

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	Toxigenic 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. Polage et al JAMA IM 2015; Planche et al, Lancet ID 2013; Brown KA et al. CID 2021, Brown KA et al. AAC 2013	7-day block
INVALID			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

Component	Value	Units	Method
CDIFF Interp [1]			MICRO MANUAL
CDIFF GDH Ag [2]	Negative		MICRO MANUAL
CDIFF Rapid Toxin [3]	Negative		MICRO MANUAL
CDIFF Tox B DNA PCR [4]	Negative		M182
CDIFF Tox B DNA PCR CT [5]		CT	M182

Result Entry After Verified

Time Stamp

Chart	Component	Value	Ref Range & Units
<input checked="" type="checkbox"/>	C. difficile Interpretation	Toxigenic C. difficile DNA was NOT detected. See narrative below.	
<input checked="" type="checkbox"/>	C. difficile Toxin B DNA PCR	Negative	Negative

Resulted 6/13/2023 7:56 AM.

Comments:
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.

Resulting Lab: YNH LAB Test method: YH CEPHEID GENEXPERT Status: Resulted

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

Res	Component	Value	Units	Ref. Range	Method	Chart	PV
1	CDIFF Interp	Toxigenic C. difficile DNA was NOT detected. See narrative below.		--	YH MICROBIOLOGY MANUAL METHOD		
1	CDIFF GDH Ag			Negative...	YH MICROBIOLOGY MANUAL METHOD		
1	CDIFF Rapid Toxin			Negative...	YH MICROBIOLOGY MANUAL METHOD		
1	CDIFF Tox B DNA PCR	Negative		Negative...	YH CEPHEID GENEXPERT		
1	CDIFF Tox B DNA PCR CT		CT		YH CEPHEID GENEXPERT		

Result comments:
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.

Method: YH CEPHEID GENEXPERT Last received: 6/13/2023 7:55 AM Last verified: 6/13/2023 7:58 AM by Chretien, Darleen

Negative C DIFF PCR

Chart Review

Component	Ref Range & Units	6/13/23 7:55 AM
C. difficile Interpretation		Toxigenic C. difficile DNA was NOT detected. See narrative below.
C. difficile Toxin B DNA PCR	Negative	Negative

Comment: Resulted 6/13/2023 7:56 AM.

Resulting Agency: YNH LAB

Narrative: Performed by: YNH LAB

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

	SPECIAL INFECTIOUS DISEASE		
	C. DIFFICILE ASSAY		
	MICROBIOLOGY, GENERAL		
	C. DIFFICILE ASSAY		
	GONORRHOEAE CULTURE		

Both Microbiology and Special Infectious Disease when hovering over icon

		MICROBIOLOGY, GENERAL		
		C. DIFFICILE ASSAY		
		GONORRHOEAE CULTURE		

C. difficile Assay
 Collected: 06/13/23 07:55 | Stool
 Updated: 06/13/23 07:58 | Final result

Resulting Lab: YNHH DEPARTMENT OF LABORATORY MEDICINE

C. difficile Interpretation: Toxigenic C. difficile DNA was NOT detected. See narrative below.

C. difficile Toxin B PCR: Negative

Narrative: 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.

C DIFF PCR Positive – Toxin Negative example

Result Entry – Save PCR

Time Stamp

Res	Component	Value	Units	I	A	L	IE	R	Ref. Range	Method	Chart	PV
1	CDIFF Intep	Suggests COLONIZATION with C. difficile; treatment NOT generally recommended. See narrative below.		!					--	YH MICROBIOLOGY MANUAL METHOD		
1	CDIFF GDH Ag								Negative...	YH MICROBIOLOGY MANUAL METHOD		
1	CDIFF Rapid Toxin	Negative							Negative...	YH MICROBIOLOGY MANUAL METHOD		
Comment: Resulted 6/13/2023 8:06 AM.												
1	CDIFF Tox B DNA PCR	Positive		!					Negative...	YH CEPHEID GENEXPERT		Positive
Comment: Resulted 6/13/2023 8:06 AM.												
1	CDIFF Tox B DNA PCR CT		CT							YH CEPHEID GENEXPERT		
Result comments: 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. Polage et al JAMA 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												

Result Entry Verified

C. difficile Assay				
Instrument ID: 70053649				
Chart	Component	Value	Ref Range & Units	
<input checked="" type="checkbox"/>	C. difficile Interpretation	Suggests COLONIZATION with C. difficile; treatment NOT generally recommended. See narrative below. !		
<input checked="" type="checkbox"/>	C. difficile Rapid Toxin	Negative	Negative	
Resulted 6/13/2023 8:06 AM.				
<input checked="" type="checkbox"/>	C. difficile Toxin B DNA PCR	Positive !	Negative	
Resulted 6/13/2023 8:06 AM.				
Comments: 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. Polage et al JAMA IM 2015; Planche et al, Lancet ID 2013; Brown KA et al. CID 2021, Brown KA et al. AAC 2013				
Resulting Lab: YNHH LAB Test method: YH CEPHEID GENEXPERT Status: Resulted				

Specimen Inquiry

Res	Component	Value	Units	I	A	L	IE	R	Ref. Range	Method	Chart	PV
	CDIFF Interp	Suggests COLONIZATION with C. difficile; treatment NOT generally recommended. See narrative below.		!					--	YH MICROBIOLOGY MANUAL METHOD		
	CDIFF GDH Ag								Negative...	YH MICROBIOLOGY MANUAL METHOD		
	CDIFF Rapid Toxin	Negative							Negative...	YH MICROBIOLOGY MANUAL METHOD		
	CDIFF Tox B DNA PCR	Positive		!					Negative...	YH CEPHEID GENEXPERT		Positive
	CDIFF Tox B DNA PCR CT		CT							YH CEPHEID GENEXPERT		

Result comments:
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.
Polage et al JAMA 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

Component	Ref Range & Units	6/13/23 8:05 AM	7/7/22 4:25 PM
C. difficile Interpretation		Suggests COLONIZATION with C. difficile; treatment NOT generally recommended. See narrative below. !	
C. difficile Rapid Toxin	Negative	Negative	
C. difficile Toxin B DNA PCR	Negative	Positive !	Positive !
Resulting Agency		YNHH LAB	WESTERLY LAB

Narrative Performed by: YNHH LAB

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.
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

	SPECIAL INFECTIOUS...		
	C. DIFFICILE ASSAY		
	MICROBIOLOGY, GE...		
	C. DIFFICILE ASSAY		

Both Microbiology and Special Infectious Disease when hovering

over icon

C. difficile Assay

Collected: 06/13/23 08:05 | Stool
Updated: 06/13/23 08:16 | Final result

Resulting Lab: YNHH DEPARTMENT OF LABORATORY MEDICINE

C. difficile Interpretation	Suggests COLONIZATION with C. difficile; treatment NOT generally recommended. See narrative below. !
C. difficile Rapid Toxin	Negative
C. difficile Toxin B PCR	Positive !

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

C DIFF PCR Positive – Toxin Positive example

Result Entry- Resulted Saved

Time Stamp

Component	Value	Units	Ref Range	Method	Status
CDIFF Interp [1]	C. difficile infection confirmed. See narrative below.			MICRO MANUAL	Abnormal
CDIFF GDH Ag [2]				MICRO MANUAL	Abnormal
CDIFF Rapid Toxin [3]	Positive		Negative	MICRO MANUAL	Abnormal
CDIFF Tox B DNA PCR [4]	Positive		Negative	M182	Abnormal
CDIFF Tox B DNA PCR CT [5]	CT			M182	Abnormal

Comments (Alt+X, Alt+E)
 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.

Chart	Component	Value	Ref Range & Units
<input checked="" type="checkbox"/>	C. difficile Interpretation	C. difficile infection confirmed. See narrative below. !	
<input checked="" type="checkbox"/>	C. difficile Rapid Toxin	Positive !	Negative
<input checked="" type="checkbox"/>	C. difficile Toxin B DNA PCR	Positive !	Negative

Comments:
 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.

Resulting Lab: YNHH LAB Test method: YH CEPHEID GENEXPERT Status: Resulted

Specimen Inquiry

Res	Component	Value	Units	I	A	L	IE	R	Ref. Range	Method	Chart	PV
1	CDIFF Interp	C. difficile infection confirmed. See narrative below.		!						YH MICROBIOLOGY MANUAL METHOD	55	
1	CDIFF GDH Ag								Negative	YH MICROBIOLOGY MANUAL METHOD	56	
1	CDIFF Rapid Toxin	Positive		!					Negative	YH MICROBIOLOGY MANUAL METHOD	57	
1	CDIFF Tox B DNA PCR	Positive		!					Negative	YH CEPHEID GENEXPERT	58	
1	CDIFF Tox B DNA PCR CT	CT								YH CEPHEID GENEXPERT	59	

Comments:
 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.

Method: YH CEPHEID GENEXPERT Last received: 6/13/2023 8:27 AM Last verified: 6/13/2023 8:31 AM by Christen, Darleen

Chart Review








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 !
C. difficile Toxin B DNA PCR	Negative	Positive !

Resulting Agency: YNHH LAB

Narrative Performed by: YNHH LAB
 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 Last Resulted: 06/13/23 8:31 AM


Results Review



	SPECIAL INFECTIOUS...   C. DIFFICILE ASSAY 
	MICROBIOLOGY, GE...   C. DIFFICILE ASSAY



Both Microbiology and Special Infectious Disease when hovering over icon

basophis



 **C. difficile Assay**
Collected: 06/13/23 08:26 | Stool
Updated: 06/13/23 08:31 | Final result
Resulting Lab: YNHH DEPARTMENT OF LABORATORY MEDICINE

C. difficile Interpretation **C. difficile infection confirmed. See narrative below.** 

C. difficile Rapid Toxin **Positive**  

C. difficile Toxin B PCR **Positive**  

Narrative: 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.

MICROBIOLOGY, GE...  
C. DIFFICILE ASSAY 