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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

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.

*	Re	a	uir	e	d

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 	n
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- 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

) Foodborne transmission
\subset	Foodborne transmission - Food-handler related
2	Waterborne transmission - Drinking water
$\overline{}$	Waterborne transmission - Recreational water
$\overline{}$	Waterborne transmission - Non-recreational/Non-drinking
$\overline{}$	Person-to-person transmission
$\overline{\subset}$	Animal contact transmission
Ē	Environmental transmission
$\overline{\Box}$) Environmental- Presumed person-to-person
) Environmental - Presumed animal contact
	virus illness from a lake after someone vomited in the lake
nark (only one oval.
\geq) Foodborne transmission - Food-handler related
7) Waterborne transmission - Drinking water
_) Waterborne transmission - Recreational water
_	Waterborne transmission - Non-recreational/Non-drinking
_) Person-to-person transmission
1	Animal contact transmission
Ξ	Environmental transmission
7	Environmental- Presumed person-to-person
) Environmental - Presumed animal contact
	CO157 illness linked to touching the railings of an animal enclosure at an animal fair only one oval.
) Foodborne transmission
\subset	
\subseteq) Foodborne transmission - Food-handler related
) Foodborne transmission - Food-handler related) Waterborne transmission - Drinking water
	Waterborne transmission - Drinking water
) Waterborne transmission - Drinking water) Waterborne transmission - Recreational water
	Waterborne transmission - Drinking water Waterborne transmission - Recreational water Waterborne transmission - Non-recreational/Non-drinking
	 Waterborne transmission - Drinking water Waterborne transmission - Recreational water Waterborne transmission - Non-recreational/Non-drinking Person-to-person transmission
	 Waterborne transmission - Drinking water Waterborne transmission - Recreational water Waterborne transmission - Non-recreational/Non-drinking Person-to-person transmission Animal contact transmission

\sim	Foodborne transmission
\bigcirc	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
\supset	Environmental- Presumed person-to-person
\supset	Environmental - Presumed animal contact
ee	O157 illness linked to camping on grounds that had been used as pasture area for a 1 month prior only one oval.
\supset	Foodborne transmission
\supset	Foodborne transmission - Food-handler related
\supset	Waterborne transmission - Drinking water
\supset	Waterborne transmission - Recreational water
\supset	Waterborne transmission - Non-recreational/Non-drinking
\supset	Person-to-person transmission
	Animal contact transmission
\supseteq	Environmental transmission
	Environmental- Presumed person-to-person
	Environmental - Presumed animal contact
-	ellosis linked to construction activities with a water main break only one oval.
	Foodborne transmission
3	Foodborne transmission - Food-handler related
	Waterborne transmission - Drinking water
	Waterborne transmission - Drinking water Waterborne transmission - Recreational water
	-
	Waterborne transmission - Recreational water
	Waterborne transmission - Recreational water Waterborne transmission - Non-recreational/Non-drinking
	Waterborne transmission - Recreational water Waterborne transmission - Non-recreational/Non-drinking Person-to-person transmission
1000000000	Waterborne transmission - Recreational water Waterborne transmission - Non-recreational/Non-drinking Person-to-person transmission Animal contact transmission

\bigcirc	Foodborne transmission
\bigcirc	Foodborne transmission - Food-handler related
\bigcirc	Waterborne transmission - Drinking water
\bigcirc	Waterborne transmission - Recreational water
\bigcirc	Waterborne transmission - Non-recreational/Non-drinking
\bigcirc	Person-to-person transmission
\bigcirc	Animal contact transmission
\bigcirc	Environmental transmission
\bigcirc	Environmental- Presumed person-to-person
\bigcirc	Environmental - Presumed animal contact
	losis acquired through wounds or inhalation among employees at a pig slaughter plant
Mark	only one oval.
\bigcirc	Foodborne transmission
\bigcirc	Foodborne transmission - Food-handler related
\bigcirc	Waterborne transmission - Drinking water
\bigcirc	Waterborne transmission - Recreational water
\bigcirc	Waterborne transmission - Non-recreational/Non-drinking
\bigcirc	Person-to-person transmission
\bigcirc	Animal contact transmission
\bigcirc	Environmental transmission
\bigcirc	Environmental- Presumed person-to-person
\bigcirc	Environmental - Presumed animal contact
	bacterium kansasii infection among mineworkers linked to contaminated showers only one oval.
\bigcirc	Foodborne transmission
\square	Foodborne transmission - Food-handler related
	Waterborne transmission - Drinking water
$\overline{\bigcirc}$	Waterborne transmission - Recreational water
$\overline{\bigcirc}$	Waterborne transmission - Non-recreational/Non-drinking
Ö	Person-to-person transmission
	Animal contact transmission
$\overline{\bigcirc}$	Environmental transmission
$\overline{\bigcirc}$	Environmental- Presumed person-to-person
	Environmental - Presumed animal contact
$\widetilde{\bigcirc}$	

\bigcirc	Foodborne transmission
$\overline{\bigcirc}$	Foodborne transmission - Food-handler related
Ō	Waterborne transmission - Drinking water
\bigcirc	Waterborne transmission - Recreational water
$\overline{\bigcirc}$	Waterborne transmission - Non-recreational/Non-drinking
$\overline{\bigcirc}$	Person-to-person transmission
$\overline{\bigcirc}$	Animal contact transmission
\bigcirc	Environmental transmission
Ō	Environmental- Presumed person-to-person
$\overline{\bigcirc}$	Environmental - Presumed animal contact
Camp	ylobacteriosis linked to contact with contaminated packaging of chicken meat
Mark o	nly one oval.
\bigcirc	Foodborne transmission
\bigcirc	Foodborne transmission - Food-handler related
\bigcirc	Waterborne transmission - Drinking water
\bigcirc	Waterborne transmission - Recreational water
\bigcirc	Waterborne transmission - Non-recreational/Non-drinking
\bigcirc	Person-to-person transmission
\bigcirc	Animal contact transmission
\bigcirc	Environmental transmission
\bigcirc	Environmental- Presumed person-to-person
\bigcirc	Environmental - Presumed animal contact
	nellosis linked to a contaminated cooling tower
Mark C	nly one oval. Foodborne transmission
S	Foodborne transmission - Food-handler related
	Waterborne transmission - Drinking water
B	Waterborne transmission - Recreational water
	Waterborne transmission - Non-recreational/Non-drinking
Z	Person-to-person transmission
	Animal contact transmission
C	Environmental transmission
2	Environmental- Presumed person-to-person
S	Environmental - Presumed animal contact
\bigcirc	Environmental - Presumed animal contact

\bigcirc	Foodborne transmission
\bigcirc	Foodborne transmission - Food-handler related
ō	Waterborne transmission - Drinking water
\bigcirc	Waterborne transmission - Recreational water
\bigcirc	Waterborne transmission - Non-recreational/Non-drinking
\bigcirc	Person-to-person transmission
\bigcirc	Animal contact transmission
\bigcirc	Environmental transmission
\bigcirc	Environmental- Presumed person-to-person
\bigcirc	Environmental - Presumed animal contact
	mission of STEC O157 illness from a sick child to other children in a daycare only one oval.
\bigcirc	Foodborne transmission
$\widetilde{\bigcirc}$	Foodborne transmission - Food-handler related
ŏ	Waterborne transmission - Drinking water
$\overline{\bigcirc}$	Waterborne transmission - Recreational water
$\overline{\bigcirc}$	Waterborne transmission - Non-recreational/Non-drinking
$\overline{\bigcirc}$	Person-to-person transmission
Ō	Animal contact transmission
Ō	Environmental transmission
\bigcirc	Environmental- Presumed person-to-person
\bigcirc	Environmental - Presumed animal contact
	onellosis due to internalization of contaminated water by tomatoes during processing only one oval.
\bigcirc	Foodborne transmission
	Foodborne transmission - Food-handler related
C	Waterborne transmission - Drinking water
B	Waterborne transmission - Recreational water
$\overline{\bigcirc}$	Waterborne transmission - Non-recreational/Non-drinking
ŏ	Person-to-person transmission
ŏ	Animal contact transmission
ŏ	Environmental transmission
X	Environmental- Presumed person-to-person
()	Environmental - Presumed animal contact
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 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 	
 Waterborne transmission - Recreational water Waterborne transmission - Non-recreational/Non-drinking Person-to-person transmission Animal contact transmission Environmental transmission Environmental- Presumed person-to-person 	
 Waterborne transmission - Non-recreational/Non-drinking Person-to-person transmission Animal contact transmission Environmental transmission Environmental- Presumed person-to-person 	
 Person-to-person transmission Animal contact transmission Environmental transmission Environmental- Presumed person-to-person 	
Animal contact transmission Environmental transmission Environmental- Presumed person-to-person	
Environmental transmission Environmental- Presumed person-to-person	
Environmental- Presumed person-to-person	
Environmental Procumed animal contact	
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	
 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 0157	infection after attending a dance in a barn that had been cleaned since housing
animals	and a construction of the statements of the statement of the state statement to be statement and the statements and the statements of the statement of the stat
the state of the second st	

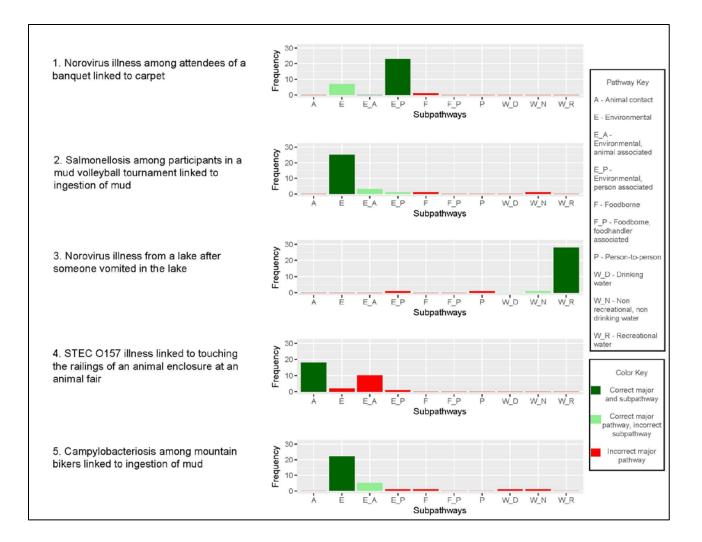
Mark only one oval.

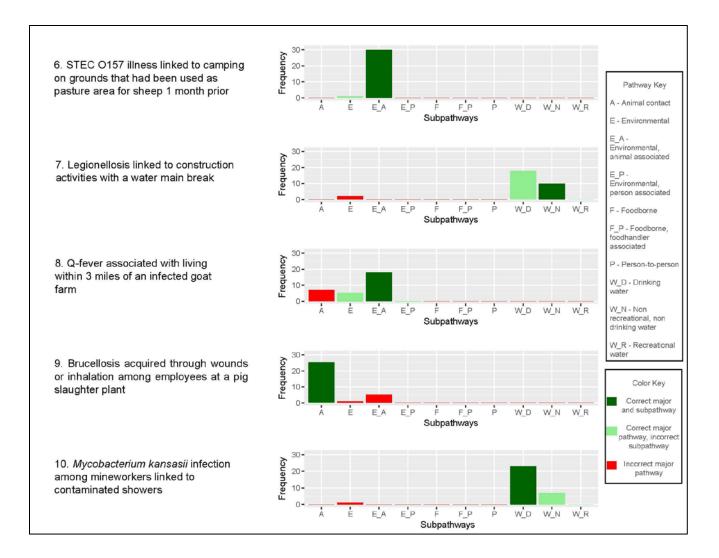
- Foodborne transmission
- > Foodborne transmission Food-handler related

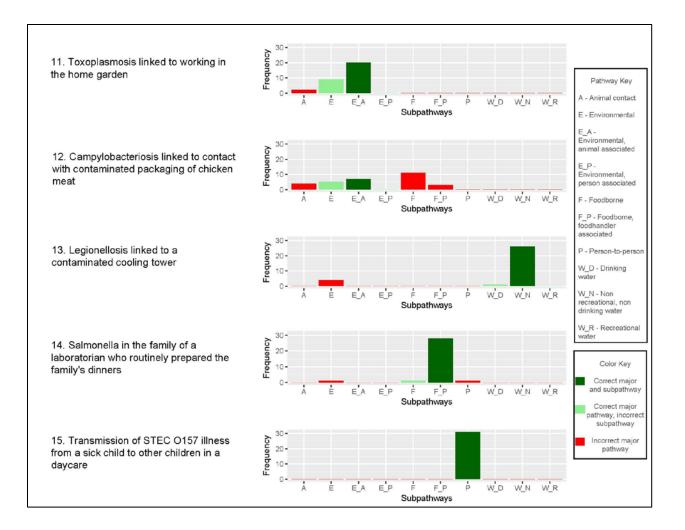
Waterborne transmission - Drinking water

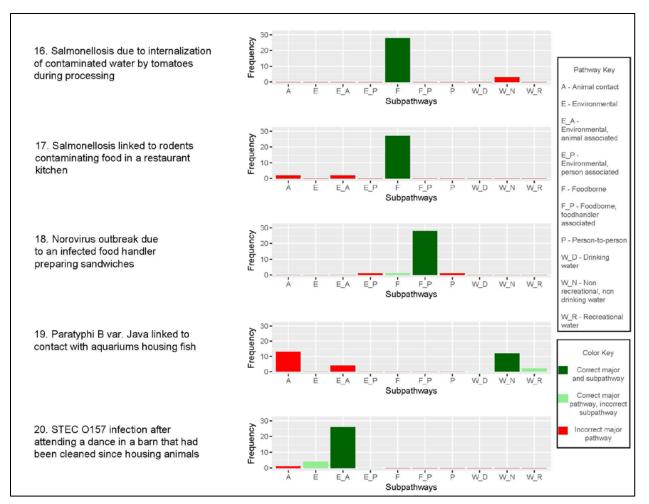
- Waterborne transmission Recreational water
- Waterborne transmission Non-recreational/Non-drinking
- > Person-to-person transmission
- Animal contact transmission
- Environmental transmission
- Environmental- Presumed person-to-person
- Environmental Presumed animal contact

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Appendix 4 Figure 2. Expert Responses to Knowledge Review Questionnaire