



Deliverable

D-IA.2.2.OH-Harmony-Cap.2.1

Completed pilot survey

**Workpackage 2 of OH-
Harmony-Cap: Development
of the OHLabCap**

Responsible Partner: P13-SSI

Contributing partners: OH-Harmony-Cap
consortium



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COMPLETED PILOT SURVEY

Background

This is a public deliverable of One Health EJP Joint Research Project, **Integrative Action-2.2, OH-HARMONY-CAP**: One Health Harmonisation of Protocols for the Detection of Foodborne Pathogens and AMR Determinants

<https://onehealthejp.eu/jip-oh-harmony-cap/>

OH-Harmony-CAP is a 2.5 year project which aims to collect information on current capabilities, capacities and interoperability at both the National Reference Laboratory (NRL) and the primary diagnostic level. The quantitative description of current and best practices and the development of harmonised protocols will identify and possibly close the gaps and suggest future studies of how best to detect and characterise food borne pathogens across the One Health sectors.

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1. Development of OHLabCap

The purpose of this deliverable is to develop an integrated One Health map (OHLabCap) of the levels of system capability/capacity/interoperability for each of the EU MS that is repeatable and sustainable. Tools similar to those used in the EULabCap surveys for the public health microbiology laboratories were identified.

1.1. Pilot survey

During the Kick off meeting hosted by P21-APHA, Addlestone, UK , 22nd-23rd January 2020 workshops were organized around the elaboration of the pilot survey, leading to the following operational strategy:

1. The survey should consist of one pilot survey, running M25-M36 followed by an adjusted survey, which will become the OHLabCap.
2. The pilot survey should only be sent to the OH-HARMONY-CAP participants in order to test both the content, the format and the possible outcomes of the survey.
3. The pilot survey should cover six priority bacteria and ten priority parasites, as model organisms, together with the antimicrobial resistance (AMR) testing of *Campylobacter* and *Salmonella* .

They include:

- *Campylobacter*, *Listeria*, *Salmonella*, Shiga toxin-producing *E. coli* (STEC), *Shigella*, and *Yersinia*
 - *Anisakidae*, *Cryptosporidium* spp., *Echinococcus granulosus*, *Echinococcus multilocularis*, *Giardia lamblia*, *Taenia solium*, *Toxocara* spp., *Toxoplasma gondii*, *Trichinella spiralis*, and *Trichinella* spp. other than *T. spiralis*,
4. The 63 questions included in the pilot survey, incorporating capability, capacity, and interoperability (Figure 1) were formulated in workgroups, and finally,
 5. The EU Survey tool for the pilot survey questionnaire should be used.

The Pilot survey was distributed among OH-Harmony-Cap participants on September 7th, 2020 and the deadline for completion was October 4th, 2020.

Analysis of the pilot survey responses will focus around scoring options, similar to those used in EULabCAP survey. The score will be a compilation of indicators (questions included in the pilot survey), across three dimensions from the NRLs and primary diagnostic laboratory services.



1.1.1. Capabilities, capacities and interoperability

Capabilities, capacities and interoperability were defined in three dimensions and the final pilot survey contained 10 targets as shown in Figure 1.

Structural overview of OHLabCap

Three dimensions	Primary diagnostic testing	NRL services	Interoperability and communication
	Provision and regulation	Provision and regulation	National surveillance networks
10 targets	Diagnostic guidelines	Whole genome sequencing for surveillance	Active participation in EU disease networks
	Diagnostic testing and surveillance		National outbreak response support
	Antimicrobial drug susceptibility testing		Communications

19/11/2020

Figure 1. The structure of the **OHLabCap** pilot survey.



Below is the final output of the pilot **OHLabCap** survey which was generated by using the EU survey tool and distributed among the OH-Harmony-Cap participants.

OHLabCap survey

Fields marked with * are mandatory.



Dear Colleague,

We are developing a benchmarking Instrument "OHLabCap", which will provide a description of the One Health (OH) microbiology system by surveying food, feed and veterinary OH laboratories across all EU/EEA countries.

This pilot survey, is intended to measure the capacity, capability and interoperability across the OH sector. The survey is focused on six priority bacteria (*Campylobacter* spp., *Salmonella* spp., *Listeria*, Shiga toxin producing *E. coli* (STEC), *Shigella* spp. and *Yersinia* spp.) and ten priority parasites (*Echinococcus multilocularis*, *Toxoplasma gondii*, *Trichinella spiralis*, *Echinococcus granulosus*, *Cryptosporidium* spp., *Trichinella* spp. other than *T. spiralis*, *Giardia lamblia*, Anisakidae, *Toxicara* spp. and *Taenia solium*).

In the event that several individuals are responsible for answering the questions in this survey please use "**Save as Draft**" button in the upper right corner box and share the link between the colleague(s) responsible for the respective organism(s). Also, if your session shows "time out" please open the survey link again or click "F5".

We will ensure everyone benefits from an insight into National networks, infrastructure and communication across the entire OH sector. The information gathered here will be included in a technical report and implementation of the "OHLabCap". This will be disseminated to all participating laboratories.

Thank you for your cooperation,

*Nadia Boisen and Flemming Scheutz
OneHealth-Harmony Coordinators*



Role of your laboratory

Here, we would like some general information.

- * 1. At what level does your laboratory operate: National, regional or local?

- National
- Regional
- Local
- other

Other:

- * 2. What source material does your laboratory test?

- Animals
- Humans
- Food / feed
- Environment

- * 3. Does your laboratory perform diagnostics, surveillance or both?

- Diagnostics
- Surveillance

Provision and regulation of microbiology services

Here, the main purpose is to get an idea of your capability and how your laboratory is regulated, organised and funded.

- * 4. Are your clinical (human) microbiology laboratory tests funded/reimbursed in total, or in part, either by a national insurance scheme or by a governmental budget?

- Not relevant
- No tests are reimbursed
- For hospital inpatient testing
- For in- and outpatient testing
- External customers

- * 5. Are your animal microbiology laboratory tests funded/reimbursed in total, or in part, either by a national insurance scheme or by a governmental budget?

- Not relevant
- No tests are reimbursed
- All tests are fully reimbursed
- All test are partly reimbursed



For commercial activities

* 6. Are your microbiology laboratory tests funded/reimbursed in total, or in part, either by a national insurance scheme or by a governmental budget?

- Not relevant
- No tests are reimbursed
- All tests are fully reimbursed
- All test are partly reimbursed
- For commercial and other (external or funded) activities

* 7. How many **trained** (microbiology laboratory) personnel are working in your laboratory (staff and temporary staff)?

* 8. What is the human population in your laboratory uptake area?

- 0-1000
- 1000-10,000
- 10,000-100,000
- 100,000-1,000,000
- 1,000,000-5,000,000
- 5,000,000-10,000,000
- >10,000,000
- Do not know

* 9. How many samples, of the **combined** 16 priority bacteria and parasites, did your laboratory analyse in 2019? Please include all processed samples, both negative and possible results as one total.

* 10. How many, of the 16 priority bacteria and parasites, does your laboratory have an accredited test for?

* 11. Is your laboratory accredited according to, either ISO 17025, ISO 15189, or equivalent national standards?

- ISO 15189
- ISO 17025
- equivalent national standards

* 12. When your laboratory needs to upscale, e.g. in an emergency situation, what is your **weekly** maximum number of samples of the combined 16 priority bacteria and parasites?

- < 100
- 100-300
- 300-500
- 500-700
- 700-1000
- > 1000



13. If needed, what is your maximum capacity for typing of the 16 priority bacteria and parasites per week?

	Maximum number of isolates that can be typed per week
• <i>Campylobacter</i> spp.	
• <i>Salmonella</i> spp.	
• <i>Listeria</i>	
• Shiga toxin producing <i>E. coli</i>	
• <i>Shigella</i> spp.	
• <i>Yersinia</i> spp.	
• <i>Echinococcus multilocularis</i>	
• <i>Toxoplasma gondii</i>	
• <i>Trichinella spiralis</i>	
• <i>Echinococcus granulosus</i>	
• <i>Cryptosporidium</i> spp.	
• <i>Trichinella</i> spp. other than <i>T. spiralis</i>	
• <i>Giardia lamblia</i>	
• Anisakidae	
• <i>Toxicara</i> spp.	
• <i>Taenia solium</i>	

* 14. Does your laboratory have a contingency plan in case of too many samples received?

- Yes
- No

* 15. Does your laboratory have a Laboratory information management system (LIMS), or equivalent to LIMS, available?

- Yes
- No
- Other equivalent

Other equivalent:

* 16. How does your laboratory store your sample data?

- Paper
- Digital

* 17. Has your laboratory required an authorisation/registration from health, food, feed or veterinary authorities (or professional organisations) according to legal/regulatory requirements?

- Not required
- Required



Diagnostic guidelines

18. Does your laboratory perform tests for the 16 priority bacteria and parasites?

	Yes	No
* <i>Campylobacter</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Salmonella</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Listeria</i>	<input type="radio"/>	<input type="radio"/>
* Shiga toxin producing <i>E. coli</i>	<input type="radio"/>	<input type="radio"/>
* <i>Shigella</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Yersinia</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Echinococcus multilocularis</i>	<input type="radio"/>	<input type="radio"/>
* <i>Toxoplasma gondii</i>	<input type="radio"/>	<input type="radio"/>
* <i>Trichinella spiralis</i>	<input type="radio"/>	<input type="radio"/>
* <i>Echinococcus granulosus</i>	<input type="radio"/>	<input type="radio"/>
* <i>Cryptosporidium</i> spp.	<input type="radio"/>	<input type="radio"/>

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* <i>Trichinella</i> spp. other than <i>T. spiralis</i>	<input type="radio"/>	<input type="radio"/>
* <i>Giardia lamblia</i>	<input type="radio"/>	<input type="radio"/>
* Anisakidae	<input type="radio"/>	<input type="radio"/>
* <i>Toxicara</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Taenia solium</i>	<input type="radio"/>	<input type="radio"/>

19. Does your laboratory have national guidelines available for the six priority bacteria?

Note: This could be any kind of guideline for the specific organism or clinical guidelines including priorities of examination of patients with diarrhoea i.e. bloody diarrhoea, certain age groups etc. It could also be the number of recommended tests, herds or animals. The survey just wants to register if guidelines are in place or not.

	Guidelines are not available at the national level	Guidelines are available without compliance monitoring	Guidelines are implemented with compliance monitoring	In house guidelines	Other	Not relevant
* <i>Campylobacter</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Salmonella</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Listeria</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Shiga toxin producing <i>E. coli</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Shigella</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Yersinia</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



20. Does your laboratory have national guidelines available for the 10 priority parasites?

Note: This could be any kind of guideline for the specific organism or clinical guidelines including priorities of examination of patients with diarrhoea i.e. bloody diarrhoea, certain age groups etc. It could also be the number of recommended tests, herds or animals. The survey just wants to register if guidelines are in place or not.

	Guidelines are not available at the national level	Guidelines are available without compliance monitoring	Guidelines are implemented with compliance monitoring	In house guidelines	Other	Not relevant
• <i>Echinococcus multilocularis</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
• <i>Toxoplasma gondii</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
• <i>Trichinella spiralis</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
• <i>Echinococcus granulosus</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
• <i>Cryptosporidium</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
• <i>Trichinella</i> spp. other than <i>T. spiralis</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
• <i>Giardia lamblia</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
• Anisakidae	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
• <i>Toxicara</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
• <i>Taenia solium</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

21. Does your laboratory have a national standard protocol for the 16 priority bacteria and parasites?

	Yes	No
• <i>Campylobacter</i> spp.	<input type="radio"/>	<input type="radio"/>
• <i>Salmonella</i> spp.	<input type="radio"/>	<input type="radio"/>
• <i>Listeria</i>	<input type="radio"/>	<input type="radio"/>
• Shiga toxin producing <i>E. coli</i>	<input type="radio"/>	<input type="radio"/>
• <i>Shigella</i> spp.	<input type="radio"/>	<input type="radio"/>
• <i>Yersinia</i> spp.	<input type="radio"/>	<input type="radio"/>
• <i>Echinococcus multilocularis</i>	<input type="radio"/>	<input type="radio"/>
• <i>Toxoplasma gondii</i>	<input type="radio"/>	<input type="radio"/>
• <i>Trichinella spiralis</i>	<input type="radio"/>	<input type="radio"/>
• <i>Echinococcus granulosus</i>	<input type="radio"/>	<input type="radio"/>
• <i>Cryptosporidium</i> spp.	<input type="radio"/>	<input type="radio"/>
• <i>Trichinella</i> spp. other than <i>T. spiralis</i>	<input type="radio"/>	<input type="radio"/>
• <i>Giardia lamblia</i>	<input type="radio"/>	<input type="radio"/>
• Anisakidae	<input type="radio"/>	<input type="radio"/>
• <i>Toxicara</i> spp.	<input type="radio"/>	<input type="radio"/>
• <i>Taenia solium</i>	<input type="radio"/>	<input type="radio"/>



22. Does your laboratory have a reference method for the 16 priority bacteria and parasites?

	Yes	No
* <i>Campylobacter</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Salmonella</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Listeria</i>	<input type="radio"/>	<input type="radio"/>
* Shiga toxin producing <i>E. coli</i>	<input type="radio"/>	<input type="radio"/>
* <i>Shigella</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Yersinia</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Echinococcus multilocularis</i>	<input type="radio"/>	<input type="radio"/>
* <i>Toxoplasma gondii</i>	<input type="radio"/>	<input type="radio"/>
* <i>Trichinella spiralis</i>	<input type="radio"/>	<input type="radio"/>
* <i>Echinococcus granulosus</i>	<input type="radio"/>	<input type="radio"/>

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* <i>Cryptosporidium</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Trichinella</i> spp. other than <i>T. spiralis</i>	<input type="radio"/>	<input type="radio"/>
* <i>Giardia lamblia</i>	<input type="radio"/>	<input type="radio"/>
* Anisakidae	<input type="radio"/>	<input type="radio"/>
* <i>Toxicara</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Taenia solium</i>	<input type="radio"/>	<input type="radio"/>

Diagnostic testing and surveillance

23. How many of the six priority bacteria did your laboratory type (both culture and molecular) in 2019?

	Number of isolates typed in 2019
* <i>Campylobacter</i> spp.	
* <i>Salmonella</i> spp.	
* <i>Listeria</i>	
* Shiga toxin producing <i>E. coli</i>	
* <i>Shigella</i> spp.	
* <i>Yersinia</i> spp.	

24. How many, of the 10 priority parasites did your laboratory type in 2019?

	Number of isolates typed in 2019
* <i>Echinococcus multilocularis</i>	
* <i>Toxoplasma gondii</i>	
* <i>Trichinella spiralis</i>	
* <i>Echinococcus granulosus</i>	
* <i>Cryptosporidium</i> spp.	
* <i>Trichinella</i> spp. other than <i>T. spiralis</i>	
* <i>Giardia lamblia</i>	
* Anisakidae	
* <i>Toxicara</i> spp.	
* <i>Taenia solium</i>	



25. What level of typing does your laboratory perform on the 16 priority bacteria and parasites?

	Phenotypical (including biochemical reactions and microscopy)	Molecular	Both phenotypical and molecular	Not relevant
* <i>Campylobacter</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Salmonella</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Listeria</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Shiga toxin producing <i>E. coli</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Shigella</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Yersinia</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Echinococcus multilocularis</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Toxoplasma gondii</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Trichinella spiralis</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Echinococcus granulosus</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Cryptosporidium</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Trichinella</i> spp. other than <i>T. spiralis</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Giardia lamblia</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Anisakidae	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Toxicara</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Taenia solium</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

26. How does your laboratory type the six priority bacteria?

	Serotyping	Virulence genes	Multiple locus variable number of tandem repeats analysis (MLVA)	Sequence type (ST)	Core genome multilocus sequence typing (cgMLST)	Whole genome multilocus sequence typing (wgMLST)	Single nucleotide polymorphisms (SNP) analysis	Not relevant
* <i>Campylobacter</i> spp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Salmonella</i> spp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Listeria</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* Shiga toxin producing <i>E. coli</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Shigella</i> spp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Yersinia</i> spp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



27. How does your laboratory type the 10 priority parasites?

	Single locus	Multi locus	MLST	WGS	Others, please specify in a box below
* <i>Echinococcus multilocularis</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Toxoplasma gondii</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Trichinella spiralis</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Echinococcus granulosus</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Cryptosporidium</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Trichinella</i> spp. other than <i>T. spiralis</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Giardia lamblia</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Anisakidae	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Toxicara</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Taenia solium</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Other typing methods

Antimicrobial drug susceptibility testing

- * 28. Does your laboratory perform AMR testing on *Salmonella* and zoonotic thermophilic *Campylobacter* (*jejuni*, *coli* and *larji*)
 - Yes, *Salmonella*
 - Yes, *Campylobacter*
 - Yes, both
 - No

- * 29. Does your laboratory use EUCAST clinical breakpoints (http://www.eucast.org/clinical_breakpoints/) for interpretive reporting of antibacterial drug susceptibility?
 - Yes
 - No

Provision and regulation of national reference microbiology services

- * 30. Is your laboratory allowed to share person identifiable data with other authorities in case of an outbreak?
 - Yes
 - No



31. Does your laboratory have the capacity to store the six priority bacteria (e.g. isolates, DNA, stool, tissue) for more than two weeks?

	Yes	No
• <i>Campylobacter</i> spp.	<input type="radio"/>	<input type="radio"/>
• <i>Salmonella</i> spp.	<input type="radio"/>	<input type="radio"/>
• <i>Listeria</i>	<input type="radio"/>	<input type="radio"/>
• Shiga toxin producing <i>E. coli</i>	<input type="radio"/>	<input type="radio"/>
• <i>Shigella</i> spp.	<input type="radio"/>	<input type="radio"/>
• <i>Yersinia</i> spp.	<input type="radio"/>	<input type="radio"/>

32. If yes, how long does your laboratory have the capacity to store the six priority bacteria?

	Two weeks	12 months	> 1 year
<i>Campylobacter</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Salmonella</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Listeria</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Shiga toxin producing <i>E. coli</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Shigella</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Yersinia</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

33. Does your laboratory have the capacity to store the 10 priority parasites (e.g. isolates, DNA, stool, tissue)?

	Yes	No
• <i>Echinococcus multilocularis</i>	<input type="radio"/>	<input type="radio"/>
• <i>Toxoplasma gondii</i>	<input type="radio"/>	<input type="radio"/>
• <i>Trichinella spiralis</i>	<input type="radio"/>	<input type="radio"/>
• <i>Echinococcus granulosus</i>	<input type="radio"/>	<input type="radio"/>
• <i>Cryptosporidium</i> spp.	<input type="radio"/>	<input type="radio"/>
• <i>Trichinella</i> spp. other than <i>T. spiralis</i>	<input type="radio"/>	<input type="radio"/>
• <i>Giardia lamblia</i>	<input type="radio"/>	<input type="radio"/>
• Anisakidae	<input type="radio"/>	<input type="radio"/>
• <i>Toxicara</i> spp.	<input type="radio"/>	<input type="radio"/>
• <i>Taenia solium</i>	<input type="radio"/>	<input type="radio"/>



34. If yes, how long does your laboratory have the capacity to store the 10 priority parasites?

	Two weeks	12 months	> 1 year
<i>Echinococcus multilocularis</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Toxoplasma gondii</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Trichinella spiralis</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Echinococcus granulosus</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Cryptosporidium</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Trichinella</i> spp. other than <i>T. spiralis</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Giardia lamblia</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Anisakidae	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Toxicara</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<i>Taenia solium</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

35. Does your laboratory have the capacity to store sequence data from the 16 priority bacteria and parasites?

	Yes	No
* <i>Campylobacter</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Salmonella</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Listeria</i>	<input type="radio"/>	<input type="radio"/>
* Shiga toxin producing <i>E. coli</i>	<input type="radio"/>	<input type="radio"/>
* <i>Shigella</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Yersinia</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Echinococcus multilocularis</i>	<input type="radio"/>	<input type="radio"/>
* <i>Toxoplasma gondii</i>	<input type="radio"/>	<input type="radio"/>
* <i>Trichinella spiralis</i>	<input type="radio"/>	<input type="radio"/>
* <i>Echinococcus granulosus</i>	<input type="radio"/>	<input type="radio"/>
* <i>Cryptosporidium</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Trichinella</i> spp. other than <i>T. spiralis</i>	<input type="radio"/>	<input type="radio"/>
* <i>Giardia lamblia</i>	<input type="radio"/>	<input type="radio"/>
* Anisakidae	<input type="radio"/>	<input type="radio"/>
* <i>Toxicara</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Taenia solium</i>	<input type="radio"/>	<input type="radio"/>



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36. Does your laboratory utilize subcontractors, partnerships, or equivalent, for the characterisation and/or analysis of the 16 priority bacteria and parasites?

	Yes	No
* <i>Campylobacter</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Salmonella</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Listeria</i>	<input type="radio"/>	<input type="radio"/>
* Shiga toxin producing <i>E. coli</i>	<input type="radio"/>	<input type="radio"/>
* <i>Shigella</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Yersinia</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Echinococcus multilocularis</i>	<input type="radio"/>	<input type="radio"/>
* <i>Toxoplasma gondii</i>	<input type="radio"/>	<input type="radio"/>
* <i>Trichinella spiralis</i>	<input type="radio"/>	<input type="radio"/>
* <i>Echinococcus granulosus</i>	<input type="radio"/>	<input type="radio"/>
* <i>Cryptosporidium</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Trichinella</i> spp. other than <i>T. spiralis</i>	<input type="radio"/>	<input type="radio"/>
* <i>Giardia lamblia</i>	<input type="radio"/>	<input type="radio"/>
* Anisakidae	<input type="radio"/>	<input type="radio"/>
* <i>Toxicara</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Taenia solium</i>	<input type="radio"/>	<input type="radio"/>

Whole genome sequencing (WGS) for surveillance

37. Does your laboratory use WGS-based typing of the six priority bacteria for routine surveillance?

	No WGS performed and no plans in place to do WGS	No WGS performed but a WGS plan is in progress	WGS is used occasionally	WGS is used routinely
* <i>Campylobacter</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Salmonella</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Listeria</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Shiga toxin producing <i>E. coli</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Shigella</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



* <i>Yersinia</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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38. Does your laboratory use WGS-based typing of the 10 priority parasites for routine surveillance?

	No WGS performed and no plans in place to do WGS	No WGS performed but a WGS plan is in progress	WGS is used occasionally	WGS is used routinely
* <i>Echinococcus multilocularis</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Toxoplasma gondii</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Trichinella spiralis</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Echinococcus granulosus</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Cryptosporidium</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Trichinella</i> spp. other than <i>T. spiralis</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Giardia lamblia</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Anisakidae	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Toxicara</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Taenia solium</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

39. Does your laboratory use WGS for serotyping, virulence characterization, and speciation for the six priority bacteria?

	Yes	No	Occasionally
* <i>Campylobacter</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Salmonella</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Listeria</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Shiga toxin producing <i>E. coli</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Shigella</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Yersinia</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

40. Does your laboratory use WGS for characterization and speciation of the 10 priority parasites?

	Yes	No	Occasionally
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* <i>Echinococcus multilocularis</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Toxoplasma gondii</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Trichinella spiralis</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Echinococcus granulosus</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Cryptosporidium</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Trichinella</i> spp. other than <i>T. spiralis</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Giardia lamblia</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* Anisakidae	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Toxicara</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Taenia solium</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

National surveillance networks

* 41. Do you know your in-country One Health counterparts?

Note: If you are a human clinical laboratory, do you know your food/feed and/or animal counterpart(s) and vice versa.

- Yes, local
- Yes, national
- Both local and national
- No

* 42. Do you have contact or meetings with your counterpart?

- Yes
- No

* 43. How often do you have contact or meetings with your counterpart?

- Weekly
- Monthly
- Annually
- Not applicable

44. Which of the 16 priority bacteria and parasites are laboratory notifiable in your country. Please answer based on laboratory findings not on clinical diagnosis or suspicion.

	Yes	No
* <i>Campylobacter</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Salmonella</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Listeria</i>	<input type="radio"/>	<input type="radio"/>



• Shiga toxin producing <i>E. coli</i>	<input type="radio"/>	<input type="radio"/>
• <i>Shigella</i> spp.	<input type="radio"/>	<input type="radio"/>
• <i>Yersinia</i> spp.	<input type="radio"/>	<input type="radio"/>
• <i>Echinococcus multilocularis</i>	<input type="radio"/>	<input type="radio"/>
• <i>Toxoplasma gondii</i>	<input type="radio"/>	<input type="radio"/>
• <i>Trichinella spiralis</i>	<input type="radio"/>	<input type="radio"/>
• <i>Echinococcus granulosus</i>	<input type="radio"/>	<input type="radio"/>
• <i>Cryptosporidium</i> spp.	<input type="radio"/>	<input type="radio"/>
• <i>Trichinella</i> spp. other than <i>T. spiralis</i>	<input type="radio"/>	<input type="radio"/>
• <i>Giardia lamblia</i>	<input type="radio"/>	<input type="radio"/>
• Anisakidae	<input type="radio"/>	<input type="radio"/>
• <i>Toxicara</i> spp.	<input type="radio"/>	<input type="radio"/>
• <i>Taenia solium</i>	<input type="radio"/>	<input type="radio"/>

45. Does your laboratory report data, on the 16 priority bacteria and parasites, into a **national** surveillance database?

	Yes	Yes, data from the whole country	No, only partial, local /regional	None
• <i>Campylobacter</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
• <i>Salmonella</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
• <i>Listeria</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
• Shiga toxin producing <i>E. coli</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
• <i>Shigella</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
• <i>Yersinia</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
• <i>Echinococcus multilocularis</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
• <i>Toxoplasma gondii</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
• <i>Trichinella spiralis</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
• <i>Echinococcus granulosus</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
• <i>Cryptosporidium</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
• <i>Trichinella</i> spp. other than <i>T. spiralis</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
• <i>Giardia lamblia</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



* Anisakidae	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Toxicara</i> spp.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
* <i>Taenia solium</i>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* 46. Who is responsible for the notification to the authorities?

- Technician
- Academic staff
- Clinician / medical doctor
- Head of laboratory

* 47. How are the results reported?

- Digital
- Paper
- Phone

* 48. Where are the national surveillance results reported?

- Weekly report
- Webpage
- Annual report
- Peer review publications
- Not nationally

* 49. Does your laboratory have confidentiality agreements, across the OH sector, on the 16 priority bacteria and parasites?

- Yes
- No

Active participation in EU disease networks



50. Did your laboratory actively participate in an EU disease network organized by ECDC, EFSA, or the EU Commission in 2019?

	No participation	Food- and waterborne (FWD) ECDC disease network	External quality assessments (EQA)	Annual meeting	European Union Reference Laboratories (EURL) Foodborne parasites	Other (please specify in a box below)
* <i>Campylobacter</i> spp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Salmonella</i> spp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Listeria</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* Shiga toxin producing <i>E. coli</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Shigella</i> spp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Yersinia</i> spp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Echinococcus multilocularis</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Toxoplasma gondii</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Trichinella spiralis</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Echinococcus granulosus</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Cryptosporidium</i> spp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Trichinella</i> spp. other than <i>T. spiralis</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Giardia lamblia</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* Anisakidae	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Toxicara</i> spp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Taenia solium</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Other networks

51. What are the criteria for reporting the 16 priority bacteria and parasites, to the EU networks?

	Routine	Suspicion of and outbreak	No reporting
* <i>Campylobacter</i> spp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Salmonella</i> spp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Listeria</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* Shiga toxin producing <i>E. coli</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Shigella</i> spp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Yersinia</i> spp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Echinococcus multilocularis</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Toxoplasma gondii</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Trichinella spiralis</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Echinococcus granulosus</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Cryptosporidium</i> spp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Trichinella</i> spp. other than <i>T. spiralis</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Giardia lamblia</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* Anisakidae	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Toxicara</i> spp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Taenia solium</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



52. Which authority do you report the surveillance results to?

	European Food Safety Authority (EFSA)	European Centre for Disease Prevention and Control (ECDC)	National Surveillance authorities (epidemiologists etc.)	National Reference Laboratory (NRL)	No reporting
* <i>Campylobacter</i> spp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Salmonella</i> spp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Listeria</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* Shiga toxin producing <i>E. coli</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Shigella</i> spp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Yersinia</i> spp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Echinococcus multilocularis</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Toxoplasma gondii</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Trichinella spiralis</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Echinococcus granulosus</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Cryptosporidium</i> spp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

* <i>Trichinella</i> spp. other than <i>T. spiralis</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Giardia lamblia</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* Anisakidae	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Toxicara</i> spp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* <i>Taenia solium</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



National outbreak response support

* 53. Does personnel from your laboratory participate, as a member, in a foodborne outbreak investigation team?

- Yes
- No

* 54. Does your laboratory have trained personnel available for assistance in the outbreak teams at national level?

- No personnel available
- Personnel available during working hours
- Personnel available in 24/7 duty roster

55. Does your laboratory share data across OH sectors (e.g. diagnostic, typing, and characterisation) from the 16 priority bacteria and parasites, with other authorities?

	Yes	No
* <i>Campylobacter</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Salmonella</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Listeria</i>	<input type="radio"/>	<input type="radio"/>
* Shiga toxin producing <i>E. coli</i>	<input type="radio"/>	<input type="radio"/>
* <i>Shigella</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Yersinia</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Echinococcus multilocularis</i>	<input type="radio"/>	<input type="radio"/>
* <i>Toxoplasma gondii</i>	<input type="radio"/>	<input type="radio"/>
* <i>Trichinella spiralis</i>	<input type="radio"/>	<input type="radio"/>
* <i>Echinococcus granulosus</i>	<input type="radio"/>	<input type="radio"/>
* <i>Cryptosporidium</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Trichinella</i> spp. other than <i>T. spiralis</i>	<input type="radio"/>	<input type="radio"/>
* <i>Giardia lamblia</i>	<input type="radio"/>	<input type="radio"/>
* Anisakidae	<input type="radio"/>	<input type="radio"/>
* <i>Toxicara</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Taenia solium</i>	<input type="radio"/>	<input type="radio"/>

* 56. Does your laboratory share data across OH sectors during outbreaks?

- Yes
- No



57. Do you have a contingency plan for the 16 priority bacteria and parasites during an outbreak?

	Yes	No
* <i>Campylobacter</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Salmonella</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Listeria</i>	<input type="radio"/>	<input type="radio"/>
* Shiga toxin producing <i>E. coli</i>	<input type="radio"/>	<input type="radio"/>
* <i>Shigella</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Yersinia</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Echinococcus multilocularis</i>	<input type="radio"/>	<input type="radio"/>
* <i>Toxoplasma gondii</i>	<input type="radio"/>	<input type="radio"/>
* <i>Trichinella spiralis</i>	<input type="radio"/>	<input type="radio"/>
* <i>Echinococcus granulosus</i>	<input type="radio"/>	<input type="radio"/>
* <i>Cryptosporidium</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Trichinella</i> spp. other than <i>T. spiralis</i>	<input type="radio"/>	<input type="radio"/>
* <i>Giardia lamblia</i>	<input type="radio"/>	<input type="radio"/>
* Anisakidae	<input type="radio"/>	<input type="radio"/>
* <i>Toxicara</i> spp.	<input type="radio"/>	<input type="radio"/>
* <i>Taenia solium</i>	<input type="radio"/>	<input type="radio"/>

* 58. Do you receive information from any authority in case of outbreaks?

- Yes
- No

* 59. Does your laboratory form outbreak teams?

- Yes
- No
- Don't know

Communications

* 60. Does your laboratory have a website or Newsletter?

- Yes
- No

* 61. How does your laboratory disseminate your diagnostic and typing results?



- National
- International
- No dissemination

* 62. Does your laboratory communicate with the public?

- Yes
- No
- Don't know

* 63. Do you have a press/media communication team?

- Yes
- No
- Don't know

Contact information

* 64. Name of Institution

* 65. Contact person

* 66. Email address

Final comments

Was there any question(s) that was not fully appropriated to your laboratory? and important information may be lost as a result of this. Please provide details.

Is there anything else you wish to add to the information you have provided?

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