

## LABORATORY SERVICES IMPORTANT TEST ANNOUNCEMENTS

## **Positive Clostridium difficile Reflex to Toxin Assay**

Beginning **June 19, 2024**, the laboratory at Nationwide Children's Hospital will begin using a new algorithm for the detection of *C. difficile* and *C. difficile* associated disease (CDAD). This algorithm will now include an automatic reflex for *C. difficile* toxin antigen testing on all *C. difficile* positive stool samples identified by molecular methods. The goal of this algorithm is to increase the specificity for the detection of CDAD versus possible *C. difficile* colonization.

Test Codes: GIIA and CDIFTN Live Date: 6/19/2024

Methodology: Molecular with reflex to enzyme immunoassay (EIA)

Performed: 24/7

• Turnaround Time: One day

• Specimen Required:

Collect:

GIIA: stool in a sterile container or Cary Blair

CDIFTN: stool in a sterile container

Specimen Volume:

GIIA: 5 gram or 5 mL stool CDIFTN: 1 gram or 1 mL stool

Specimen Preparation: Follow guidelines for initial testing

Storage/Transport/Temperature:

Transport to the laboratory as soon as possible

GIIA: raw stool must be placed in Cary Blair if not sent to the laboratory within 2 hours

CDIFTN: refrigerate if transport is delayed greater than 1 hour

 Unacceptable Conditions: CDIFTN in Cary Blair, any frozen specimen in Cary Blair, rectal swab, unpreserved stool received outside of specified time frame, specimen contaminated with urine, formed or hard stool

Stability:

Stool in sterile container (either test) – 1 to 2 hours at room temp Stool in Cary Blair (GIIA only) – 24 hours room temp

Stool in sterile container (CDIFTN only) - Refrigerate for up to 5 days

## Comments:

- All stools testing positive by Gastrointestinal Infection Array (GIIA) or
   C. difficile Toxin Gene by NAAT (CDIFTN) will automatically reflex to testing for the toxin antigen by EIA. Both results will be used for the interpretation of CDAD versus colonization
- There is no additional charge for this reflex test
- The same sample used for the molecular testing will be used for toxin testing
- Samples submitted in Cary Blair transport media (GIIA) may have decreased sensitivity for the toxin antigen test
- The toxin EIA will be performed and reported within 2 hours of the initial molecular testing result
- Result interpretation will be provided based on the toxin gene and antigen
- These results must be used in conjunction with clinical signs and symptoms to determine if treatment is appropriate

If you have any additional questions about testing for **GIIA and CDIFTN** please refer to the Laboratory Test Directory or call Client Services at 614-722-5477