Detection & management of residues of antimicrobials in pigs delivered to an abattoir (CA)

Introduction

The objective is to map routine monitoring activities on antimicrobial residues in pigs. Moreover, focus is on a case where a pig producer has sent pigs for slaughter with food chain information indicating compliance regarding withdrawal periods, but later discovers that a pig was delivered before the end of this period.

The questionnaire has been developed by a RIBMINS project group. Please see <u>https://ribmins.com/ (https://ribmins.com/)</u> for more information. The target audience is the staff of the competent authorities (CA) and food business operator (FBO).

There are two versions of the questionnaire, one for the CA, which is the one you are in now. There is also one for the FBO, which you can access through the following link: <u>https://forms.office.com/r/5uZ7g4uXGM</u> (https://forms.office.com/r/5uZ7g4uXGM)

It will take around 25 minutes to fill it in. All questions relate to pigs; finisher pigs, sows and boars.

Unfortunately, it is not possible to fill in the questionnaire halvway and then continue another day. Therefore, respondents may wish to look at the questions first. A pdf of both questionnaires can be found on the following link: <u>https://ribmins.com/survey-on-residues-of-</u> <u>antimicrobials-in-pigs/ (https://ribmins.com/survey-on-residues-of-</u> <u>antimicrobials-in-pigs/)</u>

Further, if not completed at once, one may print a pdf with the preliminary answers for later repeating the replies: Please use the "..." (print formular) in the upper right corner.

By filling in the questionnaire, the respondents give their consent in letting the project group analyse the data, which will be anonymised. The results will be published in a peer-reviewed journal.

For some questions, more than one box may be ticked, when needed. It is listed, where this is possible

Abbreviations

MRL = maximum residue limit

OV ('official veterinarian') = means a veterinarian appointed by the CA, either as staff or otherwise, and appropriately qualified to perform official controls and other official activities in accordance with the food or feed regulation

FBO = means the natural or legal persons responsible for ensuring that the requirements of food or feed law are met within the food or feed business under their control

An activity may be called an own check in one country and a quality assurance programme in another country

Thank you for your participation

If you have any queries, please contact Chief Scientist/Adjunct Professor Lis Alban on <u>lia@lf.dk (mailto:lia@lf.dk)</u>.

1. Affiliation (more than one answer is possible)

Central competent authority
Regional competent authority (if this applies in your country)
Local competent authority on one or more abattoirs
Other

2. If your answer was "other" then please describe

3. Country



4. Region in country (only for large countries, where the programmes in place differ by region)

5. Please sort the five objectives below for the official programme in force for your country, by giving **1 to the most important** objective and **5 to the least important**

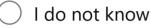
	1	2	3	4	5
Show compliance with EU legislation	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Detect positive samples and manage these	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Assess the prevalence of residues in pig meat	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Show the pig producers that monitoring is taking place to increase compliance	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Other objectives	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc

6. Please explain what "other objectives" cover

- 7. Is the official surveillance subdivided into two or more parts, here called components?
 - 🔵 No

Yes, and divided into 1) sows/boars and 2) finishing pigs

Yes, but divided differently



8. If your answer was "yes, but divided differently", then please explain

- 9. Is sampling risk-based in any of the components of the programmes in place?
 - All parts involve random sampling
 - All parts involve risk-based sampling
 - ig) Some parts involve risk-based sampling whereas others are random
 - 🔵 I do not know

10. If your answer was "some (or all parts) involve risk-based sampling", please explain which risk factors the sampling is based upon?

11. Do you have an **official autonomous regional** monitoring scheme on top of the **national** programme? – in large countries, regional actions may be implemented

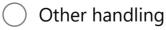
🔵 Yes

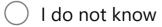
🔵 No

)I do not know

- 12. When a sample is taken from a pig carcass, how is the carcass handled?
 - The carcass is held, until a result below MRL becomes available

\bigcirc	The	carcass	is	not	held
\smile					





13. If your answer was "other handling", then please explain

14. If the carcass is held until a result below MRL becomes available (more than one answer is possible)



This is to avoid corrective measures imposed by the competent authorities in case a sample is test-positive

] This is due to export requirements



Other reasons

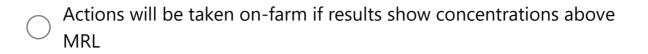


Not relevant, because tested carcasses are not kept back

I do not know		l do	not	know
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15. If your answer was "other reasons", then please describe

16. When are actions taken on-farm in relation to test results from the official programme?



Actions will be taken on-farm if results show presence of residues

Actions will be taken on-farm if results show presence of residues below the MRL



🔵 I do not know

17. If your answer was "Actions will be taken on-farm if results show presence of residues" then specify the actions

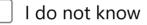
18. If your answer was "Actions will be taken on-farm if results show presence of residues below the MRL" then specify the actions 19. Which preventive actions are in place on the farms to ensure that the withdrawal period is complied with? (more than one answer is possible)

\square	Pig producers are obliged to register all treatments with veterinary
\Box	medicine

Pig producers are obliged to physically mark all animals that have been treated with veterinary medicine



Other actions in place, such as moving treated pigs to a separate pen or similar initiatives



20. If your answer was "other actions in place", then please specify

21.	Which testing	matrix is in place in the official
	programme? (more than one answer is possible)

Kidney or kidney fluid
Meat
Serum
Other
l do not know

22. If your answer was "other, then please specify

- 23. Which kind of laboratory methods is used for **screening** in the official programme?
 - Biological methods (agar plates)
 - Chemical methods (such as HPLC)
 - Other kinds of methods
 - 🔵 I do not know

24. If your answer was "other kinds of methods", then please describe

25. Which kind of laboratory methods is used for **confirmation** in the official programme?

Biological methods (agar plates)

Chemical methods (such as HPLC)



\bigcirc I	do	not	know
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26. If your answer was "other kinds of methods", then please describe

27. Does the quality assurance programme have increased focus on farms on which residues have been detected earlier on and after that case was closed? - e.g. within the last 6 months

🔵 Yes

🔵 No

Not relevant, as residues >MRL are an infrequent finding (<10 times per year per pig abattoir)



🔵 I do not know

28. Do you use ante mortem observations to identify clinical suspects for pigs arriving on the abattoir? (and e.g., arrest the carcass until a test result is confirmed)



🔵 No

I do not know

29. If your answer was yes, what do you base the suspicion on?

30. Will information from the pig producer regarding possible presence of an injection needle in a pig delivered for slaughter result in the pig being considered as a suspect regarding residues?

🔵 Yes

In principle yes, but it hardly ever occurs in practice

🔵 No

🔵 l do not know

31. Are emergency slaughter animals considered as suspect animals?

🔵 Yes

Only in case of suspect findings or relevant information in FCI

) No

The abattoir is not slaughtering such animals - they are euthanised on the farm

I do not know

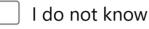
32. How do you report the data from the official national programme? (more than one answer is possible)

Annual report in national language

Reported annually to the European Commission/EFSA



Other ways of reporting



describe

33. If your answer was "other ways of reporting", then please

34. Surveillance evaluation and performance monitoring - Are the pig results used to update the national/regional legislation, preventive actions etc?

Yes

) No

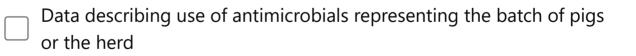
) I do not know

35. If your answer was yes, please give examples

36. How else are the results disseminated, to whom and for which purpose?

37. Which kind of data regarding use of antimicrobials must be provided as food chain information (FCI) for pigs? (more than one answer is possible)

The pig producer fills in a statement regarding compliance with the withdrawal period



Other kind of information

know

	do	not

38. If your answer was "data describing use of antimicrobials", please explain how this is used in practice

39. If your answer was "other kind of information", then please describe

40. Do you find that the FCI used in relation to the official programme is useful?

🔵 Yes

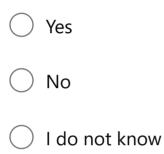
🔵 No

I do not know

41. If your answer was "yes", then please explain why

42. If your answer was "no", then please explain why

43. Do you have any suggestions for improvements of the FCI regarding residue programmes?



44. If your answer was "yes", then please describe

45. How often do you think meat produced in your country and placed on the market can be found to have residues of antimicrobials in it? – here evaluated as the percentage of carcasses with residues above MRL

Very often (>5%)
Often (>1-5%)
Regularly (>0.1-1%)
Rarely (>0.01-0.1%)
Almost never (\leq 0.01%)
I do not know

46. How would you classify the relevance of residues of antimicrobials in meat in general as a food safety hazard from a scientific / HACCP point of view?

 \bigcirc Very relevant, they pose a significant risk for human health

O Moderate, they pose a certain risk for human health

C Low, they pose a negligible risk for human health

Irrelevant, they don't pose any relevant risk for human health

🔵 I do not know

47. How do you think that **consumers** in your country perceive **the food safety risk** related to residues of antimicrobials in meat?

Very high
 Moderate
 Low
 Irrelevant

🔵 I do not know

48. How would you classify the way **export markets perceive the risk** of residues of antimicrobials as a food safety hazard?

Very highModerate

🔵 Low

🔵 Irrelevant

🔵 l do not know

49. Questions 49-61 are dealing with a special case: A pig producer has provided FCI indicating compliance with the withdrawal periods. However, the pig producer later informs the abattoir that one or more pigs have by mistake been sent before the end of the withdrawal period

Is there a procedure in place to handle this situation?

The abattoir has no procedure for such a situation

 \bigcirc In this case, the official vet is called, and he/she will manage the case

A quality assurance procedure is in place, which describes how the case should be managed

) The case is not considered relevant

🔵 I do not know

51. If the individual animal has not yet been slaughtered and can be identified easily. In this case, the abattoir informs the official vet and...

The abattoir makes their own decision to reject the animal from slaughter

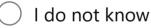
The official vet rejects the animal from slaughter

The official vet decides that the animal should be detained and housed until the expiry of the withdrawal period

The official vet decides that the animal should be detained from slaughter, housed and tested for residues of veterinary medicinal products (testing to document absence)

The abattoir's quality assurance department undertakes a risk
assessment, which is used for decision making regarding fitness for consumption and the official vet is informed

) The case is not considered relevant



53. The animal has not yet been slau	ughtered. However, it
cannot be identified individually	as it is part of a
batch (more than one answer is	possible)

The abattoir reports the case to the official veterinarian, who subsequently decides what to do
The official vet's decision is based upon a risk assessment, describing the case
The official vet's final decision regarding meat compliance is based upon a subsequent test for presence of residues of the batch of animals (free testing)
The abattoir asks the official vet for permission to house the batch of animals until the expiry of the withdrawal period
The case is not considered relevant
I do not know

55. The animal has been slaughtered, and the carcass cut, deboned and packed. Hereby, the traceability has been reduced to a lot, but the products have not left the abattoir

The case is reported to the official vet who decides how to handle the specific case

The official vet orders the abattoir to trace the carcass and all parts
thereof including the edible and the animal by-products to destroy the fresh meat and downgrade the by-products to category 2

The abattoir's decision regarding destruction or release is based upon a risk assessment

The abattoir's decision regarding destruction or release is based upon test results regarding the permitted residue level

The official vet's decision regarding destruction or release is based upon a risk assessment

All parts belonging of the lot will be destroyed

The case is not considered relevant

I do not know

57. The traceability has been reduced to a lot, and edible parts have left the abattoir and been placed on the market

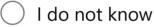
The edible parts are always recalled from the market

The abattoir never recalls parts that have been placed on the market

The decision regarding recall is pending the outcome of a risk assessment made by the FBO

The decision regarding recall is pending the outcome of a risk assessment made by the OV

) The case is not considered relevant



59. Specific handling of animal by-products belonging to a lot,
including blood, that are already placed on the market
(more than one answer is possible)

The FBO on the receiving plant bases a decision regarding whether to downgrade from category 3 to category 2 upon a risk assessment
The OV on the receiving plant bases a decision regarding whether to downgrade from category 3 to category 2 upon a risk assessment
A risk assessment is never performed due to limitations in the EU Animal By-product Regulation 1069/2009 - The animal by-products are automatically being downgraded from category 3 to category 2
The case is not considered relevant
I do not know

61. Within the definition of "placing on the market" in Council Regulation 2002/178[1] please indicate what you think applies according to the current legislation (more than one answer is possible)

[1] "Placing on the market" means the holding of food or feed for the purpose of sale, including offering for sale or any other form of transfer, whether free of charge or not, and the sale, distribution, and other forms of transfer

When the health mark has been applied on the carcass.
When the identification mark has been applied on the packed product.
When the product has left the abattoir, but is still under responsibility/control of the business operator, for example when stored in a cold store separated from the abattoir
When the product has left the abattoir and are not under

responsibility of the business operator, followed by a business document or a certificate

A	nother	approach	is	used
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l do not know

62. If your answer was "another approach is used", then please explain, and feel free to explain how you think that the system should be set up

63. General or specific comments to the questions above

64. By ticking the box, you give consent to the use of the above information in the way described on the first page (box)

🔵 l agree

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