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## LAB ALERT: New Algorithm for *C. difficile* Testing

Dear Regional Pathology Services Clients,

Nebraska Medicine Microbiology department has updated the algorithm for *C. difficile* testing. The new algorithm reverses the order of testing. The PCR toxin gene test will be performed first (CDIFD) followed by an auto reflex to the antigen/toxin test if the PCR is positive.

Performing testing in the proposed order is consistent with the algorithm used at other institutions and prevents falsely elevated case reporting. This change also aligns with the order of testing when a Gastrointestinal Pathogen Panel is performed first and followed up with antigen/toxin. This new testing algorithm will be effective **December 11, 2023**.

We realize that some clients perform the antigen testing in-house so we will still offer the stand-alone PCR Confirmatory test but it will have a new test code. The options are as follow:

**CDIFD**-This order code will now be the *C. difficile* PCR test with auto-reflex to *C. diff* antigen/toxin

**RCDFD**: *C. difficile* PCR confirmatory only (for clients that perform *C. diff* antigen testing in-house)

**GIP**-This order code will now be the GIP PCR panel with auto reflex to the *C. diff* antigen/toxin

**GIPNR**- GIP PCR panel with no reflex to *C. diff* antigen/toxin

**CDIF-stand-alone antigen/toxin assay will be deactivated and no longer be offered.**

*Specimen requirements are unchanged and require fresh liquid/soft stool.* Ambient: 24 hours;  
Refrigerated: 5 days; Freeze if not tested within 5 days

### Interface Build:

*Please deactivate test code CDIF and build the tests below*

CDIFD: <i>C.difficile</i> PCR with auto-reflex to <i>C.diff</i> antigen/toxin							
OrderCode	OrderName	ResultCode	ResultName	Result Units	RESULT LOINC	CPT	
CDIFD	C DIFFICILE DNA	CDIFD	C DIFFICILE DNA		54067-4	87493	
Reflex if result = Detected							
Reflex OrderCode	OrderName	ResultCode	ResultName	Result Units	RESULT LOINC		

CDTXAG	C DIFFICILE ANTIGEN AND TOXIN	CDIFTX	C DIFFICILE TOXIN		34713-8	0097U	
CDTXAG	C DIFFICILE ANTIGEN AND TOXIN	CDIFAG	C DIFFICILE ANTIGEN		57901-1		
CDTXAG	C DIFFICILE ANTIGEN AND TOXIN	CDIFCM	C DIFFICILE COMMENT				Note - This result may not always be resulte d so make it not require d

**RCDIFD: C. difficile PCR (No reflex)-For clients that perform antigen/toxin testing in-house**

RCDIFD	C DIFFICILE DNA	RCDIFD	C DIFFICILE DNA		54067-4	87493	
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**GIP: GIP Panel with auto reflex to C.diff antigen/toxin**

OrderCode	OrderName	ResultCode	ResultName	Result Units	RESULT LOINC	CPT	
GIP	GI PATH PANEL PCR	CMPY	CAMPYLOBAC TER SP.		82196-7		
GIP	GI PATH PANEL PCR	CDTXAB	C DIFFICILE TOXIN A/B		82197-5		
GIP	GI PATH PANEL PCR	PLESI	PLESIOMONA S SP.		82198-3		
GIP	GI PATH PANEL PCR	SLMSP	SALMONELLA SPECIES		82199-1		
GIP	GI PATH PANEL PCR	VBRSP	VIBRIO SPECIES		82200-7		
GIP	GI PATH PANEL PCR	VBRC	VIBRIO CHOLERA E		82201-5		
GIP	GI PATH PANEL PCR	YRSE	Y. ENTEROCOLITI CA		82202-3		
GIP	GI PATH PANEL PCR	EAEC	E. COLI (EAEC)		80349-4		
GIP	GI PATH PANEL PCR	EPEC	E. COLI (EPEC)		80348-6		
GIP	GI PATH PANEL PCR	ETEC	E. COLI (ETEC)		80351-0		
GIP	GI PATH PANEL PCR	STEC	E. COLI (STEC)		82203-1		
GIP	GI PATH PANEL PCR	ECO157	E. COLI O157		82204-9		
GIP	GI PATH PANEL PCR	EIEC	SHIGELLA AND EIEC		80350-2		
GIP	GI PATH PANEL PCR	CRYPTO	CRYPTOSPORI DIUM		82205-6		
GIP	GI PATH PANEL PCR	CAYE	CYCLO. CAYETANENSI S		82206-4		
GIP	GI PATH PANEL PCR	EHISTO	ENTA. HISTOLYTICA		82207-2		

GIP	GI PATH PANEL PCR	GLAMB	GIARDIA LAMBLIA		82208-0		
GIP	GI PATH PANEL PCR	ADNVF	ADENOVIRUS F 40/41		82209-8		
GIP	GI PATH PANEL PCR	ASTRV	ASTROVIRUS		82210-6		
GIP	GI PATH PANEL PCR	NOROV	NOROVIRUS GI/GII		82211-4		
GIP	GI PATH PANEL PCR	ROTV A	ROTAVIRUS A		82212-2		
GIP	GI PATH PANEL PCR	SAPO	SAPOVIRUS		82213-0		
GIP	GI PATH PANEL PCR	GIPCOM	COMMENT				
<b>Reflex if CDTXAB result = Detected</b>							
<b>ReflexOrderCode</b>	<b>OrderName</b>	<b>ResultCode</b>	<b>ResultName</b>	<b>Result Units</b>	<b>RESULT LOINC</b>		
CDTXAG	C DIFFICILE ANTIGEN AND TOXIN	CDIFTX	C DIFFICILE TOXIN		34713-8	0097U	
CDTXAG	C DIFFICILE ANTIGEN AND TOXIN	CDIFAG	C DIFFICILE ANTIGEN		57901-1		
CDTXAG	C DIFFICILE ANTIGEN AND TOXIN	CDIFCM	C DIFFICILE COMMENT				Note - This result may not always be resulte d so make it not require d.
<b>GIPNR: GIP panel with no auto reflex to C. difficile antigen/toxin</b>							
<b>OrderCode</b>	<b>OrderName</b>	<b>ResultCode</b>	<b>ResultName</b>	<b>Result Units</b>	<b>RESULT LOINC</b>	<b>CPT</b>	
GIPNR	GI PATH PANEL PCR NO RFLX	CMPY	CAMPYLOBAC TER SP.		82196-7	0097U	
GIPNR	GI PATH PANEL PCR NO RFLX	CDTXAB	C DIFFICILE TOXIN A/B		82197-5		
GIPNR	GI PATH PANEL PCR NO RFLX	PLESI	PLESIOMONA S SP.		82198-3		
GIPNR	GI PATH PANEL PCR NO RFLX	SLMSP	SALMONELLA SPECIES		82199-1		
GIPNR	GI PATH PANEL PCR NO RFLX	VBRSP	VIBRIO SPECIES		82200-7		
GIPNR	GI PATH PANEL PCR NO RFLX	VBRC	VIBRIO CHOLERAE		82201-5		
GIPNR	GI PATH PANEL PCR NO RFLX	YRSE	Y. ENTEROCOLITI CA		82202-3		
GIPNR	GI PATH PANEL PCR NO RFLX	EAEC	E. COLI (EAEC)		80349-4		
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GIPNR	GI PATH PANEL PCR NO RFLX	STEC	E. COLI (STEC)		82203-1		
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GIPNR	GI PATH PANEL PCR NO RFLX	EIEC	SHIGELLA AND EIEC		80350-2		
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GIPNR	GI PATH PANEL PCR NO RFLX	CAYE	CYCLO. CAYETANENSI S		82206-4		
GIPNR	GI PATH PANEL PCR NO RFLX	EHISTO	ENTA. HISTOLYTICA		82207-2		
GIPNR	GI PATH PANEL PCR NO RFLX	GLAMB	GIARDIA LAMBLIA		82208-0		
GIPNR	GI PATH PANEL PCR NO RFLX	ADNVF	ADENOVIRUS F 40/41		82209-8		
GIPNR	GI PATH PANEL PCR NO RFLX	ASTRV	ASTROVIRUS		82210-6		
GIPNR	GI PATH PANEL PCR NO RFLX	NOROV	NOROVIRUS GI/GII		82211-4		
GIPNR	GI PATH PANEL PCR NO RFLX	ROTVA	ROTAVIRUS A		82212-2		
GIPNR	GI PATH PANEL PCR NO RFLX	SAPO	SAPOVIRUS		82213-0		
GIPNR	GI PATH PANEL PCR NO RFLX	GIPCOM	COMMENT				

*Please contact RPS Interface Support ([RPSInterfaceSupport@unmc.edu](mailto:RPSInterfaceSupport@unmc.edu)) for questions on interface build.*