HEPATITIS E IN HUMANS AND WILD BOAR FOOD CHAIN - SECTION A

SURVEILLANCE OF DISEASE IN HUMANS

Dear participant,
in the context of the OHEJP Matrix, Work-Package 2 (Best-practices and multi-sectorial collaboration) implemented this online questionnaire to collect information about the surveillance of **Hepatitis E** in the **wild boar food chain**, in three sectors: public health, animal health, and food safety.

We would like to thank you for your willingness to fill in the questionnaire for the **public health** sector.

Please find hereby some information regarding personal data processing.

Under Articles 13 and 14 of Regulation (EU) 2016/679, the personal data processing concerns the personal data - name, family name, institution, email address - of those who answer the questionnaire as part of the Matrix project.
The data controller is the legal representative of Istituto Zooprofilattico Sperimentale Abruzzo e Molise "G. Caporale" – Teramo (Italy), www.izs.it - protocollo@pec.izs.it, +3908613321. The contact details of the DPO of the Institute are: dpo@izs.it, dpo@pec.izs.it, +39 0861 3321.
Personal data collected will be processed for purposes connected with the handling of the contractual requirements related to the management of the Matrix project (art. 6, § 1, letter b) of Regulation).
The personal data provided will not be subject to communication and/or dissemination.
All personal data collected will be processed electronically on digital medium using the specific information systems and, in any case, the processing is made exclusively by personnel in charge. All data collected will be retained anonymously on digital.
At any time, data subjects have the right to ask the data controller for accessing their personal data, confirming such data exist, to know the content, the origin, and the processing terms, to request the update, the rectification, the erasure, the transformation into anonymity or the blocking of the data processed in breach of the law or to object the processing. The related request should be made by contacting the Data Protection Officer or the supervisory authority, in particular in the Member State of his or her habitual residence.

* 1. Country

* 2. Contact info of the person replying to the questionnaire

Name and Surname

Institution

E-mail address

HEPATITIS E IN HUMANS AND WILD BOAR FOOD CHAIN - SECTION A

OFFICIAL SURVEILLANCE

3. Is Hepatitis E infection a notifiable disease* in your country?

** "A disease that, by law, must be reported to public health authorities upon diagnosis." (EJP ORION Glossary)*

- ◯ YES
- ◯ NO

4. Is there any legal (official) “case definition” and/or “outbreak definition” in your country?

- ◯ YES
- ◯ NO

5. If yes, please specify the case-definition both for “probable” and/or “confirmed” case:

6. What kind of HEV clinical cases are notified?

- ◯ Acute cases
- ◯ Chronic cases
- ◯ Acute and chronic cases

7. Please provide the case-definition for acute and chronic HEV cases in place in your country:

8. Which is the source of information for the reported data on confirmed human cases?

- ☐ Hospital/clinical Laboratory
- ☐ Local Laboratory
- ☐ Reference Laboratory
- ☐ General Practitioner
- ☐ Hospital physicians
- ☐ Other (please specify)

9. Is the data collection for human cases performed for:

	Case based	Aggregated
Probable case	☐	☐
Confirmed case	☐	☐
Outbreak	☐	☐
Other	☐	☐

Other (please specify)

10. Please indicate the types of information routinely collected by official surveillance [1].
Demographic data:

**Surveillance understood as "Hazard-specific (Targeted) Surveillance: The planned collection of precise data on the presence of a specific disease or pathogen (hazard) within a defined population." (EJP ORION Glossary)*

- ☐ Age (or date of birth)
- ☐ Gender
- ☐ Potential risk factors
  (e.g. transplantation, chronic liver diseases etc.)
- ☐ Profession
- ☐ Occupational exposure
- ☐ Place of residence*
- ☐ Travel history
- ☐ Other information (please specify)

11. * Please specify the level of detail (address, city, municipality, etc.)

12. Please indicate the types of information routinely collected by official surveillance.

Epidemiological data:

- [ ] Case status (probable or confirmed)
- [ ] Date of notification
- [ ] Source of notification
- [ ] Probable or confirmed place of exposure* - Restaurant
- [ ] Probable or confirmed place of exposure* - Home
- [ ] Probable or confirmed place of exposure* - Hunt
- [ ] Probable or confirmed place of exposure* - Travel related
- [ ] Probable or confirmed type of exposure - Food
- [ ] Probable or confirmed type of exposure - Contact with animals
- [ ] Probable or confirmed type of exposure - Link with other cases
- [ ] Probable or confirmed type of exposure - Occupational exposure
- [ ] Probable or confirmed date of exposure **
- [ ] Other (please specify)

13. * If this information is collected please specify the geographical detail at which information is recorded:

14. ** If this information is collected please specify what kind of information is recorded:

15. Please indicate the types of information routinely collected by official surveillance.

Clinical data:

- [ ] Date of clinical onset
- [ ] Date of recovery*
  (e.g. date of the resolution of symptoms, date of discharge from the hospital, etc.)
- [ ] Fatal (yes / no)
- [ ] Date of death
- [ ] Hospitalized (yes / no)
- [ ] Symptoms
  (e.g. asymptomatic, fever, jaundice, fatigue, asthenia, nausea, other, unknown)
- [ ] Other (please specify)

16. * If this information is collected please specify:

17. Please indicate the types of information routinely collected by official surveillance.

Laboratory data:

- [ ] Type of specimen
  (stool, serum, etc.)
- [ ] Sampler
  (institution that collects clinical specimen e.g. hospital, local laboratory etc.)
- [ ] Date of sample collection
- [ ] Date of sample receipt
- [ ] Date of laboratory results
- [ ] Laboratory results - Detection
- [ ] Laboratory results - Serology
- [ ] Laboratory results - Characterization
- [ ] Other (please specify)

18. How often are the data collected by official surveillance?

- ◯ Ongoing
- ◯ Monthly
- ◯ Quarterly
- ◯ As required
- ◯ Other (please specify)

19. If the data collection is “ongoing”, what is the required notification time period?

- ◯ 24 hours
- ◯ 48 hours
- ◯ one week
- ◯ two weeks
- ◯ Other (please specify)

20. Does screening for Hepatitis E infections of blood and organ donations occur in your country?

- ◯ Yes
- ◯ No

21. Are data on confirmed human cases coming from the local level transmitted to the national level?

- ◯ Yes
- ◯ No

22. Are data on confirmed human cases collected and stored in electronic data collection systems at the national level?

- ◯ Yes
- ◯ No

23. Please, provide the name and contact details of the institution in charge of collecting and storing data coming from official surveillance on human cases at the national level.

Institution	
City	
Website	

HEPATITIS E IN HUMANS AND WILD BOAR FOOD CHAIN - SECTION A

AD HOC DATA COLLECTION

24. Has been/Is in place any ad hoc data collection* of HEV infection in humans in your country?
If yes, when were/are the data collected?

**Data collection carried out to supplement information from the surveillance system.*

	On going	Monthly	Quarterly	As required *(E.g. as a part of a defined study or during a defined period)*	No
Outbreak investigation	☐	☐	☐	☐	☐
Clinical study	☐	☐	☐	☐	☐
Epidemiological study	☐	☐	☐	☐	☐
Research study	☐	☐	☐	☐	☐
Hospital data collection system	☐	☐	☐	☐	☐
Other	☐	☐	☐	☐	☐

Other (please specify)

25. What data fields are available in the case of ad hoc data collection?

- ☐ Number of human cases
- ☐ Number of hospitalizations
- ☐ Number of deaths
- ☐ Source identified as probable or confirmed
- ☐ Link with other cases
- ☐ Level of evidence
- ☐ Laboratory results
- ☐ Other (please specify)

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LABORATORY BASED SURVEILLANCE

26. Please specify the laboratory test used routinely to detect HEV for each type of sample:

	Stool	Serum/Plasma
Real time RT-PCR	☐	☐
LAMP (loop-mediated isothermal amplification) techniques	☐	☐
RT- LAMP	☐	☐
Western blot (WB)	☐	☐
Enzyme-linked immunosorbent assay (ELISA)	☐	☐
Enzyme immunoassays (EIA)	☐	☐
Other	☐	☐

Other (please specify)

27. Are the HEV strains usually genotyped?

- ◯ Yes
- ◯ No

28. If yes, which laboratory methods are used routinely to classify HEV strains?

	Always	Sometimes	Never
Nested RT- PCR + sequencing	◯	◯	◯
Whole genome sequencing	◯	◯	◯
Other	◯	◯	◯

Other (please specify)

29. How do you share the results of laboratory methods? Please check for each diagnostic test one or more possibilities

	National level	Sub-national / Regional level	Local level	Intersectorial: human, animal, food	Not shared
Real time RT-PCR	☐	☐	☐	☐	☐
RT-LAMP (loop-mediated isothermal amplification) techniques	☐	☐	☐	☐	☐
Nested RT PCR + sequencing	☐	☐	☐	☐	☐
Whole genome sequencing	☐	☐	☐	☐	☐
Western blot (WB)	☐	☐	☐	☐	☐
Enzyme-linked immunosorbent assay (ELISA)	☐	☐	☐	☐	☐
Enzyme immunoassays (EIA)	☐	☐	☐	☐	☐
Other	☐	☐	☐	☐	☐

Other (please specify)

30. Are data on HEV diagnostic results from local laboratories shared at:

	National level	Sub-national / Regional level	Local level	Intersectorial: human, animal, food	Not shared
Type of specimen *(stool, serum, etc.)*	☐	☐	☐	☐	☐
Sampler *(institution that collect clinical specimen e.g. hospital, local laboratory etc.)*	☐	☐	☐	☐	☐
Date of sample collection	☐	☐	☐	☐	☐
Place of sample collection	☐	☐	☐	☐	☐
Date of sample receipt	☐	☐	☐	☐	☐
Date of laboratory result	☐	☐	☐	☐	☐
Other	☐	☐	☐	☐	☐

Other (please specify)

31. Are laboratory data stored in databases at the national level?

- ◯ Yes
- ◯ No

32. If yes who is in charge to add data into the database?

- ☐ Hospital/clinical Laboratory
- ☐ Local Laboratory
- ☐ Reference Laboratory
- ☐ Other (please specify)

33. Is there any interaction between laboratory and human cases databases at national level?

- ◯ Yes
- ◯ No

34. If yes, when data is updated or available on the database, is there any communication system available to immediately inform the organizations involved?

- ◯ Yes
- ◯ No

If yes, please specify

35. Is there any interaction between human cases and food databases (common ID) at the national level?

- ◯ Yes
- ◯ No

36. Please, provide name and contact details of the National Reference Laboratory in charge for HEV diagnosis in humans.

Institution	
City	
Website	

HEPATITIS E IN HUMANS AND WILD BOAR FOOD CHAIN - SECTION A

SURVEILLANCE SYSTEM EVALUATION

37. Has the surveillance system been evaluated?

Please, consider any known evaluations of functioning, performance, organizational aspects, and/or cost-effectiveness.

- ◯ Yes
- ◯ No

38. Which method of evaluation has been used?

- ☐ Auto-evaluation
- ☐ OASIS method
- ☐ SERVAL method
- ☐ Other (please specify)

39. Please, provide contact details of the institution that conducted the surveillance system evaluation.

Institution

City