterinaris de Porci de Catalunya (AVPC)
- Asociación de Veterinarios de Porcino de Castilla y León (AVEPORCYL)
- Confederación Española de Fabricantes de Alimentos Compuestos Para Animales (CESFAC)
- Cooperativas Agroalimentarias.





Agreement for Voluntary Reduction of Colistin Consumption in Porcine Sector: *MAIN OBJECTIVES*

The main objectives of the agreement are the following:



Reduce the consumption of colistin in pig production. The reduction will be established in sections, with the quantitative target of 5 mg / PCU in the maximum period of three years.



To control the alternative consumption of antibiotics, avoiding the increase in the consumption of neomycin and / or apramycin as a possible substitution to colistin.





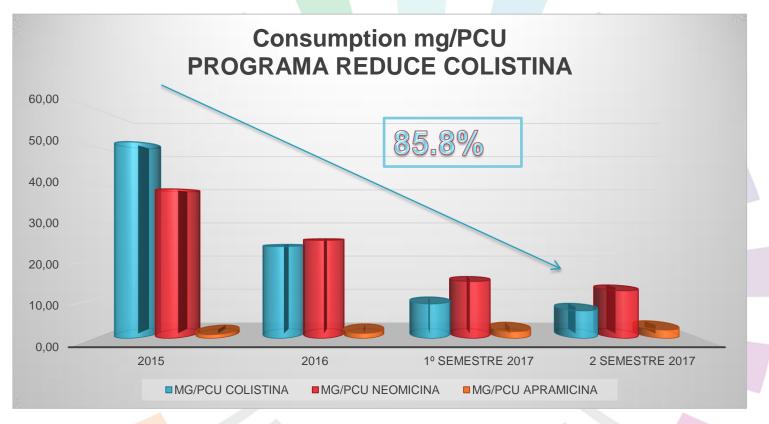
55 companies adhere to the Agreement

AGROALIMENTARIA PORCINA
S.A
AGROPECUARIA DE GUISSONA.
SCL
AGROPECUARIA OBANOS S.A
AGROPOR S.L
ARS ALENDI S.A
BARROS VIEJO S.L
CINCAPORC S.A
COOPERATIVA D'IVARS
COOPERATIVA DE ARTESA SCCL.
COOPERATIVA GANADERA DE
CASPE
COPISO SORIA, SOC. COOP
CORPORACIÓN ALIMENTARIA
GUISSONA S.A
CUARTE S.L
EXPLOTACIÓ AGROPECUARIA
LA VALLETA S.L
EXPLOTACIÓN AGROPECUARIA
LOMA DE UCIEZA S.A
Explotaciones Bajo Aragón S.L.
Explotacions Artigas, SLU
FAMADESA (ALMARGEÑA DE
INTEGRACIÓN S.A)
GANADOS L.M.
GESCASER S.A

GRANJA LOS ALECOS, S.L					
GRUP GEPORK S.A.					
GRUPO PREMIER PIGS, S.L					
ICPOR SORIA, S.L					
IMAQ Porcino, S.L.U.					
INGA FOOD, S.A.					
JUAN JIMENEZ GARCÍA S.A.U.					
MAZANA PIENSOS COMPUESTOS S.L.U					
PICBER S.A					
PIENSOS COSTA					
PIENSOS DEL SEGRE S.A					
PROGATECSA					
Proinserga Alimentación S.L					
QUERIBER S.L P.P					
S.A.T HNOS CHICO S.L.					
S.C.L AGROPIENSO					
SCCL Camp i Secció de Credit SANT ISIDRE (COOPERATIVA DE BELLCAIRE)					
SELECCIÓN BATALLÉ S.A					
SINOVAPORK, S.L					

SOCIEDAD COOPERATIVA LTDA. BAJO **DUERO, COBADU UVE S.A VALL COMPANYS** VIDAL e HIJOS S.L **LERIDANA DE PIENSOS S.A** INTEGRACIONES EL COCHINILLO **SEGOVIANO S.L COREN SCG ARAGONESA DE PIENSOS PORCINO TERUEL S.A CRIANZAS ARAGONESAS** AGROPORC ALESVES SL Agasur S.L Granja El niño cachete Hendrix **PORCISAN SA**

55 companies adhere to the Agreement



	2015	2016	2017	2018
MG/PCU	51,09	23,91	9,00	7,2
COLISTINA				
MG/PCU	38,83	25,51	14,81	12,4
NEOMICINA				
MG/PCU	1,04	1,37	1,83	2,25
APRAMICINA				

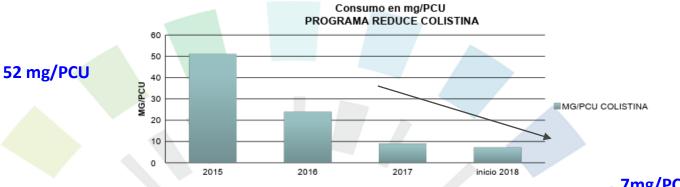
Agreement for Voluntary Reduction of Colistin Consumption in Porcine Sector: RESULTS.

55 companies adhere to the Agreement (80% pigs slaughtered)

•REDUCTION OF 85.8% IN THE CONSUMPTION OF COLISTINA BETWEEN 2015 AND THE BEGINNING OF 2018

•REDUCTION OF 68% IN THE CONSUMPTION OF NEOMICINA BETWEEN 2015 AND THE BEGINNING OF 2018

VERY LOW CONSUMPTION OF APRAMYCIN



How do we achieve this?

7mg/PCU

Spread awareness to the veterinarian and porcine sector about antibiotics that are only used for treatment and not for prophylactic use.

| Improve:

- Feeding
- Weaning management in pigs: ventilation, temperature, animal welfare (no overcrowding), homogeneous batch with appropriate numbers of animals.
- Increase immunity: food, vaccination of mothers and piglets.
- Improve the biosecurity and hygiene of the farms

How is this made possible?

Significant investment by the swine industry (Spain is the 3rd largest swine producer in the world)



Agreement for Voluntary Reduction of Colistin Consumption in Porcine Sector: DISTINCTIVE RECOGNITION.









Companies that voluntarily adhere to the Agreement sign a public declaration of compliance.

The Agreement involves a distinctive recognition for those companies who comply.

Agreements for Voluntary Reduction of Antibiotics: implemented

They provide consumption data at the farm level.

Implication in the prudent use of antibiotics

Example for other production sectors.

Use of alternatives and improvement of farm management, hygiene and biosecurity

Prograzia Reduza Columbia

Programa
Reduce
Antibióticos

Programa
Reduce
Antibióticos













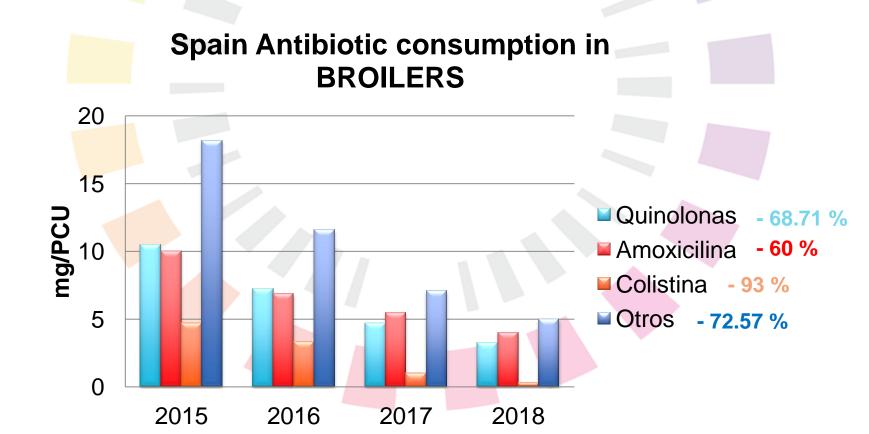


Agreements for Voluntary Reduction of Antibiotics in BROILERS

In Broiler poultry farming, a 45% drop in the total consumption of antibiotics in 2020 has been set as the target

20 companies adhere to the Agreement (75% broiler production)



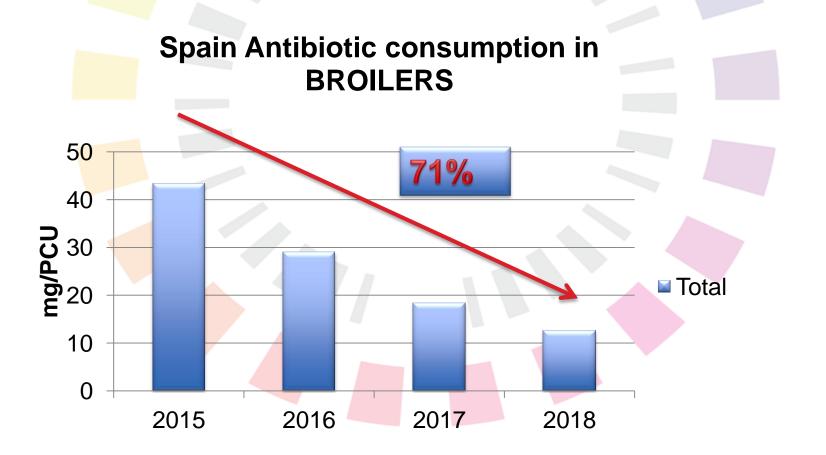


Agreements for Voluntary Reduction of Antibiotics in BROILERS

•REDUCTION OF 71% IN THE CONSUMPTION ANTIBIOTICS BETWEEN 2015 AND FIRST SEMESTER OF 2018

Programa
Reduce
Antibióticos

20 companies adhere to the Agreement (75% broiler production)



Agreements for Voluntary Reduction of Antibiotics in RABBITS





Reduce the consumption of antibiotics by 30% in the maximum period of two years.



Within the first year of this period, it is established **not to prescribe the** antibiotic Colistin in its oral form via medicated feed.



Establishment of specific guidelines for the prescription of AB:





The feed in the **last phase will never be medicated** (nor with authorized molecules with zero days of suppression).

Be especially careful with the prescription of the antibiotic **Oxytetracycline**

Agreements for Voluntary Reduction of Antibiotics in CATTLE





- Limit the use of antibiotics in oral solution, administered via water and milk, to defined and justified clinical needs.
- Increase the use of rapid diagnostic tests to identify pathogens and increase the use of sensitivity tests to determine the most appropriate treatment.
- Reduce the use of category 2 antibiotics to very defined and justified clinical needs.
- Involve the whole cattle sector

Agreements for Voluntary Reduction of Antibiotics: implemented

They provide consumption data at the farm level.

Implication in the prudent use of antibiotics

Example for other production sectors.

Use of alternatives and improvement of farm management, hygiene and biosecurity







Campaña PROA

Hospital La Paz



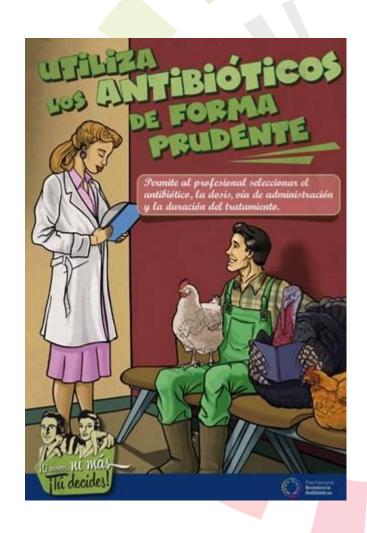


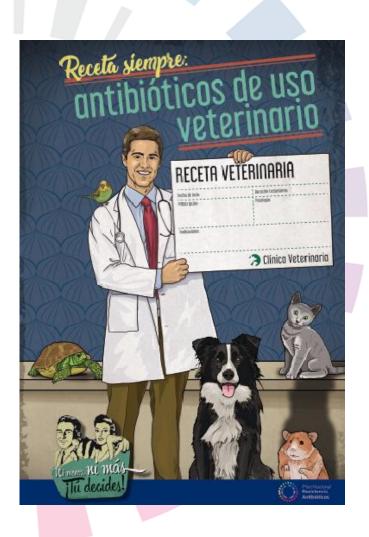
The campaign affects:

Duration of treatment and dosage
Overtreatment
Treatment in serious infections
Local guides
Antibiotic plan in clinical history
Sequential therapy
Antibiotic adjustment
Re-evaluation of the treatment

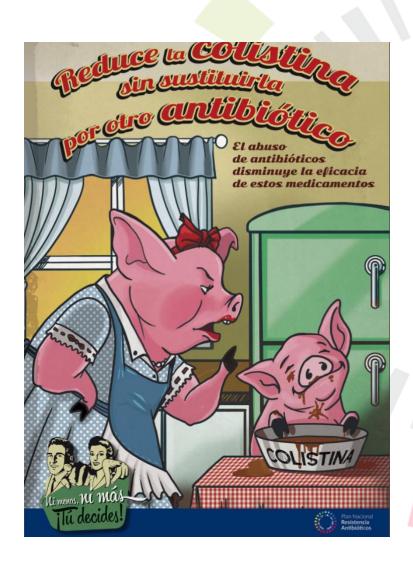


Campaign PRAN - VETERINARY





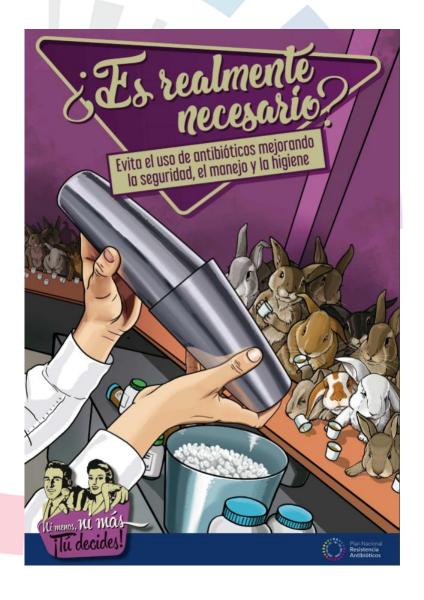
Campaign PRAN - VETERINARY





Campaign PRAN - VETERINARY





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Our web page



Social Media















www.resistenciaantibioticos.es



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