Attribution of Illnesses Transmitted by Food and Water to Comprehensive Transmission Pathways Using Structured Expert Judgment, United States

Appendix 4

Knowledge Review Questionnaire and Results
Appendix 4: Review of Knowledge

Review of Knowledge

Transmission pathways & definitions

Please feel free to refer to the pathway definitions as needed to complete this. There are 20 questions in total.

* Required

1. Email address *

2. First Name *

3. Last Name *

Transmission Pathway Questions

Please choose the transmission pathway that best fits each scenario described.

1. Norovirus illness among attendees of a banquet linked to carpet and indoor environment that had been contaminated with vomit the day before the banquet and subsequently cleaned

Mark only one oval.

- Foodborne transmission
- Foodborne transmission - Food-handler related
- Waterborne transmission - Drinking water
- Waterborne transmission - Recreational water
- Waterborne transmission - Non-recreational/Non-drinking
- Person-to-person transmission
- Animal contact transmission
- Environmental transmission
- Environmental - Presumed person-to-person
- Environmental - Presumed animal contact
2. Salmonellosis among participants in a mud volleyball tournament linked to ingestion of mud
   Mark only one oval.
   - Foodborne transmission
   - Foodborne transmission - Food-handler related
   - Waterborne transmission - Drinking water
   - Waterborne transmission - Recreational water
   - Waterborne transmission - Non-recreational/Non-drinking
   - Person-to-person transmission
   - Animal contact transmission
   - Environmental transmission
   - Environmental - Presumed person-to-person
   - Environmental - Presumed animal contact

3. Norovirus illness from a lake after someone vomited in the lake
   Mark only one oval.
   - Foodborne transmission
   - Foodborne transmission - Food-handler related
   - Waterborne transmission - Drinking water
   - Waterborne transmission - Recreational water
   - Waterborne transmission - Non-recreational/Non-drinking
   - Person-to-person transmission
   - Animal contact transmission
   - Environmental transmission
   - Environmental - Presumed person-to-person
   - Environmental - Presumed animal contact

4. STEC O157 illness linked to touching the railings of an animal enclosure at an animal fair
   Mark only one oval.
   - Foodborne transmission
   - Foodborne transmission - Food-handler related
   - Waterborne transmission - Drinking water
   - Waterborne transmission - Recreational water
   - Waterborne transmission - Non-recreational/Non-drinking
   - Person-to-person transmission
   - Animal contact transmission
   - Environmental transmission
   - Environmental - Presumed person-to-person
   - Environmental - Presumed animal contact
5. Campylobacteriosis among mountain bikers linked to ingestion of mud
   Mark only one oval.
   - Foodborne transmission
   - Foodborne transmission - Food-handler related
   - Waterborne transmission - Drinking water
   - Waterborne transmission - Recreational water
   - Waterborne transmission - Non-recreational/Non-drinking
   - Person-to-person transmission
   - Animal contact transmission
   - Environmental transmission
   - Environmental - Presumed person-to-person
   - Environmental - Presumed animal contact

6. STEC O157 illness linked to camping on grounds that had been used as pasture area for sheep 1 month prior
   Mark only one oval.
   - Foodborne transmission
   - Foodborne transmission - Food-handler related
   - Waterborne transmission - Drinking water
   - Waterborne transmission - Recreational water
   - Waterborne transmission - Non-recreational/Non-drinking
   - Person-to-person transmission
   - Animal contact transmission
   - Environmental transmission
   - Environmental - Presumed person-to-person
   - Environmental - Presumed animal contact

7. Legionellosis linked to construction activities with a water main break
   Mark only one oval.
   - Foodborne transmission
   - Foodborne transmission - Food-handler related
   - Waterborne transmission - Drinking water
   - Waterborne transmission - Recreational water
   - Waterborne transmission - Non-recreational/Non-drinking
   - Person-to-person transmission
   - Animal contact transmission
   - Environmental transmission
   - Environmental - Presumed person-to-person
   - Environmental - Presumed animal contact
8. **Q-fever associated with living within 3 miles of an infected goat farm**
   *Mark only one oval.*
   - Foodborne transmission
   - Foodborne transmission - Food-handler related
   - Waterborne transmission - Drinking water
   - Waterborne transmission - Recreational water
   - Waterborne transmission - Non-recreational/Non-drinking
   - Person-to-person transmission
   - Animal contact transmission
   - Environmental transmission
   - Environmental- Presumed person-to-person
   - Environmental - Presumed animal contact

9. **Brucellosis acquired through wounds or inhalation among employees at a pig slaughter plant**
   *Mark only one oval.*
   - Foodborne transmission
   - Foodborne transmission - Food-handler related
   - Waterborne transmission - Drinking water
   - Waterborne transmission - Recreational water
   - Waterborne transmission - Non-recreational/Non-drinking
   - Person-to-person transmission
   - Animal contact transmission
   - Environmental transmission
   - Environmental- Presumed person-to-person
   - Environmental - Presumed animal contact

10. **Mycobacterium kansasii infection among mineworkers linked to contaminated showers**
    *Mark only one oval.*
    - Foodborne transmission
    - Foodborne transmission - Food-handler related
    - Waterborne transmission - Drinking water
    - Waterborne transmission - Recreational water
    - Waterborne transmission - Non-recreational/Non-drinking
    - Person-to-person transmission
    - Animal contact transmission
    - Environmental transmission
    - Environmental- Presumed person-to-person
    - Environmental - Presumed animal contact
11. Toxoplasmosis linked to working in the home garden
   \textit{Mark only one oval.}
   \begin{itemize}
   \item Foodborne transmission
   \item Foodborne transmission - Food-handler related
   \item Waterborne transmission - Drinking water
   \item Waterborne transmission - Recreational water
   \item Waterborne transmission - Non-recreational/Non-drinking
   \item Person-to-person transmission
   \item Animal contact transmission
   \item Environmental transmission
   \item Environmental - Presumed person-to-person
   \item Environmental - Presumed animal contact
   \end{itemize}

12. Campylobacteriosis linked to contact with contaminated packaging of chicken meat
   \textit{Mark only one oval.}
   \begin{itemize}
   \item Foodborne transmission
   \item Foodborne transmission - Food-handler related
   \item Waterborne transmission - Drinking water
   \item Waterborne transmission - Recreational water
   \item Waterborne transmission - Non-recreational/Non-drinking
   \item Person-to-person transmission
   \item Animal contact transmission
   \item Environmental transmission
   \item Environmental - Presumed person-to-person
   \item Environmental - Presumed animal contact
   \end{itemize}

13. Legionellosis linked to a contaminated cooling tower
   \textit{Mark only one oval.}
   \begin{itemize}
   \item Foodborne transmission
   \item Foodborne transmission - Food-handler related
   \item Waterborne transmission - Drinking water
   \item Waterborne transmission - Recreational water
   \item Waterborne transmission - Non-recreational/Non-drinking
   \item Person-to-person transmission
   \item Animal contact transmission
   \item Environmental transmission
   \item Environmental - Presumed person-to-person
   \item Environmental - Presumed animal contact
   \end{itemize}
14. Salmonella in the family of a laboratorian who routinely prepared the family's dinners
   *(Mark only one oval.)*
   - Foodborne transmission
   - Foodborne transmission - Food-handler related
   - Waterborne transmission - Drinking water
   - Waterborne transmission - Recreational water
   - Waterborne transmission - Non-recreational/Non-drinking
   - Person-to-person transmission
   - Animal contact transmission
   - Environmental transmission
   - Environmental - Presumed person-to-person
   - Environmental - Presumed animal contact

15. Transmission of STEC O157 illness from a sick child to other children in a daycare
   *(Mark only one oval.)*
   - Foodborne transmission
   - Foodborne transmission - Food-handler related
   - Waterborne transmission - Drinking water
   - Waterborne transmission - Recreational water
   - Waterborne transmission - Non-recreational/Non-drinking
   - Person-to-person transmission
   - Animal contact transmission
   - Environmental transmission
   - Environmental - Presumed person-to-person
   - Environmental - Presumed animal contact

16. Salmonellosis due to internalization of contaminated water by tomatoes during processing
   *(Mark only one oval.)*
   - Foodborne transmission
   - Foodborne transmission - Food-handler related
   - Waterborne transmission - Drinking water
   - Waterborne transmission - Recreational water
   - Waterborne transmission - Non-recreational/Non-drinking
   - Person-to-person transmission
   - Animal contact transmission
   - Environmental transmission
   - Environmental - Presumed person-to-person
   - Environmental - Presumed animal contact
17. **Salmonellosis linked to rodents contaminating food in a restaurant kitchen**

*Mark only one oval.*

- Foodborne transmission
- Foodborne transmission - Food-handler related
- Waterborne transmission - Drinking water
- Waterborne transmission - Recreational water
- Waterborne transmission - Non-recreational/Non-drinking
- Person-to-person transmission
- Animal contact transmission
- Environmental transmission
- Environmental - Presumed person-to-person
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18. **Norovirus outbreak due to an infected food handler preparing sandwiches**

*Mark only one oval.*

- Foodborne transmission
- Foodborne transmission - Food-handler related
- Waterborne transmission - Drinking water
- Waterborne transmission - Recreational water
- Waterborne transmission - Non-recreational/Non-drinking
- Person-to-person transmission
- Animal contact transmission
- Environmental transmission
- Environmental - Presumed person-to-person
- Environmental - Presumed animal contact

19. **Paratyphi B var. Java linked to contact with aquariums housing fish**

*Mark only one oval.*

- Foodborne transmission
- Foodborne transmission - Food-handler related
- Waterborne transmission - Drinking water
- Waterborne transmission - Recreational water
- Waterborne transmission - Non-recreational/Non-drinking
- Person-to-person transmission
- Animal contact transmission
- Environmental transmission
- Environmental - Presumed person-to-person
- Environmental - Presumed animal contact
20. STEC O157 infection after attending a dance in a barn that had been cleaned since housing animals
Mark only one oval.

- Foodborne transmission
- Foodborne transmission - Food-handler related
- Waterborne transmission - Drinking water
- Waterborne transmission - Recreational water
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Appendix 4 Figure 2. Expert Responses to Knowledge Review Questionnaire