

# Educational materials on alternatives to surgical castration of piglets

Standing Committee on Plants, Animals, Food and Feed 14/15 December 2020

Kirsten Vornhagen Animal Welfare, G5 Directorate for Health and Food Safety







- Pig castration is legal but remains a welfare issue
- Pilot project in the 2017 Budget:
  - "Establishment of a harmonised internal market for pigmeat obtained from pigs that have not been surgically castrated"





# **Specific objectives**

- For entire pigs (uncastrated):
  - How to reduce boar taint at farm level
  - How to detect boar taint at slaughterhouse
  - How to deal with meat with detectable boar taint
  - How to increase market value of meat from uncastrated pigs





# **Specific objectives (2)**

- For vaccinated pigs (immunocastrated):
  - How to vaccinate pigs
  - How to ensure at farm level that vaccinated pigs will not have boar taint
  - How to trust farmers that vaccinated pigs will not have boar taint
  - How to increase acceptance of meat from vaccinated pigs



# Study

"Establishing best practices on the production, the processing and the marketing of meat from uncastrated pigs or pigs vaccinated against boar taint (immunocastrated)"

- Final report 14 March 2019 -



# ESTABLISHING **BEST PRACTICES**

on the production, the processing and the marketing of meat from uncastrated pigs or pigs vaccinated against boar taint (immunocastrated)

Final report



https://ec.europa.eu/food/animals/welfare/p ractice/farm/pigs/castration\_alternatives\_en



# Results

- Transition to entire males or vaccination depends on the whole supply chain
- Farmers' costs vs others' costs (slaughterhouses, food processors, retailers)
- Transition is ultimately based on market demand
- Retailers and food services are essential in the process



# Background (2)



# Phase 2 - from August 2019 to December 2020 - :

Dissemination of the best practices established in phase 1

- Factsheets
- Video



# **Educational materials (1)**

- 12 Factsheets
  - **General (1) Farmers (4) Slaughterhouses (3)**
  - Food Processors (1) Retailers & Food ServiceOperators (3)
- 24 languages
  - 22 EU + RU +ZH -

# **FACTSHEETS**

O1 Ending surgical castration

# **FARMERS**

- 2A Reducing boar taint risk in entire males
- 2B Vaccinating pigs against boar taint
- 2C Preventing detectable boar taint in immunocastrated pigs
- 2D Success stories

# SLAUGHTERHOUSES

- 3A Detecting boar taint in uncastrated pigs
- 3B Ensuring absence of boar taint
- 3C Success stories

# **FOOD PROCESSORS**

0.4 Managing boar taint in meat

# RETAILERS & FOOD SERVICE OPERATORS

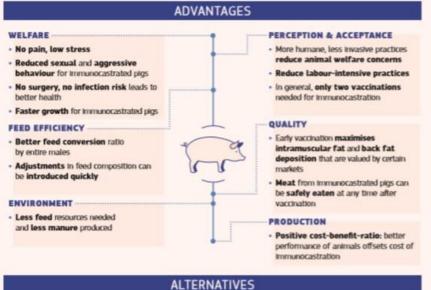
- 5A Increasing the market value of meat from uncastrated pigs
- 5B Increasing consumer acceptance and raising awareness of meat from Immunocastrated pigs
- 5C Success stories



# **Educational materials (2)**

- 1 Video addressing the whole production chain
   EN plus 23 with subtitles (total 22 EU+RU+ZH)
- 3 standalone videos by stakeholder
   EN only for social media
- Info graphics, Info sheets, Posters
- USB sticks for dissemination





Raise entire



Commission

Food Safety

# **FS 01:** General

# **BEST PRACTICES & TECHNIQUES**



- detecting boar taint. quantifying and managing carcasses that are tested positive for boar taint
- pigs don't contain detectable boar taint

# RETAILERS & FOOD SERVICE

**OPERATORS** 

from reaching consumers

# SLAUGHTERHOUSES

ensuring that Immunocastrated

 increasing market value and acceptance of meat from Immunocastrated pigs and preventing meat with detectable boar taint

# **FACTSHEETS**

O1 Ending surgical castration

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0.4. Managing boar taint in meat

## RETAILERS & FOOD SERVICE OPERATORS

- 5A Increasing the market value of meat from uncastrated pigs
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# **SUCCESS STORIES**

Successful market-based solutions for ending surgical castration were established by large pork food supply chains in major pork producing countries in the EU (Belgium, Denmark, France, Germany, Italy, the Netherlands, Poland, Spain) in 2018.

FARMERS

using management practices

using vaccination in various

ensuring that Immunocastrated

present detectable boar taint

pigs and entire males don't

quantifying and managing

meat with detectable boar taint

to reduce boar taint

types of plgs

FOOD

**PROCESSORS** 

For more information on success stories about transitions to entire males or immunocastrated pigs, see factsheets 2D, 3C, 5C





## www.bit.ly/2vyHVTI

For more information, see thui report Establishing best practices on the production, the processing and the marketing of meat from uncastrated pigs or pigs vaccinated against boar taint (immunocastrated)





Vaccinate against



# TECHNIQUES & BEST PRACTICES FOR FARMERS



# **FLOORING & HOUSING**

- . Keep flooring and bedding clean and dry
- . Ensure pigs have enough space to lie down, eat and defecate
- · Separate boars from gits and SOWS
- · Implement wean-to-finish grouping of pigs of the same age
- . House pigs in small groups of 30 or less
- . Use semi-open walls to facilitate contact between pigs
- · Maintain suitable temperatures, ventilation and day-night rhythm
- Provide environmental enrichment to keep pigs occupied in nonharmful behaviour



## BREEDING

 Choose specific breeds or selective breeding methods to reduce boar taint risk from the outset.



# REDUCED COMPETITION

· Feed boars on demand



## FEED COMPOSITION

- . Use feed ingredients rich in inulin\*
- . Feed boars a diet with adjusted amino acids
- . Use commercial feed designed to reduce boar taint a few weeks before slaughter
- · Switch to a low-protein, grain-based diet four days before slaughter





## SCHEDULED SLAUGHTER



- · Monitor age using markers
- · Choose slaughter age rather than weight
- · Exchange information with slaughterhouses about boar taint level and appropriate slaughter age

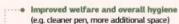
These methods have been successfully tested and used commercially at different stages and across entire supply chains

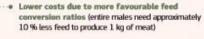


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# FS 2A: **Farmers**

# BENEFITS





- · Reduction in aggressive behaviour, stress and competition by providing enrichments, keeping pigs together with their siblings and feeding on demand
- · Contribute to growth and weight gain
- ... Lower levels of skatole\*\* and androstenone\*\* (selective breeding, early slaughter, better hygiene, specific feeding)

\* natural food fibre \*\* main substances responsible for boar taint











# SHARE YOUR KNOWLEDGE

WITH FARMERS, SLAUGHTERHOUSES, FOOD PROCESSORS, RETAILERS AND FOOD SERVICE OPERATORS

Many of the challenges of switching to entire males or immunocastrated pigs concern relationships and communication between members of the supply chain.

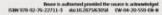


# SUCCESS STORIES

Find out how farmers successfully transitioned to entire males or immunocastrated pigs. See Factsheet 2D







# **FACTSHEETS**

O1 Ending surgical castration

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O.4. Managing boar taint in meat

## RETAILERS & FOOD SERVICE OPERATORS

- 5A Increasing the market value of meat from uncastrated pigs
- 5B Increasing consumer acceptance and raising awareness of meat from immunocastrated pigs
- 5C Success stories



www.hit.lyr2vyHVII

For more information, see final report Establishing best practices on the production, the processing and the arketing of meat from uncastrated pigs or pigs vaccinated against boar taint (immunocastrated)

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# TECHNIQUES & BEST PRACTICES FOR RETAILERS & FOOD SERVICE OPERATORS

# MARKETING TECHNIQUES TO DEAL WITH CONSUMER ATTITUDES AND BEHAVIOUR



 Take into account differences in consumer perception (not all consumers are aware of boar taint and pig castration issues)



 Market meat from uncastrated pigs with animal welfare messages that are in the with growing interest from European consumers about welfare-friendly practices.



 Ensure messages mention that animats are not subjected to the painful practice of castration and inform about the need to stop castration in pig production



 Emphasise other benefits of non-castration (e.g. environmental)



Request from slaughterhouses and processors detailed information about their boar taint detection methods and ask for on-site visits to show effectiveness and robustness of methods



 Organise in-store trials in close collaboration with suppliers to gain additional confidence in the feasibility of selling meat from entire males



 Closely monitor sales and customer complaints during trials to identify any issues and share information with suppliers

## FOOD LABELLING

 Encourage suppliers to be certified compliant with animal welfare schemes



 Products displaying animal welfare labels can be sold at a higher price than non-assured meat.

 A packaging label that conforms to an animal welfare certification scheme provides consumers with additional information about how meat was produced and is an indicator of quality

These methods have been successfully tested and used commercially at different stages and access entire supply chains





FS 5A:
Retailers
& Food
service
operators

# BENEFITS



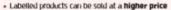
 Comptiance with an agreed set of specifications can prohibit castration, impose specific breeding/feeding techniques, or require certain housing conditions. This is a strong incentive for suppliers to continue selling their meat to retailers.



 Build trust in boar taint detection methods and within the supply chain



 In-store trials reassure store managers that the provision of meat from entire males from a supplier with a robust protocol for boar taint detection does not mean adverse impact on consumers and sales





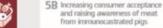
 Robust schemes and auditing systems provide additional guarantees to retailers and food service operators











5C Success stories



## www.bit.ly/2vyHVII

For more information, see final report.
Establishing best practices on
the production, the processing
and the marketing of meat
from sucastrated pigs or pigs
vaccinated against bear
taint (Immunocastrated)

FACTSHEETS

01 Ending surgical castration

2A Reducing boar taint risk

2B Vaccinating pigs against

**2C** Preventing detectable boar

taint in immunocastrated pigs

in entire males

2D Success stories

3C Success stories

FOOD PROCESSORS

RETAILERS & FOOD

SERVICE OPERATORS

SLAUGHTERHOUSES

3A Detecting boar taint

in uncastrated pigs

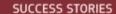
3B Ensuring absence of boar taint.

Q4. Managing boar taint in meat.

5A Increasing the market value

of meat from uncastrated pigs

FARMERS



SHARE YOUR KNOWLEDGE

WITH FARMERS, SLAUGHTERHOUSES, FOOD PROCESSORS, RETAILERS AND FOOD SERVICE OPERATORS

Find out how retailers and food service operators successfully transitioned to entire males or immunocastrated pigs. See Fuctsheet SC.

Many of the challenges of switching to entire males or immunocastrated pigs concern relationships and communication

between members of the supply chain.





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Health and Food Safety



# **Factsheets**





# **Info graphic and Info sheet**

# **Ending surgical** castration Collaborate with other supply chain actors

Whether you're a farmer, slaughterhouse, food processor, retailer or food service operator, remember to share your resources and expertise. You can overcome many of the **challenges** of raising entire males or vaccinating pigs against boar taint with effective communication and improved ties between members of the supply chain in Europe.

Only by working together can you make this transition a successful one!



Food Safety



Info sheet

# **Ending surgical** castration

→ Through knowledge transfer

FOR FARMERS, SLAUGHTERHOUSES, FOOD PROCESSORS, RETAILERS AND FOOD SERVICE OPERATORS



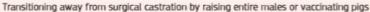
















- advantages of raising entire rivales and vaccinating against boar taint
- best practices and techniques that have been successfully tested and used commercially at different stages and across entire supply chains
- benefits of using best practices and techniques
- success stories from farmers, slaughterhouses. retailers and food service operators

# Download here

## WATCH

a farmer, staughterhouse operator, food processor, and retail and food services representative talk about transitioning away from surgical castration and how they benefitted



# LOOKING FOR MORE IN-DEPTH INFORMATION?

- best practices that have been trialled and successfully used in production and across the entire European supply chain for the raising and staughter of entire males or pigs vaccinated against boar taint, and the processing and marketing of meat from such animals
- economic feasibility of a transition away from surgical castration, the challenge of boar taint detection and consumer acceptance of alternatives to surgical

# Read more here













Physical dissemination (paper prints, USBs)

e.g. to ntl. + EU org. and MS central comp. authorities

- Electronic dissemination (e.g. Commission website)
- Information



# Where to find the materials?

https://ec.europa.eu/food/animals/welfare/practice/farm/pigs/castration

\_alternatives\_en



# Thank you!





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