



Technical Update • April 2013

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.

Test Update Page #	Summary of Changes by Test Name	Order Code	Billing Code	Name Change	Test Discontinued	Specimen Requirement	Component Change	Methodology	Reference Range	Days Performed/Reported	CPT	Fee
7	Acetylcholine Receptor Antibodies with reflex											
3	ADAMTS13 Inhibitor											
3	ADAMTS13 Profile											
3, 14	Allergen, Food Panel RL											
8	Allergen, YEAST											
14	Alpha-1-Antitrypsin, Stool											
3	Aluminum											
3	Amino Acids, Plasma											
4	Antibiotic Assay Flucytosine											
4	Antimony, Blood											
8	Anti-Neutrophil Cytoplasmic Antibody with reflex to Titer and MPO/PR-3 Antibodies											
8	Bence Jones Protein, Qt, Free Kappa/Lambda Light Chains											
8	Bicarbonate (HCO ³), Urine											
14	BK Virus, Quantitation PCR, Plasma											
14	Bordetella PCR											
9	Bordetella pertussis Culture											
14	Brucella IgG/IgM Confirmation											
9	CA19-9, Fluid											
9	Carbamazepine, Total and Free											
14	CEBPA Mutation Analysis											
4	Chlamydia trachomatis DFA											
9	Chromium, Serum											
4	Circulating Tumor Cells											
4	Cobalt, Serum											

Test Update Page #	Summary of Changes by Test Name	Order Code	Billing Code	Name Change	New Test	Specimen Information	Component Requirement	Reference Change	Methodology	Days Performed/Reported	CPT	Fee
9	Complement Component 4A											
4	Copper, Serum Free (Direct)											
14	Cyanide, Blood											
14	Duchenne/Becker Muscular Dystrophy DNA Carrier Test (females only)											
14	Duchenne/Becker Muscular Dystrophy DNA Deletion Test (males only)											
4	Everolimus											
14	FAP, Known Mutation											
14	Fatty Acid Profile, Mitochondrial (C8-C18), Serum											
10	Fibrinogen Panel											
4, 14	Fungitell Assay for (1,3)-β-D-Glucan											
14	Helicobacter pylori Breath Test, Pediatric											
10	Hemoglobin A2 and F											
10	Hepatitis C Virus RNA Quantitative bDNA											
14	Hexosaminidase A & Total, WBC											
4, 14	HLA B5701											
10	HSV 1/2 Antibodies, IgG and IgM											
11	IgG Subclass 4											
4	Immune Function Assay ATP											
5	Inhibin B											
5	Inner Ear 68KD Antibody											
5	Kennedy's Disease DNA Test											
14	Liver Kidney Microsome IgG Autoantibodies											
5	Magnesium, Urine, 24 hour											
5	Magnesium, Urine, Random											
11	Manganese, Serum											
5	Mercury, Blood											
11	MPO/PR-3 Antibodies											
5, 14	Mumps IgG Antibody											
5	Myeloma Prognostic Risk Signature											
6, 14	Neoencephalitis Paraneoplastic Profile with Recombx											
11	Neuronal Antibodies (Hu, Ri, Yo, & Amphiphysin) IgG											
6	Nickel, Serum											
6, 14	P53 Mutation Analysis											
6	Peroxisomal Panel											
6	Platelet Antibody Screen											
6	Platelet Dependent Antibody, Unfractionated Heparin											
12	Prolactin Macroadenoma											
6	Rapamune											
14	Synthetic Glucocorticoid Screen, Serum											
14	Synthetic Glucocorticoid Screen, Urine											
14	Thiopurine Methyltransferase (TPMT)											
6, 14	TH/TO Antibody											

Test Update Page #	Summary of Changes by Test Name	Order Code	Billing Code	Name Change	New Test	Test Discontinued	Specimen Information	Component Requirement	Reference Change	Methodology	Days Performed/Reported	CPT	Fee
12	Thyroxin, Free by Equilibrium Dialysis/LC-MSMS												
14	Tricyclic Antidepressant ID												
12	Triiodothyronine, Free by Equilibrium Dialysis/LC-MSMS												
7	Varicella-Zoster IgG Antibody												
14	VIP												
7	Vitamin B2												
13	Vitamin B7, H (Biotin)												
7	Von Willebrand Exon 28 Sequence Analysis												
13	West Nile IgG, CSF												
13	West Nile IgG, Serum												
13	West Nile IgM, CSF												
13	West Nile IgM, Serum												
7	West Nile Virus Antibody Panel, CSF												
7	West Nile Virus Antibody Panel, Serum												
7	Whipple's Disease PCR, Whole Blood												

Test Changes

Test Name	Order Code	Billing Code	Change	Effective Date
ADAMTS13 Inhibitor	ADMHIB	84463	Days Performed: Monday - Friday Reported: 3 - 6 days	5/2/2013
ADAMTS13 Profile	ADAM13	82945	Days Performed: Monday - Friday Reported: 3 - 6 days	5/2/2013
Allergen, Food Panel RL	FOODRL	179	Includes: Banana, Barley, Beef, Cheese cheddar type, Chicken meat, Corn, Egg white, Gluten, Milk, Oat, Orange, Peanut, Pork, Potato, Rice, Rye, Soybean, Tomato, Wheat, Yeast Test build may need to be modified Reference Range: Yeast: <0.35 kU/L, Class: 0 All other ranges remain unchanged CPT: 86003x20	3/11/2013
Aluminum	ALUM	75004	Specimen Requirement: 2 mL serum from a no additive navy blue top tube; Carefully clean skin with an alcohol swab prior to collection; use powder less gloves; Remove serum from cells ASAP or within 6 hours of collection and aliquot into a trace metal free transport tube (ARUP #43116); Transport tubes are available by calling Client Services at 800.628.6816 or 216.444.5755; Ambient Days Performed: Monday - Friday Reported: 2 - 5 days	4/25/2013
Amino Acids, Plasma	AAQTPL	82003	Includes: Taurine, Aspartic Acid, Hydroxyproline, Threonine, Serine, Asparagine, Glutamine, Proline, Glycine, Alanine, Citrulline, Valine, Cystine, Methionine, Isoleucine, Leucine, Tyrosine, Phenylalanine, Ornithine, Lysine, Histidine, Arginine, Glutamic Acid, Alpha Aminodipic Acid, Sarcosine, Hydroxylysine, Alloisoleucine Test build may need to be modified Reference Range: Alloisoleucine: 0 - 2 µm/L All other ranges remain unchanged	4/16/2013

Test Changes

Test Name	Order Code	Billing Code	Change	Effective Date
Antibiotic Assay Flucytosine	FLCYT	81877	Specimen Requirement: 1 mL serum from a serum separator tube ; Remove serum from cells within 2 hours of collection ; Frozen Methodology: Liquid Chromatography - Tandem Mass Spectrometry (LC- MS/MS) CPT: 80299	4/1/2013
Antimony, Blood	ANTMBL	77008	Specimen Requirement: 7 mL whole blood in an EDTA navy blue top tube; Transport in original collection tube ; Ambient	5/2/2013
Chlamydia trachomatis DFA	CHLDFA	79195	Special Information: 1. Specimens should be collected early in the acute phase of infection. The chance of microorganism recovery is best during the first 3 days after onset and is greatly reduced beyond 5 days with many microorganisms. 2. Two prepared slides or smears can be submitted. Fix with methanol. Place in slide holder. Ship at ambient temperature. 3. Acceptable specimens: Urethral, cervical, rectal mucosal, eye, and nasopharyngeal specimens. For infants, submit nasopharyngeal aspirate, washings, or a swab. Place specimens immediately in UTM or Chlamydia transport media. 4. To maintain optimum viability, place swab or fluid into UTM or equivalent Chlamydia transport medium and send to Cleveland Clinic Laboratories ASAP. Best recovery is obtained when the specimens are refrigerated at 2-8°C or kept on wet ice following collection and while in transit. If there will be a long delay before processing, specimens in UTM or equivalent should be frozen at -70°C or colder and transported frozen. Storage or transport at -20°C is not acceptable. 5. Unacceptable specimens: Urine, wooden shaft or calcium alginate swabs, dry swabs. Swabs in bacterial gel-based transport media, swabs in nucleic acid transport media, tissues in fixatives, broken slides. 6. The specimen source is essential because processing and set up is dependent on it and therefore the specimen source is required.	3/12/2013
Circulating Tumor Cells	CTC	82886	CPT: 86152	4/25/2013
Cobalt, Serum	COBALT	83022	Specimen Requirement: 2 mL serum from a no additive navy blue top tube; Do not use serum separator tubes; Remove serum from cells ASAP and aliquot into a trace metal free transport tube (ARUP #43116); Transport tubes are available by calling Client Services at 800.628.6816 or 216.444.5755 ; Ambient	4/25/2013
Copper, Serum Free (Direct)	FRCOP	84316	Specimen Requirement: 2.5 mL serum from a no additive navy blue top tube; Do not use serum separator tubes; Remove serum from cells ASAP and aliquot into a trace metal free transport tube (ARUP #43116); Transport tubes are available by calling Client Services at 800.628.6816 or 216.444.5755 ; Frozen Days Performed: Tuesday, Thursday, Saturday Reported: 2 - 5 days	4/25/2013
Everolimus	EVERO	88194	Reference Range: 3.0 - 8.0 ng/mL Urgent Range: > 30.0 ng/mL Critical Range: > 15.0 ng/mL	4/1/2013
Fungitell Assay for (1,3)-B-D-Glucan	BDGLUC	88499	Days Performed: Monday - Friday Reported: 3 - 7 days	4/1/2013
HLA B5701	B5701	84337	Methodology: Qualitative Allele-specific Real Time Polymerase Chain Reaction (PCR)	3/20/2013
Immune Function Assay ATP	IMMFUN	82662	Specimen Requirement: 3 mL whole blood in a sodium heparin green top tube; Specimen MUST be received at Cleveland Clinic Laboratories by 12:00 noon on Friday; Critical Ambient Reference Range: 225 - 525 ng/mL Low response: ≤ 225 ng/mL Moderate Response: 226 - 524 ng/mL Strong Response: ≥ 525 ng/mL Days Performed: Monday - Saturday Reported: 2 - 3 days CPT: 86352	4/15/2013

Test Changes (cont.)

Test Name	Order Code	Billing Code	Change	Effective Date
Inhibin B	INHIBB	82819	Special Information: This test uses a reagent or kit labeled by the manufacturer as Research Use Only. Its performance characteristics were determined in a manner consistent with CLIA requirements. Specimen Requirement: 0.4 mL serum from a serum separator tube; Refrigerated Methodology: Enzyme-Linked Immunosorbent Assay (ELISA) Reference Range: Males 0 - 23 months: < 430 pg/mL 2 - 4 years: < 269 pg/mL 5 - 7 years: < 184 pg/mL 8 - 10 years: < 214 pg/mL 11 - 13 years: < 276 pg/mL 14 - 17 years: < 273 pg/mL Adults: < 399 pg/mL Females 0 - 23 months: < 111 pg/mL 2 - 4 years: < 44 pg/mL 5 - 7 years: < 27 pg/mL 8 - 10 years: < 67 pg/mL 11 - 13 years: < 120 pg/mL 14 - 17 years: < 136 pg/mL Premenopausal Follicular: < 139 pg/mL Luteal: < 92 pg/mL Postmenopausal: < 10 pg/mL Days Performed: Tuesday Reported: 2 - 3 days	4/4/2013
Inner Ear 68KD Antibody	AB68KD	81984	Methodology: Line Immunoassay (LIA)	4/1/2013
Kennedy's Disease DNA Test	KENEDY	82948	Reference Range: Normal alleles: 11 - 34 CAG repeats Abnormal alleles: 36 - 62 CAG repeats	4/11/2013
Magnesium, Urine, 24 hour	UMAGD	83765	Reference Range: 12 - 291 mg/24 hours Days Performed: Thursday Reported: 1 - 8 days	4/16/2013
Magnesium, Urine, Random	UMAGR	77600	Reference Range: 0.4 - 23.2 mg/dL Days Performed: Thursday Reported: 1 - 8 days	4/16/2013
Mercury, Blood	MERC2	79631	Specimen Requirement: 7 mL whole blood in an EDTA navy blue top tube; Transport in original collection tube; Ambient	5/2/2013
Mumps IgG Antibody	MUMPSG	75398	Specimen Requirement: 1 mL serum from a serum separator tube; Refrigerated Days Performed: Sunday - Saturday Reported: 1 day	3/26/2013
Myeloma Prognostic Risk Signature	MYPRS	88729	CPT: 81599, 86849, 88184, 88185	4/25/2013

Test Changes (cont.)

Test Name	Order Code	Billing Code	Change	Effective Date
Neoencephalitis Paraneoplastic Profile with Recombx	CEPHAL	82188	Includes: anti-CV2, anti HU, anti-Ma, anti-Ta, VGKC Antibodies, Amphiphysin, GAD Antibodies, NMDA Receptor (NR1), CASPR2 Antibodies, LGI1 Antibodies Methodology: Enzyme-Linked Immunosorbent Assay (ELISA), Radioimmunoassay (RIA) , Indirect Immunofluorescence Assay (IFA), Western Blot (WB) Reference Range: anti-CV2: Negative anti-Hu: Negative anti-Ma: Negative anti-Ta: Negative Amphiphysin: Negative VGKC Antibodies: Negative: < 450 pmol/L Borderline: 450 - 650 pmol/L Positive: > 650 pmol/L GAD Antibodies: Initial run at neat: negative = 0; If result is positive, sample is diluted and reference ranges are as follows: Negative: 1-600 Borderline: 600 - 1200 Positive: > 1200 NMDA Receptor (NR1): Negative CASPR2 Antibodies: Negative LGI1 Antibodies: Negative Days Performed: Monday - Friday Reported: 29 - 30 days CPT: 83516x2, 83519, 84181, 84182x2, 86255x3	3/12/2013
Nickel, Serum	NICKEL	87848	Specimen Requirement: 2 mL serum from a no additive navy blue top tube; Remove serum from cells ASAP and aliquot into a trace metal free transport tube (ARUP #43116); Transport tubes are available by calling Client Services at 800.628.6816 or 216.444.5755; Ambient	4/25/2013
P53 Mutation Analysis	P53MUT	88213	Specimen Requirement: 4 mL whole blood in an EDTA lavender top tube; White cell count should be >15,000 with at least 20% blasts; Send to Cleveland Clinic Laboratories on the day of collection; Ambient Methodology: Polymerase Chain Reaction (PCR) Forward & Reverse Sequencing Days Performed: Monday - Friday Reported: 15 - 16 days	5/2/2013
Peroxisomal Panel	PEROXI	32037	Reference Range: C24:0/C22:0 Ratio: ≤ 1.39 C24:0: ≤ 91.4 nmol/mL All other ranges remain unchanged	4/11/2013
Platelet Antibody Screen	PLTAB3	83391	Special Information: Samples should be < 7 days old when tested. Older specimens are acceptable if they have been frozen. Antibodies against some low frequency platelet antigens (HPA-6b, HPA-9b, etc) will not be detected since platelets expressing these antigens are not available. The platelet antibody screen is not designed to identify the platelet alloantigen specificity of antibodies detected or to detect ABO blood group antibodies.	4/1/2013
Platelet Dependent Antibody, Unfractionated Heparin	SERORE	79444	CPT: 86022x1	4/1/2013
Rapamune	RAPAM	81001	Reference Range: 3.0 - 18.0 ng/mL Urgent Range: > 30.0 ng/mL	
TH/TO Antibody	THTO	88117	Specimen Requirement: 1 mL serum from a serum separator tube; Refrigerated Methodology: Immunoprecipitation (IPP) Days Performed: Monday - Thursday Reported: 12 - 17 days CPT: 83516	2/28/2013

Test Changes (cont.)

Test Name	Order Code	Billing Code	Change	Effective Date
Varicella-Zoster IgG Antibody	VZVG	75622	Specimen Requirement: 1 mL serum from a serum separator tube; Refrigerated Days Performed: Sunday - Saturday Reported: 1 day	3/26/2013
Vitamin B2	VITB2	83756	Special Information: Critical Frozen; Separate specimens must be submitted when multiple tests are requested; This test is not available for New York patient testing. Days Performed: Monday, Wednesday, Friday Reported: 5 - 8 days	3/28/2013
Von Willebrand Exon 28 Sequence Analysis	EXON28	82907	Days Performed: Monday - Friday Reported: 22 - 23 days	5/2/2013
West Nile Virus Antibody Panel, CSF	CNILE	81866	Reference Range: West Nile IgG: Negative: < 1.30 IU Equivocal: 1.30 - 1.49 IU Positive: ≥ 1.50 IU West Nile IgM: Negative: < 0.90 IU Equivocal: 0.90 - 1.10 IU Positive: ≥ 1.10 IU	4/1/2013
West Nile Virus Antibody Panel, Serum	NILE	81865	Reference Range: West Nile IgG: Negative: < 1.30 IU Equivocal: 1.30 - 1.49 IU Positive: ≥ 1.50 IU West Nile IgM: Negative: < 0.90 IU Equivocal: 0.90 - 1.10 IU Positive: ≥ 1.10	4/1/2013
Whipple's Disease PCR, Whole Blood	WHIPWB	87585	Interfaced clients only: Test build will need to be changed Specimen Requirement: 1 mL whole blood in an EDTA lavender top tube; Do not aliquot, send specimen in original tube; Refrigerated Days Performed: Monday, Wednesday, Friday Reported: 3 - 8 days	3/25/2013

New Tests

Test Name	Order Code	Billing Code	Test Information	Effective Date
Acetylcholine Receptor Antibodies with reflex	ACHABS	89369	Special Information: If the Acetylcholine Binding Antibody is > 0.5 nmol/L or the Acetylcholine Blocking Antibody is > 20%, the Acetylcholine Modulating Antibody will be reflexed with an additional cost. Add 8 days to the turn around time if the Modulating Antibody is reflexed. Grossly hemolyzed, lipemic samples or samples containing > 20 mg/dL of bilirubin are unacceptable. Includes: Acetylcholine Receptor Binding Antibody Acetylcholine Receptor Blocking Antibody Acetylcholine Receptor Modulating Antibody (if indicated) Specimen Requirement: 1.0 mL serum from a serum separator tube; Separate serum from cells and refrigerate ASAP; Refrigerated Methodology: Radioimmunoassay (RIA), Flow Cytometry (if indicated) Reference Range: Acetylcholine Receptor Binding Ab: 0.0 - 0.5 nmol/L Acetylcholine Receptor Blocking Ab: Negative: < 21% Positive: > 20% Acetylcholine Receptor Modulating Ab (if indicated): Negative: 0 - 45% Positive: ≥ 46% Days Performed: Thursday Reported: 1 - 8 days CPT: 84238x2 Price: \$245.00	5/2/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
Allergen, YEAST	BYEAST	81241	Specimen Requirement: 0.1 mL serum from a serum separator tube; Refrigerated Methodology: Fluorescent Enzyme Immunoassay (FEIA) by ImmunoCAP Reference Range: < 0.35 kU/L Class: 0 Days Performed: Sunday - Saturday Reported: 1 - 2 days CPT: 86003 Price: \$33.00	3/11/2013
Anti-Neutrophil Cytoplasmic Antibody with reflex to Titer and MPO/PR-3 Antibodies	NCYTO	89332	Special Information: If screen is positive, then titer and MPO/PR-3 Antibodies will added at an additional charge Specimen Requirement: 1 mL serum from a serum separator tube; Separate serum from cells ASAP or within 2 hours of collection; Refrigerated Methodology: Indirect Fluorescent Antibody (IFA) Reference Range: < 1:20: Not Significant Days Performed: Monday - Saturday Reported: 3 - 6 days CPT: 86255 Price: \$67.00 (non-discountable)	5/2/2013
Bence Jones Protein, Qt, Free Kappa/Lambda Light Chains	UBJP	89292	Includes: Total Protein, Albumin, Alpha-1 Globulins, Alpha-2 Globulins, Beta Globulins, Gamma, Free Kappa Light Chains, Free Kappa Excretion/day, Free Lambda Light Chain, Free Lambda Excretion/day, Free Kappa/Lambda Ratio, IFE Interpretation Specimen Requirement: 8 mL urine from a 24 hour collection in a clean container; Send two 4 mL aliquots; Refrigerate during collection; Refrigerated Methodology: Quantitative Immunofixation Electrophoresis Quantitative Nephelometry Reference Range: Total Protein: 10 - 140 mg/day Albumin, Urine: Detected Alpha-1 Globulins, Urine: None detected Alpha-2 Globulins, Urine: None detected Beta Globulins, Urine: None detected Gamma, Urine: None detected Free Urinary Kappa Light Chains: 0.14 - 2.42 mg/dL Free Urinary Kappa Excretion/Day: By report Free Urinary Lambda Light Chain: 0.02 - 0.67 mg/dL Free Urinary Lambda Excretion/Day: By report Free Urinary Kappa/Lambda Ratio: 2.04 - 10.37 (ratio) FE Interpretation: By report Days Performed: Monday - Friday Reported: 2 - 6 days CPT: 84156, 86355, 83883x2 Price: \$118.00 (non-discountable)	5/2/2013
Bicarbonate (HCO ³⁻), Urine	UBICRB	89339	Specimen Requirement: 4 mL random urine in a sterile container; Immediately upon collection, mix and transfer 4 mL urine to a standard transport tube; Do not expose to air; Separate specimens must be submitted when multiple tests are ordered; Critical frozen Methodology: Enzymatic Reference Range: Not defined Days Performed: Sunday - Saturday Reported: 2 - 3 days CPT: 82374 Price: \$42.00 (non-discountable)	5/2/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
Bordetella pertussis Culture	BORCUL	89287	Specimen Requirement: 0.5 mL nasal aspirate or washing in a sterile container; Ambient Methodology: Culture, Identification Reference Range: Negative Days Performed: Sunday - Saturday Reported: 8 - 9 days CPT: 87081, 87077 Price: \$79.00 (non-discountable)	5/2/2013
CA19-9, Fluid	FCA199	89330	Specimen Requirement: 2 mL fluid in a clean container; Specify fluid type with sample; Refrigerated Methodology: Immunoenzymatic Assay Reference Range: Not established Days Performed: Monday - Friday Reported: 1 - 3 days CPT: 86301 Price: \$89.00	5/2/2013
Carbamazepine, Total and Free	CARBFT	34026	Specimen Requirement: 1.5 mL plasma from a sodium or lithium heparin green top tube; Collect immediately before the next dose; Refrigerated Methodology: Fluorescence Polarization Immunoassay (FPIA) Reference Range: Carbamazepine, Free: 1.6 - 2.4 µg/mL Carbamazepine, Total: 8.0 - 12.0 µg/mL Days Performed: Sunday - Saturday Reported: 8 hours CPT: 80156, 80157 Price: \$107.00	5/2/2013
Chromium, Serum	CHRSER	89348	Special Information: Patient Prep: Diet, medication, and nutritional supplements may introduce interfering substances. Patients should be encouraged to discontinue nutritional supplements, vitamins, minerals, and non-essential over-the-counter medications (upon the advice of their physician). Specimen Requirement: 2 mL serum from a no additive navy blue top tube; Remove serum from cells ASAP or within 6 hours of collection and transfer to a trace element free tube (ARUP #43116); These tubes are available by calling Client Services at 800.628.6816 or 216.444.5755; Ambient Methodology: Inductively Coupled Plasma/Mass Spectrometry (ICP-MS) Reference Range: ≤ 5.0 µg/L Days Performed: Tuesday, Thursday, Saturday Reported: 2 - 5 days CPT: 82495 Price: \$50.00 (non-discountable)	5/2/2013
Complement Component 4A	COMP4A	89288	Specimen Requirement: 1 mL plasma from an EDTA lavender top tube; Separate from cells and aliquot within 1 hour of collection; Separate specimens must be submitted when multiple tests are ordered; Critical Frozen Methodology: Radioimmunoassay (RIA) Reference Range: Refer to report Days Performed: Varies Reported: 15 - 22 days CPT: 86160 Price: \$142.00 (non-discountable)	5/2/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
Fibrinogen Panel	FIBPN	89297	Includes: Fibrinogen Antigen Fibrinogen Fibrinogen Antigen/Functional Ratio Specimen Requirement: 2 mL plasma from a sodium citrate light blue top tube; Please collect a clearing (discard) tube before the sodium citrate light blue top tube; Discard the clearing tube; Centrifuge the sodium citrate light blue top tube and immediately remove the top 2/3 of the plasma and freeze; Frozen Methodology: Electromagnetic Mechanical Clot Detection Radial Immunodiffusion Reference Range: Fibrinogen Antigen: 149 - 353 mg/dL Fibrinogen: 150 - 430 mg/dL Fibrinogen Antigen/Functional Ratio: 0.59 - 1.23 Days Performed: Sunday - Saturday Reported: 3 - 5 days CPT: 85384, 85385 Price: \$90.00 (non-discountable)	5/2/2013
Hemoglobin A2 and F	A2F	89294	Specimen Requirement: 4 mL whole blood in an EDTA lavender top tube; If possible indicate ethnic or racial origin, date of most recent transfusion, and age of patient; Refrigerated Methodology: High Performance Liquid Chromatography (HPLC) Reference Range: Hemoglobin A2: 1.5 - 3.5% Hemoglobin F: < 1.9% Days Performed: Monday - Friday Reported: 1 - 4 days CPT: 83021 Price: \$43.00	5/2/2013
Hepatitis C Virus RNA Quantitative bDNA	HCBDNA	89281	Includes: HCV RNA Quant bDNA, Log HCV RNA Quant bDNA, IU Specimen Requirement: 1 mL plasma from an EDTA lavender top tube; Separate plasma from cells within 4 hours of collection; Frozen Methodology: Quantitative Branched Chain DNA Reference Range: Not detected Days Performed: Tuesday, Friday Reported: 3 - 6 days CPT: 87522 Price: \$185.00 (non-discountable)	5/2/2013
HSV 1/2 Antibodies, IgG and IgM	HSVGM	89293	Includes: HSV IgG Type 1 Antibody HSV IgG Type 2 Antibody HSV IgM Type 1 & 2 Antibodies (combined) Specimen Requirement: 1 mL serum from a serum separator tube; Refrigerated Methodology: Enzyme Immunoassay (EIA), Multiplex Reference Range: Herpes Simplex IgG 1: Negative: < 0.9 AI Herpes Simplex IgG 2: Negative: < 0.9 AI Herpes Simplex IgM 1/2: 0.0 - 0.9 OD Ratio Days Performed: IgG 1/2: Sunday - Friday IgM 1/2: Tuesday, Friday Reported: 1 - 4 days CPT: 86695, 86696, 86694 Price: \$217.00	5/2/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
IgG Subclass 4	IGG4	89370	Specimen Requirement: 1 ml serum from a serum separator tube; Refrigerated Methodology: Nephelometry (NEPH) Reference Range: (mg/dL) 0 - 2 years: 1 - 78 2 - 4 years: 1 - 54 4 - 6 years: 2 - 113 6 - 8 years: 1 - 99 8 - 10 years: 2 - 93 10 - 12 years: 2 - 115 12 - 14 years: 4 - 136 14 - 18 years: 11 - 157 18 - 99 years: 11 - 112 Days Performed: Monday - Friday Reported: Same day if specimen received in the testing lab by 7:00 am EST. CPT: 82787 Price: \$48.00	5/2/2013
Manganese, Serum	SMANG	89275	Special Information: Diet, medication, and nutritional supplements may introduce interfering substances. Patients should be encouraged to discontinue nutritional supplements, vitamins, minerals, and non-essential over-the-counter medications (upon the advice of their physician). Specimen Requirement: 2 mL serum from a no additive navy blue top tube; Separate serum from cells ASAP and aliquot into a trace metal free transport tube (ARUP #43116); The transport tube is available by calling Client Services at 800.628.6816 or 216.444.5755; Ambient Methodology: Inductively Coupled Plasma/Mass Spectrometry (ICP-MS) Reference Range: 0.0 - 2.0 µg/L Days Performed: Sunday, Wednesday Reported: 2 - 6 days CPT: 83785 Price: \$56.00 (non-discountable)	5/2/2013
MPO/PR-3 Antibodies	MPOA	89334	Includes: Myeloperoxidase Antibody, IgG Serine Protease 3 Antibody, IgG Specimen Requirement: 1 mL serum from a serum separator tube; Separate serum from cells ASAP or within 2 hours of collection; Refrigerated Methodology: Semi-Quantitative Multiplex Bead Reference Range: Myeloperoxidase Antibody: ≤ 19 AU/mL Serine Protease 3 Antibody: ≤ 19 AU/mL Days Performed: Monday - Saturday Reported: 3 - 6 days CPT: 83516x2 Price: \$69.00 (non-discountable)	5/2/2013
Neuronal Antibodies (Hu, Ri, Yo, & Amphiphysin) IgG	HURIYO	89321	Specimen Requirement: 1 mL serum from a serum separator tube; Remove serum from cells within 2 hours of collection; Frozen Methodology: Immunoblot Reference Range: Anti Hu IgG: Negative Anti Ri IgG: Negative Anti Yo IgG: Negative Amphiphysin IgG: Negative Days Performed: Thursday Reported: 2 - 9 days CPT: 83516 Price: \$168.00 (non-discountable)	5/2/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
Prolactin Macroadenoma	PROLM	89362	Specimen Requirement: 1 mL serum from a serum separator tube; Frozen Methodology: Chemiluminescence Immunoassay (CLIA) Reference Range: Male: 2.1 - 17.7 ng/mL Female: 1 - 9 years: 2.1 - 17.7 ng/mL ≥ 10 years: 2.8 - 26 ng/mL Days Performed: Sunday - Saturday Reported: 2 - 3 days CPT: 84146 Price: \$51.00 (non-discountable)	5/2/2013
Thyroxin, Free by Equilibrium Dialysis/LC-MSMS	T4HPLC	89335	Specimen Requirement: 2 mL serum from a red top tube; Refrigerated Methodology: Equilibrium Dialysis, High Performance Liquid Chromatography - Tandem Mass Spectrometry (LC-MS/MS) Reference Range: Female: 25 - 30 weeks gestation: 0.5 - 3.3 ng/dL 31 - 36 weeks gestation: 1.3 - 4.7 ng/dL Birth to 1 week: 2.2 - 5.3 ng/dL 2 - 3 weeks: 0.9 - 4.0 ng/dL 1 - 5 months: 1.1 - 2.2 ng/dL 6 months - 6 years: 1.4 - 2.7 ng/dL 7 - 17 years: 1.1 - 2.0 ng/dL ≥ 18 years: 1.1 - 2.4 ng/dL Pregnancy, 1st Trimester: 0.7 - 2.0 ng/dL Pregnancy, 2nd Trimester: 0.7 - 2.1 ng/dL Pregnancy, 3rd Trimester: 0.5 - 1.6 ng/dL Male: 25 - 30 weeks gestation: 0.5 - 3.3 ng/dL 31 - 36 weeks gestation: 1.3 - 4.7 ng/dL Birth to 1 week: 2.2 - 5.3 ng/dL 2 - 3 weeks: 0.9 - 4.0 ng/dL 1 - 5 months: 1.1 - 2.2 ng/dL 6 months - 6 years: 1.4 - 2.7 ng/dL 7 - 17 years: 1.1 - 2.0 ng/dL ≥ 18 years: 1.1 - 2.4 ng/dL Days Performed: Monday - Friday Reported: 3 - 6 days CPT: 84439 Price: \$66.00 (non-discountable)	5/2/2013
Triiodothyronine, Free by Equilibrium Dialysis/LC-MSMS	FT3ED	89295	Specimen Requirement: 2 mL serum from a red top tube; Refrigerated Methodology: Equilibrium Dialysis, High Performance Liquid Chromatography - Tandem Mass Spectrometry (LC-MS/MS) Reference Range: Female: 6 months - 6 years: 3.8 - 8.5 pg/mL 7 - 12 years: 3.6 - 6.5 pg/mL 13 - 17 years: 2.9 - 5.6 pg/mL ≥ 18 years: 3.2 - 6.6 pg/mL Pregnancy, 1st Trimester: 3.0 - 5.7 pg/mL Pregnancy, 2nd Trimester: 2.3 - 5.6 pg/mL Pregnancy, 3rd Trimester: 3.0 - 5.7 pg/mL Male: 6 months - 6 years: 3.7 - 7.7 pg/mL 7 - 12 years: 3.7 - 6.4 pg/mL 13 - 17 years: 3.4 - 6.1 pg/mL ≥ 18 years: 3.2 - 6.6 pg/mL Days Performed: Monday - Friday Reported: 3 - 6 days CPT: 84481 Price: \$98.00 (non-discountable)	5/2/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
Vitamin B7, H (Biotin)	VITB7	89364	Specimen Requirement: 2 mL serum from a serum separator tube; Protect from light; Frozen Methodology: Microbiological Assay Reference Range: Pediatric <12 yrs: 57.0 – 2460.2 pg/mL Adult ≥ 12 yrs: 221.0 – 3004.0 pg/mL Days Performed: Varies Reported: 4 - 24 days CPT: 84591 Price: \$140.00 (non-discountable)	5/2/2013
West Nile IgG, CSF	CWESTG	83901	Specimen Requirement: 0.5 mL cerebrospinal fluid (CSF) in a sterile container; Refrigerated Methodology: Enzyme-Linked Immunosorbent Assay (ELISA) Reference Range: < 1.30 Index Value Days Performed: Monday, Thursday Reported: Same day if sample received in lab by 7:00 am EST on the day of testing CPT: 86789 Price: \$87.00 (non-discountable)	5/2/2013
West Nile IgG, Serum	WESTG	83899	Specimen Requirement: 0.5 mL serum from a serum separator tube; Refrigerated Methodology: Enzyme-Linked Immunosorbent Assay (ELISA) Reference Range: < 1.30 Index Value Days Performed: Monday, Thursday Reported: Same day if sample received in testing lab by 7:00 am EST on the day of testing CPT: 86789 Price: \$88.00 (non-discountable)	5/2/2013
West Nile IgM, CSF	CWESTM	83902	Specimen Requirement: 0.5 mL cerebrospinal fluid (CSF) in a sterile container; Refrigerated Methodology: Enzyme-Linked Immunosorbent Assay (ELISA) Reference Range: < 0.90 Index Value Days Performed: Monday, Thursday Reported: Same day if sample received in lab by 7:00 am EST on the day of testing CPT: 86788 Price: \$87.00 (non-discountable)	5/2/2013
West Nile IgM, Serum	WESTM	83900	Specimen Requirement: 0.5 mL serum from a serum separator tube; Refrigerated Methodology: Enzyme-Linked Immunosorbent Assay (ELISA) Reference Range: < 0.90 Index Value Days Performed: Monday, Thursday Reported: Same day if sample received in lab by 7:00 am EST on the day of testing CPT: 86788 Price: \$85.00 (non-discountable)	5/2/2013

Fee Increases

Test Name	Order Code	Billing Code	List Fee	CPT Code
Allergen, Food Panel RL	FOODRL	179	\$660.00	86003x20
Alpha-1-Antitrypsin, Stool	STA1A	76362	\$183.00 (non-discountable)	82103
Brucella IgG/IgM Confirmation	BRUCON	84467	\$188.00 (non-discountable)	86622
CEBPA Mutation Analysis	CEBPA	87639	\$576.00 (non-discountable)	81403
Cyanide, Blood	CYANID	82600	\$232.00 (non-discountable)	82600
Duchenne/Becker Muscular Dystrophy DNA Carrier Test (females only)	DBMDXS	83006	\$940.00 (non-discountable)	81479
Duchenne/Becker Muscular Dystrophy DNA Deletion Test (males only)	DBMDYS	82119	\$940.00 (non-discountable)	81479
Fungitell Assay for (1,3)-B-D-Glucan	BDGLUC	88499	\$190.00 (non-discountable)	87449
Hexosaminidase A & Total, WBC	TAYSAC	82868	\$435.00 (non-discountable)	83080x2
HLA B5701	B5701	84337	\$535.00 (non-discountable)	81381
Liver Kidney Microsome IgG Autoantibodies	LKM	76521	\$165.00 (non-discountable)	86376
Mumps IgG Antibody	MUMPSG	75398	\$67.00	86735
Neoencephalitis Paraneoplastic Profile with Recombx	CEPHAL	82188	\$4,000.00 (non-discountable)	83516x2, 83519, 84181, 84182x2, 86255x3
P53 Mutation Analysis	P53MUT	88213	\$1,410.00 (non-discountable)	81405
Synthetic Glucocorticoid Screen, Serum	SGLUCO	88378	\$248.00 (non-discountable)	82544
Synthetic Glucocorticoid Screen, Urine	UGLUCO	88379	\$276.00 (non-discountable)	82544
TH/TO Antibody	THTO	88117	\$150.00 (non-discountable)	83516
Tricyclic Antidepressant ID	TAID	79193	\$190.00	80152, 80182, 80174, 80160, 80166, 80299x4
VIP	VIP	75079	\$398.00 (non-discountable)	84586

Fee Reductions

Test Name	Order Code	Billing Code	List Fee	CPT Code
BK Virus, Quantitation PCR, Plasma	BKQUAN	82611	\$205.00	87799
Bordetella PCR	BORPCR	82511	\$355.00 (non-discountable)	87798x2
Thiopurine Methyltransferase (TPMT)	PPRENZ	81574	\$195.00	83789

Discontinued Tests

Test Name	Order Code	Billing Code	Test Information	Effective Date
FAP, Known Mutation	FAPKNO	82498	This test will no longer be available.	4/4/2013
Fatty Acid Profile, Mitochondrial (C8-C18), Serum	FAT818	87811	This test will no longer be available.	5/2/2013
Helicobacter pylori Breath Test, Pediatric	HPYBRP	88834	This test will no longer be available.	4/1/2013