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Annual Survey of Laboratory Testing Practices for *C. difficile* Infection

CDC's Emerging Infections Program - Clostridioides difficile Infection Surveillance

To be completed by surveillance officer			
LABID#:			
Completed By:			
Date survey was completed:/			
Is this a new laboratory?			
○ Yes			
○ No			
Year added to surveillance:			
Is this lab in another EIP site?			
○ Yes			
What state?			
LabID in other EIP site:			
○ No			
Is this lab participating in surveillance?			
○ Yes			
○ No			
How often do you receive line lists from this lab?			
Daily			
○ Weekly			
Monthly			
Annually			
○ Never			
Other			
Consider.			

Section 1: Laboratory Information

Public reporting burden of this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to CDC/ATSDR Reports Clearance Officer; 1600 Clifton Road NE, MS D-74, Atlanta, Georgia 30329; ATTN: PRA (0920-0978).

How do	you receive line lists from this lab?
\bigcirc	Electronic laboratory reporting (e.g. HL7 messaging)
\bigcirc	Fax
	Email
$\tilde{\bigcirc}$	Mail
\circ	Secure file transfer
\circ	Other
	Specify:
Do you	receive specimens from this lab?
\bigcirc	Yes
\bigcirc	No
Was thi	s lab audited in 2019?
\bigcirc	Yes, in person
_	Yes, not in person
_	No, not in catchment
\bigcirc	No, not audited
	Specify reason:
Is this a	private, commercial lab (e.g. Quest or LabCorp)?
\bigcirc	Yes
Ö	No
Types o	f facilities in your catchment area served by this lab (select all that apply):
_	Hospitals
$\overline{}$	LTACHs
\sim	LTCFs
\bigcirc	Outpatient facilities

Section 2: Survey
To be completed by lab personnel

Pos	sitio	n of the staff who responded to the survey:
	\bigcirc	Laboratory Supervisor
	\bigcirc	Microbiology Supervisor
	\bigcirc	Other
		Specify:
Of	fsite	Testing
	_	
1.	Do	es your laboratory ever send specimens off-site for <i>Clostridioides difficile</i> testing? (Choose one)
	\bigcirc	Always (no onsite testing performed)
		LabID of Offsite Lab:
	\bigcirc	Regularly, as part of standard testing algorithm
		LabID of Offsite Lab:
		Which tests are done offsite, and at which point in the testing algorithm?
	\bigcirc	Not regularly, but when a test ordered by a physician cannot be performed onsite
		Specify tests performed offsite:
	\bigcirc	Never (All testing performed onsite)
	\bigcirc	Unknown
	\bigcirc	Other
	-	Specify:

2. What type and order of testing is routinely used by your laboratory in standard testing for *C. difficile*? (Enter letter from choices below; choose only one option for each line of testing)

1"	ine of testing:	2" line of testing:	3rd line of testing:	
A	A. EIA Toxin A and B			
E	3. EIA for Toxin A only			
(C. EIA for Toxin B only			
[D. EIA Antigen (GDH)			
E	E. EIA Toxin A/B and Antig	en (Simultaneous testing)		
F	E. EIA Other			
				
(Nucleic Acid Amplificati	on (e.g. PCR, Illumigene, Lu	uminex, Biofire)	
	H. Culture			
	. Cytotoxin			
J	. Other			
ŀ		ents can order from among	g several tests	
	Specify types:	<u> </u>		
L	None			
2a. Wł	nich specimens are used d	luring your 2 nd line of testi	ing? (Choose one)	
\bigcirc	Positive by the 1st line of	testing		
\bigcirc	Negative by the 1st line of	of testing		
\bigcirc	Specimens with discorda	ant results (e.g. EIA+/GDH-	or GDH+/EIA-)	
_	All specimens			
\circ	Do not use 2 nd line of tes	sting		
2b. Wł	nich specimens are used o	luring your 3 rd line of testi	ing? (Choose one)	
\bigcirc	Positive by the 2 nd line o	f testing		
\bigcirc	Negative by the 2 nd line	of testing		
\bigcirc	Specimens with discorda	ant results (e.g. EIA+/GDH-	or GDH+/EIA-)	
\bigcirc	All specimens			
\circ	Do not use 3 rd line of tes	ting		
3c Do	os vour laboratory parfor	m any ancita tacting for C	difficile outside of your norm	al tasting algorithm?
2C. DO	es your laboratory perior	m any onsite testing for C.	. difficile outside of your norm	ai testing algorithm?
\bigcirc	· · · · · · · · · · · · · · · · · · ·	-	ng algorithm specified above	
\circ	Yes, on physician reques			
	Specify tests:			
\bigcirc	Other			
	Specify:			

3a.	Wh	ich EIA test kit is currently used by your laboratory? (Check all that apply)
		Premier (Meridian) Toxins A & B
		Premier (Meridian) Toxin A
		Remel ProSpecT Toxins A & B
		TechLab Toxins A & B
		Inverness Medical/Wampole Toxins A & B QuikCheck
		Inverness Medical/Wampole QuikCheck Complete (Toxins A & B and Antigen)
		Antigen Testing
		Specify antigen testing kit name/manufacturer:
		Other
		Specify other kit name/manufacturer:
		N/A (Do not use EIA testing)
3b.	Wh	ich Nucleic Acid Amplification test is currently used by your laboratory? (Check all that apply)
		BD-GeneOhm C. difficile
		BD MAX C. difficile
		Cepheid Xpert C. difficile
		Meridian Illumigene
		Prodesse (Gen-Probe) Progastro CD
		Luminex xTAG GPP
		Biofire Filmarray GI Panel
		Quidel AmpliVue C. difficile Assay
		Great Basin Portrait Toxigenic C. difficile Assay
		Nanosphere Verigene SP
		Other
		Specify other test:
		N/A (Do not use nucleic acid amplification)

Multiplex GI panels

4a. If y	our laboratory uses a multiplexed molecular diagnostic (e.g., Biofire Filmarray GI Panel, Luminex xTAG
GPP) to	o test for several GI pathogens, does your laboratory suppress the C. diff result so that clinicians cannot
see it?	
	Yes, always
	Yes, at clinician request
	Yes, but will release the result upon clinician request
	Yes, sometimes
	Specify:
	No, clinicians always see C. diff result
	N/A (Do not use multiplexed molecular diagnostic)
4b. If y	our laboratory uses a multiplexed diagnostic and the result is suppressed, where does the suppression
occur?	
	At the multiplexed molecular diagnostic instrument level (the result is not entered into the laboratory information management system (LIMS))
	At the laboratory information management system (LIMS) level
	Other
Sp	pecify:
	N/A (Do not use multiplexed molecular diagnostic or the result is never suppressed)
Testin	g Codes
5. Wha	at are the testing codes associated with the tests your lab currently uses? Specify:
	Specify

6. Has y	your lab testing algorithr	n for <i>C. difficile</i> changed	since January 1, 2019?
\bigcirc	Yes		
	What date did this cha	nge occur?/	/
\circ	No		
	•	ous type and order of te	•
(Enter l	letter from choices below	; choose only one option j	for each line of testing)
1 st li	ine of testing:	2 nd line of testing:	3 rd line of testing:
А	A. EIA Toxin A and B		
В	B. EIA for Toxin A only		
C	C. EIA for Toxin B only		
D). EIA Antigen (GDH)		
Е	. EIA Toxin A/B and Antig	en (Simultaneous testing)
F	. EIA Other		
	Specify other EIA type:		
G	6. Nucleic Acid Amplificat	ion (e.g. PCR, Illumigene,	Luminex, Biofire)
Н	I. Culture		
I.	. Cytotoxin		
J.	. Other		
	Specify other test type:		
K	a. No one routine test; cli	ents can order from amor	ng several tests
	Specify types:		
L	. None		
6b. Wh	ich specimens were use	d during your 2 nd line of t	esting? (Choose one)
\bigcirc	Positive by the 1st line o	f testing	
\bigcirc	Negative by the 1 st line	of testing	
\bigcirc	Specimens with discord	ant results (e.g. EIA +/GD	H- or GDH+/EIA-)
\bigcirc	All specimens		
\bigcirc	Do not use 2 nd line of te	sting (go to question 6)	
6c. Whi	ich specimens were usec	I during your 3 rd line of to	esting? (Choose one)
\bigcirc	Positive by the 2 nd line of	of testing	
\bigcirc	Negative by the 2 nd line	of testing	
\bigcirc	Specimens with discord	ant results (e.g. EIA+/GDF	l- or GDH+/EIA-)
\bigcirc	All specimens		
\bigcirc	Do not use 3 rd line of tes	sting (go to question 6)	

7. Does	s your lab have a policy to reject stool specimens for <i>C. difficile</i> testing? (Read all options. Check all that
apply)	
	Yes, when stools are formed (formed stools are defined as stools that do NOT take the shape of the container)
	Yes, if there is a stool specimen already positive within 24 hrs of a new stool specimen
	Yes, if there is a stool specimen already positive within 48 hrs of a new stool specimen
	Yes, if there is a stool specimen that tested negative for <i>C. difficile</i> within 48 hours of a new stool specimen
	Yes, will not accept more than one stool specimen in a 24 hr period
	No rejection policy
	Other rejection policies
	Specify other rejection policy:
7a. Has	s your rejection policy for stool specimens changed since January 1, 2019?
\bigcirc	Yes
	What date did this change occur?//
	Specify changes:
\circ	No

8. How many stool samples did you test for C. diff each month in 2019?

Month	Stool samples tested	C. diff+ samples
January		
February		
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		

Appendix: Common C. difficile Test Kit Names and Manufactures

EIA Toxin A & B

Wampole* Toxin A/B Quik Chek

Techlab* C. difficile Toxin A/B II

BioMerieux Vidas C. difficile Toxin A/B

Meridian Immunocard Toxin A/B

Meridian Premier Toxin A/B

Remel Xpect C. difficile Toxin A/B

Remel ProSpecT Toxin A/B

EIA Antigen (GDH)

Wampole* C. difficile Chek-60

Wampole* C. difficile Quik Chek

Meridian Immunocard C. difficile

EIA Toxin A/B and Antigen (Simultaneous Testing)

Wampole* C. difficile Quik Chek Complete

Nucleic Acid Amplification

BD-GeneOhm C. difficile

Cepheid Xpert C. difficile

Great Basin Portrait Toxigenic C. difficile Assay

Luminex xTAG Gastrointestinal Pathogen Panel (xTAG GPP)

Meridian BioScience Illumigene

Nanosphere Verigene SP

Prodesse (Gen-Probe) Progastro CD

Quidel AmpliVue C. difficile Assay

EIA for Toxin B Only

Alere* C. difficile Toxin B

^{*}Techlab, Inverness Medical, Alere, Wampole may be used interchangeably for these test kits