TEST UPDATE
CELIAC DISEASE PANEL

Pranil K. Chandra, DO, Medical Director
Jeff Johnson, AVP of Operations

This change will take effect **April, 14, 2014**

OVERVIEW AND CLINICAL UTILITY:

Effective April 14, 2014, PathGroup will change methodologies for the celiac disease panel (tissue transglutaminase and deaminated gliadin IgA and IgG). Methodology will change from enzyme immunoassay to multiplex flow immunoassay. Diagnosis of celiac disease is based on a combination of clinical symptoms, positive serological test results for at least one of the following: IgA and/or IgG antibodies to tTG or native gliadin or DGP or EMA, human leukocyte antigen (HLA)-DQ2 or DQ8 genotypes, biopsy of the small intestine (demonstrating flat mucosa), or a patient's satisfactory response to a gluten-free diet (GFD). The determination of IgG antibodies to DGP and/or tTG is especially important, as approximately 3% of celiac patients display an IgA deficiency, thus being missed by IgA subclass tests.[5] The IgA antibodies to tTG correlate closely with the activity of celiac disease and thus are useful for diet monitoring.

TEST METHODOLOGY:

Multiplex Flow Immunoassay

ORDERING:

TEST	TEST NAME	CPT	LOINC
TGAA	Tissue Transglutaminase IgA	83516	46128-5
TGGA	Tissue Transglutaminase IgG	83516	56537-4
GAA	Deaminated Gliadin IgA	83516	63453-3
GGA	Deaminated Gliadin IgG	83516	63459-2

REFERENCE RANGE:

TEST	NEW TEST	PREVIOUS TEST
TGAA TGGA	Units: U/mL	Units: U/mL
	<15 Negative	<15 Negative
	≥15 Positive	≥15 Positive
GAA GGA	Units: U/mL	Units: Units
	<15 Negative	<19 Negative
	≥15 Positive	≥19 Positive

SPECIMEN COLLECTION AND STORAGE:

IF ORDERING:
- Collect specimen in a serum separator tube.<ol type="a"> - Allow serum tube to clot for 30 minutes.   - Spin serum separator tube 10-15 minutes @ 3500 rpm.   - Serum specimens are stable refrigerated for 3 days.   - Transport specimen refrigerated.

TEST PERFORMED: Monday - Friday   **TURNAROUND TIME:** 1 – 2 days

For further questions, please contact Client Services at 615-562-9300 or 1-888-474-5227