

Update to Celiac Disease Panel Testing for the UVM Health Network

Effective on 6/29/22, the testing for the diagnosis of celiac disease will be modified across the UVM Health Network (UVMHN). This is part of the process to improve standardization of laboratory testing across the UVMHN, is evidence-based, in-line with the American College of Gastroenterology clinical guidelines for celiac testing, and the current practice of UVMHC gastroenterology providers.¹

For the evaluation of a patient suspected of having celiac disease, please order the following test:

Orderable Name	Epic Code	Atlas Code	Mayo Access ID	Order LOINC
Celiac Disease Panel	LAB2736	CDP	FAH5797	69726-8
Resultable Name	Epic Code	Atlas Code	Mayo Access ID	Result LOINC
Tissue Transglutaminase Ab, IgA	12301002597	TTAB	FAH5587	46128-5
IgA	12301002021	IGA	FAH5813	2458-8
Celiac Disease Interpretation	12301000618	CDPI	FAH5798	69048-7

Specimen Container	Specimen	Temperature	Collect Vol	Submit/Min Vol	Stability
SST (preferred)	Serum	Refrigerate	4 mL	2 mL/1 mL	7 days
Collection Instructions:					
Red Top Tube is acceptable.					
Serum should be separated from clotted blood and stored at 2-8 C within 4 hours of collection.					
If the assay will not be completed within 48 hours of collection or for shipment of the specimen, freeze at -20 C.					
CPT Codes: 82784, 86364					

This testing includes serum measurement of Tissue Transglutaminase IgA (TTG-IgA) antibody and total IgA. This test is the single best test for the initial evaluation of the majority of patients suspected of having celiac disease.^{1,2} For patients with high suspicion for celiac disease or in special populations when the TTG-IgA is negative and total IgA is low, TTG-IgG and/or Gliadin (Deamidated) Ab IgG, S can be ordered by reaching out to the UVMHC laboratory (802-847-5121) to add on the testing to the patient's sample.

Mayo Tests to be Restricted to the Laboratory:

Restricted Orderable Name	Epic Code	Atlas Code	Mayo Test ID
Gliadin (Deamidated) Ab IgA, S	LAB2739	N/A	DAGL
Gliadin (Deamidated) Ab IgG, S	LAB2738	N/A	DGGL
Tissue Transglutaminase Ab, IgG, S	LAB2737	N/A	TTGG

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The TTG-IgG and Gliadin (Deamidated) Ab IgA and IgG will become restricted to the UVMMC laboratory as their use should be tailored to the specific patient clinical picture in consultation with lab medicine and gastroenterology. The upfront ordering of all these tests for diagnosis of celiac disease in the general population, which is seen in the Mayo test Celiac Disease Comprehensive Cascade, Serum and Whole Blood, leads to decreased specificity for diagnosis of celiac disease and may lead to over diagnosis and unnecessary treatment.^{1,2} As such, the following Mayo tests will be inactivated:

Mayo Tests to be INACTIVATED:

Orderable to be Inactivated	Epic Code	Atlas Code	Mayo Test ID
Celiac Disease Comprehensive Cascade, Serum and Whole Blood	LAB2735	N/A	CDCOM
Gliadin (Deamidated) Abs Evaluation, IgG and IgA, S	LAB15503	N/A	DGLDN
Tissue Transglutaminase Ab, IgA, S	LAB17175	N/A	TTGA

It is important to note that all serology testing for the diagnosis of celiac disease should be performed on patients currently eating a gluten containing diet. Testing options in patients that have already initiated a gluten free diet can be discussed in consultation with lab medicine and gastroenterology.

If you have any questions, please reach out to the Medical Director of Clinical Chemistry, Dr. Clayton Wilburn (clayton.wilburn@uvmhealth.org).

References:

1. Rubio-Tapia, Alberto MD; Hill, Ivor D MD; Kelly, Ciarán P MD; Calderwood, Audrey H MD; Murray, Joseph A MD. ACG Clinical Guidelines: Diagnosis and Management of Celiac Disease, American Journal of Gastroenterology: May 2013 - Volume 108 - Issue 5 - p 656-676 doi: 10.1038/ajg.2013.79
2. Benjamin Lebwohl and Alberto Rubio-Tapia. Epidemiology, Presentation, and Diagnosis of Celiac Disease. Gastroenterology 2021;160:63–75. DOI:<https://doi.org/10.1053/j.gastro.2020.06.098>

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