**New Celiac Disease Panel**

On June 24, 2016, the HLA Laboratory began offering a Celiac-Associated HLA DQ Alpha and DQ Beta testing. HLA currently offers HLA DQ Alpha 1 and DQ Beta 1 testing and now the ordering of these tests for Celiac Disease Association will be easier. Previously when testing for celiac HLA DQA1 and DQB1, a generic HLA DQ test was ordered and a comment was placed by the ordering provider if the testing was for celiac disease. Now a provider can order a single test, CELIDQ to receive the HLA DQA1 and DQB1 typing and an interpretive assessment.

**CLINICAL APPLICATION**

Celiac Disease (gluten-sensitive enteropathy) is mediated by T lymphocytes in patients with genetic susceptibility. This genetic association is with certain HLA genes in the class II region (DQ alpha 1, DQ beta 1).

HLA DQA1 and DQB1 typing are useful for assessing the risk of celiac disease.

The UVM Medical Center results for this test will include the HLA DQA1 and DQB1 typing and an interpretive risk assessment.

**METHOD**

Testing is performed by Polymerase Chain Reaction/Reverse Sequence Specific Oligonucleotide Probe (PCR/rSSOP) at a low to intermediate resolution which uses sequence-specific oligonucleotide probes (SSO) bound to fluorescent coded microspheres (beads) to identify alleles encoded by sample DNA. DNA typing is analyzed by Luminex technology.

The assignment of the HLA typing is based on the reaction pattern compared to patterns associated with published HLA gene sequences and can discriminate a single nucleotide change.

**LIMITATIONS**

It is important to realize that these genes are also present in about approximately 20% of the population without celiac disease. Therefore, the presence of these genes does not prove the presence of celiac disease or that genetic susceptibility to celiac disease is present.

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**Important note**

**HLA typing samples should not be shared. This test should have a separate sample tube.**

**Additional Test Codes**

<table>
<thead>
<tr>
<th>Primary ID</th>
<th>SQ Code</th>
<th>PRISM Code</th>
<th>Mayo Access ID</th>
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</thead>
<tbody>
<tr>
<td>CELIDQ</td>
<td>CELIDQ</td>
<td>LAB3581</td>
<td>FAH5719</td>
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</table>
Celiac Disease Panel Specimen Information

<table>
<thead>
<tr>
<th>Container</th>
<th>Specimen</th>
<th>Temp.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lavender Top Tube</td>
<td>Whole Blood</td>
<td>Refrigerate</td>
</tr>
<tr>
<td>Collect Volume</td>
<td>Submit Volume</td>
<td>Minimum Volume</td>
</tr>
<tr>
<td>2.5 mL</td>
<td>2.5 mL</td>
<td>1.5 mL</td>
</tr>
</tbody>
</table>

Tube should be full, do not spin. Specimen must be labeled with collection date and at least 2 patient identifiers. Specimen is stable at room temperature for 24 hours and at 2-8°C for 30 days, consult HLA department for other situations.

Test Schedule
Monday - Friday / 5 days / Not available STAT

CPT
81376 x 2

New York State Approved
Yes

Effective Date
June 24, 2016

FOR MORE INFORMATION
Contact Laboratory Customer Service or email the Lab Ambassadors for clinical questions.

PATHOLOGY & LABORATORY MEDICINE
111 Colchester Avenue
Mail Stop: 233MP1
Burlington, Vermont 05401

PHONE LABORATORY CUSTOMER SERVICE
(802) 847-5121
(800) 991-2799

LAB AMBASSADOR EMAIL
LabAmbassador@UVMHealth.org

FAX LABORATORY CUSTOMER SERVICE
(802) 847-5905

WEBSITE
http://uvmlabs.testcatalog.org/