



Educational materials on alternative methods to surgical pig castration

EU Platform on Animal Welfare - 9th meeting – 22 June 2021

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Background



- *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”**



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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**

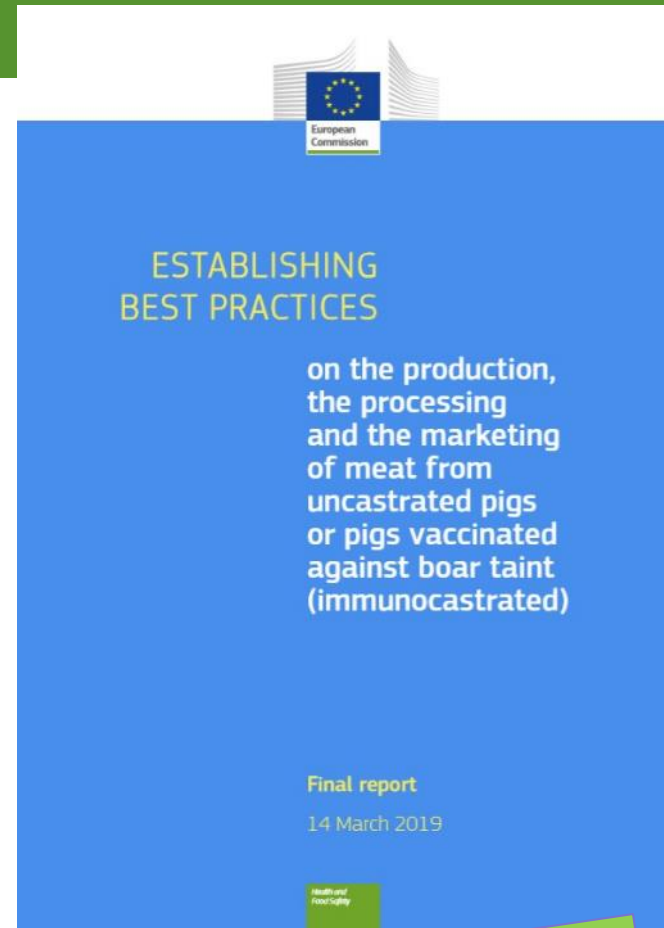


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Phase 1: Study

"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 -



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

Results

- *Transition to entire males or vaccination depends on the whole supply chain*
- *Farmers' costs versus 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*
- Infographics, Infosheet*



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Members of the Advisory Board

Business and Professional organisations

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- **Patrick Chevillon**
/CLITRAVI/IFIP
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/Eurogroup for Animals



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FACTSHEETS

01 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

04 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 (1)

- *12 Factsheets*

General (1)

Farmers (4)

Slaughterhouses (3)

Food Processors (1)

Retailers & Food Service Operators (3)

- *24 languages: 22 EU + RU + ZH*

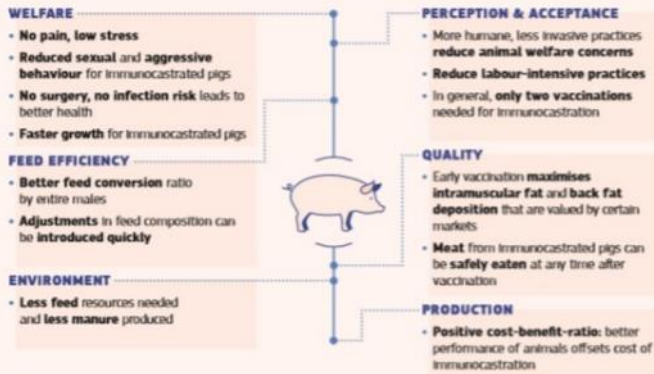
Educational materials (2)

- *1 Video addressing the whole production chain*
EN plus 23 with subtitles (total 22 EU+RU+ZH)
- *Info graphics, Info sheets, Posters*
- *USB sticks for dissemination*

Ending surgical castration

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

ADVANTAGES



ALTERNATIVES

Raise entire male pigs



Vaccinate against boar taint



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FS 01: General

BEST PRACTICES & TECHNIQUES



FACTSHEETS

- 01 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**
- 04 Maraging 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

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.

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



[www.bit.ly/2zytV71](https://bit.ly/2zytV71)

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



FS 2A: Farmers

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 gilts 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 non-harmful 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 the supply chain

Animat
Wagbire

BENEFITS

- Improved welfare and overall hygiene (e.g. cleaner pen, more additional space)
- Lower costs due to more favourable feed conversion ratios (entire males need approximately 10% less feed to produce 1 kg of meat)
- 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 androsteneone** (selective breeding, early slaughter, better hygiene, specific feeding)

FACTSHEETS

- Ending surgical castration
- FARMERS**
 - Reducing boar taint risk in entire males
 - Vaccinating pigs against boar taint
 - Preventing detectable boar taint in immunocastrated pigs
- Success stories
- SLAUGHTERHOUSES**
 - Detecting boar taint in uncastrated pigs
 - Ensuring absence of boar taint
- Success stories
- FOOD PROCESSORS**
 - Managing boar taint in meat
- RETAILERS & FOOD SERVICE OPERATORS**
 - Increasing the market value of meat from uncastrated pigs
 - Increasing consumer acceptance and raising awareness of meat from immunocastrated pigs
- Success stories

* 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

www.bit.ly/2yplfVt

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

Publications Office of the European Union

Share is authorized provided the source is acknowledged
ISBN 978-92-76-22711-3 doi:10.2815/3050 EW-04-20-559-EN-4

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FS 5A: Retailers & Food service operators

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)
- **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**
- **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
- **Market meat** from uncastrated pigs with animal welfare messages that are in line with growing interest from European consumers about **welfare-friendly practices**
- **Ensure messages** mention that **animals 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

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



BENEFITS

- **Compliance 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
- Labelled products can be sold at a **higher price**
- Robust schemes and auditing systems provide **additional guarantees** to retailers and food service operators

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    graph LR
      F[Farmers] <--> S[Slaughterhouses]
      S <--> P[Food Processors]
      P <--> R[Retailers & Food Service Operators]
  
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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 retailers and food service operators successfully transitioned to entire males or immunocastrated pigs. See Factsheet 5C.

www.bti.ly/2yplNVI

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

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Issue is authorized provided the source is acknowledged
ISBN 978-92-76-22709-0 / doi:10.26755/927622709025 / 2016-02-10 008 156 81

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Health and Food Safety



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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!



Info sheet

Ending surgical castration

Through knowledge transfer

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

Transitioning away from surgical castration by raising entire males or vaccinating pigs

EXPLORE OUR RESOURCES AND FIND OUT ABOUT:

- advantages of raising entire males 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, slaughterhouse operator, food processor, and retail and food services representative talk about transitioning away from surgical castration and how they benefitted

Click to play

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 slaughter 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 castration

Read more here

veterinairmag - EEF, Buitendijk | © EFSA 2016, Animal Welfare



Dissemination

- *Physical dissemination (paper prints, USBs)
e.g. to ntl. + EU org. and MS central comp.
authorities*
- *Electronic dissemination (e.g. Commission website)*
- *Information*



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Where to find the materials?

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



Thank you!



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