CDIFF New Workflow- updated 6.13.23

Perform C DIFF PCR 1st -IF PCR POS, REFLEX TO GDH/TOX

Testing Sites: Dry and Wet Testing needed.

BH GH MC LMH SRC WH YH

Below chart is testing workflow.

PCR Result Performed 1st	Toxin Result	C. difficile Interpretation reported 1st	Comments	Duplicate Check
NEGATIVE Resulted as Negative	NOT DONE	Toxogenic C. difficile was NOT detected. See narrative below.	Alternative causes of diarrhea should be considered. Empiric treatment is not indicated unless there is strong clinical evidence of C. difficile disease (e.g. pseudomembranous colitis, toxic megacolon). Repeat testing within 7 days is not indicated unless there is a major clinical change or high clinical suspicion	7-day block
POSITIVE Resulted as Positive	POSITIVE Resulted as: Positive	C. difficile infection confirmed. See narrative below.	A POSITIVE toxigenic C. difficile PCR with a POSITIVE toxin in a patient with diarrhea is indication for therapy. Contact Plus Isolation required. Follow-up testing is cure is not recommended. Repeat testing is only indicated if the patient has a new onset of symptoms after 14 days of therapy.	14-day block
POSITIVE Resulted as Positive	NEGATIVE Resulted as Negative	Suggests COLONIZATION with C. difficile; treatment NOT generally recommended. See narrative below.	A NEGATIVE toxin with a POSITIVE PCR suggests COLONIZATION. Contact Plus Isolation required. Alternative causes of diarrhea should be considered. Empiric treatment is not usually indicated unless fulminant disease is suspected (e.g. toxic megacolon). If possible, avoid the use of high-risk antibiotics associated with CDI (e.g. clindamycin, fluoroquinolones, 3rd/4th generation cephalosporins) in colonized patients. Consult Antimicrobial Stewardship for assistance. Repeat testing within 7 days is not indicated unless there is a major clinical change or high clinical suspicion.	7-day block
INVALID			Polage et al JAMA IM 2015; Planche et al, Lancet ID 2013; Brown KA et al. CID 2021, Brown KA et al. AAC 2013 Presence or absence of C. difficile target DNA cannot be determined.	

Order LAB7877 C DIFF ASSAY /

Order of Resulting:

C DIFF PCR (If negative will autoverify. If positive result will be held/time stamped to be completed on OL when testing completed)

C DIFF PCR CT VALUE

C DIFF ANTIGEN (Not Reported)

C DIFF TOXIN

Interpretive comment: base on PCR/TOXIN results

Do not Final Verify until all result components are results.

Result component Order:

CDIFF Interpretation

CDIFF GDH Ag (not reported)

CDIFF Toxin

CDIFF PCR

CDIFF PCR CT

C DIFF PCR Negative example:

Result Entry

C. difficile Assay					Routine	⊌ On Test (1
CDIFF Interp [1]		0	ρ		MICRO MANUAL	→ 6
CDIFF GDH Ag [2]			ρ	Negative	MICRO MANUAL	*/\$
CDIFF Rapid Toxin [3]			٥	Negative	MICRO MANUAL	√
CDIFF Tox B DNA PCR [4]	Negative		,0 49	Negative	M182	→
CDIFF Tox B DNA PCR CT [5]		ст			M182	*/*

Result Entry After Verified

Time Stamp

▲ C. difficile Assay		Routine
Instrument ID: 70053647		
Chart Component C. difficile Interpretation	Value Toxidenic C. difficile DNA was NOT detected. See narrative below.	Ref Range & Units
C. difficile Toxin B DNA PCR Resulted 6/13/2023 7:56 AM.	Negative	Negative
	not indicated unless there is strong clinical evidence of C. difficile disease (e.g. pseudomembranous colitis, toxic megacolo	on). Repeat testing within 7 days is not indicated unless there
a major clinical change or high clinical suspicion.	Resulting Lab: YNHH	LAB Test method: YH CEPHEID GENEXPERT Status: Resulte

Specimen Inquiry C DIFF PCR result and comment reported to chart.

100	lifficile Assay											0	10
Res 1	Component CDIFF Interp	Value Toxigenic C. difficile DNA was NOT detected. See narrative below.	Inits	! **	Δ	L	IE	R	Ref. Range	Method YH MICROBIOLOGY MANUAL METHOD	Chart	PV	
1	CDIFF GDH Ag								Negative	YH MICROBIOLOGY MANUAL METHOD	%		
1	CDIFF Rapid Toxin								Negative	YH MICROBIOLOGY MANUAL METHOD	*		
1	CDIFF Tox B DNA PCR Comment: Resulted 6/13/2023 7:56 AM.	Negative		4					Negative	YH CEPHEID GENEXPERT	Ö		
Result	CDIFF Tox B DNA PCR CT	C	T							YH CEPHEID GENEXPERT	4		
Altern	ative causes of diarrhea should be consideration). Repeat testing within 7 days is not							e of C.	difficile diseas	e (e.g. pseudomemoranous	colitis	, toxic	
Method	YH CEPHEID GENEXPERT	Last received: 6/13/2023 7:55 AM				Last ver	ified: 6/13/20	23 7:58 A	M by Chretien, Darleen	· -			

Negative C DIFF PCR

Chart Review

ム C. difficile Assay			Order: 30043758
Status: Final result Visible to patient:	No (inaccessible in MyChart) Next appt: None	Dx: Illness, unspecified	
Specimen Information: Stool			
0 Result Notes			
Component	Ref Range & Units	6/13/23 7:55 AM	
C. difficile Interpretation		Toxigenic C. difficile DNA was NOT detected. See n	arrative below.
C. difficile Toxin B DNA PCR	Negative	Negative	
Comment: Resulted 6/13/202:	3 7:56 AM.		
Resulting Agency		YNHH LAB	
Narrative		F	Performed by: YNHH LAB

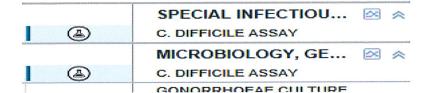
Narrative Performed by: YNHH LAB
Alternative causes of diarrhea should be considered. Empiric treatment is not indicated unless there is strong clinical evidence of C.

Alternative causes of diarrhea should be considered. Empiric treatment is not indicated unless there is strong clinical evidence of C. difficile disease (e.g. pseudomembranous colitis, toxic megacolon). Repeat testing within 7 days is not indicated unless there is a major clinical change or high clinical suspicion.

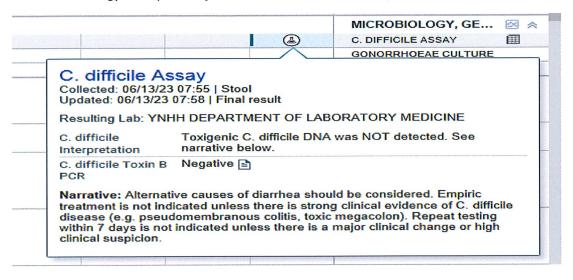
Specimen Collected: 06/13/23 7:55 AM

Last Resulted: 06/13/23 7:58 AM

Results Review



Both Microbiology and Special Infectious Disease when hovering over icon



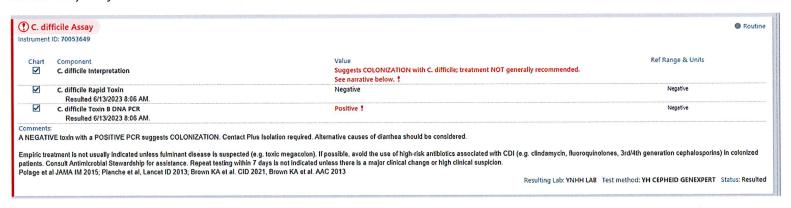
C DIFF PCR Positive – Toxin Negative example

Result Entry - Save PCR

Time Stamp

ム C. dif	ficile Assay 🐔												e !
Res I	Component CDIFF Interp	Value Suggests COLONIZATION with C. difficile; treatment NOT generally recommended. See narrative below	Units		Δ	L	ΙE	R	Ref. Range	Method YH MICROBIOLOGY MANUAL METHOD	Chart →	PV	
1	CDIFF GDH Ag								Negative	YH MICROBIOLOGY MANUAL METHOD	94		
1	CDIFF Rapid Toxin Comment: Resulted 6/13/2023 8:06 AM.	Negative		e,					Negative	YH MICROBIOLOGY MANUAL METHOD	→		
1	CDIFF Tox B DNA PCR Comment: Resulted 6/13/2023 8:06 AM.	Positive		*				*	Negative	YH CEPHEID GENEXPERT	-	Positive	
1	CDIFF Tox 8 DNA PCR CT		CT							YH CEPHEID GENEXPERT	2/4		
Empiric fluoroque change Polage	CONNECTED: (VE toxin with a POSITIVE PCR suggests COLO) treatment is not usually indicated unless sinclones, 3rd/4th generation cephalosporinor high chinical suspicion. et al JAMA IM 2015; Planche et al, Lencet II H CEPHELD GENEXPERT	fulminant disease is suspected (e.g. toxic t Antimic	c megacolo: robial Ste	n). If post	sible, avo	id the use	of high	-risk antibiotic	s associated with CDI (e.g	, clind here is	amycin, a major c	linic

Result Entry Verified



人 C. dif	fficile Assay										•
Res 1	Component CDIFF Interp	Value Units Suggests COLONIZATION with C. difficile; treatment NOT generally recommended. See narrative below.	!	Δ	ι	IE	R	Ref. Range 	Method YH MICROBIOLOGY MANUAL METHOD	Chart	PV
1	CDIFF GDH Ag							Negative	YH MICROBIOLOGY MANUAL METHOD	7/2	
1	CDIFF Rapid Toxin	Negative	Ø.					Negative	YH MICROBIOLOGY MANUAL METHOD	Ö	
	Comment: Resulted 6/13/2023 8:06 AM.										
	CDIFF TOX B DNA PCR Comment: Resulted 6/13/2023 8:06 AM.	Positive	•				*	Negative	YH CEPHEID GENEXPERT		Positive
1	CDIFF TOX B DNA PCR CT	ст							YH CEPHEID GENEXPERT	=/0	

A NEGATIVE toxin with a POSITIVE PCR suggests COLONIZATION. Contact Plus Isolation required. Alternative causes of diarrhea should be considered.

Empiric treatment is not usually indicated unless fulminant disease is suspected (e.g. toxic megacolon). If possible, evoid the use of high-risk antibiotics associated with CDI (e.g. clindamycin, fluoroquinolones, 3rd/4th generation cephalosporins) in colonized patients. Consult Antimicrobial Stewardship for assistance. Repeat testing within 7 days is not indicated unless there is a major clinical change or high clinical suspicion.

Polage et al JANA IM 2015; Planche et al, Lancet ID 2013; Brown KA et al. CID 2021, Brown KA et al. AAC 2013

Method: YH CEPHEID GENEXPERT Last received: 6/13/2023 8:05 AM Last verified: 6/13/2023 8:16 AM by Chretien, Darleen

Chart Review

? C. difficile Assay Order: 30043760 Status: Final result Visible to patient: No (inaccessible in MyChart) Next appt: None Dx: Illness, unspecified Specimen Information: Stool 0 Result Notes 7/7/22 4:25 PM Component Ref Range & Units Suggests COLONIZATION with C. C. difficile Interpretation difficile: treatment NOT generally recommended. See narrative below. ! Negative C. difficile Rapid Toxin Negative Comment: Resulted 6/13/2023 8:06 AM. Positive ! Positive ! C. difficile Toxin B DNA PCR Negative Comment: Resulted 6/13/2023 8:06 AM. WESTERLY LAB Resulting Agency

Narrative

Performed by: YNHH LAB A NEGATIVE toxin with a POSITIVE PCR suggests COLONIZATION. Contact Plus Isolation required. Alternative causes of diarrhea should be co

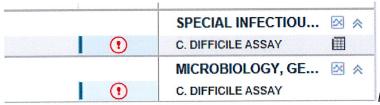
Empiric treatment is not usually indicated unless fulminant disease is suspected (e.g. toxic megacolon). If possible, avoid the use of high-risk antibiotics associated with CDI (e.g. clindamycin, fluoroquinolones, 3rd/4th generation cephalosporins) in colonized patients. Consult Antimicrobial Stewardship for assistance. Repeat testing within 7 days is not indicated unless there is a major clinical change or high clinical suspicion.

Polage et al JAMA IM 2015; Planche et al, Lancet ID 2013; Brown KA et al. CID 2021, Brown KA et al. AAC 2013

Specimen Collected: 06/13/23 8:05 AM

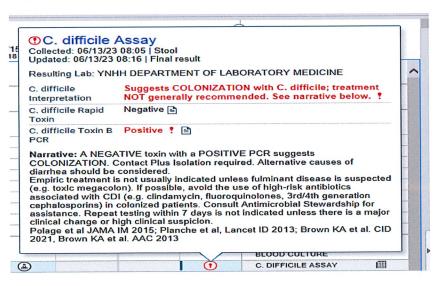
Last Resulted: 06/13/23 8:16 AM

Results Review



Both Microbiology and Special Infectious Disease when hovering

over icon



C DIFF PCR Positive – Toxin Positive example

Result Entry- Resulted Saved

Time Stamp

C. difficile Assay 🧪					Routine MICRO MAI		□ ⊮Resulted	a → C
CDIFF Interp [1]	C. difficile infection confirmed. See narrative below.							-/-
CDIFF GDH Ag [2]				Negative	MICRO MA	NUAL		
CDIFF Rapid Toxin [3] Comment Resulted 6/13/2023 8:27 AM.	Positive	,	*	Negative	MICRO MA	NUAL		→
CDIFF Tox B DNA PCR [4] Comment Resulted 6/13/2023 8:27 AM.	Positive	Ť	*	Negative	M182		,	→
CDIFF Tox B DNA PCR CT [5]		ст			M182			7/4
	VX PCR in a patient with diarrhea is indication for therapy not recommended. Repeat testing is only indicated if the pa				of therapy.			

C. difficile Assay ument ID: 70053651		• Rout
Chart Component C. difficile Interpretation	Value C. difficile infection confirmed. See narrative below. !	Ref Range & Units
C. difficile Rapid Toxin Resulted 6/13/2023 8:27 AM.	Positive !	Negative
C. difficile Toxin B DNA PCR Resulted 6/13/2023 8:27 AM.	Positive !	Negative
iments: OSITIVE toxin with a POSITIVE PCR in a patient with diarrhea is indication for th	nerapy Contact Plus Isolation required.	
ow-up testing for cure is not recommended. Repeat testing is only indicated if the	e patient has a new onset of symptoms after 14 days of therapy	

Specimen Inquiry

A C. diff	icile Assay												• !
tes	COMPARENT CDIFF Interp	value C. difficile infection confirmed. See narrative below.	Units	1	Δ	L	IE	R	Ref. Range	Method YH MICROBIOLOGY MANUAL METHOD	Chart	PV	
	CDIFF GDH Ag	Delow:							Negative	YH MICROBIOLOGY MANUAL METHOD	9/2		
	CDIFF Rapid Toxin	Positive		•				7	Negative	YH MICROBIOLOGY MANUAL METHOD	20		
	Comment: Resulted 6/13/2023 8:27 AM.									YH CEPHEID GENEXPERT			
	CDIFF TOX B DNA PCR Conment:	Positive		•				*	Negative	YH CEPHEID GENEXPERT	23		
	Resulted 6/13/2023 E:27 AM. CDIFF TOX B DNA PCR CT		CT							YH CEPHEID GENEXPERT	1		
							r 14 days	of thera	ev.				
ollow-u	p testing for cure is not recommended. Repeat	testing is only indicated if th	e patient n	as a new co.	DEC OF DY								
	CEPHEID GENEXPERT	Last received: 6/13/2023 8:27 AM				Last veni	tied: 6/13/202	3 8:31 AM	by Chretien, Darleen				

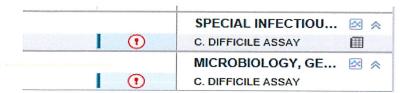
hart Review		
① C. difficile Assay		Order: 3004396
Status: Final result Visible to patient: I	No (inaccessible in MyChart) Next appt: No	ne Dx: Illness, unspecified
Specimen Information: Stool		
0 Result Notes		
Component	Ref Range & Units	6/13/23 8:26 AM
C. difficile Interpretation		C. difficile infection confirmed. See narrative below.
C. difficile Rapid Toxin	Negative	Positive!
Comment: Resulted 6/13/2023	8:27 AM.	
C. difficile Toxin B DNA PCR	Negative	Positive !
Comment: Resulted 6/13/2023	8:27 AM.	
Resulting Agency		YNHH LAB
Narrative		Performed by: YNHH LAI

A POSITIVE toxin with a POSITIVE PCR in a patient with diarrhea is indication for therapy. Contact Plus Isolation required.

Follow-up testing for cure is not recommended. Repeat testing is only indicated if the patient has a new onset of symptoms after 14 days of therapy.

Specimen Collected: 06/13/23 8:26 AM

Results Review



Both Microbiology and Special Infectious Disease when hovering over icon

