Scientific Panel on Biological Hazards

Quantitative Risk Assessment on Salmonella in slaughter and breeder pigs

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EFSA's Mission

• Provide **scientific advice** and **scientific and technical support** for the Community’s legislation and policies in all fields which have a direct or indirect impact on **Food and Feed Safety**.

• Provide **independent** information on all matters within these fields with a high level of **openness** and **transparency**;

• **Risk Communication**;

• **Collaboration and Networking**.
EFSA and the EU Food Safety Risk Analysis framework

Risk assessment

Risk management

Risk communication
• The Panel on Biological Hazards deals with questions on biological hazards relating to Food Safety and Food-borne Diseases, including:

- Food-borne Zoonoses;
- Food Hygiene;
- Microbiology;
- Transmissible Spongiform Encephalopathies;
- Associated Waste Management.
• In accordance with Reg 2160/2003, the EC must set targets for the reduction of the prevalence of Salmonella in pigs.
• When defining each Community target, the Commission must provide a cost/benefit analysis.
• In order to do this, the Commission must first have a quantitative risk assessment.
Mandate

• Request for a quantitative assessment of the public health risks posed by the presence of Salmonella in slaughter and breeder pigs.

• Original deadline June 2009
Working approach

• Working group of the Biological Hazards Panel working in parallel to a consortium carrying out the outsourced QMRA.
• The WG provides comments and suggestions to the consortium
• The consortium carries out the quantitative analysis
• The WG drafts an opinion based largely on the QMRA
• Opinion is adopted by the BIOHAZ Panel.
• EFSA staff ensures clear communication between Panel, WG, Consortium, risk-benefit assessors, Commission and coordinates with the baseline studies.
• Calls for data are published on EFSA website, as well as requested through EFSA’s Advisory Forum and Microbiological Risk Assessment Network.
• Quantitative Microbiological Risk Assessment (QMRA)
• Grant funded research (Article 36)
  – 800,000 Euros from EFSA
  – 200,000 Euros from Consortium
• Project was awarded to a consortium (VLA, RIVM, DTU)
• Work started Jan 2008
Terms of reference (slaughter pigs)

- Relative contribution of *Salmonella* infections in slaughter pigs on *Salmonella* cases in humans
- Expected reduction of *Salmonella* cases in humans by a reduction of *Salmonella* prevalence in slaughter pigs
- Sources of infection for fattening pigs at farm level
- Reduction of the prevalence in slaughter pigs by control measures at farm level
- Impact of transport, lairage and slaughter processes on contamination of carcasses.
- Expected reduction of *Salmonella* cases in humans by the most important control measures during transport, at lairage or during the slaughter process
QMRA *Salmonella* in pigs – Terms of reference (breeder pigs)

- The relative contribution of *Salmonella* infections in breeder pigs on *Salmonella* prevalence in slaughter pigs (based on bacteriology in lymph nodes or serology at slaughter)
- The expected reduction of *Salmonella* prevalence in slaughter pigs by a reduction of *Salmonella* prevalence in breeder pigs.
- The sources of infection for breeder pigs and piglets at farm level.
- The reduction of the prevalence in breeder pigs and piglets by the most important potential treatments or control measures at farm level.
Data sources for the QMRA

- Specifically requested by the mandate to consider the data from the EU baseline studies on
  - *Salmonella* in slaughter pigs
  - *Salmonella* in breeder pigs
- Data gathered in the Annual Community Summary Reports on zoonoses
- ……….. and any other relevant information
  - EFSA call for data
  - Consortium workshops
• Consortium has delivered 6 and 12 month reports on time
• WG has started drafting the opinion
• Results from baseline study on slaughter pigs has been published
• Delay foreseen in delivery of the results from the baseline study on breeder pigs ………… This will push back the delivery date of the final opinion
Thank you for your attention

BIOHAZ Panel as EFSA is committed to independency and transparency

THANK YOU!!!

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