Technical Update • February 2012

Cleveland Clinic Laboratories is dedicated to keeping you updated and informed about recent testing changes. That’s why we are happy to provide this technical update on a monthly basis.

Recently changed tests are bolded, and could include revisions to methodology, reference range, days performed or CPT code. For your convenience, tests are listed alphabetically and the order and billing codes are provided.

If you wish to compare the new information with previous test demographics, refer to the Test Directory, which can be accessed at clevelandcliniclabs.com.

Deleted tests and new tests are listed separately. Please update your database as necessary. For additional detail, contact Client Services at 216.444.5755 or 800.628.6816 or via email at clientservices@ccf.org.
<table>
<thead>
<tr>
<th>Test Update Page #</th>
<th>Summary of Changes by Test Name</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Name Code</td>
</tr>
<tr>
<td>6</td>
<td>CMV Genotype</td>
</tr>
<tr>
<td>6</td>
<td>Cortisol, Saliva</td>
</tr>
<tr>
<td>6</td>
<td>Cyclic AMP, Nephrogenous</td>
</tr>
<tr>
<td>6</td>
<td>Cystic Fibrosis (ACOG Panel)</td>
</tr>
<tr>
<td>6</td>
<td>Cyto P450 2C19 Genotype</td>
</tr>
<tr>
<td>6</td>
<td>Cyto P450 2C19 Genotype for Clopidogrel Therapy</td>
</tr>
<tr>
<td>6</td>
<td>Cyto P450 2D6 Genotype</td>
</tr>
<tr>
<td>6</td>
<td>Diazepam &amp; Metabolite</td>
</tr>
<tr>
<td>7</td>
<td>Digitoxin</td>
</tr>
<tr>
<td>7</td>
<td>Dihydrotestosterone</td>
</tr>
<tr>
<td>7</td>
<td>Disopyramide (Norpace)</td>
</tr>
<tr>
<td>7</td>
<td>DNA Fingerprinting</td>
</tr>
<tr>
<td>7</td>
<td>Ethylene Glycol</td>
</tr>
<tr>
<td>7</td>
<td>Factor V Leiden</td>
</tr>
<tr>
<td>7</td>
<td>Fentanyl, Urine by LC-MS/MS</td>
</tr>
<tr>
<td>7</td>
<td>Gabapentin</td>
</tr>
<tr>
<td>7</td>
<td>Haloperidol</td>
</tr>
<tr>
<td>7</td>
<td>Hepatitis Acute Panel/RNA</td>
</tr>
<tr>
<td>7</td>
<td>Herpesvirus 6 PCR, Quant</td>
</tr>
<tr>
<td>8</td>
<td>Herpesvirus 7 PCR, Quant</td>
</tr>
<tr>
<td>8</td>
<td>HFE (Hemochromatosis)</td>
</tr>
<tr>
<td>8</td>
<td>High Resolution Respirometry, Fibroblasts</td>
</tr>
<tr>
<td>8</td>
<td>Histamine, Urine</td>
</tr>
<tr>
<td>8</td>
<td>Histoplasma Antigen</td>
</tr>
<tr>
<td>8</td>
<td>Histoplasma capsulatum Antigen</td>
</tr>
<tr>
<td>8-9</td>
<td>Humoral Immune Panel</td>
</tr>
<tr>
<td>13</td>
<td>Hydrocodone (Hycodan) Serum</td>
</tr>
<tr>
<td>10</td>
<td>Ibuprofen</td>
</tr>
<tr>
<td>10</td>
<td>IgG Subclasses</td>
</tr>
<tr>
<td>10</td>
<td>IgG Subclasses 1, 2, 3, 4</td>
</tr>
<tr>
<td>10</td>
<td>Immunoglobulin Heavy Chain Using Biomed-2 PCR Primers</td>
</tr>
<tr>
<td>10</td>
<td>Immunoglobulin Kappa Chain Using Biomed-2 PCR Primers</td>
</tr>
<tr>
<td>10</td>
<td>JAK2 V617F Mutation Analysis</td>
</tr>
<tr>
<td>10</td>
<td>KRAS Exon 1 Sequence Analysis</td>
</tr>
<tr>
<td>10</td>
<td>Lamellar Body Count</td>
</tr>
<tr>
<td>10</td>
<td>Librium &amp; Metabolite</td>
</tr>
<tr>
<td>10</td>
<td>Limulus Amebocyte Lysate</td>
</tr>
<tr>
<td>10</td>
<td>Lorazepam</td>
</tr>
<tr>
<td>10</td>
<td>MDMA, Blood</td>
</tr>
<tr>
<td>10</td>
<td>Mercaptopurine</td>
</tr>
<tr>
<td>10</td>
<td>Methyldopa/Normethyldopa</td>
</tr>
<tr>
<td>10</td>
<td>Methylmalonic Acid, Urine</td>
</tr>
<tr>
<td>10</td>
<td>Mexiletine</td>
</tr>
<tr>
<td>13</td>
<td>MRL Motor/Sensory Evaluation</td>
</tr>
<tr>
<td>10</td>
<td>MTHFR by PCR</td>
</tr>
<tr>
<td>10</td>
<td>Multifocal Neuropathy Evaluation</td>
</tr>
<tr>
<td>Test Update Page #</td>
<td>Summary of Changes by Test Name</td>
</tr>
<tr>
<td>-------------------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td></td>
<td>Mycoplasma Culture, non urogenital</td>
</tr>
<tr>
<td>11</td>
<td>NMP22 Bladder Tumor Marker</td>
</tr>
<tr>
<td>11</td>
<td>Nucleophosmin Gene (NPM1) Mutation</td>
</tr>
<tr>
<td>11</td>
<td>Pancreatic Elastase, Fecal</td>
</tr>
<tr>
<td>11</td>
<td>PLA 1/2 by PCR</td>
</tr>
<tr>
<td>11</td>
<td>PML/RARA RTPCR</td>
</tr>
<tr>
<td>11</td>
<td>Pneumococcal IgG Antibodies</td>
</tr>
<tr>
<td>11</td>
<td>Propafenone</td>
</tr>
<tr>
<td>11</td>
<td>Protein Electrophoresis, CSF</td>
</tr>
<tr>
<td>11</td>
<td>Prothrombin Gene Mutation</td>
</tr>
<tr>
<td>11</td>
<td>Protriptyline</td>
</tr>
<tr>
<td>11</td>
<td>Pseudocholinesterase</td>
</tr>
<tr>
<td>11</td>
<td>Rheumatoid Factor IgM, IgG, &amp; IgA</td>
</tr>
<tr>
<td>11</td>
<td>SGPG Antibody, IgM</td>
</tr>
<tr>
<td>11</td>
<td>Succinyladenosine, CSF</td>
</tr>
<tr>
<td>11</td>
<td>Sulphonamides</td>
</tr>
<tr>
<td>12</td>
<td>Tay-Sachs (Hexosaminidase)</td>
</tr>
<tr>
<td>12</td>
<td>T-Cell Clonality Using Biomed-2 PCR Primers</td>
</tr>
<tr>
<td>12</td>
<td>T-Cell Receptor Beta Biomed-2 PCR Primers</td>
</tr>
<tr>
<td>12</td>
<td>TCR-G (PCR)</td>
</tr>
<tr>
<td>12</td>
<td>Thyroxine Binding Globulin</td>
</tr>
<tr>
<td>12</td>
<td>Trazodone</td>
</tr>
<tr>
<td>12</td>
<td>Tricyclic Antidepressant ID</td>
</tr>
<tr>
<td>12</td>
<td>Trypsinogen</td>
</tr>
<tr>
<td>13</td>
<td>Vascular Disease Panel</td>
</tr>
<tr>
<td>12</td>
<td>Warfarin Sensitivity Genotyping</td>
</tr>
<tr>
<td>13</td>
<td>Whole Genome SNP Microarray</td>
</tr>
</tbody>
</table>
### Test Changes

<table>
<thead>
<tr>
<th>Test Name</th>
<th>Order Code</th>
<th>Billing Code</th>
<th>Change</th>
<th>Effective Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acylcarnitine</td>
<td>ACYLPL</td>
<td>87890</td>
<td>Special Information: This test is to be used ONLY for patients greater than one year of age.</td>
<td>2/28/2012</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Order Code: Previously ACYLX</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Includes: Free L-Carnitine, Total L-Carnitine, Free/Total Carnitine Ratio, Acetylcaritnine, Propionylcaritnine, Iso/Butyrylcarnitnine, Isovaleryl/2-Methylbutyryl/Valerylcaritnine, Tigliycarnitnine, Hexanoylcarnitnine, Octanoylcarnitnine, Decenoylcaritnine, Decanoylcaritnine, Glutarylcaritnine, Dodecanoylcaritnine, Dodecanoylcaritnine, Hydroxy-Dodecanoylcaritnine, 3-Hydroxy-Dodecanoylcaritnine, Tetradecadienoylcaritnine, Tetradecanoylcaritnine, 3-Hydroxy-Tetradecanoylcaritnine, 3-Hydroxy-Tetradecanoylcaritnine, Hexadecanoylcaritnine, Hexadecanoylcaritnine, Hydroxy-Hexadecanoylcaritnine, Hydroxy-Hexadecanoylcaritnine, Linoleylcaritnine, Oleoylcaritnine, Stearoylcaritnine, 3-Hydroxy-Linoleoylcaritnine, 3-Hydroxy-Oleoylcaritnine, Succinylcaritnine, 3-Hydroxy-Butyryl/Isobutyrylcaritnine, 3-Hydroxy-Isovaleryl/Hydroxy-Methylbutyrylcaritnine</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Test build may need to be modified</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Specimen Requirement: 1 mL plasma from an EDTA lavender top tube; Indicate patient fasting hours when collected; Refrigerated</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Reference Range:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Free L-Carnitine: 20 - 51 µM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Total L-Carnitine: 28 - 66 µM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Free/Total Carnitine Ratio: 0.684 - 0.92</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acetylcaritnine: 3,020 - 15,780 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Propionylcaritnine: 145 - 686 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Iso/Butyrylcarnitnine: &lt; 279 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Isovaleryl/2-Methylbutyryl/Valerylcaritnine: &lt; 264 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Tigliycarnitnine: &lt; 9 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Hexanoylcarnitnine: &lt; 71 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Octanoylcaritnine: 19 - 274 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Decenoylcaritnine: &lt; 291 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Decanoylcaritnine: &lt; 189 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Glutarylcaritnine: &lt; 92 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Dodecanoylcaritnine: &lt; 42 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Dodecanoylcaritnine: &lt; 98 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Hydroxy-Dodecanoylcaritnine: &lt; 4 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3-Hydroxy-Dodecanoylcaritnine: &lt; 8 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Tetradecadienoylcaritnine: &lt; 57 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Tetradecanoylcaritnine: &lt; 102 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3-Hydroxy-Tetradecanoylcaritnine: &lt; 40 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3-Hydroxy-Tetradecanoylcaritnine: &lt; 10 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Hexadecanoylcaritnine: &lt; 21 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Hexadecanoylcaritnine: 39 - 163 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3-Hydroxy-Hexadecanoylcaritnine: &lt; 3 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3-Hydroxy-Hexadecanoylcaritnine: &lt; 7 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Linoleylcaritnine: &lt; 99 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Oleoylcaritnine: &lt; 150 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Stearoylcaritnine: &lt; 61 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3-Hydroxy-Linoleoylcaritnine: &lt; 1 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3-Hydroxy-Oleoylcaritnine: &lt; 2 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Succinylcaritnine: &lt; 61 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3-Hydroxy-Butyryl/Isobutyrylcaritnine: &lt; 37 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3-Hydroxy-Isovaleryl/Hydroxy-Methylbutyrylcaritnine: &lt; 34 nM</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Days Performed: one day per week</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Reported: 1 - 10 days</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>CPT: 82379, 82017, 80502</td>
<td></td>
</tr>
<tr>
<td>Adenosine Deaminase</td>
<td>ADEAM</td>
<td>80372</td>
<td>Clinical Information: Adenosine deaminase (ADA) is an endogenous tissue enzyme which is released into the serum in patients with many different types of malignancies and infections, including viral hepatitis, infectious mononucleosis, typhoid fever, and tuberculosis. It is the most useful single test in portal hypertension (ascites) associated with liver cirrhosis. In pleural fluid, elevated ADA levels are very commonly associated with tuberculosis, although increased ADA activity may be found in effusions due to a number of causes, including TB, bacterial infections, rheumatologic disease, and lymphoproliferative disorders. For Research Use Only</td>
<td>1/31/2012</td>
</tr>
<tr>
<td>Test Name</td>
<td>Order Code</td>
<td>Billing Code</td>
<td>Change</td>
<td>Effective Date</td>
</tr>
<tr>
<td>------------------------------</td>
<td>------------</td>
<td>--------------</td>
<td>-------------------------------------------------------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Adenovirus PCR, Quant</td>
<td>ADEQNT</td>
<td>84313</td>
<td><strong>Specimen Requirement:</strong> 2 mL plasma from an EDTA lavender top tube; Deliver to Cleveland Clinic Laboratories within 24 hours of collection; Ambient Clinical Information: Tissue specimens will be normalized to copies/1000 cells. Fecal specimens will be reported as Detected/Not Detected. Result range: 100 copies/mL to 100,000,000 copies/mL. Assay detects all 52 serotypes in one assay. No cross reactivity was detected when tested against BKV, CMV, EBV, HSV-1, HSV-2, HHV-6 variant A, HHV-6 variant B, HHV-7, HHV-8, JCV, parvovirus B19, SV-40, and VZV.</td>
<td>3/8/2012</td>
</tr>
<tr>
<td>Allergen, Casein IgG</td>
<td>CASING</td>
<td>83078</td>
<td><strong>Specimen Requirement:</strong> 0.5 mL serum from a serum separator tube; Refrigerated Methodology: Fluorescent Enzyme Immunoassay (FEIA) Days Performed: Monday - Friday Reported: 4 - 7 days</td>
<td>3/8/2012</td>
</tr>
<tr>
<td>Allergen, Cayenne Pepper</td>
<td>CAYENN</td>
<td>82951</td>
<td>Days Performed: Monday - Friday Reported: 3 - 7 days</td>
<td>3/1/2012</td>
</tr>
<tr>
<td>Allergen, Jalapeno Pepper</td>
<td>JLPENO</td>
<td>82957</td>
<td>Reference Range: &lt; 0.35 kU/L Days Performed: Monday - Friday Reported: 3 - 7 days</td>
<td>3/8/2012</td>
</tr>
<tr>
<td>Allergen, Wheat IgG</td>
<td>WHEATG</td>
<td>82963</td>
<td><strong>Methodology:</strong> Fluorescent Enzyme Immunoassay (FEIA) Days Performed: Monday - Friday Reported: 4 - 7 days</td>
<td>3/1/2012</td>
</tr>
<tr>
<td>Allergen, Whey IgG</td>
<td>WHEYG</td>
<td>83079</td>
<td><strong>Methodology:</strong> Fluorescent Enzyme Immunoassay (FEIA) Days Performed: Monday - Friday Reported: 4 - 7 days</td>
<td>3/8/2012</td>
</tr>
<tr>
<td>Anti IgE Receptor Antibody</td>
<td>ANTIE</td>
<td>84563</td>
<td><strong>Specimen Requirement:</strong> 1 mL serum from a red top tube; Remove serum from cells within one hour of collection; Do not use serum separator tubes; Frozen Days Performed: Monday, Thursday Reported: 1 - 3 weeks</td>
<td>3/1/2012</td>
</tr>
<tr>
<td>Antithrombin III Antigen</td>
<td>AT3AG</td>
<td>76561</td>
<td><strong>Specimen Requirement:</strong> 1 mL plasma from a sodium citrate light blue top tube; Overnight fasting is preferred; Frozen Methodology: Turbidometric Immunoassay (TUI) Days Performed: Tuesday, Thursday, Saturday Reported: 3 - 5 days</td>
<td>1/31/2012</td>
</tr>
<tr>
<td>Aspergillus galactomannan Antigen</td>
<td>ASGALC</td>
<td>82903</td>
<td>Clinical Information: Two or more consecutive positive results should be obtained from separately drawn specimens before the patient is considered to have a positive Aspergillus antigen test. False positive results can be caused by: Piperacillin-tazobactam, Plasmalyte or other fluids containing sodium gluconate, infection with <em>Penicillium, Alternaria, Fusarium Geotrichum, Paecilomyces, Histoplasma, Blastomyces</em>; or airway colonization with Aspergillus spp, <em>Penicillium, Alternaria</em>, and <em>Paecilomyces</em> in BAL specimens.</td>
<td>3/1/2012</td>
</tr>
<tr>
<td>B-Cell Clonality Using BIOMED-2 PCR Primers</td>
<td>BCBMD</td>
<td>87904</td>
<td>CPT: 81261, 81264, 83891, 83898x3, 83900, 83901x2, 83909x5, 83912</td>
<td>1/1/2012</td>
</tr>
<tr>
<td>BCL 2 mbr (PCR)</td>
<td>BCL2</td>
<td>81099</td>
<td>CPT: 81401, 83890, 83894, 83898, 83912</td>
<td>1/1/2012</td>
</tr>
<tr>
<td>BCR/ABL Kinase Domain Mutation Analysis</td>
<td>KINASE</td>
<td>84529</td>
<td>CPT: 81403, 83891, 83898, 83902, 83904x4, 83909x2, 83912</td>
<td>1/1/2012</td>
</tr>
<tr>
<td>BCR/ABL p210 RT-PCR Quantitative</td>
<td>BCRPCR</td>
<td>82737</td>
<td>CPT: 81206, 83891, 83895x4, 83898x4, 83902, 83912</td>
<td>1/1/2012</td>
</tr>
<tr>
<td>BCR/ABL p190 RT-PCR, Qualitative</td>
<td>190BCR</td>
<td>87709</td>
<td>CPT: 81270, 83891, 83896x4, 83898x4, 83902, 83912</td>
<td>1/1/2012</td>
</tr>
<tr>
<td>BRAF V600E Sequencing</td>
<td>BRAF</td>
<td>87800</td>
<td>CPT: 81210, 83891, 83894, 83898x4, 83909x2, 83912, 83881</td>
<td>1/1/2012</td>
</tr>
<tr>
<td>Bromide</td>
<td>BROMID</td>
<td>82290</td>
<td>Specimen Requirement: 1 mL serum from a red top tube; Remove serum from cells within two hours of collection; Do not use serum separator tubes; Refrigerated</td>
<td>2/21/2012</td>
</tr>
<tr>
<td>Cadmium Blood</td>
<td>CADM</td>
<td>82301</td>
<td>Order code: Previously CADB</td>
<td>2/23/2012</td>
</tr>
<tr>
<td>Calprotectin, Fecal</td>
<td>CALPRO</td>
<td>88413</td>
<td><strong>Specimen Requirement:</strong> 5 grams of stool from a random collection in a clean container with no preservatives; Refrigerated</td>
<td>2/21/2012</td>
</tr>
<tr>
<td>Test Name</td>
<td>Order Code</td>
<td>Billing Code</td>
<td>Change</td>
<td>Effective Date</td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>------------</td>
<td>--------------</td>
<td>------------------------------------------------------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Carnitine, Free and Total, Plasma</td>
<td>CARNPL</td>
<td>79814</td>
<td>Order Code: Previously CARNP1 Special Information: This test is to be used ONLY for patients greater than one year of age Includes: Free L-Carnitine, Total L-Carnitine, Free/Total Carnitine Ratio Test build may need to be modified Specimen Requirement: 1 mL plasma from an EDTA lavender top tube; Indicate patient fasting hours when collected; Refrigerated Reference Range: Free L-Carnitine: 20 - 51 µM Total L-Carnitine: 28 - 66 µM Free/Total Carnitine Ratio: 0.684 - 0.92 Days Performed: One day per week Reported: 1 - 10 days CPT: 82379, 80500</td>
<td>2/28/2012</td>
</tr>
<tr>
<td>Chloramphenicol</td>
<td>CLORAM</td>
<td>76115</td>
<td>Specimen Requirement: 1 mL serum from a red top tube; Do not use serum separator tubes; Remove serum from cells within 2 hours of collection; Refrigerated Days Performed: Sunday - Saturday Reported: 2 - 7 days</td>
<td>2/21/2012</td>
</tr>
<tr>
<td>Chronic Urticaria Index</td>
<td>CUINDX</td>
<td>88106</td>
<td>Clinical Information: Patients with a CU Index greater than or equal to 10 have basophil reactive factors in their serum which supports an autoimmune basis for disease. A positive result does not indicate which autoantibody (anti-IgE, anti-FceRI, or anti-FceRII) is present. Assay range is 1 - 50. Specimen Requirement: 1 mL serum from a serum separator tube; Patients taking calcineurin inhibitors should stop medication 72 hours prior to draw. Patients taking prednisone should be off their medication for 2 weeks prior to draw; Frozen Days Performed: Monday, Wednesday, Friday Reported: 3 - 5 days</td>
<td>3/1/2012</td>
</tr>
<tr>
<td>Clorazepate</td>
<td>TRANX</td>
<td>75464</td>
<td>Specimen Requirement: 1 mL serum from a red top tube; Do not use serum separator tubes; Remove serum from cells within 2 hours of collection; Refrigerated Days Performed: Sunday - Saturday Reported: 2 - 5 days</td>
<td>2/21/2012</td>
</tr>
<tr>
<td>Clozapine</td>
<td>CLOZ</td>
<td>87714</td>
<td>Days Performed: Sunday - Saturday Reported: 2 - 4 days</td>
<td>2/21/2012</td>
</tr>
<tr>
<td>CMV Detection CSF/FLD by PCR</td>
<td>CMVCSF</td>
<td>79779</td>
<td>Specimen Requirement: 0.5 mL cerebrospinal fluid in a sterile container; Refrigerated</td>
<td>2/23/2012</td>
</tr>
<tr>
<td>CMV Genotype</td>
<td>CMVGEN</td>
<td>84053</td>
<td>Specimen Requirement: 2 mL plasma from an EDTA lavender top tube; Deliver to Cleveland Clinic Laboratories within 24 hours of collection; Ambient</td>
<td>3/8/2012</td>
</tr>
<tr>
<td>Cortisol, Saliva</td>
<td>SCORT</td>
<td>82629</td>
<td>Days Performed: Monday, Wednesday, Friday Reported: 3 - 5 days</td>
<td>3/1/2012</td>
</tr>
<tr>
<td>Cyclic AMP, Nephrogenous</td>
<td>CYCNEP</td>
<td>81998</td>
<td>Reference Range: Nephrogenous cAMP: 0.34 - 2.70 nmol/dL Cyclic AMP Urine: Refer to report Cyclic AMP Plasma: 15 - 43 pmol/mL Creatinine Serum/Plasma: Refer to report Days Performed: Sunday Reported: 3 - 11 days</td>
<td>2/21/2012</td>
</tr>
<tr>
<td>Cystic Fibrosis (ACOG Panel)</td>
<td>CFSCRN</td>
<td>82502</td>
<td>CPT: 81220, 83891, 83900, 83901x30, 83909, 83912, 83914x32</td>
<td>1/1/2012</td>
</tr>
<tr>
<td>Cyto P450 2C19 Genotype</td>
<td>2C19PL</td>
<td>88307</td>
<td>CPT: 81225, 83891, 83900, 83901x4, 83912, 83914x18</td>
<td>1/1/2012</td>
</tr>
<tr>
<td>Cyto P450 2C19 Genotype for Clopidogrel Therapy</td>
<td>2C19CL</td>
<td>88362</td>
<td>CPT: 81225, 83891, 83900, 83901, 83912, 83914x6</td>
<td>1/1/2012</td>
</tr>
<tr>
<td>Cyto P450 2D6 Genotype</td>
<td>2D6</td>
<td>87628</td>
<td>CPT: 81226, 83891, 83900, 83901x2, 83912, 83914x30</td>
<td>1/1/2012</td>
</tr>
<tr>
<td>Diazepam &amp; Metabolite</td>
<td>DIAZEP</td>
<td>75420</td>
<td>Specimen Requirement: 1 mL serum from a red top tube; Do not use serum separator tubes; Remove serum from cells within 2 hours of collection; Refrigerated</td>
<td>2/21/2012</td>
</tr>
<tr>
<td>Test Name</td>
<td>Order Code</td>
<td>Billing Code</td>
<td>Change</td>
<td>Effective Date</td>
</tr>
<tr>
<td>---------------------------</td>
<td>------------</td>
<td>--------------</td>
<td>------------------------------------------------------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Digitoxin</td>
<td>DIGIT</td>
<td>82640</td>
<td>Specimen Requirement: 1 mL serum from a red top tube; Do not use serum separator tubes. Remove serum from cells within 2 hours of collection; Refrigerated</td>
<td>2/21/2012</td>
</tr>
<tr>
<td>Dihydrotestosterone</td>
<td>DHT</td>
<td>75667</td>
<td>Specimen Requirement: 1 mL serum from a red top tube; Specimen should be collected between 6 am and 10 am; Remove serum from cells within 2 hours of collection; Frozen</td>
<td>2/21/2012</td>
</tr>
<tr>
<td>Dihydrotestosterone</td>
<td>DHT</td>
<td>75667</td>
<td>Reference Range: Male: Premature: 100.0 - 530.0 pg/mL Male: Full Term: 50.0 - 600.0 pg/mL Male: 7 months - 9 Years: 0.0 - 49.3 pg/mL Male: 10 - 19 Years: 0.0 - 533.0 pg/mL Male: 20 - 99 Years: 106.0 - 719.0 pg/mL Female: Premature: 20.0 - 130.0 pg/mL Female: Full Term: 20.0 - 150.0 pg/mL Female: 1 week - 9 Years: 0.0 - 49.9 pg/mL Female: 10 - 19 Years: 50.0 - 170.0 pg/mL Female: 20 - 99 Years: 24.0 - 208.0 pg/mL Days Performed: Sunday - Saturday Reported: 2 - 5 days</td>
<td>2/21/2012</td>
</tr>
<tr>
<td>Disopyramide (Norpace)</td>
<td>DISO</td>
<td>34032</td>
<td>Specimen Requirement: 1 mL serum from a red top tube; Do not use serum separator tubes; Remove serum from cells within 2 hours of collection; Refrigerated Days Performed: Sunday - Saturday Reported: 2 - 3 days</td>
<td>2/21/2012</td>
</tr>
<tr>
<td>DNA Fingerprinting</td>
<td>n/a</td>
<td>83305</td>
<td>CPT: 81265, 83891x2, 83894x2, 83900, 83912</td>
<td>1/26/2012</td>
</tr>
<tr>
<td>Ethylene Glycol</td>
<td>ETHYL</td>
<td>77043</td>
<td>Specimen Requirement: 2 mL serum from a red top tube; Do not use serum separator tubes; Remove serum from cells within 2 hours of collection; Refrigerated Methodology: Quantitative Enzymatic</td>
<td>2/21/2012</td>
</tr>
<tr>
<td>Factor V Leiden</td>
<td>FVLEID</td>
<td>79827</td>
<td>CPT: 81241, 83891, 83896x2, 83898, 83903, 83912</td>
<td>1/1/2012</td>
</tr>
<tr>
<td>Fentanyl, Urine</td>
<td>UFENT</td>
<td>82344</td>
<td>Order Code: Previously UFENYL Components: Fentanyl, Norfentanyl Test build may need to be modified</td>
<td>2/21/2012</td>
</tr>
<tr>
<td>Free Cortisol, Urine by LC-MS/MS</td>
<td>UFRCRT</td>
<td>83260</td>
<td>Reference Range: 3 - 8 Years: &lt; 18 ug/d 9 - 12 Years: &lt; 37 ug/d 13 - 17 Years: &lt; 56 ug/d Female, Age: 18 - 99 Years: &lt; 45 ug/d Male, Age: 18 - 99 Years: &lt; 60 ug/d Prepubertal: &lt;25 ug/g crt Female Pregnancy: &lt;59 ug/g crt Female, Age: 18 - 99 Years: &lt; 24 ug/g crt Male, Age: 18 - 99 Years: &lt; 32 ug/g crt</td>
<td>2/21/2012</td>
</tr>
<tr>
<td>Gabapentin</td>
<td>GABA</td>
<td>79153</td>
<td>Specimen Requirement: 1 mL serum from a red top tube; Do not use serum separator tubes; Remove serum from cells within 2 hours of collection; Refrigerated Days Performed: Sunday - Saturday Reported: 2 - 4 days</td>
<td>2/21/2012</td>
</tr>
<tr>
<td>Haloperidol</td>
<td>HALOP</td>
<td>75499</td>
<td>Specimen Requirement: 1 mL serum from a red top tube; Do not use serum separator tubes; Remove serum from cells within 2 hours of collection; Refrigerated</td>
<td>2/21/2012</td>
</tr>
<tr>
<td>Hepatitis Acute Panel/RNA</td>
<td>HACRNA</td>
<td>82617</td>
<td>CPT: 86705, 86709, 87340, 87522</td>
<td>1/6/2012</td>
</tr>
<tr>
<td>Herpesvirus 6 PCR, Quant</td>
<td>HV6QNT</td>
<td>84312</td>
<td>Special Information: Fecal specimens will be reported as Detected/Not Detected. Tissue specimens will be normalized to copies/1000 cells. Result range: 100 copies/mL to 100,000,000 copies/mL. Detects both Type A and Type B in one assay. No cross reactivity was detected when tested against BKV, CMV, EBV, HSV-1, HSV-2, HHV-7, HHV-8, JCV, parvovirus B19, SV-40, and VZV. Specimen Requirement: 2 mL plasma from an EDTA lavender top tube; Deliver to Cleveland Clinic Laboratories within 24 hours of collection; Ambient</td>
<td>3/8/2012</td>
</tr>
<tr>
<td>Test Name</td>
<td>Order Code</td>
<td>Billing Code</td>
<td>Change</td>
<td>Effective Date</td>
</tr>
<tr>
<td>---------------------------</td>
<td>------------</td>
<td>--------------</td>
<td>------------------------------------------------------------------------</td>
<td>----------------</td>
</tr>
</tbody>
</table>
| Herpesvirus 7 PCR, Quant  | HV7QNT     | 84311        | Special Information: Fecal specimens will be reported as Detected/Not Detected. 
Tissue specimens will be normalized to copies/1000 cells. Result range: 100 copies/mL to 100,000,000 copies/mL. No cross reactivity was detected when tested against BKV, CMV, EBV, HSV-1, HSV-2, HHV-6 variant A, HHV-6 variant B, HHV-8, JCV, parvovirus B19, SV-40, and VZV. 
Specimen Requirement: 2 mL serum from a red top tube; Deliver to Cleveland Clinic Laboratories within 24 hours of collection; Ambient | 3/8/2012 |
| HFE (Hemochromatosis)     | HFE        | 79903        | Special Information: Fecal specimens will be reported as Detected/Not Detected. 
Specimen Requirement: 2 mL serum from a red top tube; Deliver to Cleveland Clinic Laboratories within 24 hours of collection; Ambient | 1/1/2012 |
| Histamine, Urine          | UHISTA     | 76120        | Special Information: If a 24 hour urine is submitted, the excretion will be calculated. If a random urine is submitted, the result will be reported as 'Not Applicable' 
Includes: Creatinine, mg/dL 
Histamine, nmol/L 
Histamine, nmol/g creat 
Histamine, Excretion µg/day 
Test build may need to be modified 
Reference Range: Creatinine: Refer to Report 
Histamine/volume (nmol/L): Not determined 
Histamine: 0 - 450 nmol/g creat 
Histamine Excretion: 0 - 60 µg/day | 3/8/2012 |
| Histoplasma Antigen       | UHISTO     | 79421        | Reference Range: None Detected | 3/1/2012 |
| Histoplasma capsulatum Antigen | SHISTO | 83008        | Reference Range: None Detected | 3/1/2012 |
| Humoral Immune Panel      | HUMORL     | 76976        | Order code: Previously HUMOR 
Includes: 
Diphtheria Toxoid IgG Ab, Tetanus Toxoid IgG Ab, 
IgM Serum, IgA Serum, IgE Serum, IgG Total, 
IgG Subclass 1, IgG Subclass 2, IgG Subclass 3, IgG Subclass 4, 
Streptococcus pneumoniae Type 1 Abs, 
Streptococcus pneumoniae Type 3 Abs, 
Streptococcus pneumoniae Type 4 Abs, 
Streptococcus pneumoniae Type 6B Abs, 
Streptococcus pneumoniae Type 7F Abs, 
Streptococcus pneumoniae Type 8 Abs, 
Streptococcus pneumoniae Type 9N Abs, 
Streptococcus pneumoniae Type 9V Abs, 
Streptococcus pneumoniae Type 12F Abs, 
Streptococcus pneumoniae Type 14 Abs, 
Streptococcus pneumoniae Type 18C Abs, 
Streptococcus pneumoniae Type 19A Abs, 
Streptococcus pneumoniae Type 19F Abs, 
Streptococcus pneumoniae Type 23F Abs 
Specimen Requirement: PLEASE COLLECT TWO SERUM SEPARATOR TUBES: 3 mL serum from a serum separator tube *AND* 2 mL serum from a separator tube: Both Refrigerated 
Methodology: Nephelometry, Fluorescence Immunoassay by ImmunoCAP Multiplex, Enzyme Immunoassay (EIA) 
Reference Range: 
Diphtheria Toxoid IgG Ab: >0.099 IU/mL 
Tetanus Toxoid IgG Ab: > 0.15 IU/mL 
IgM Serum: 
0 - 6 Months: 33 - 97 mg/dL 
6 - 9 Months: 32 - 120 mg/dL 
9 - 12 Months: 39 - 142 mg/dL 
1 - 2 Years: 41 - 164 mg/dL 
2 - 3 Years: 46 - 120 mg/dL 
3 - 4 Years: 45 - 190 mg/dL 
4 - 5 Years: 41 - 186 mg/dL 
5 - 8 Years: 46 - 197 mg/dL 
8 - 10 Years: 49 - 230 mg/dL 
10 - 99 Years: 53 - 334 mg/dL 
IgA Serum: 
0 - 6 Months: 8 - 67 mg/dL 
6 - 9 Months: 11 - 89 mg/dL 
9 - 12 Months: 16 - 83 mg/dL 
1 - 2 Years: 14 - 105 mg/dL 
2 - 3 Years: 14 - 122 mg/dL 
3 - 4 Years: 22 - 157 mg/dL 
4 - 5 Years: 25 - 152 mg/dL 
5 - 8 Years: 33 - 200 mg/dL 
8 - 10 Years: 45 - 234 mg/dL 
10 - 99 Years: 78 - 391 mg/dL | 2/28/2012 |
<table>
<thead>
<tr>
<th>Test Name</th>
<th>Order Code</th>
<th>Billing Code</th>
<th>Change</th>
<th>Effective Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humoral Immune Panel (continued from previous page)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IgE Serum:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0 - 3 Months:</td>
<td>&lt;9 kU/L</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 - 6 Months:</td>
<td>&lt;17 kU/L</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 - 9 Months:</td>
<td>&lt;30 kU/L</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 - 12 Months:</td>
<td>&lt;39 kU/L</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 - 2 Years:</td>
<td>&lt;53 kU/L</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 - 3 Years:</td>
<td>&lt;93 kU/L</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 - 4 Years:</td>
<td>&lt;128 kU/L</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 - 5 Years:</td>
<td>&lt;160 kU/L</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 - 6 Years:</td>
<td>&lt;192 kU/L</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 - 7 Years:</td>
<td>&lt;224 kU/L</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 - 8 Years:</td>
<td>&lt;248 kU/L</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 - 9 Years:</td>
<td>&lt;280 kU/L</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 - 10 Years:</td>
<td>&lt;328 kU/L</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11 - 99 Years:</td>
<td>&lt;114 kU/L</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IgG Total:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0 - 6 Months:</td>
<td>206 - 676 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 - 9 Months:</td>
<td>208 - 868 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 - 12 Months:</td>
<td>282 - 1026 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 - 2 Years:</td>
<td>331 - 1164 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 - 3 Years:</td>
<td>407 - 1009 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 - 4 Years:</td>
<td>423 - 1090 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 - 5 Years:</td>
<td>444 - 1187 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 - 8 Years:</td>
<td>608 - 1229 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 - 10 Years:</td>
<td>584 - 1509 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 - 99 Years:</td>
<td>717 - 1411 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IgG Subclass 1:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0 - 2 Years:</td>
<td>194 - 842 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 - 4 Years:</td>
<td>315 - 945 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 - 6 Years:</td>
<td>306 - 945 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 - 8 Years:</td>
<td>228 - 918 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 - 10 Years:</td>
<td>432 - 1020 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 - 12 Years:</td>
<td>423 - 1060 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 - 14 Years:</td>
<td>342 - 1150 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14 - 18 Years:</td>
<td>315 - 855 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18 - 99 Years:</td>
<td>456 - 1110 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IgG Subclass 2:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0 - 2 Years:</td>
<td>22 - 300 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 - 4 Years:</td>
<td>36 - 225 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 - 6 Years:</td>
<td>60 - 345 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 - 8 Years:</td>
<td>44 - 375 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 - 10 Years:</td>
<td>72 - 430 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 - 12 Years:</td>
<td>76 - 355 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 - 14 Years:</td>
<td>100 - 455 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14 - 18 Years:</td>
<td>64 - 495 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18 - 99 Years:</td>
<td>125 - 630 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IgG Subclass 3:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0 - 2 Years:</td>
<td>19 - 85 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 - 4 Years:</td>
<td>17 - 68 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 - 6 Years:</td>
<td>10 - 122 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 - 8 Years:</td>
<td>15 - 85 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 - 10 Years:</td>
<td>13 - 85 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 - 12 Years:</td>
<td>17 - 173 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 - 14 Years:</td>
<td>28 - 125 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14 - 18 Years:</td>
<td>23 - 196 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18 - 99 Years:</td>
<td>25 - 113 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IgG Subclass 4:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0 - 2 Years:</td>
<td>1 - 78 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 - 4 Years:</td>
<td>1 - 54 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 - 6 Years:</td>
<td>2 - 113 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 - 8 Years:</td>
<td>1 - 99 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 - 10 Years:</td>
<td>2 - 93 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 - 12 Years:</td>
<td>2 - 115 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 - 14 Years:</td>
<td>4 - 136 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14 - 18 Years:</td>
<td>11 - 157 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18 - 99 Years:</td>
<td>11 - 112 mg/dL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Streptococcus pneumoniae Type 1 Abs:</td>
<td>Not Established</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Streptococcus pneumoniae Type 3 Abs:</td>
<td>Not Established</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Streptococcus pneumoniae Type 4 Abs:</td>
<td>Not Established</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Streptococcus pneumoniae Type 6B Abs:</td>
<td>Not Established</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Streptococcus pneumoniae Type 7F Abs:</td>
<td>Not Established</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Streptococcus pneumoniae Type 8 Abs:</td>
<td>Not Established</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Streptococcus pneumoniae Type 9N Abs:</td>
<td>Not Established</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Streptococcus pneumoniae Type 9V Abs:</td>
<td>Not Established</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Streptococcus pneumoniae Type 12F Abs:</td>
<td>Not Established</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Streptococcus pneumoniae Type 14 Abs:</td>
<td>Not Established</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Streptococcus pneumoniae Type 18C Abs:</td>
<td>Not Established</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Streptococcus pneumoniae Type 19A Abs:</td>
<td>Not Established</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Streptococcus pneumoniae Type 19F Abs:</td>
<td>Not Established</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Streptococcus pneumoniae Type 23F Abs:</td>
<td>Not Established</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Days Performed: Varies
Reported: 2 - 5 days
## Test Changes (cont.)

<table>
<thead>
<tr>
<th>Test Name</th>
<th>Order Code</th>
<th>Billing Code</th>
<th>Change</th>
<th>Effective Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ibuprofen</td>
<td>IBUPRO</td>
<td>77106</td>
<td>Specimen Requirement: 1 mL serum from a red top tube; Do not use serum separator tubes; Remove serum from cells within two hours of collection; Refrigerated</td>
<td>2/21/2012</td>
</tr>
<tr>
<td>IgG Subclasses</td>
<td>IGGSUB</td>
<td>75776</td>
<td>Methodology: Indirect Fluorescent Antibody (IFA)</td>
<td>2/28/2012</td>
</tr>
<tr>
<td>IgG Subclasses 1, 2, 3, 4</td>
<td>IG1234</td>
<td>82141</td>
<td>Methodology: Indirect Fluorescent Antibody (IFA)</td>
<td>2/28/2012</td>
</tr>
<tr>
<td>Immunoglobulin Heavy Chain Using Biomed-2 PCR Primers</td>
<td>IGHPCR</td>
<td>87960</td>
<td>CPT: 81261, 83891, 83898x3, 83909x3, 83912</td>
<td>1/1/2012</td>
</tr>
<tr>
<td>Immunoglobulin Kappa Chain Using Biomed-2 PCR Primers</td>
<td>IGKPCR</td>
<td>87954</td>
<td>CPT: 81264, 83891, 83900, 83901x4, 83909x2, 83912</td>
<td>1/1/2012</td>
</tr>
<tr>
<td>JAK2 V617F Mutation Detection</td>
<td>JAK2</td>
<td>83623</td>
<td>CPT: 81270, 83891, 83896x4, 83898x2, 83912</td>
<td>1/1/2012</td>
</tr>
<tr>
<td>KRAS exon 1 Sequence Analysis</td>
<td>KRAS</td>
<td>83968</td>
<td>CPT: 81275, 83894, 83898, 83904x2, 83907, 83909x2, 83912</td>
<td>1/1/2012</td>
</tr>
<tr>
<td>Lamellar Body Count</td>
<td>LMBDCT</td>
<td>77073</td>
<td>Reference Range: &gt;39,999 uL</td>
<td>2/7/2012</td>
</tr>
<tr>
<td>Librium &amp; Metabolite</td>
<td>LIBRI</td>
<td>77069</td>
<td>Specimen Requirement: 1 mL serum from a red top tube; Protect specimen from light; Do not use serum separator tubes; Remove serum from cells within two hours of collection; Frozen</td>
<td>2/21/2012</td>
</tr>
<tr>
<td>Limulus Amebocyte Lysate</td>
<td>LALYS</td>
<td>77075</td>
<td>Special Information: Test performed on reagents and drugs only. Method is not to be used for blood or body fluids. Do not use glass vials. Provide name of aqueous solution, the diluent, if applicable, and the USP endotoxin limit. If required, additional dilutions will be performed at an extra cost. Days Performed: Varies Reported: 2 - 5 days</td>
<td>2/9/2012</td>
</tr>
<tr>
<td>Lorazepam</td>
<td>LORAZE</td>
<td>76671</td>
<td>Specimen Requirement: 1 mL serum from a red top tube; Do not use serum separator tubes; Remove serum from cells within two hours of collection; Refrigerated</td>
<td>2/21/2012</td>
</tr>
<tr>
<td>MDMA, Blood</td>
<td>MDMA BL</td>
<td>82112</td>
<td>Specimen Requirement: 3 mL serum from a red top tube; Refrigerated</td>
<td>3/8/2012</td>
</tr>
<tr>
<td>Mercaptopurine</td>
<td>MERCAP</td>
<td>83754</td>
<td>Reference Range: &lt;1000 ng/mL</td>
<td>3/8/2012</td>
</tr>
<tr>
<td>Methsuximide/Normethsuximide</td>
<td>METHSU</td>
<td>83627</td>
<td>Specimen Requirement: 1 mL serum from a red top tube; Do not use serum separator tubes; Remove serum from cells within two hours of collection; Refrigerated</td>
<td>2/21/2012</td>
</tr>
<tr>
<td>Methylmalonic Acid, Urine</td>
<td>UMMA</td>
<td>80391</td>
<td>Days Performed: Sunday - Saturday Reported: 2 - 4 days</td>
<td>2/21/2012</td>
</tr>
<tr>
<td>Mexiletine</td>
<td>MEXIL</td>
<td>75504</td>
<td>Specimen Requirement: 1 mL serum from a red top tube; Do not use serum separator tubes; Separate serum from cells within two hours of collection; Refrigerated</td>
<td>2/21/2012</td>
</tr>
<tr>
<td>MTHFR by PCR</td>
<td>MTHFR</td>
<td>81692</td>
<td>CPT: 81291, 83891, 83896x2, 83898, 83903, 83912</td>
<td>1/1/2012</td>
</tr>
<tr>
<td>Multifocal Neuropathy Evaluation</td>
<td>MULNEU</td>
<td>82185</td>
<td>Components: PMP22 Duplication/Deletion; Anti-GM-1; Anti-GD1a; Anti-asialo GM1; Anti-GD1b, <strong>NS6S Antibody</strong></td>
<td>3/1/2012</td>
</tr>
<tr>
<td><strong>Specimen Requirement:</strong> THIS ASSAY REQUIRES MULTIPLE SPECIMEN TYPES; 2 mL serum from a serum separator tube <em>AND</em> 10 mL whole blood in an EDTA lavender top tube; Collect Monday - Wednesday only; Send to Cleveland Clinic Laboratories on the day of collection at Ambient temperature</td>
<td></td>
<td>Reference Range: PMP22 Duplication/Deletion: No duplication/deletion anti-GM1 Antibody: ≤ 3200 anti-GD1a Antibody: ≤ 3200 anti-asialo GM1 Antibody: ≤ 6400 anti-GD1b Antibody: ≤ 6400 NS6S Antibody: Positive Days Performed: Varies Reported: 22 - 23 days</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test Name</td>
<td>Order Code</td>
<td>Billing Code</td>
<td>Change</td>
<td>Effective Date</td>
</tr>
<tr>
<td>----------------------------------------</td>
<td>------------</td>
<td>-------------------</td>
<td>------------------------------------------------------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>NMP22 Bladder Tumor Marker</td>
<td>NMP22</td>
<td>79588</td>
<td>Clinical Information: The NMP22 test is intended as an aid in the management of patients with transitional cell carcinoma of the urinary tract (TCC/UT) and is used after surgical treatment to identify patients with residual or rapidly recurring TCC/UT. Testing with the Matritech NMP22 should not be performed on patients who have had a total cystectomy or within five days of an invasive procedure, such as cystoscopy or catheterization of the urethra. Values obtained with different assay methods should not be used interchangeably. This assay uses a kit which is an enzyme immunoassay (EIA) method. Specimen Requirement: 5 mL random urine in a Matritech container; Frozen</td>
<td>2/21/2012</td>
</tr>
<tr>
<td>Nucleophosmin Gene (NPM1) Mutation</td>
<td>NPM1</td>
<td>83919</td>
<td>CPT: 81310, 83898x2, 83909x2, 83912</td>
<td>1/1/2012</td>
</tr>
<tr>
<td>Pancreatic Elastase, Fecal</td>
<td>PANCEF</td>
<td>83044</td>
<td>Specimen Requirement: 5 grams of stool in a clean container; Freeze ASAP Reference Range: &gt; 200 µg/g</td>
<td>2/21/2012</td>
</tr>
<tr>
<td>PLA 1/2 by PCR</td>
<td>PLAPCR</td>
<td>81691</td>
<td>CPT: 81400, 83890, 83892, 83894, 83898, 83912</td>
<td>1/1/2012</td>
</tr>
<tr>
<td>PML/RARA RTPCR</td>
<td>APLPCR</td>
<td>82570</td>
<td>CPT: 81315, 83891, 83894, 83898x3, 83902, 83912</td>
<td>1/1/2012</td>
</tr>
<tr>
<td>Pneumococcal IgG Antibodies</td>
<td>PNEUMG</td>
<td>88283</td>
<td>Days Performed: Monday, Thursday Reported: 1 - 4 days</td>
<td>2/28/2012</td>
</tr>
<tr>
<td>Propafenone</td>
<td>PROPAF</td>
<td>76140</td>
<td>Specimen Requirement: 1 mL serum from a red top tube; Do not use serum separator tubes; Remove serum from cells within two hours of collection; Refrigerated Days Performed: Tuesday, Friday Reported: 2 - 5 days</td>
<td>2/21/2012</td>
</tr>
<tr>
<td>Protein Electrophoresis, CSF</td>
<td>CSFPE</td>
<td>84200</td>
<td>Reference Range: Pre-albumin: 2.4 - 9.6 % Albumin: 47.9 - 69.2 % Alpha-1 globulin: 3.1 - 6.5 % Alpha-2 globulin: 3.4 - 9.6 % Beta globulin: 10.6 - 25.7 % Gamma globulin: 3.5 - 8.6 %</td>
<td>2/1/2012</td>
</tr>
<tr>
<td>Prothrombin Gene Mutation</td>
<td>PTGENE</td>
<td>80095</td>
<td>CPT: 81240, 83891, 83896x2, 83898, 83903, 83912</td>
<td>1/1/2012</td>
</tr>
<tr>
<td>Protriptyline</td>
<td>PROTRI</td>
<td>84205</td>
<td>Specimen Requirement: 1 mL serum from a red top tube; Do not use serum separator tubes; Remove serum from cells within two hours of collection; Refrigerated Days Performed: Tuesday, Friday Reported: 2 - 4 days</td>
<td>2/21/2012</td>
</tr>
<tr>
<td>Pseudocholinesterase</td>
<td>PCHE</td>
<td>83480</td>
<td>Special Information: Plasma values are slightly lower than serum values. Specimens must be drawn prior to surgery or greater than two days following surgery. Do not draw in the recovery room. Specimen Requirement: 0.5 serum from a serum separator tube; Remove serum from cells within two hours of collection; Refrigerated Test build may need to be modified</td>
<td>2/21/2012</td>
</tr>
<tr>
<td>Rheumatoid Factor IgM, IgG, &amp; IgA</td>
<td>RHEUMA</td>
<td>84429</td>
<td>Specimen Requirement: 0.5 mL serum from a serum separator tube; Remove serum from cells within two hours of collection; Refrigerated Days Performed: Monday - Saturday Reported: 2 - 4 days</td>
<td>2/21/2012</td>
</tr>
<tr>
<td>SGPG Antibody, IgM</td>
<td>SGPG</td>
<td>87655</td>
<td>Days Performed: Thursday Reported: 2 - 9 days</td>
<td>2/21/2012</td>
</tr>
<tr>
<td>Succinyladinosine, CSF</td>
<td>CSUCCN</td>
<td>83812</td>
<td>CPT: 82491</td>
<td>2/9/2012</td>
</tr>
<tr>
<td>Sulfonamides</td>
<td>SULFA</td>
<td>84395</td>
<td>Specimen Requirement: 1 mL serum from a red top tube; Remove serum from cells within two hours of collection; Refrigerated Days Performed: Tuesday, Friday Reported: 2 - 6 days</td>
<td>2/21/2012</td>
</tr>
</tbody>
</table>
### Test Changes (cont.)

<table>
<thead>
<tr>
<th>Test Name</th>
<th>Order Code</th>
<th>Billing Code</th>
<th>Change</th>
<th>Effective Date</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tay-Sachs</strong> (Hexosaminidase)</td>
<td>HEX</td>
<td>76985</td>
<td><strong>Special Information:</strong> Used to screen for Tay-Sachs in the male and non-pregnant female. This test should only be used to investigate for the rare B-1 variant of Tay-Sachs Disease (TSD) which has an increased frequency in individuals with Portuguese ancestry. Follow-up testing using leukocytes is recommended for ambiguous results. <strong>Specimen Requirement:</strong> 1 mL serum from a serum separator tube; <strong>Patient should fast for 4 hours; Frozen</strong> <strong>Methodology:</strong> Fluorimetry (FLM) <strong>Reference Range:</strong> 1.23 - 2.59 U/L <strong>Days Performed:</strong> Tuesday <strong>Reported:</strong> 9 - 16 days</td>
<td>2/2/2012</td>
</tr>
<tr>
<td><strong>T-Cell Clonality Using Biomed-2 PCR Primers</strong></td>
<td>TCBMD</td>
<td>87903</td>
<td><strong>CPT:</strong> 81261, 81264, 83891, 83898, 83900, 83901x7, 83909x5, 83912</td>
<td>1/1/2012</td>
</tr>
<tr>
<td><strong>T-Cell Receptor Beta Biomed-2 PCR Primers</strong></td>
<td>TCRB</td>
<td>87965</td>
<td><strong>CPT:</strong> 81340, 83891, 83898, 83900, 83901x3, 83909x3, 83912</td>
<td>1/1/2012</td>
</tr>
<tr>
<td><strong>TCR-G (PCR)</strong></td>
<td>TGAMMA</td>
<td>81402</td>
<td><strong>CPT:</strong> 81342, 83891, 83900, 83901x4, 83909x2, 83912</td>
<td>1/1/2012</td>
</tr>
<tr>
<td><strong>Thyroxine Binding Globulin</strong></td>
<td>TBG</td>
<td>77586</td>
<td><strong>Specimen Requirement:</strong> 0.5 mL serum from a serum separator tube; Frozen</td>
<td>2/21/2012</td>
</tr>
<tr>
<td><strong>Trazodone</strong></td>
<td>DESRYL</td>
<td>75526</td>
<td><strong>Specimen Requirement:</strong> 1 mL serum from a red top tube; Do not use serum separator tubes; Remove serum from cells within two hours of collection; Refrigerated</td>
<td>2/21/2012</td>
</tr>
<tr>
<td><strong>Tricyclic Antidepressant ID</strong></td>
<td>TADID</td>
<td>79193</td>
<td><strong>Includes:</strong> Amitriptyline, Nortriptyline, Imipramine, Desipramine, Doxepin, Nortriptyline, Clomipramine, Norclomipramine, Protriptyline <strong>Specimen Requirement:</strong> 1 mL serum from a red top tube; Do not use serum separator tubes; Refrigerated <strong>Reference Range:</strong> Total Amitriptyline &amp; Nortriptyline: 95 - 250 ng/mL Total Imipramine &amp; Desipramine: 150 - 300 ng/mL Total Doxepin &amp; Nortriptyline: 100 - 300 ng/mL Total Clomipramine &amp; Norclomipramine: 220 - 500 ng/mL Protriptyline: 70 - 240 ng/mL Nortriptyline only: 50 - 150 ng/mL Desipramine only: 100 - 300 ng/mL</td>
<td>2/21/2012</td>
</tr>
<tr>
<td><strong>Trypsinogen</strong></td>
<td>TRYSI</td>
<td>79889</td>
<td><strong>Specimen Requirement:</strong> 1 mL serum from a serum separator tube; Allow to sit at room temperature for 15 - 20 minutes for proper clot formation. Then remove serum from cells within two hours of collection and freeze</td>
<td>2/21/2012</td>
</tr>
<tr>
<td><strong>Warfarin Sensitivity Genotyping</strong></td>
<td>WARSEN</td>
<td>88301</td>
<td><strong>CPT:</strong> 81227, 83891, 83900, 83901, 83912, 83914x6</td>
<td>1/1/2012</td>
</tr>
</tbody>
</table>

### New Tests

<table>
<thead>
<tr>
<th>Test Name</th>
<th>Order Code</th>
<th>Billing Code</th>
<th>Change</th>
<th>Effective Date</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>High Resolution Respirometry, Fibroblasts</strong></td>
<td>HIERES</td>
<td>88436</td>
<td><strong>Includes:</strong> Oxidative phosphorylation Maximum respiratory capacity Coupling of Complexes I, III, and IV (cytochrome c oxidase) to Complex V (ATP synthase) <strong>Specimen Requirement:</strong> Two T25 flasks of cultured fibroblasts certified Mycoplasma free; Send confirmatory Mycoplasma test results with flasks; Ambient <strong>Methodology:</strong> Respirometry <strong>Reference Range:</strong> Negative <strong>Days Performed:</strong> Monday - Friday <strong>Reported:</strong> 6 - 7 weeks <strong>CPT:</strong> 82657 <strong>Price:</strong> $1,400.00 (non-discountable)</td>
<td>2/9/2012</td>
</tr>
</tbody>
</table>
### New Tests (cont.)

<table>
<thead>
<tr>
<th>Test Name</th>
<th>Order Code</th>
<th>Billing Code</th>
<th>Change</th>
<th>Effective Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrocodone (Hycodan) Serum</td>
<td>HYDSER</td>
<td>88457</td>
<td></td>
<td>2/9/2012</td>
</tr>
</tbody>
</table>
| **Special Information:** Trough levels are most reproducible  
**Specimen Requirement:** 3 mL serum from a red top tube; Do not use serum separator tubes; Refrigerated  
**Methodology:** Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS)  
**Reference Range:** 10 - 40 ng/mL  
**Days Performed:** Sunday - Saturday  
**Reported:** 6 - 8 days  
**CPT:** 82542  
**Price:** $100.00 (non-discountable) |
| Mycoplasma Culture, non urogenital | UMPLAS     | 88455        |        | 2/2/2012       |
| **Includes:** Ureaplasma spp., Mycoplasma hominis  
**Specimen Requirement:** 0.5 mL fluid in M4 media; Frozen  
**Methodology:** Culture  
**Reference Range:** Negative  
**Days Performed:** Sunday - Saturday  
**Reported:** 4 - 8 days  
**CPT:** 87109  
**Price:** $100.00 (non-discountable) |
| Vascular Disease Panel           | VASDPL     | 88461        |        | 2/2/2012       |
| **Includes:** Sequence analysis of ACTA2, COL3A1, SMAD3, TGRBR1 and TGFBR2 genes  
**Specimen Requirement:** 8 mL whole blood in an EDTA lavender top tube; Collect Monday - Thursday only; Ambient  
**Methodology:** Sequencing  
**Days Performed:** one day per week  
**Reported:** 6 - 8 weeks  
**CPT:** 83898x58, 83904x67  
**Price:** $3,000 (non-discountable) |
| Whole Genome SNP Microarray      | WGSNP      | 88472        |        | 2/23/2012      |
| **Special information:** Indications: Individuals with unexplained intellectual disability, developmental delay, autism, dysmorphic features or other phenotypic anomalies. Individuals with a suspicion of a chromosomal abnormality or microduplication/deletion syndrome with a normal karyotype. Aids in determining the size of duplication/deletion involved in an unbalanced translocation. Aids in assessing possible cryptic duplications/deletions in an individual with an apparently balanced karyotype, but with phenotypic abnormalities.  
**Specimen Requirement:** THIS ASSAY REQUIRES MULTIPLE SPECIMEN TYPES; 3 - 5 mL whole blood in an EDTA lavender top tube *AND* 3 - 5 mL of whole blood in a sodium heparin green top tube; Specimens MUST be received before 3 p.m. in Cleveland Clinic Laboratories on the same day as collection  
**Methodology:** Microarray - Affymetrix Platform  
**Days Performed:** Monday - Friday  
**Reported:** 4 - 5 weeks  
**CPT:** 83890, 88230, 88386x4  
**Price:** $2,000.00 (non-discountable) |

### Discontinued Tests

<table>
<thead>
<tr>
<th>Test Name</th>
<th>Order Code</th>
<th>Billing Code</th>
<th>Test Information</th>
<th>Effective Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRL Motor/Sensory Evaluation</td>
<td>MRLMOT</td>
<td>80984</td>
<td>This test will no longer be available. Suggest ordering Sensory Neuropathy Profile (SENNRO) or RI Autoantibody (RIAUT) or Hu Autoantibody (ANTIHU) or Myelin Associated Glycoprotein (MAG) Antibody, IgM (MAGIGM)</td>
<td>2/28/2012</td>
</tr>
</tbody>
</table>