Des Moines Laboratory Update

Date: May 23, 2019

Calprotectin Available at MercyOne Des Moines Laboratory

Effective May 29, 2019, MercyOne Des Moines Laboratory will be performing the fecal calprotectin test in-house improving turnaround time and providing a cost-effective option in place of the Prometheus IBD sgi panel which is high dollar, often unnecessary, and non-coverable by certain insurance companies.

Calprotectin is an indirect marker of intestinal inflammation and a first-line test option that can help differentiate between Inflammatory Bowel Disease (IBD) and Irritable Bowel Syndrome (IBS). A negative Calprotectin result may eliminate the need for additional invasive procedures or imaging studies. A Calprotectin result of >150 ug/g indicates possible inflammatory GI disease and a need for possible colonoscopy to be considered to determine the etiology of the inflammation.

Diagnosis of IBD
Application of Calprotectin

Measure fecal calprotectin in patient with symptoms consistent with inflammatory GI condition

- Calprotectin <50 ug/g
  - Consistent with non-inflammatory condition, such as IBS

- Calprotectin 50-150 ug/g
  - Exclude possible causes of GI inflammation (infection, NSAIDs, etc):
    - Repeat calprotectin

- Calprotectin >150 ug/g
  - Possible inflammatory GI disease (IBD, infection, malignancy):
    - Consider colonoscopy

  - Calprotectin <50 ug/g
    - Possible IBS

  - Calprotectin ≥50 ug/g
    - Consider colonoscopy
Peer reviewed clinical literature only supports the use of three serologic tests for IBD and for limited applications. Mayo Clinic recommends serologic testing for IBD only when a diagnosis has been made using modalities such as flexible sigmoidoscopy or colonoscopy with mucosal biopsies and radiographic studies, but where the results do not clearly differentiate between ulcerative colitis and Crohn’s disease. The Mayo serology panel is based on significant peer reviewed literature and examines only the characteristic patterns of antibodies with demonstrated clinical utility.

Inflammatory Bowel Disease Serology Panel (Mayo Test ID: IBDP)
- *Saccharomyces cerevisiae* antibodies, IgA
- *Saccharomyces cerevisiae* antibodies, IgG
- Neutrophil specific antibodies (perinuclear anti-neutrophilic cytoplasmic antibody – pANCA)

Please contact Dr. Clinton Crowder at 515-643-8532 to discuss testing options and interpret results. See links below for additional information around Calprotectin testing.

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4734737/

https://www.medpagetoday.com/mayo/article/500301

**Test Name:** Calprotectin (CALPR)
**Performing Laboratory:** MercyOne Des Moines Laboratory
**Acceptable Specimens:** Stool sample in sterile container
**Minimum Volume:** 1 mL
**Stability:** Refrig. 72 hours, Frozen: 7 days
**CPT:** 83993
**Client List Price:** $100
**Patient/Insurance Price:** $100
**Rejection:** Specimen collected in preservative or from a diaper

Thank you for choosing MercyOne Des Moines Laboratory.