***C. difficile* Assay Resulting**

Specimen: Clean Container. Stored at 2-8°C.

**Printing a Pending Log**

* 1. **Under SoftLab**, Click on “Resulting Worklist”
  2. Go to “Select test by” and pick “Template” from the drop-down menu.
  3. Under “Tests”, type “CDPCR”.
  4. DO NOT use default date go back at least 1 week.
  5. Leave “Status” as “Pend + Nonver”
  6. Click “OK”
  7. Click the printer icon
  8. Select Worklist, Click “OK”

Any specimens received at your site, during your shift, must be resolved & accounted for.

**Cancelling in SoftLab:**

**RIH, TMH, and NH** will cancel formed stools at the time they are received.

* 1. If a test needs to be cancelled due to duplicate testing or formed stool
  2. **Under SoftLab**, Click on “Result Entry”
  3. Go to “Select test by” and pick “Test” from the drop-down menu. Enter “CDPCR” in drop down box.
  4. Under “Order Number” type in the order number you need to cancel
  5. Select **“>CANC**” from the keypad
  6. Click on the **“>CANC**” drop down menu to pick the reason for cancellation.
  7. For duplicate testing or formed stool pick “Not performed”. Go back up to the result line and open comment box.
     1. Use Comment **@CDP** for duplicate positive specimens: “Duplicate test orders. A positive C Diff PCR has been reported within the last 7 days
     2. USE **@FORM** for formed stools: Formed stool specimens not appropriate for testing. Notify nurse or physician when canceling a formed stool.
  8. If a test needs to be cancelled due to low volume (less than 10mL)
  9. Follow steps 2-6 above and select **“.QNS**”
  10. Call all cancelled tests using Comment **@CALM** “Called to and readback by:\_\_\_\_\_\_”
  11. VERIFY the results then SAVE.

**INTERPRETATION on GeneXpert:**

1. **Positive**
2. **Negative**
3. **Invalid: use Retest Procedure**
4. **Error or No Result: use Retest Procedure**

**REPORTING RESULTS:**

1. DETECTED
2. Not Detected
3. Indeterminate

**Resulting *C. difficile* Xpert Assay**

1. **Sending Results to LIS (Cepheid Interface)**
2. Check Cepheid for any INVALID or Error or any specimens that will have to be repeated. Do not upload these results!
   * Remove results from Instrument Menu by selecting Results -> Cancel (F4) -> Enter cancellation reason -> Save
3. All results should automatically upload into Soft, however test results can be manually uploaded to Soft as needed:
4. “***View Results***” on Cepheid
5. Click on ***Upload Test*** on Bottom of Screen
6. A list of all pending and uploaded tests will display
7. Check off order numbers to be sent to LIS
8. Click on ***Upload*** at bottom of screen to send to LIS
9. Status should change from “Upload Pending” to “Uploaded”
10. **Negative Results** 
    1. Negative results uploaded from the GeneXpert to Soft will post to patient order number and autoverify.
11. **Posting Positive Results**
12. From SoftLab, go to “Interfaces”, and “Instrument Menu”
13. RIH: Select “GENEX” “Cepheid Infinity” from Instrument Menu

TMH: Select “MGENE” “GeneXPERT Cepheid2 from Instrument Menu

NH: Select “NGENE” “GeneXPERT Cepheid2 from Instrument Menu

1. Select “Loadlist and Today’s Results”, “Not Posted”, “By Sequence”
2. Each order will be highlighted individually. Verify the result against the instrument printout. For any result that is being repeated do not post result.
3. To Add Result Comments, ie. Phone reports:

* Highlight the Order number on Left of Screen
* At bottom of screen click on *Lab Results (template GENEX)*
* Open “Comment” box and add comment/phone report using @CALM.
* Click Back to *Instrument* Tab and Save when asked
* Click **Post All** to verify the report
* Order number should disappear from list on Left

1. If a Positive result does not need a phone call or comment, proceed with Post All on instrument tab.
2. Check Lab Results Query and Pending Log again to confirm that all results have been verified:

* Go to “Resulting Worklist”
* Sort by Template: CDPCR
* Status: Pending and Non-Verified
* OK
* Check for pending specimens and unresolved issues
* If patient is <3 years old you will have to re-verify in Result Entry or on Lab Results Tab in instrument menu once @Y is visible in result field.

1. Positive PCR results will automatically be reflexed to *C. difficile* Free Toxin EIA (CDFTX). These orders will be performed using TOX A/B QUIK CHEK®and be run and resulted at least once daily (RIH only).
2. **Interface Troubleshooting Tips**

* If result is still showing up on pending list- Maybe patient <3 years old and needs to be re-verified.

Cepheid Instrument - If results do not Upload to Soft:

* Make sure correct specimen lab was scanned with correct Extension
* Check Upload screen and be sure order numbers are checked and click on UPLOAD again.
* If “Upload Pending” does not change to “Uploaded”, Interface may need to be restarted.

To restart Cepheid Interface

**MAKE SURE THERE ARE NO TESTS RUNNING!!!**

* Shut down the Cepheid Software
* Restart the Cepheid Software- this will restart and launches the interface

1. **To Result a Cdiff test (Without Cepheid Interface)**
   1. **Under SoftLab**, Click on “Result Entry”
   2. Go to “Select test by” and pick “Test” from the drop-down menu
   3. Under “Order Number” type in the order number you need to result
   4. Select the result from the keypad. If a sample tests invalid after the second attempt result as “Indeterminate”.
   5. **The comment box should be opened in the Results Window (not the method box). Use the comment @CALM (called to\_\_ and read back by\_\_\_, *date, time*) to record the call.**
   6. If you have a patient <3 year of age a comment will automatically be added by Soft stating that C. Diff may be present in this age group. This comment will need to be verified. To do this verify result as usual, refresh page and verify again.
   7. If you verify the result and go back in at a later time to add the comment you **MUST** verify the result line and save again, or the test will change to a pending status.

**Resulting TECHLAB® *TOX A/B QUIK CHEK®* (RIH Only)**

* 1. **Under SoftLab**, Click on “Result Entry”
  2. Go to “Select test by” and pick “Test” from the drop-down menu.
  3. Enter ***CDTXF*** and ***CDTQC*** under tests
  4. Under “Order Number” type in the order number you need to result
  5. Select the result from the keypad.
  6. Verify and save.