SHIGA-TOXIN PRODUCING ESCHERICHIA COLI

EPIDEMIOLOGY PROGRAM

Event Name:	STEC						
Event Time Period:	180 days						
· · · · · · · · · · · · · · · · · · ·	An infection of variable severity characterized by diarrhea (often bloody) and/or abdominal cramps. Illness may be complicated by HUS (note that some clinicians still use the term thrombotic thrombocytopenic purpura [TTP] for adults with post-diarrheal HUS)						
CDC Event Classification (2018)	Confirmed	 Isolation of <i>E. coli</i> O157:H7 from a clinical specimen OR Isolation of <i>E. coli</i> from a clinical specimen with detection of Shiga toxin or Shiga toxin genes 					
17-ID-10:	Probable	1. Isolation of <i>E. coli</i> O157 from a clinical specimen without confirmation of H antigen, detection of Shiga toxin, or detection of Shiga toxin genes OR					
		2. A clinically compatible illness (one or more of the following: abdominal cramps, diarrhea) in a persona. With identification of an elevated antibody titer against a known Shiga toxin-producing serogroup of <i>E. coli</i> OR					
		 With detection of Shiga toxin or Shiga toxin genes in a clinical specimen using a CIDT and no known isolation of Shigella from a clinical specimen OR 					
		 c. With detection of <i>E. coli</i> O157 or STEC/EHEC from a clinical specimen using a CIDT OR d. That is epidemiologically linked to a confirmed or probable case with laboratory evidence OR e. That is a member of a risk group as defined by public health authorities during an outbreak 					
	Suspect	e. That is a member of a risk group as defined by public health authorities during an outbreak 1. Identification of an elevated antibody titer against a known Shiga toxin-producing serogroup of <i>E. coli</i> in a person with no known clinical compatibility OR					
		2. Detection of Shiga toxin or Shiga toxin genes in a clinical specimen using a CIDT and no known isolation of <i>Shigella</i> from a clinical specimen in a person with no known clinical compatibility OR					
		3. Detection of <i>E. coli</i> O157 or STEC/EHEC in a clinical specimen using a CIDT in a person with no known clinical compatibility OR					
		4. A person with a diagnosis of post-diarrheal HUS/TTP					
	Confirmed	Follows CDC classification					
Classification (2019):	Probable	Follows CDC classification					
	Suspect*	1. Identification of an elevated antibody titer against a known Shiga toxin-producing serogroup of <i>E. coli</i> in a person with no known clinical compatibility OR					
		2. Detection of Shiga toxin or Shiga toxin genes in a clinical specimen using a CIDT and no known isolation of <i>Shigella</i> from a clinical specimen in a person with no known clinical compatibility OR					
		3. Detection of <i>E. coli</i> O157 or STEC/EHEC in a clinical specimen using a CIDT in a person with no known clinical compatibility					

^{*} A person with a diagnosis of post-diarrheal HUS/TTP without indication of STEC should have an HUS event created in MAVEN.

MDPH Case Classification Manual Shiga toxin producing E. coli

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Report type	Test Type	Source	Result	New event or beyond report period?	Data Entry	
Laboratory Report	Culture	Any source	E. coli O157:H7	Yes	New event CONFIRMED	
				No	Same event	
Select:	Microorganism: PrId: Pt: xxx: Nom: Culture					
Select:			: Nom: Bacterial subtyping			
Select:	Escherichia coli shiga-like toxin identified : PrId : Pt : Stl : Nom : Organism specific culture					
Laboratory Report	Culture	Any source	E. coli O157	Yes	New event PROBABLE	
				No	Same event	
Select:	E					
Select:	Microorganism: PrId: Pt: Islt: Nom: Bacterial subtyping					
Select:	Escherichia o	coli shiga-like to	xin identified : PrId : Pt : Stl	: Nom : Organism sp	ecific culture	
Laboratory Report	Culture	Any source	E. coli AND patient has a positive Shiga toxin or Shiga toxin gene result	Yes	New event CONFIRMED	
				No	Same event	
Select						
Select:						
Select:	Escherichia coli shiga-like toxin identified : PrId : Pt : Stl : Nom : Organism specific culture					
Laboratory Report	Culture	Any source	E. coli, serotype not O157 AND patient does not have positive Shiga	Yes	New event DO NOT ENTER	
			toxin result	No	Same event	
Select	\mathcal{U}					
Select:	71 6					
Select:	ect: Escherichia coli shiga-like toxin identified : PrId : Pt : Stl : Nom : Organism specific culture				ecific culture	

Report type	Test Type	Source	Result	New event or beyond report period?	Data Entry	
Laboratory Report	PCR- Shiga toxin	Any source	Positive	Yes	New event SUSPECT	
				No	Same event	
Select (STX positive, type 1 or 2 not specified):	STX gene: PrId: Pt: xxx: Nom: Probe.Amp.Tar					
Select (STX positive, type 1 or 2 not specified):	E. coli stx1 + stx2 Stl: Ql: Non-probe PCR					
Select (STX positive, type 1 or 2 not specified):	EC stx1+stx2 genes Stl Ql NAA+probe					
Select (STX1 specified):	E. coli virulence factor STX1: PrId: Pt: xxx: Nom: Probe.Amp.Tar					
Select (STX1 specified):	EC stx1 gene Stl Ql NAA+probe					
Select (STX2 specified):	E. coli virulence factor STX2: PrId: Pt: xxx: Nom: Probe.Amp.Tar					
Select (STX2 specified):		e Stl Ql NAA+pı	robe			
Laboratory Report	PCR- Virulence factors	Any source	Positive	Yes	New event DO NOT ENTER	
				No	Same event	
Select (eae specified):	E. coli virulence factor eae: PrId: Pt: xxx: Nom: Probe.Amp.Tar					
Select (E-hly specified):	E. coli virulence factor E-hly: PrId: Pt: xxx: Nom: Probe.Amp.Tar					
Select (ehxA specified):	E. coli virulence factor ehxA: PrId: Pt: xxx: Nom: Probe.Amp.Tar					
Laboratory Report	PCR	Stool	Escherichia coli, serotype O157; Escherichia coli, serotype O157:H7; or Escherichia coli, shiga toxin 1 and 2	Yes	New event SUSPECT	
				No	Same event	
Select:	GI path DNA + RNA: Pnl: Stl: Non-probe PCR					
Laboratory Report	Shiga toxin OR verotoxin	•	Positive for Shiga toxin OR verotoxin	Yes	New event SUSPECT	
	VCIOLOXIII			No	Same event	
Select:	Verotoxin identified: PrId: Pt: Islt: Nom:					
Select:						
Select:						
MDDH Casa Classification Manual	Escriencia con singa-ine toxin. Acire. 1 t. AAA. Qii. EIA					

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Report type	Test Type	Source	Result	New event or beyond report period?	Data Entry
Laboratory Report	Antigen test	Any source	Positive	Yes	New event SUSPECT
				No	Same event
Select:	Escherichia coli O157:H7 Ag: ACnc: Pt: Stl: Ord:				