



MEETING REPORT

First annual meeting of the food- and waterborne diseases surveillance network in Europe

Stockholm, 1-2 October 2008

Executive summary

Over 1–2 October 2008, food- and waterborne disease public health experts from across the European Union (EU) met at European Centre for Disease Prevention and Control (ECDC) to discuss the needs for future surveillance of six priority diseases: salmonellosis, campylobacteriosis, STEC/VTEC infection, listeriosis, shigellosis, and yersiniosis. Non-EU network members also participated in the meeting. For each disease working groups provided their opinion on specific questions regarding surveillance objectives and variables, reporting frequency, regular reports, current mechanisms to detect early dispersed international clusters and outbreaks (later referred to as the urgent inquiry network), molecular typing, and the training needs for country experts. European Union countries have been working together in these areas for several years and the experts at this meeting exchanged ideas on how to further enhance this cooperation.

This was the first meeting of newly nominated disease-specific surveillance experts for the six priority food- and waterborne diseases. The participants learned about recent developments at ECDC, ranging from a presentation on the ECDC programme for food- and waterborne diseases and zoonoses to the development of the new web platform for the exchange of information between experts. The experts, in turn, presented the status of surveillance of food- and waterborne diseases in their countries, laboratory method developments, disease trends and recent outbreak investigations. Representatives from important stakeholders such as the European Food Safety Authority (EFSA), the European Commission's Rapid Alert System for Food and Feed (RASFF), and WHO-Euro presented their activities within the field of food- and waterborne diseases. The meeting provided a good opportunity to learn from experiences in other countries on how to prevent and control foodborne outbreaks and enhance multidisciplinary collaboration between different partners.

The outcomes of the discussion groups are summarised in Session 5. The European Centre for Disease Prevention and Control will bring forward issues that require agreement at a higher administrative level (e.g., by the national surveillance contact points) and work towards implementing the suggested improvements. Regarding the webbased information platform, EPIS, ECDC will collaborate with the group of experts that signed up at the meeting in further developing this tool (Session 3).

The views expressed in this publication do not necessarily reflect the views of the European Centre for Disease Prevention and Control (ECDC).

Stockholm, August 2010

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1 Background

The European Centre for Disease Prevention and Control (ECDC) is an EU agency¹ with a mandate to operate the dedicated surveillance networks (DSNs) and to identify, assess, and communicate current and emerging threats to human health from communicable diseases.

Since 1993, the European Union (EU) has had enteric pathogens under special surveillance. It began as a network for human *Salmonella* surveillance, Salm-net. Later, from 1998 to 2007, it continued as a dedicated surveillance network for the enteric pathogens *Salmonella* and *E. coli* as Enter-net (with *Campylobacter* included in 2003).

Enter-net was funded by the European Commission until October 2006 and continued its activities via a contract with ECDC until October 2007. In July of 2007, Enter-net was evaluated and assessed, and the coordination of network hub activities was transferred to ECDC on 2 October 2007.

In November 2007, a transition workshop on food- and waterborne disease (FWD) surveillance in the EU was held to discuss the challenges and new opportunities for further development of FWD surveillance and response at the EU level and to explore an opportunity to improve upon the past achievements of Enter-net. Many of the recommendations from that meeting have already been taken forward; for example, the integration of the revised list of Enter-net variables into TESSy, the first developments of a web-based urgent inquiry (UI) system, and the network broadened to include also shigellosis, listeriosis and yersiniosis. This provided a good platform for the first meeting of the new network in October 2008.

1.1 Objectives

The purpose of the meeting was to discuss the current status of, and future needs for, surveillance and outbreak-related activities for the six priority FWD at the EU level—including the development of a molecular typing surveillance strategy for the EU—and to share country-specific developments and issues in the area of FWD.

¹ Established by the European Parliament and Council Regulation 851/2004 of 21 April 2004. For more information about the structure and organisation of ECDC please refer to http://www.ecdc.europa.eu

2 Plenary lectures and working groups

2.1 Session one: Current status of food- and waterborne disease surveillance and outbreak related activities at the **EU level**

An overview of the Food- and Waterborne Diseases and Zoonoses programme (FWD) at ECDC was presented. The FWD work on surveillance, outbreak-related activities, harmonisation of data and urgent inquiries was followed by a brief description and demonstration of the proposed functionalities of the future web-based Epidemic Intelligence Information System (EPIS). Several presentations were given by representatives from relevant stakeholder organisations. The European Food Safety Authority (EFSA) held a presentation on the foodborne outbreak reporting system and gave an update on 2007 data. A presentation on foodborne outbreaks and the European Commission's Rapid Alert System for Food and Feed (RASFF) was given by RASFF, and WHO-Euro described the food safety activities occurring within the WHO-European Regional office.

2.2 Session two: Disease-specific country presentations

Several participants presented brief updates regarding developments in surveillance, laboratory methodologies, recent trends, outbreaks, and the integration of laboratory and epidemiologic data related to the six priority diseases.

2.3 Session three: Disease-specific working groups on improving food- and waterborne disease surveillance and outbreak detection and response

The participants signed up for one of the six disease-specific working groups on the first day. The topics for discussion were the same for each group but focused on a specific pathogen. As a starting point, the groups got a number of background documents intended to clarify the context and stimulate discussion. These dealt with general surveillance issues such as the disease-specific surveillance objectives and variables, or the outputs from TESSy in the form of systematic reports and how these were applied to specific diseases.

3 Results and main conclusions

Working group discussions focused on disease-specific surveillance objectives, variables and reports, as well as molecular typing, outbreak detection and response (i.e., UI and EPIS), and training needs for experts in the

The general conclusions of the meeting included the following:

- The need to have human data integrated with animal and food data, in particular molecular typing data;
- future meetings should continue to include country-specific presentations;
- further discussion on methods (between microbiologists), through meetings and other opportunities for discussion, should occur with a separate forum suggested;
- a need to continue having disease-specific working groups;
- additional support and capacity-building is needed for several EU countries; and
- participation by non-EU countries in network activities is welcomed and should be maintained.

The following subsections are conclusions culled from the discussions.

3.1 General food- and waterborne disease surveillance issues:

Surveillance objectives and variables

- The drafted disease-specific surveillance objectives were largely accepted, with some suggested revisions (i.e., salmonellosis and verocytotoxin-producing Escherichia coli (VTEC) infection). For campylobacteriosis, more discussion may be needed, while additional disease-specific objectives were suggested for shigellosis and versiniosis.
- Although it was agreed that a geographical variable is important for surveillance, the level of precision needs to be realistic and needs further discussion. For listeriosis and versiniosis, it was agreed that a geographical variable would not be necessary. The VTEC working group recommended that NUTS 2 codes or a more detailed level be used.
- For campylobacteriosis, salmonellosis and VTEC infection, the current antibiograms data collected at the EU level were deemed appropriate. For shigellosis, it was recommended that an antibiogram be added to the EU level surveillance; this was not deemed necessary for listeriosis and yersiniosis.
- Additional molecular typing data or strain characteristics to be captured as part of routine surveillance at the EU level were not deemed feasible for campylobacteriosis, but were suggested for salmonellosis, VTEC infection and shigellosis.
- Additional variables to be included in the enhanced dataset for disease-specific surveillance were suggested for VTEC infection (serologic diagnosis alone) and listeriosis (clinical presentation), in addition to minor revisions to existing variables and drop-down menus.

Surveillance reports and outputs

- The frequency of reporting data should be linked to the frequency of outputs.
 - Regarding quarterly reports, the utility was questioned for campylobacteriosis, and for listeriosis and yersiniosis, annual reporting seemed sufficient depending on the surveillance objective. Quarterly reporting was determined to be appropriate for shigellosis, and for salmonellosis and VTEC infection, it was recommended that efforts be made towards more frequent reporting (i.e.,
- Various suggestions were provided for regular outputs including continuation of quarterly reports, basic descriptive analyses with graphs and maps, and additional tables summarising clinical and epidemiological data (not otherwise presented in other reports). It was also suggested that an editorial working group be created for Salmonella-specific reports that could lead the discussion (potentially in EPIS) regarding regular outputs.
- In general, tables that could be generated by TESSy upon upload of data and that could be reviewed and approved immediately would be possible to post on the ECDC website without approval. Appropriate, publicly available content could be EU level incidences, reported cases and relevant strain characteristics. It would also be useful to include maps with incidences.

Molecular typing working group proposal

- Various opinions were offered regarding the proposed procedure for the working group, including the
 following: the need for pathogen-specific groups; clarification of objectives; inclusion of representatives
 from external organisations (e.g., MedVetNet); referring to work already done by PulseNet Europe (e.g.
 Listeria); inclusion of one epidemiologist and one microbiologist per disease for a maximum of 12 people;
 and inclusion of experts from countries with lesser capacity for molecular typing work to ensure that the
 methods selected are ultimately feasible in all EU countries.
- Suggestions were offered for additional or revised tasks for the working group, with a focus on ensuring that work already done by PulseNet Europe is not duplicated.
- Overall, it was suggested to outsource the reference databases for molecular typing data while ensuring strict confidentiality and ownership of the data and also the ability to link data to other databases (e.g., TESSy).

Urgent inquiries and the Epidemic Intelligence Information System (EPIS)*

- Monthly summaries were deemed to be useful.
- Disease-specific urgent inquiries (UI) groups, in particular once EPIS is functional, would be appropriate.
- No criteria are needed for the launching of an UI as it is well understood.
- Positive and negative replies should be solicited.
- In the listeriosis group, it was agreed that monthly summaries should be shared but only with designated persons within RASFF (EC) and EFSA, ensuring that it is well established that the information is preliminary. Also, the need for better information exchange between ECDC, RASFF (EC) and EFSA was highlighted.
- Overall, although a standard form for UI in EPIS would be useful, it was noted that the exchange of information should remain more informal to promote communication and also to ensure that efforts are not duplicated with other warning systems.

*Only the campylobacteriosis, listeriosis, versiniosis groups were able to address this topic.

Training needs*

- For epidemiologists, opportunities to share experiences and design and administer case studies are useful
 while for microbiologists, the highest priority is External Quality Assurance programmes.
- Joint training among epidemiologists and microbiologists is important to increase collaboration and communication, and discuss opportunities for the integration of surveillance data.
- Hands-on training and online training could both be used depending on needs, and it would be useful to cross-train epidemiologists and microbiologists in each others' fields.

*Only the campylobacteriosis, shigellosis and yersiniosis working groups were able to address this topic.

Overall, the participants felt the meeting was a success with many lessons learned and useful and concrete suggestions provided from working group discussions that will enable improvements to FWD surveillance in the EU.

Annex 1: Meeting programme

1 October 2008 — Day 1

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09:00-09:15	Welcome Zsuzsanna Jakab	
09:15-12:00	Session 1: Current status of FWD surveillance and outbreak-related activities at the EU level Chair: Andrew Amato-Gauci	
09:15-09:35	Overview of the FWD programme at ECDC Tohanna Takkinen	
09:35-09:55	FWD surveillance: Harmonisation of data collection Therese Westrell	
09:55-10:15	Update on urgent inquiries, development of FWD SOPs for response at EU level Nadia Ciampa/Lara Payne	
10:15-10:45	break	
10:45-11:05	Epidemic Intelligence Information System (EPIS) demonstration <i>Pedro Arias</i>	
11:05-11:25	EFSA: Foodborne outbreak reporting system and updates Pia Makela	
11:25-11:45	RASFF: Foodborne outbreaks and RASFF Jan Baele	
11:45-12:00	WHO-Euro: Food Safety Activities Hilde Kruse	
12:00-13:00	lunch	
13:00-15:00 • •	Session 2: Disease-specific country presentations Chair: Ian Fisher Salmonella Country Reports VTEC Country Reports Campylobacter Country Reports	
15:00-15:30	break	
15:30-17:00 • • •	Disease-specific country presentations continued Chair: Henriette De Valk Listeriosis Country Reports Shigellosis Country Reports Yersiniosis Country Reports Other FWD	
17:00-18:00	FWD coordination group meeting Chair: Johanna Takkinen	
17:00-18:00	Non-EU network members meeting Chairs: Nadia Ciampa and Therese Westrell	

2 October 2008 — Day 2

08:30-08:45 **Brief overview of disease-Specific Working Group discussions** 08:45-10:30 Session 3: Disease-specific working groups on improving FWD surveillance and outbreak detection & response (Salmonella, VTEC, Campylobacter, Shigella, Listeria, Yersinia) Chairs (6): Johanna Takkinen, Therese Westrell, Nadia Ciampa, Carmen Varela Santos, Ole Heuer, Lara Payne 1) General FWD surveillance issues: Disease-specific surveillance objectives Disease-specific variables Systematic reports/outputs (i.e. format & reporting frequency) 2) FWD Molecular Typing (MT) Working Group proposal: Discuss MT Strategy & Proposal for FWD MT Working Group Determine interest in participating in FWD MT Working Group 3) General FWD outbreak detection and response issues: **EPIS & Urgent Inquiries** 4) Training needs (E.g. lab and epi joint training needs) 10:30-11:00 Working groups on improving FWD surveillance and outbreak detection & 11:00-12:30 response continued 12:30-13:30 lunch 13:30-15:30 Session 4: Presentation of disease-specific working group discussions Chair: Panayotis Tassios Summary of discussions regarding FWD surveillance, molecular typing, outbreak detection & response issues and training: 6 groups with 15 minutes presentations each (10 min summary, 5 min discussion) 15:30-16:00 16:00-17:00 Session 5: Discussion, conclusions and next steps

Chair: Johanna Takkinen

Annex 2: Participants

Country	Name/Contact	Organisation	Expertise
Austria	Katharina Grif Katharina.Grif@i-med.ac.at	Department of Hygiene, Microbiology and Social Medicine, Innsbruck Medical University	Replacing: VTEC laboratory expert
	Robert Muchl robert.muchl@bmgfj.gv.at	Austrian Federal Ministry of Health, Family and Youth	Replacing: VTEC, LIST, CAMP, SALM, SHIG, YERS epidemiologist
	Ulrich Sagel ulrich.sagel@analyse.eu	Analyse BioLab GmbH Ein Unternehmen von Elisabethinen Linz,	YERS laboratory expert
	Anna Stöger anna.stoeger@ages.at	MBB BioLab GmbH und AGES Österreichische Agentur für Gesundheit und Ernährungssicherheit GmbH Institut für Med. Mikrobiologie und Hygiene, Wien	Replacing: LIST laboratory expert
Belgium	Sophie Bertrand @iph.fgov.be	Institut Scientifique de Santé Publique Wetenschappelijk Instituut Volksgezondheid Scientific Institute of Public Health	Replacing: EPI Surveillance
Belgium (EC)	Kris De Smet kris.DE-SMET@ec.europa.eu	European Commission	
Belgium (RASFF)	Jan Baele Sanco-Rasff@ec.europa.eu	European Commission-DG SANCO; RASFF	
Bulgaria	Katucha Ivanova kateiv@abv.bg	National Reference Laboratory for Anaerobic Infections MBAL "Tzaritza Ioanna"	CAMP laboratory expert
	Plamen Padeshki ppadeshki@yahoo.com	National Centre of Infectious and Parasitic Diseases	YERS, SHIG laboratory expert
	Kremena Parmakova kparmakova@ncipd.org	National Centre of Infectious and Parasitic Diseases	VTEC, LIST, CAMP, SALM, SHIG, YERS epidemiologist
	Petar Petrov petrov pk2003@yahoo.co.uk	National Centre of Infectious and Parasitic Diseases	VTEC, SALM laboratory expert
Croatia	Borislav Aleraj borislav.aleraj@hzjz.hr	Croatian National Institute of Public Health (Hrvatski zavod za javno zdravstvo)	
	Dunja Perkovic dunja.perkovic@hzjz.hr	Croatian National Institute of Public Health (Hrvatski zavod za javno zdravstvo)	
Czech Republic	Renáta Karpiskova karpiskova@chpr.szu.cz	National Institute of Public Health Centre of Hygiene Food Chains	VTEC, LIST, CAMP, SALM, YERS epidemiologist
	Marta Prikazska martaprik@szu.cz	National Institute of Public Health	VTEC, LIST, CAMP, SALM, YERS laboratory expert
Denmark	Eva Møller Nielsen emn@ssi.dk	Statens Serum Institute	VTEC, LIST, CAMP, SALM, SHIG, YERS laboratory expert
	Flemming Scheutz fsc@ssi.dk	Statens Serum Institute	VTEC, LIST, CAMP, SALM, SHIG, YERS laboratory expert
	Steen Ethelberg set@ssi.dk	Statens Serum Institute	Replacing: VTEC, LIST, CAMP, SALM, SHIG, YERS epidemiologist
Estonia	Natalia Kerbo natalia.kerbo@tervisekaitse.ee	Laboratory of Communicable Diseases	Replacing: VTEC, LIST, CAMP, SALM, SHIG, YERS epidemiologist
	Inna Sarv inna.sarv@tervisekaitse.ee	Laboratory of Communicable Diseases	VTEC, LIST, CAMP, SALM, SHIG, YERS laboratory expert
Finland	Katri Jalava katri.jalava@ktl.fi	National Public Health Institute (KTL)	Replacing: VTEC, LIST, CAMP, SALM, SHIG, YERS epidemiologist

Country	Name/Contact	Organisation	Expertise
	Anja Siitonen Anja siitonen@ktl.fi	National Public Health Institute (KTL)	VTEC, LIST, CAMP, SALM, SHIG, YERS laboratory expert
France	Elisabeth Carniel carniel2@pasteur.fr	Institut Pasteur	YERS laboratory expert
	Henriette De Valk h.devalk@invs.sante.fr	Institut de Veille Sanitaire	
	Gilles Delmas g.delmas@invs.sante.fr	Institut de Veille Sanitaire	SHIG, YERS epidemiologist
	Veronique Goulet v.goulet@invs.sante.fr	Institut de Veille Sanitaire	LIST epidemiologist
	Nathalie Jourdan-Da Silva n.jourdan@invs.sante.fr	Institut de Veille Sanitaire	SALM epidemiologist
	Lisa King !.king@invs.sante.fr	Institut de Veille Sanitaire	VTEC, CAMP epidemiologist
	Alexandre Leclercq alexlec@pasteur.fr	National Reference Centre for Listeriosis, France	Replacing: LIST laboratory expert
	Patricia Mariani patricia.mariani@rdb.ap-hop-paris.fr	Laboratoire associé au CNR CNR des Escherichia coli et Shigella; Service de microbiologie, hôpital Robert- Debré	Replacing: VTEC, SHIG laboratory expert
	Francois Xavier Weill fxweill@pasteur.fr	Institut Pasteur	SALM laboratory expert
Germany	Angelika Fruth FruthA@rki.de	RKI, Wernigerode, Department for Infectious Diseases	Alternate: VTEC laboratory expert
	Judith Koch KochJ@rki.de	RKI, Berlin; Department for Infecious Disease Epidemiology, Unit for Gastrointestinal Infections, Zoonoses and Tropical Infections	Alternate: Listeria, Shigella
	Klaus Stark StarkK@rki.de	RKI, Berlin; Department for Infecious Disease Epidemiology, Unit for Gastrointestinal Infections, Zoonoses and Tropical Infections	Alternate: Campylobacter, Yersinia laboratory expert
	Dirk Werber WerberD@rki.de	RKI, Berlin; Department for Infecious Disease Epidemiology, Unit for Gastrointestinal Infections, Zoonoses and Tropical Infections	Alternate: Salmonella, Yersinia, VTEC epidemiologist
Greece	Kassiani Gkolfinopoulou golfinopoulou@keelpno.gr	Hellenic Center for Diseases Control and Prevention	Replacing: EPI Surveillance
	Panayotis Tassios ptasios@med.uoa.gr	National and Kapodistrian University of Athens Medical School, Departmer of Microbiology	nt
Hungary	Maria Herpay herpay.maria@oek.antsz.hu	National Center for Epidemiology (Országos Epidemiológiai Központ)	VTEC, LIST, CAMP, SALM, SHIG, YERS laboratory expert
	Katalin Krisztalovics krisztalovics.katalin@oek.antsz.hu	National Center for Epidemiology (Országos Epidemiológiai Központ)	VTEC, CAMP, SALM, SHIG, YERS epidemiologist
Ireland	Martin Cormican martin.cormican@hse.ie	HPSC	LIST, CAMP, SALM, SHIG laboratory expert
	Patricia Garvey patricia.garvey@hse.ie	HSE -HPSC	Replacing: VTEC, LIST, CAMP, SALM, SHIG, YERS, HIV epidemiologist
Iceland	Gudrun Sigmundsdottir gudrun@landlaeknir.is	Directorate of Health	EPI Surveillance + TUBE, VTEC, LIST, CAMP, SALM, SHIG, YERS epidemiologist
Italy (EFSA)	Pia Mäkelä <u>Pia.MAKELA@efsa.europa.eu</u>	EFSA	оргастионодня

Country	Name/Contact	Organisation	Expertise
Italy (WHO)	Hilde Kruse hik@ecr.euro.who.int	World Health Organization	
	Alfredo Caprioli alfredo.caprioli@iss.it	Istituto Superiore di Sanita	VTEC laboratory expert
	Monica Gianfranceschi monica.gianfranceschi@iss.it	Istituto Superiore di Sanita	LIST laboratory expert
	Ida Luzzi ida.luzzi@iss.it	Istituto Superiore di Sanita	CAMP, SALM, SHIG, YERS laboratory expert
Japan	Jiro Mitobe jmitobe@nih.go.jp	Department of Bacteriology, National Institute of Infectious Diseases	
Latvia	Sandra Magone sandra.magone@sva.gov.lv	Public Health Agency	VTEC, LIST, CAMP, SALM, SHIG, YERS epidemiologist
	Solvita Selderina selderina@delfi.lv	Infectology Center of Latvia	VTEC, LIST, CAMP, SALM, SHIG, YERS laboratory expert
Lithuania	Vilma Jonaitiene vilma.jonaitiene@nvspl.lt	Nacionaline Visuomenes Sveikatos Prieziuros Laboratorija	VTEC, LIST, CAMP, SALM, SHIG,YERS laboratory expert
	Jolita Mackeviciute j.mackeviciute@ulpkc.lt	National Centre for Communicable Diseases Prevention and Control	Replacing: VTEC, LIST, CAMP, SALM, SHIG, YERS epidemiologist
Luxembourg	Patrick Hau Patrick.hau@ms.etat.lu	Division de l'Inspection Sanitaire	EPI Surveillance + VTEC, LIST, CAMP, SALM, SHIG, YERS epidemiologist
	Joel Mossong joel.mossong@lns.etat.lu	Laboratoire National de Santé	VTEC, LIST, CAMP, SALM, SHIG, YERS epidemiologist
	Catherine Ragimbeau Catherine.ragimbeau@Ins.etat.lu	Laboratoire National de Santé	VTEC, LIST, CAMP, SALM, SHIG, YERS laboratory expert
Malta	Paul Caruana paul.a.caruana@gov.mt	Pathology Department, Bacteriology Laboratories, Mater Dei Hospital	Replacing: TUBE, HAEINF, MENI, SALM laboratory expert
	Anthony Gatt Anthony.b.gatt@gov.mt	Infectious Disease Prevention and Control Unit	VTEC, LIST, CAMP, SALM, SHIG, YERS epidemiologist
Netherlands	Kim van der Zwaluw Kim.van.der.Zwaluw@rivm.nl	National Institute of Public Health and the Environment (RIVM)	Replacing: VTEC, LIST, CAMP, SALM, YERS epidemiologist
	Wilfrid van Pelt W.van.pelt@rivm.nl	National Institute of Public Health and the Environment (RIVM)	VTEC, LIST, CAMP, SALM, SHIG, YERS epidemiologist + laboratory expert
Norway	Lin Thorstensen Brandal Lin.Thorstensen.Brandal@fhi.no	Norwegian Institute of Public Health	Replacing: VTEC, LIST, CAMP, SALM, SHIG, YERS laboratory expert
	Karin Nygård Karin.nygard@fhi.no	Norwegian Institute of Public Health	VTEC, LIST, CAMP, SALM, SHIG, YERS epidemiologist
New-Zealand	Fiona Thomson-Carter Fiona.thomson-carter@esr.cri.nz	Institute of Environmental Science and Research (ESR)	
Poland	Grzegorz Madajczak gmadajczak@pzh.gov.pl	Narodowy Instytut Zdrowia Publicznego	VTEC, LIST, SHIG laboratory expert
	Malgorzata Sadkowska-Todys mtodys@pzh.gov.pl	National Institute of Hygiene Department of Epidemiology	EPI Surveillance + VTEC, LIST, CAMP, SALM, SHIG, YERS epidemiologist
	Jolanta Szych jszych@pzh.gov.pl	National Institute of Public Health, National Institute of Hygiene	SALM, YERS laboratory expert
	Sebastian Wardak swardak@pzh.gov.pl	Narodowy Instytut Zdrowia Publicznego	CAMP laboratory expert
Portugal	Jorge Machado Jorge.machado@insa.min-saude.pt	Instituto Nacional de Saúde Doutor Ricardo Jorge, I.P.	SALM, VTEC, CAMP, LIST, SHIG, YERS laboratory expert

Country	Name/Contact	Organisation	Expertise
Romania	Maria Damian mdamian@cantacuzino.ro	Institute of Public Health	SALM laboratory expert
	Lavinia Cipriana Zota zotalavinia@ispb.ro lavi 31@yahoo.com	Institute of Public Health	VTEC, LIST, CAMP, SALM, SHIG, YERS, MENI epidemiologist
Slovak Republic	Dagmar Gavacova gavacova@uvzsr.sk	Public Health Authority of the Slovak Republic	VTEC, LIST, SALM, SHIG, YERS laboratory expert
	Lucia Hrivniakova hrivniakova@uvzsr.sk	Public Health Authority of the Slovak Republic	Replacing: VTEC, LIST, CAMP, SALM, SHIG, YERS, MENI epidemiologist
	Henrieta Kocianova henkoc@post.sk	RÚVZ	CAMP laboratory expert
	Maria Kusnierova nr.mzp@uvzsr.sk	Public Health Authority of the Slovak Republic	VTEC/STEC and Shigella
Slovenia	Eva Grilc eva.grilc@ivz-rs.si	Institute of Public Health	EPI Surveillance + VTEC, LIST, CAMP, SALM, SHIG, YERS epidemiologist
	Marija Trkov Marija.trkov@ivz-rs.si	Institute of Public Health	VTEC, LIST, CAMP, SALM, SHIG, YERS laboratory expert
	Tjasa Zohar Cretnik tjasa.cretnik@zzv-ce.si	ZZv Celje	SALM laboratory expert
South-Africa	Karen Keddy karenk@nicd.ac.za	Enteric Diseases Reference Unit National Institute for Communicable Diseases	
Spain	Gloria Hernandez-Pezzi ghpezzi@isciii.es	Instituto de Salud Carlos III Centro Nacional de Epidemiologia	EPI Surveillance + VTEC, LIST, CAMP, SALM, SHIG, YERS epidemiologist
	Silvia Herrera-Leon sherrera@isciii.es	Instituto de Salud Carlos III Centro Nacional de Microbiología.	Replacing: VTEC, CAMP, SALM, SHIG, YERS laboratory expert
Sweden	Sofie Ivarsson sofie.ivarsson@smi.ki.se	Swedish Institute for Infectious Disease Control	VTEC, LIST, SALM, SHIG epidemiologist
	Margareta Löfdahl margareta.lofdahl@smi.ki.se	Swedish Institute for Infectious Disease Control	CAMP, YERS epidemiologist
	Sven Löfdahl sven.lofdahl@smi.ki.se	Swedish Institute for Infectious Disease Control	VTEC, SHIG laboratory expert
	Ralfh Wollin ralfh.wollin@smi.ki.se	Swedish Institute for Infectious Disease Control	SALM, YERS laboratory expert
Switzerland	Herbert Hächler herbert.haechler@ksl.ch	Luzerner Kantonsspital Luzern, Instit Med. Microbiology, NENT	ut
	Hans Schmid hans.schmid@bag.admin.ch	Federal Office of Public Health	
Turkey	Belkis Levent b levent@yahoo.com	Refik Saydam Hygiene Center	
	Mustafa Bahadir Sucakli bahadir.sucakli@saglik.gov.tr	Directorate General of Primary Healt Care	h
UK	Bob Adak Bob.adak@hpa.org.uk	HPA Centre for Infections	VTEC, LIST, CAMP, SALM, SHIG, YERS epidemiologist
	lan Fisher lan.Fisher@HPA.org.uk	HPA Centre for Infections	
	Kathie Grant Kathie.grant@hpa.org.uk	HPA Centre for Infections	LIST laboratory expert

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Country	Name/Contact	Organisation	Expertise
	Dilys Morgan Dilys.Morgan@HPA.org.uk	HPA Centre for Infections	
	John Eric Threlfall John.Threlfall@hpa.org.uk	HPA Centre for Infections	VTEC, CAMP, SALM, SHIG, YERS laboratory expert
USA	Peter Gerner-Smidt plg5@cdc.gov	Centres of Disease Control and Prevention	
	lan Williams iaw3@CDC.GOV	Centres of Disease Control and Prevention	