NOTICE DATE: September 4, 2019

EFFECTIVE DATE: September 15, 2019

ANNOUNCEMENT

MLABS IS GETTING A NEW NAME!

Effective September 15, 2019, MLabs will be formally changing its name to Michigan Medicine Laboratories. We will be sharing more information over the next few weeks. Please check our website.

www.mlabs.umich.edu

EFFECTIVE DATE: Immediately

TESTING DELAY

Myasthenia Gravis Evaluation, Thymoma
Order Code: MMLR
CPT Code: 83519 x4, 83520, 84182, 86341, Reflex GAD65 86341, VGKC 83519
Fee Code: Reflex GAD65 32140, VGKC 40393
Reference Laboratory: Mayo Medical Laboratory

Effective August 29, 2019, Myasthenia Gravis Evaluation, Thymoma (MMLR) testing may be delayed per Mayo Medical Laboratory due to a reagent issue, potential reflex component ARMO: Acetylcholine Receptor (Muscle AChR) Modulating Antibody, Serum is unable to be performed. As applicable, all pending evaluations will be finalized without the ARMO reflex.

EFFECTIVE DATE: Immediately

TESTING DELAY

Myasthenia Gravis Evaluation, Lambert-Eaton Syndrome
Order Code: MMLR
CPT Code: 83519 x4, 83520 Reflex ACHR 83519, C5BLOT84182
Fee Code: Reflex ACHR 83519, C5BLOT84182
Reference Laboratory: Mayo Medical Laboratory

Effective August 29, 2019, Myasthenia Gravis Evaluation, Lambert-Eaton Syndrome (MMLR) testing may be delayed per Mayo Medical Laboratory due to a reagent, potential reflex component ARMO: Acetylcholine Receptor (Muscle AChR) Modulating Antibody, Serum is unable to be performed. As applicable, all pending evaluations will be finalized without the ARMO reflex.
ATTN: IMPORTANT TEST INFORMATION

TEST UPDATE 681

EFFECTIVE DATE: Immediately

TESTING DELAY

Myasthenia Gravis Evaluation, Adult
Order Code: MG1
CPT Code: 83519 x2, 83520 Reflex ACHRG 83519, C5BLOT84182, GAD65 32140, VGKC 40393
Fee Code: Reflex ACHRG 83519, C5BLOT84182, GAD65 32140, VGKC 40393
Reference Laboratory: Mayo Medical Laboratory

Effective August 29, 2019, Myasthenia Gravis Evaluation, Adult (MMLR) testing may be delayed per Mayo Medical Laboratory due to a reagent issue, potential reflex component ARMO: Acetylcholine Receptor (Muscle AChR) Modulating Antibody, Serum is unable to be performed. As applicable, all pending evaluations will be finalized without the ARMO reflex.

EFFECTIVE DATE: Immediately

TESTING DELAY

Myasthenia Gravis Evaluation, Pediatric
Order Code: MMLR
CPT Code: 83519 x2
Fee Code: 36163
Reference Laboratory: Mayo Medical Laboratory

Effective August 29, 2019, Myasthenia Gravis Evaluation, Pediatric (MMLR) testing may be delayed per Mayo Medical Laboratory due to a reagent issue, potential reflex component ARMO: Acetylcholine Receptor (Muscle AChR) Modulating Antibody, Serum is unable to be performed. As applicable, all pending evaluations will be finalized without the ARMO reflex.

Recommended Testing

Acetylcholine Receptor Modulating Antibody
Order Code: MMLR
CPT Code: 83519
Reference Laboratory: Mayo Medical Laboratory

Collection Instructions: Collect approximately 2mL of whole blood in a red top or serum separator tube (SST). Centrifuge the specimen and aliquot the serum into a plastic vial. Ship the serum refrigerated, preferred.

Set Up / Analytic Time: Sunday, Tuesday and Thursday, 2-7 days
MLABS – DEPARTMENT OF PATHOLOGY
ATTN: IMPORTANT TEST INFORMATION
TEST UPDATE 681

EFFECTIVE DATE: Immediately

TESTING DELAY

Autoimmune Dysautonomia Evaluation, Serum
Order Code: DYS2
CPT Code: 83519 x2, 83520, 86255 x2, 86341
Reference Laboratory: Mayo Medical Laboratory

Effective August 29, 2019, Autoimmune Dysautonomia Evaluation, Serum (DYS2) testing may be delayed per Mayo Medical Laboratory due to a reagent issue, potential reflex component ARMO: Acetylcholine Receptor (Muscle AChR) Modulating Antibody, Serum is unable to be performed. As applicable, all pending evaluations will be finalized without the ARMO reflex.

EFFECTIVE DATE: Immediately

TESTING DELAY

Dementia, Autoimmune Evaluation, Serum
Order Code: DMS2
CPT Code: 83519 x5, 86255 x13, 86341 Reflex 86255, and/or 84182 an/or 86256
Reference Laboratory: Mayo Medical Laboratory

Effective August 29, 2019, Dementia, Autoimmune Evaluation, Serum (DYS2) testing may be delayed per Mayo Medical Laboratory due to a reagent issue, potential reflex component ARMO: Acetylcholine Receptor (Muscle AChR) Modulating Antibody, Serum is unable to be performed. As applicable, all pending evaluations will be finalized without the ARMO reflex.

EFFECTIVE DATE: Immediately

TESTING DELAY

Paraneoplastic Autoantibody Evaluation
Order Code: PAVL
CPT Code: 83519 x5, 83520 86255 x9 with reflexes
Reference Laboratory: Mayo Medical Laboratory

Effective August 29, 2019, Paraneoplastic Autoantibody Evaluation (PAVL) testing may be delayed per Mayo Medical Laboratory due to a reagent issue, potential reflex component ARMO: Acetylcholine Receptor (Muscle AChR) Modulating Antibody, Serum is unable to be performed. As applicable, all pending evaluations will be finalized without the ARMO reflex.
ATTN: IMPORTANT TEST INFORMATION
TEST UPDATE 681

EFFECTIVE DATE: Immediately

TESTING DELAY

Epilepsy, Autoimmune Evaluation, Serum
Order Code: EPS2
CPT Code: 83519 x5, 86255 x13, 86341
Reference Laboratory: Mayo Medical Laboratory

Effective August 29, 2019, Epilepsy, Autoimmune Evaluation, Serum (EPS2) testing may be delayed per Mayo Medical Laboratory due to a reagent issue, potential reflex component ARMO: Acetylcholine Receptor (Muscle AChR) Modulating Antibody, Serum is unable to be performed. As applicable, all pending evaluations will be finalized without the ARMO reflex.

EFFECTIVE DATE: Immediately

TESTING DELAY

Encephalopathy, Autoimmune Evaluation, Serum
Order Code: ENS2
CPT Code: 83519 x5, 86255 x14, 86341 Reflexes 84182 and/or 86255 and/or 86256
Reference Laboratory: Mayo Medical Laboratory

Effective August 29, 2019, Encephalopathy, Autoimmune Evaluation, Serum (ENS2) testing may be delayed per Mayo Medical Laboratory due to a reagent issue, potential reflex component ARMO: Acetylcholine Receptor (Muscle AChR) Modulating Antibody, Serum is unable to be performed. As applicable, all pending evaluations will be finalized without the ARMO reflex.

EFFECTIVE DATE: August 29, 2019

NEW TEST CODES

Effective August 29, 2019, MLabs will offer built codes for the following tests being sent to referral laboratories.

<table>
<thead>
<tr>
<th>Code</th>
<th>Test Name</th>
<th>CPT Code</th>
<th>Referral Laboratory</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFPA</td>
<td>Alpha Fetoprotein, Amniotic Fluid</td>
<td>82106</td>
<td>Mayo Medical Laboratories</td>
</tr>
<tr>
<td>AGAS</td>
<td>Alpha Galactosidase, Serum</td>
<td>82657</td>
<td>Mayo Medical Laboratories</td>
</tr>
<tr>
<td>ACLIP</td>
<td>Cardiolipin Antibody, IgA</td>
<td>86147</td>
<td>Mayo Medical Laboratories</td>
</tr>
<tr>
<td>VALGP</td>
<td>Alpha-Gal Panel</td>
<td>86008, 86003 x3</td>
<td>Viracor</td>
</tr>
<tr>
<td>VALGE</td>
<td>Galactose-alpha-1, 3 galactose (Alpha-Gal) IgE</td>
<td>86008</td>
<td>Viracor</td>
</tr>
</tbody>
</table>
EFFECTIVE DATE: September 4, 2019

NEW TEST

Oxygen Dissociation, P50, Erythrocytes
Order Code: P50B
CPT Code: 82820
Reference Laboratory: Mayo Medical Laboratory

Effective September 4, 2019, MLabs will offer Oxygen Dissociation, P50, Erythrocytes (P50B) testing sent to Mayo Medical Laboratories.

Collection Instructions: Collect approximately 5 mL of whole blood in a sodium heparin (green top) tube from a patient AND a normal control participant. Rubber band the tubes together and send to refrigerate immediately. Please label the normal control tube as "Normal Control" without patient identifiers. Tubes must be kept together to ensure temperature exposures are identical.

Methodology: Hemox-Analyzer Measures and Plots O2 Saturation

Reference Range: > or =12 months: 24-30 mm Hg

Test Set Up / Analytic Time: Monday - Sunday, 2 - 4 days

EFFECTIVE DATE: September 4, 2019

NEW TEST

Trypansoma cruzi Antibody, IgG
Order Code: CHAG
CPT Code: 86753
Reference Laboratory: Mayo Medical Laboratory

Effective September 4, 2019, MLabs will offer Trypansoma cruzi Antibody, IgG (CHAG) testing sent to Mayo Medical Laboratories.

Collection Instructions: Collect approximately 3 mL of whole blood in a red top or serum separator tube (SST). Centrifuge and aliquot the serum into a plastic vial. Ship the specimen refrigerated or frozen (preferred).

Methodology: ELISA

Reference Range: Negative

Test Set Up / Analytic Time: Monday, 1 - 8 days
MLABS – DEPARTMENT OF PATHOLOGY
ATTN: IMPORTANT TEST INFORMATION
TEST UPDATE 681

EFFECTIVE DATE:  September 4, 2019

NEW TEST

Anti-DNase B Titer
Order Code:    ADNAS
CPT Code:     86215
Reference Laboratory: Mayo Medical Laboratory

Effective September 4, 2019, MLabs will offer Anti-DNase B Titer (ADNAS) testing sent to Mayo Medical Laboratories.

Collection Instructions: Collect approximately 3 mL of whole blood in a red top or serum separator tube (SST). Centrifuge and aliquot the serum into a plastic vial. Ship the specimen refrigerated.

Methodology: Nephelometry

Reference Range: age <5 yr: < or = 250 U/Ml; age 5-17 yr: < or = 375 U/Ml; age >=18 yr: < or = 300 U/Ml

Test Set Up / Analytic Time: Monday - Saturday, 2 - 4 days

EFFECTIVE DATE:  September 4, 2019

NEW TEST

Connective Tissue Disease Cascade, Serum
Order Code:    CTDC
CPT Code:     86038, 86200, if applicable 83516 x2
Reference Laboratory: Mayo Medical Laboratory

Effective September 4, 2019, MLabs will offer Connective Tissue Disease Cascade, Serum (CTDC) testing sent to Mayo Medical Laboratories.

Collection Instructions: Collect approximately 3 mL of whole blood in a red top or serum separator tube (SST). Centrifuge and aliquot the serum into a plastic vial. Ship the specimen refrigerated (preferred) or frozen.

Methodology: ELISA

Reference Range:

<table>
<thead>
<tr>
<th>Test</th>
<th>Reference Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antinuclear Antibodies (ANA)</td>
<td>≤1.0 U (negative), 1.1 - 2.9 U (weakly positive), 3.0 - 5.9 U (Positive), ≥ 6.0 U (strongly positive)</td>
</tr>
<tr>
<td>Cyclic Citrullinated Peptide Antibodies, IgG</td>
<td>&lt; 20.0 U (Negative), 20.0 - 39.9 U (weak Positive), 40.0 - 59.9 U (positive), ≥ 60.0 U (Strongly positive)</td>
</tr>
</tbody>
</table>
Test Set Up / Analytic Time:  Monday - Saturday, 3 - 4 days

EFFECTIVE DATE:  September 25, 2019

TEST CHANGE

Fluoxetine, Serum
Order Code:  FLX
CPT Code:  80299
Reference Laboratory:  Mayo Medical Laboratory

Effective September 25, 2019, Mayo Medical Laboratories will be changing the Fluoxetine, Serum (FLX) test to the following:

<table>
<thead>
<tr>
<th>Current Method</th>
<th>New Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>High-Turbulence Liquid Chromatography Mass Spectrometry (HTLC-MS/MS)</td>
<td>Liquid Chromatography Mass Spectrometry (LC-MS/MS)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Current Reference Value</th>
<th>New Reference Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluoxetine + Norfluoxetine 120-300 ng/mL</td>
<td>Fluoxetine + Norfluoxetine 120-500 ng/mL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Current Specimen Stability</th>
<th>New Specimen Stability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specimen</td>
<td>Temperature</td>
</tr>
<tr>
<td>Serum Red</td>
<td>Refrigerated (preferred)</td>
</tr>
<tr>
<td></td>
<td>Ambient</td>
</tr>
<tr>
<td></td>
<td>Frozen</td>
</tr>
</tbody>
</table>

EFFECTIVE DATE:  September 25, 2019

TEST CHANGE

Mexiletine, Serum
Order Code:  MMLR
CPT Code:  80299
Reference Laboratory:  Mayo Medical Laboratory

Effective September 25, 2019, Mayo Medical Laboratories will be changing the Mexiletine, Serum (MMLR) test to the following:

<table>
<thead>
<tr>
<th>Current Method</th>
<th>New Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>High-Performance Liquid Chromatography (HPLC)</td>
<td>Liquid Chromatography Mass Spectrometry (LC-MS/MS)</td>
</tr>
</tbody>
</table>

| Current Reference Value | New Reference Value |
MLABS – DEPARTMENT OF PATHOLOGY
ATTN: IMPORTANT TEST INFORMATION
TEST UPDATE 681

Therapeutic Concentration: 0.8-2.0 mcg/mL (trough value)
Toxic Concentration: >2.0 mcg/mL (trough value)

Therapeutic Concentration: 0.5-2.0 mcg/mL (trough value)
Toxic Concentration: >2.0 mcg/mL (trough value)

<table>
<thead>
<tr>
<th>Current Specimen Requirement</th>
<th>New Specimen Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specimen</td>
<td>Specimen</td>
</tr>
<tr>
<td>Red Top</td>
<td>Red Top</td>
</tr>
<tr>
<td>Specimen Volume</td>
<td>Specimen Volume</td>
</tr>
<tr>
<td>3 mL</td>
<td>1.5 mL</td>
</tr>
<tr>
<td>Specimen Container</td>
<td>Specimen Container</td>
</tr>
<tr>
<td>Plastic Vial</td>
<td>Plastic Vial</td>
</tr>
</tbody>
</table>

Collection Instructions
1. Specimens should be collected after patient has been receiving mexiletine for at least 3 days.
2. Trough concentrations should be collected just before administration of next dose.

Collection Instructions
1. Specimens should be collected after patient has been receiving mexiletine for at least 3 days.
2. Trough concentrations should be collected just before administration of next dose.
3. Centrifuge and aliquot within 2 hours of collection.

EFFECTIVE DATE: September 25, 2019

TEST CHANGE

Propafenone, Serum
Order Code: PFN
CPT Code: 80299
Reference Laboratory: Mayo Medical Laboratory

Effective September 25, 2019, Mayo Medical Laboratories will be changing the Propafenone, Serum (PFN) test to the following:

<table>
<thead>
<tr>
<th>Current Method</th>
<th>New Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>High-Performance Liquid Chromatography (HPLC)</td>
<td>Liquid Chromatography Mass Spectrometry (LC-MS/MS)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Current Reference Value</th>
<th>New Reference Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Therapeutic Concentration: 0.5-2.0 mcg/mL</td>
<td>Trough Value</td>
</tr>
<tr>
<td>Therapeutic Concentration: 0.5-2.0 mcg/mL</td>
<td>Therapeutic Concentration: 0.5-2.0 mcg/mL</td>
</tr>
<tr>
<td>Toxic Concentration: &gt;2.0 mcg/mL</td>
<td>Toxic Concentration: &gt;2.0 mcg/mL</td>
</tr>
</tbody>
</table>
### Current Specimen Requirement

<table>
<thead>
<tr>
<th>Specimen</th>
<th>Red Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specimen Volume</td>
<td>3 mL</td>
</tr>
<tr>
<td>Specimen Container</td>
<td>Plastic Vial</td>
</tr>
</tbody>
</table>

**Collection Instructions**

1. Specimens should be collected after patient has been receiving propafenone for at least 3 days.
2. Trough concentrations should be collected just before administration of next dose.

### New Specimen Requirement

<table>
<thead>
<tr>
<th>Specimen</th>
<th>Red Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specimen Volume</td>
<td>1.5 mL</td>
</tr>
<tr>
<td>Specimen Container</td>
<td>Plastic Vial</td>
</tr>
</tbody>
</table>

**Collection Instructions**

1. Specimens should be collected after patient has been receiving propafenone for at least 3 days.
2. Trough concentrations should be collected just before administration of next dose.
3. Centrifuge and aliquot within 2 hours of collection.

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**EFFECTIVE DATE:** September 25, 2019

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**TEST CHANGE**

**Amiodarone and Desethylamiodarone**

Order Code: AMIO  
CPT Code: 80299  
Reference Laboratory: Mayo Medical Laboratory

Effective September 25, 2019, Mayo Medical Laboratories will be changing the Amiodarone and Desethylamiodarone (AMIO) test to the following:

### Current Method

- High-Turbulence Liquid Chromatography Mass Spectrometry (HTLC-MS/MS)

### New Method

- Liquid Chromatography Mass Spectrometry (LC-MS/MS)

### Current Specimen Requirement

<table>
<thead>
<tr>
<th>Specimen</th>
<th>Red Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specimen Volume</td>
<td>3 mL</td>
</tr>
<tr>
<td>Specimen Container</td>
<td>Plastic Vial</td>
</tr>
</tbody>
</table>

**Collection Instructions**

1. Specimens should be collected no sooner than 12 hours (trough value) after last dose.

### New Specimen Requirement

<table>
<thead>
<tr>
<th>Specimen</th>
<th>Red Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specimen Volume</td>
<td>1.5 mL</td>
</tr>
<tr>
<td>Specimen Container</td>
<td>Plastic Vial</td>
</tr>
</tbody>
</table>

**Collection Instructions**

1. Specimens should be collected no sooner than 12 hours (trough value) after last dose or immediately before the next scheduled dose.
2. Centrifuge and aliquot within 2 hours of collection.
EFFECTIVE DATE: September 25, 2019

TEST CHANGE

Flecainide, Serum
Order Code: FLEC
CPT Code: 80299
Reference Laboratory: Mayo Medical Laboratory

Effective September 25, 2019, Mayo Medical Laboratories will be changing the Flecainide, Serum (FLEC) test to the following:

<table>
<thead>
<tr>
<th>Current Method</th>
<th>New Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>High-Performance Liquid Chromatography (HPLC)</td>
<td>Liquid Chromatography Mass Spectrometry (LC-MS/MS)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Current Reference Value</th>
<th>New Reference Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.2-1.0 mcg/mL</td>
<td>Trough Value</td>
</tr>
<tr>
<td></td>
<td>Therapeutic Concentration: 0.2-1.0 mcg/mL</td>
</tr>
<tr>
<td></td>
<td>Toxic Concentration: &gt;1.0 mcg/mL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Current Specimen Requirement</th>
<th>New Specimen Requirement</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>Specimen Container</td>
<td>Specimen Container</td>
</tr>
<tr>
<td>Plastic Vial</td>
<td>Plastic Vial</td>
</tr>
</tbody>
</table>

Collection Instructions

1. Centrifuge and aliquot within 2 hours of collection.
2. Collect specimen before administration of next dose.
3. Centrifuge and aliquot within 2 hours of collection.
Effective November 1, 2019, Mayo Medical Laboratory per Quest Diagnostic Nichols Institute SJC will be adjusting their fees for the following tests.

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Test Name</th>
<th>Current Fee</th>
<th>New Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMLR</td>
<td>Filaria IgG4 Antibody, ELISA</td>
<td>$133.25</td>
<td>$137.20</td>
</tr>
<tr>
<td>MMLR</td>
<td>Cysticercus Antibody, ELISA (CSF)</td>
<td>$335.00</td>
<td>$344.00</td>
</tr>
<tr>
<td>HST24</td>
<td>Histamine, Urine</td>
<td>$167.41</td>
<td>$171.38</td>
</tr>
<tr>
<td>FSLA</td>
<td>Soluble Liver Antigen (SLA) Autoantibody</td>
<td>$87.97</td>
<td>$89.55</td>
</tr>
</tbody>
</table>