

TO: Attending Medical Staff, House Staff, Nursing, Clinics
FROM: Dr. Glen Hansen, Director Molecular Laboratory
SUBJECT: Gastrointestinal GI Panel by Film Array PCR
Effective: August 17, 2015

New Test in Microbiology

Effective August 17th, the microbiology department will offer PCR testing for 21 potential pathogens associated with infectious gastroenteritis. PCR testing will be offered from freshly collected stool specimens or specimens collected in Cary Blair Medium, 7 days a week between 7AM and 10 PM.

Stool cultures will remain a separate orderable within EPIC.

PCR panel based GI testing may be ordered as supplemental testing or as replacement for stool culture requests in patients with high probability of infectious gastroenteritis.

Stool GI PCR testing **WILL NOT** detect the presence of toxigenic *Clostridium difficile* which is tested by a separate PCR test and a separate EPIC order.

In cases where co-existing culture and molecular orders are received by the laboratory, the stool culture request will be cancelled and the PCR GI panel performed.

Gastrointestinal (GI) Panel

Organisms that can be identified using the Film Array GI Panel

Bacteria	Diarrheagenic E.coli/Shigella
<i>Campylobacter (C. jejuni/C. coli/C. upsaliensis)</i>	Enteropathogenic <i>E. coli</i>
<i>Plesiomonas shigelloides</i>	Enteropathogenic <i>E. coli</i>
<i>Salmonella</i>	Enterotoxigenic <i>E. coli</i> lt/st
<i>Vibrio cholera</i>	Shiga-like toxin-producing <i>E. coli</i> stx1/stx2
<i>Vibrio (V. parahaemolyticus/V. vulnificus/V. cholerae)</i>	<i>E. coli</i> O157
<i>Yersinia enterocolitica</i>	Shigella/Enteroinvasive <i>E. coli</i>
Viruses	Parasites
Adenovirus F 40/41	<i>Cryptosporidium</i>
Astrovirus	<i>Cyclospora cayetanensis</i>
Norovirus GI/GII	<i>Entamoeba histolytica</i>
Rotavirus A	<i>Giardia lamblia</i>
Sapovirus (Genogroups I, II, IV and V)	

EPIC Test code: Stool GI Panel

Results: Detected or Not Detected for each analyte

Specimen types: Fresh stool or stool collected in Cary Blair transport media.

**Notes: For *Clostridium difficile*, order C DIFF PCR
If a complete O&P is required order an O&P.**

Susceptibility: If susceptibility is required please contact the Microbiology Laboratory at 612-873-3033.

Questions: Please contact the Microbiology Laboratory at (612-873-3033), Microbiology Director Dr. Glen Hansen (612-873-3026), or Microbiology Supervisor Kevan Hanson (612-873-4795).