



COST Action FA1408  
European Network for Foodborne Parasites in Europe (EURO-FBP)

# WG4 Meeting: Systematic Reviews

*Meeting minutes*

## General information (Meeting date, venue and organisers etc.)

The meeting was held the 5<sup>th</sup> and 6<sup>th</sup> April 2018 in the 'Marie Curie' room of the COST floor on the 15<sup>th</sup> floor of the Generali Tower, Avenue Louise, 149B, Brussels, Belgium.

The meeting was organised by Lucy Robertson (NMBU, Oslo, Norway), Paul Torgerson (University of Zurich, Switzerland) and Chiara Trevisan (Institute of Tropical Medicine, Antwerp, Belgium) and was attended by a total of 16 members of the COST action. For member`s details see Annex 1.

The main aims of the meeting were to identify a way forward for the searches, extractions, and syntheses, and to agree on a structure for the systematic review on transmission models (Annex 2) and source attribution (Annex 3), respectively.

## Programme:

### **DAY 1: Thursday 5<sup>th</sup> April 2018**

- 09:00–10:00 Welcome and WG4 members update
- 10:00–12:00 Systematic review objectives and protocol
- Presentation from Paul Torgerson
- 12:00–13:00 Lunch
- 13:00–17:00 Systematic review objectives and protocol (continued)
- Breakout (parasite) groups to agree:  
1. Search terms; 2. Databases to be search (including languages)
  - Plenary session to discuss

Approx. 19:00

### **DAY 2: Friday 6<sup>th</sup> April 2018**

- 09:00–12:00 Discussion how to synthesize data and present results, including:
- Results expected, potential manuscripts to summarize
  - Further analysis: how the results are to be used in terms of the aspirations of WP4.
- 12:00–13:00 Lunch
- 13:00–14:00 Discussion deadlines, wrap up and good bye

## Decisions made

### **1. Information sharing platform:**

The folder "WG4 systematic reviews" on the members section of the Euro-FBP homepage <https://www.euro-fbp.org> will be used for sharing of protocols, databases, useful documents, etc. as one platform where to share information that could be accessible to all was not available. To get access please contact Lucy [lucy.robertson@nmbu.no](mailto:lucy.robertson@nmbu.no). One access per institute will be given.



COST Action FA1408  
European Network for Foodborne Parasites in Europe (EURO-FBP)

# WG4 Meeting: Systematic Reviews

Meeting minutes

## 2. Systematic review protocols

The systematic reviews will be conducted in line with the PRIMSA guidelines <http://www.prisma-statement.org> and will include each item on the PRIMSA checklist. The “PRISMA 2009 checklist” can be found on the Euro-FBP homepage.

The protocols (outlined in Annex 2 and 3) should be followed as much as possible to harmonize the work for each parasite. Everyone willing to contribute is welcome. A list of EURO-FBP members that expressed interest (during and/or after the Rome meeting in May 2017) in contributing to the systematic reviews is outlined in the excel document named: “SR\_EuroFBP\_MembersList\_05042018”. For each parasite, the lead will be taken by one Euro-FBP member (marked **red** in the excel document). This person will be the group’s contact person that *ideally* should take the lead and try to stick to the work’s time frame (see section “time frame”).

### 2.1 Search terms and database search (Identification phase – See Annex 4)

Search terms and databases to be searched were agreed (including languages, geographical area and timeframe). See details in protocols outlined in Annex 2 and 3. Ideally, the person taking the lead will be responsible for the “Identification phase” that includes the search on the databases and preparation of the Excel sheet with titles and abstracts to screen. An R code can be used for the extraction from the database to excel. For more information and instructions email Chiara ([ctrevisan@itg.be](mailto:ctrevisan@itg.be)).

### 2.2 Screening phase

The work for the „screening phase“ should be divided among the members of the “parasite group”. The members should agree before work is assigned to a group member.

First title and abstracts should be screened based on the predefined exclusion criteria, then the full text will be screened and data extracted.

### 2.3 Data extraction and analysis

For the data extraction, two databases were developed. These can be found on the Euro-FBP homepage. The work will be coordinated by the person taking the lead, but work should be shared among members of the “parasite group”.

Paul volunteered to be in charge of the data analysis for the source attribution reviews. For the models reviews, results will be descriptive.

### 2.4 Paper drafting

A decision on who will be drafting the manuscript/s was not taken as this largely depends on the results that will be obtained. Based on the results, one or more manuscripts will be drafted.

The person drafting the paper will probably be first author, although co-authorship will be possible. Last authorship will be discussed among members of the „parasite group“. Every member that actively and substantially contributed to the realisation of the manuscript/s will be granted co-authorship.

### 2.5 Funding

The publication fee will be covered by the cost action on a first come first served basis. Additional funding will be sought by applying to the COST Final action dissemination grant. Ideally, open source journals should be prioritized.



COST Action FA1408  
European Network for Foodborne Parasites in Europe (EURO-FBP)

# WG4 Meeting: Systematic Reviews

*Meeting minutes*

### 3. Assistance

For any type of help or clarifications needed for the reviews, Chiara or Paul can be contacted. If needed, skype meetings can be arranged.

Sara Monteiro Pires has years of experience on Source attribution studies, hence can be contacted if help is needed.

### 4. Systematic review registration

Both systematic review protocols will be registered on PROSPERO  
<https://www.crd.york.ac.uk/prospero/>.

### 5. Time Frame:

- PROSPERO SRs registration: **13<sup>th</sup> April 2018**
- 1<sup>st</sup> Database search finished and Abstracts available for evaluation: **1<sup>st</sup> June 2018**
- Abstract evaluation completed and full text manuscripts available for evaluation: **1<sup>st</sup> August 2018**
- Data extraction based on full text completed: **1<sup>st</sup> November 2018**
- Data analysis: **1<sup>st</sup> December 2018**

**\*\*Review ready for submission 1<sup>st</sup> February 2019\*\***

### Follow-up

A skype follow up will be organized mid July to discuss progress and share experiences.



COST Action FA1408  
European Network for Foodborne Parasites in Europe (EURO-FBP)

# WG4 Meeting: Systematic Reviews

*Meeting minutes*

## Annexes

### Annex 1: List of participants that attended the meeting

Name	Surname	Institute	Email
Jenny	Deng	RIVM	<a href="mailto:jenny.deng@rivm.nl">jenny.deng@rivm.nl</a>
Rachel	Cummins	RIVM	<a href="mailto:rachel.cummins@rivm.nl">rachel.cummins@rivm.nl</a>
Hannah	Morgan	RIVM	<a href="mailto:hannah.morgan@rivm.nl">hannah.morgan@rivm.nl</a>
Heidi	Enemark	NVI	<a href="mailto:heidi.enemark@vetinst.no">heidi.enemark@vetinst.no</a>
Jelena	Srbljanovic	IMR	<a href="mailto:jelena.srbljanovic@imi.bg.ac.rs">jelena.srbljanovic@imi.bg.ac.rs</a>
Helga	Waap	INIAV	<a href="mailto:helga.waap@iniav.pt">helga.waap@iniav.pt</a>
Ewa	Bilska-Zajac	NVRI	<a href="mailto:ewa.bilska@piwet.pulawy.pl">ewa.bilska@piwet.pulawy.pl</a>
Gereon	Schares	FLI	<a href="mailto:gereon.schares@fli.de">gereon.schares@fli.de</a>
Lucy	Robertson	NMBU	<a href="mailto:lucy.robertson@nmbu.no">lucy.robertson@nmbu.no</a>
Paul	Torgerson	UZH	<a href="mailto:paul.torgerson@access.uzh.ch">paul.torgerson@access.uzh.ch</a>
Rachel	Chalmers	PHWALES	<a href="mailto:rachel.chalmers@wales.nhs.uk">rachel.chalmers@wales.nhs.uk</a>
Rudi	Cassini	UNIPD	<a href="mailto:rudi.cassini@unipd.it">rudi.cassini@unipd.it</a>
Sara	Monteiro Pires	DTU	<a href="mailto:smpi@food.dtu.dk">smpi@food.dtu.dk</a>
Chiara	Trevisan	ITM	<a href="mailto:ctrevisan@itg.be">ctrevisan@itg.be</a>
Ivona	Mladineo	IOR	<a href="mailto:mladineo@izor.hr">mladineo@izor.hr</a>
Jacinto	Gomes	INIAV	<a href="mailto:jacinto.gomes@iniav.pt">jacinto.gomes@iniav.pt</a>



COST Action FA1408  
European Network for Foodborne Parasites in Europe (EURO-FBP)

# WG4 Meeting: Systematic Reviews

*Meeting minutes*

## **Annex 2: Systematic reviews – Transmission models for foodborne parasites**

**Aim:** To synthesis all current transmission models of parasites than can be transmitted by food.

### **Databases search**

PubMed (all fields)

Web of science

Scopus (title, abstract, keywords)

Embase (all fields)

Google scholar

PubMed, Embase and Scopus should be used, while other databases optional

### **Search phrases**

Paras\* AND model AND (transmission OR math\*) – for parasites with a lot of hits

Trichin\* AND (mathematical model OR transmission OR risk) - for parasites with few hits

Anisak\* AND (mathematical model OR transmission OR risk OR epidemiol\*)

**Years:** no restriction

**Geographical restriction:** none

**Languages:** restriction to English. In reality the vast majority of published articles will be in English. Any non-English articles that appear to be consistent with the inclusion criteria can be referred to an appropriate native speaker for checking.

### **Exclusion criteria (Title and Abstract)**

- Reviews
- Editorial letters

### **Exclusion criteria (full text)**

- Full text not available
- Purely descriptive or statistical models that seek to fit data without consideration of underlying biological mechanisms
- Do not describe a mathematical transmission model
- Do not describe a statistical model that has correlates for transmission risk
- Immunological and allergenicity models
- Non-target parasite

### **Database (Excel file)**

- Use Excel database for data extraction

### **Results**

PRISMA 2009 Flow Diagram

Descriptive - Summarizing the type of models and if they are predictive.



COST Action FA1408  
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# WG4 Meeting: Systematic Reviews

*Meeting minutes*

## **Annex 3: Systematic reviews – Source attribution - foodborne parasites**

### **Aim:**

To synthesis all current literature that documents the source attribution of FBP.

### **Database search**

PubMed (all fields)

Web of science

Scopus (title, abstract, keywords)

Embase (all fields)

Google scholar

PubMed, Embase and Scopus should be used, while other databases optional

### **Search phrases**

Paras\* AND (logistic regression OR source attribution)

Toxoplasm\* OR TORCH AND (regression OR "source attribution" OR "case control" OR "cross sectional" OR "risk factor" OR "cohort study")

cryptosporidi\* AND (regression OR "source attribution" OR "case control" OR "cross sectional" OR "risk factor" OR "cohort study")

**Years:** no restriction

**Geographical restriction:** none

**Languages:** restriction to English. In reality the vast majority of published articles will be in English. Any non-English articles that appear to be consistent with the inclusion criteria can be referred to an appropriate native speaker for checking.

### **Exclusion criteria (Title and Abstract)**

- Reviews
- Editorial letters
- Case reports

### **Exclusion criteria (full text)**

- Association with a clinical syndrome
- Descriptive studies without statistical analysis
- Studies looking only into social factors such as education, poverty, gender, age
- Animal only studies
- Non-target parasite

### **Data extraction Database (Excel)**



*COST Action FA1408  
European Network for Foodborne Parasites in Europe (EURO-FBP)*

# WG4 Meeting: Systematic Reviews

*Meeting minutes*

- Use food categorization scheme <https://www.cdc.gov/foodsafety/ifsac/projects/food-categorization-scheme.html>
- Use Excel database for data extraction

## **Results**

PRISMA 2009 Flow Diagram

Qualitative and quantitative – data analysis will be done by Paul

## **Funding**

Euro-FBP



# WG4 Meeting: Systematic Reviews

Meeting minutes

## Annex 4



### PRISMA 2009 Flow Diagram

