



**COST ACTION 920 ON FOODBORNE ZOOSES,  
WORKING GROUP 3: QUANTITATIVE RISK ASSESSMENT**

**Workshop on Data Needs in Risk Assessment**

**28-30 JUNE 2004**

**Universidad de Navarra,  
Edificio Ciencias,  
Salón de Actos,  
Calle Irunlarrea, 1  
31008 - PAMPLONA,  
SPAIN**

**PROGRAMME (FINAL VERSION)**

Objectives

To evaluate the gap between available and necessary data for microbiological risk assessment, and to recommend approaches to bridge this gap

**28 JUNE 2004**

08.00-08.30 Registration

08.30-09.00 Welcome and introductions

Dr. Ignacio Moriyón, Head of the Microbiology Department, University of Navarra

Excma. Sra. María Kutz , Head of Health Department, Government of Navarra,

Dr. Arie Havelaar, Chairman, COST 920 Working Group 3

**SESSION 1: DATA NEEDS IN COMPLETED AND ON-GOING RISK ASSESSMENTS**

**OBJECTIVE:**

To discuss data problems encountered by working group members and to present solutions to overcome these problems

Chair: Arie Havelaar

Rapporteur: Lüppo Ellerbroek

09.00-09.15 Summary by chair of results of an enquiry among working group members

09.15-09.45 Nigel French: Modelling pathogen shedding in the primary production phase: data requirements, parameter estimation and uncertainty

09.45-10.15 Arie Havelaar: Expert judgement to estimate parameters of a chicken processing model

10.15-10.30 Introduction to group discussions

10.30-10.45 Break

10.45-11.45 Group discussions on prioritisation of data needs, modelling approaches to effectively use available data, how to solve data needs

11.45-12.15 Plenary, recommendations

## **SESSION 2: THE EU ZONOSIS LEGISLATION AND QMRA**

### **OBJECTIVE:**

To discuss recent developments in data collection for the EU zoonoses legislation, to evaluate the use of these data for QMRA and to identify possible improvements

Chair: Hilde Kruse

Rapporteur: Riitta Maijala

12.20-12.40 Jean-Charles Cavitte: The EU Zoonosis Legislation

12.40-12.50 Franz Karcher: Community Network for Surveillance and Control of Communicable Diseases

12.50-13.00 Discussion

13.00-14.30 Lunch

14.30-15.00 Anne-Marie Käsbohrer: Data collection and interpretation for the EU Zoonosis Legislation

15.00-15.30 Marta Hugas: How to use national data on zoonoses in QMRA at the European level

15.30-15.45 Discussion

15.45-16.00 Introduction to group discussions

16.00-16.30 Break

16.30-17.30 Group discussions on why and how we are (not) using the data in the EU Zoonosis reports, detail needed vs. aggregation in reports, fill gaps identified in session 1

17.30-18.00 Plenary, recommendations to EU

Evening: Social function: Visit to historic Pamplona

**29 JUNE 2004**

**SESSION 3: DATABASES FOR QMRA**

**OBJECTIVE:**

To discuss problems and possible solutions in relation the organisation of a European database applicable for QMRA, including strategies for sampling and collection of data.

Chair: Bjarke Bak Christensen

Rapporteur: Hanne Rosenqvist

09.00-09.40 Niels Nielsen: Design of sampling plans applicable for QMRA

09.40-10.20 Jozsef Baranyi: The Combbase project

10.20-10.30 Introduction to group discussions

10.30-10.45 Break

10.45-11.45 Group discussions on Databases for QMRA

11.45-12.15 Plenary presentation of group discussions

12.15-13.00 Discussion of ILSI draft report  
“Framework for Identification and Collection of Data Useful for Risk Assessments of Microbial Food or Waterborne Hazards”

13.00-14.30 Lunch

## **SESSION 4: COMPUTER SESSION**

Objective: To identify, discuss and demonstrate problems and solutions for implementing QMRA models in algorithms and in modelling software

Chair: Tine Hald

Rapporteur: Emma Snary

14.30-14.45 Summary by the chair of problems and challenges encountered by the working group members

14.45 – 15.10 Luca Busani: Typing tools for estimating the attributable fraction of human cases of *S. Typhimurium* due to a given animal source.

15.10 – 15.35 Helle Sommer: Estimating four different prevalence values of pig carcasses – one for each pig-herd *Salmonella* level – when carcass swabs are pooled independently of original herd level.

15.35 – 16.00 Marianne Sandberg: Parameter estimation for risk-reducing intervention; freezing of chicken carcasses positive for *Campylobacter*.

16.00-16.15 Break

16.15- 16.40 Jukka Ranta: Estimating the average CFU/g serving and predicting the number of cases under intervention as compared to the default situation.

16.40-17.10 Group discussion on modelling approaches to the specific problems

17.10-18.00 Presentation of modelling problems, models, software, etc. using laptops. This is thought to be an interactive session where the working group members get a chance for looking at each others models and maybe get hand-on experience with the presented problems. Working group members contributing to this session have been asked to bring a laptop including their models and software. There will be around 6 presenters.

20.00 Social function: Dinner

**30 JUNE 2004**

**SESSION 5: RECENT WORK**

Chair: Begoña Sesma

Rapporteur: Rosa M<sup>a</sup> Gimeno

Objective: To present and discuss the results of recent and ongoing work

09.00-09.20 Antonia Ricci: The application of project management methodology in risk analysis

09.20-09.40 Victoria Garrido: Quantitative risk assessment of *Listeria monocytogenes* in ready-to-eat foods in Navarra

09.40-10.00 Fernando Pérez-Rodríguez: Looking for solutions for not available data in exposure assessment in cooked meats.

10.00-10.20 Remedios Melero: SICURA, the Spanish Food Safety Network

10.20-11.15 Break and poster viewing

11.15-12.00 Future plans and closure

13.00 Reception at the Town Hall

## List of posters

Elena Carrasco-Jiménez, Antonio Valero-Díaz, Fernando Pérez-Rodríguez, José Maria Fuentes-Alventosa, Rosa Maria García-Gimeno; Gonzalo Zurera-Cosano:

Risk assessment application: linking risk assessment of *Listeria monocytogenes* with HACCP in minimally processed foods

Marie Laure Delignette-Muller:

Use of Bayesian inference in risk assessment: application to the modelling of *Listeria monocytogenes* growth in cold smoked salmon

V. Garrido, A.I., Vitas, B. Sesma, I. García – Jalón:

Listeriosis risk in Navarra-Spain by consumption of smoked salmon sliced vacuum-packed

V. Garrido, A.I., Vitas, B. Sesma, I. García – Jalón:

Listeriosis risk in Navarra by consumption of sliced cooked meat products

Arie Havelaar, Eric Evers and Maarten Nauta

The effect of logistic slaughter and/or germicidal treatment on *Campylobacter* contamination of broiler meat – a model based approach

Antonio Martínez and Pablo S. Fernández:

An exposure assessment approach for *Bacillus cereus* spores

Fernando Pérez-Rodríguez, José Maria Fuentes-Alventosa, Antonio Valero-Díaz, Elena Carrasco-Jiménez, Rosa Maria García-Gimeno; Gonzalo Zurera-Cosano:

Transfer of *S. aureus* during cooked meat slicing

Jukka Ranta:

Using Bayesian inference in modeling salmonella exposure, dose-response and reported & unreported human cases

Pirkko Tuominen:

Data gaps in quantitative modelling of Salmonella in beef

Antonio Valero-Díaz, José Maria Fuentes-Alventosa, Elena Carrasco-Jiménez, Fernando Pérez-Rodríguez, Rosa Maria García-Gimeno\*; Gonzalo Zurera-Cosano:

Boundary model of *Listeria monocytogenes* growth as a function of citric and ascorbic acid