



Technical Update • Mid 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	New Test	Specimen Requirement	Special Information	Component Requirement	Reference Change	Methodology	Days Performed/Reported	CPT	Fee
6	5-Fluorouracil Toxicity, Chemo Response, 7 Mutations													
6	Achondroplasia (FGFR3), 2 Mutations													
7	AChR, Striated Muscle, Titin Antibodies with reflex													
7	Adenovirus Antibody, IgG													
7	Adenovirus Antibody, IgM													
8	Adenovirus 40 - 41 Antigens, EIA													
8	Aldosterone/Renin Activity Ratio													
8	Allergen, Almond IgG													
8	Allergen, Barley (Food) IgG													
9	Allergen, Beef IgG													
9	Allergen, Cacao (Chocolate) IgG													
9	Allergen, Casein IgG													
9	Allergen, Chicken Meat IgG													
9	Allergen, Corn IgG													
9	Allergen, Egg White IgG													
9	Allergen, Lettuce IgG													
10	Allergen, Malt IgG													
10	Allergen, Oat IgG													
10	Allergen, Orange IgG													
10	Allergen, Peanut IgG													
10	Allergen, Pork IgG													
10	Allergen, Potato IgG													

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10	Allergen, Rice IgG													
11	Allergen, Rye IgG													
11	Allergen, Soybean IgG													
11	Allergen, Tomato IgG													
11	Allergen, Wheat IgG													
11	Allergen, Yeast (Bakers/Brewers) IgG													
34	Alpha-1-Antitrypsin Clearance													
11	Alpha Fetoprotein, CSF (Tumor Marker)													
12	Alpha Galactosidase, Serum													
5	Aluminum, Urine 24 Hour													
12	Amniotic Bilirubin Scan													
12	Anaplasma phagocytophilum (HGA) Antibodies, IgG & IgM													
12	Anti-IgA Antibody													
5	Antimony, Urine													
5	Arsenic, Fractionated Urine													
5	Arsenic, Urine 24 Hour													
12	Ashkenazi Jewish Diseases													
13	Aspergillus Antibody, CF													
34	Aspergillus Antibodies CF & ID													
13	Aspergillus Antibody, ID													
13	Aspergillus fumigatus Antibody, IgG by ELISA													
13	B-Cell CD20 Expression													
13	Benzene Quantitation, Whole Blood													
34	Beta-2 Transferrin													
13	Bile Acids, Total													
14	Blastomyces Antibody, CF													
34	Blastomyces Antibodies CF & ID													
14	Blastomyces Antibody, ID													
14	Blastomyces Antigen													
14	Bordetella pertussis Antibody, IgA & IgG, reflex to IB													
15	Bordetella pertussis Antibody, IgG & IgM, reflex to IB													
15	Brucella Antibody (Total) by Agglutination													
5	Cadmium, Urine													
15	Campylobacter Antigen													
15	Campylobacter jejuni Antibody, IgG													
16	Carbamazepine & Metabolite													
34	Carnitine, Free & Total, Urine													
16	Carotenes, Fractionated													
34	CMV Genotype													
16	Coccidioides Antibody, CF													
34	Coccidioides Antibody, CF & ID													
16	Coccidioides Antibody, ID													

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34	Complement C6, Functional													
17	Cortisol, Plasma													
17	Cryoglobulin, Qual, with reflex to IgA, IgG, and IgM													
17	Cryptococcus Antibody													
17	Cystic Fibrosis (CFTR) Sequencing													
18	Cytomegalovirus Antiviral Drug Resistance													
18	Entamoeba histolytica Antigen													
18	Ethyl Glucuronide, Urine with reflex to Confirm/Quant													
5	Everolimus													
34	Fatty Acid Profile of Lipids													
18	FISH for Myeloproliferative Neoplasms Panel													
34	Fragile X Syndrome DNA Analysis													
19	FSH, Tanner													
19	Fungal Antibodies by CF, CSF													
20	Fungal Antibodies, CF													
34	Fungal Antibodies, CF & ID													
20	Fungal Antibodies, ID													
34	GAD65 Antibody, CSF													
20	Gastric Analysis													
34	Gene Analysis 21 Hydroxylase													
34	Glucagon													
20	Growth Hormone, 60 Minutes													
20	Growth Hormone, 120 Minutes													
21	HCV RNA bDNA Quant with HCV Quant reflex													
21	HemoQuant, Fecal													
21	Hepatitis B Virus Genotyping													
21	Heterophile Antibody (Inf. Mono) LA, with Titer reflex													
22-25	Hirsutism Evaluation													
25	Histoplasma Antibodies, CF													
34	Histoplasma Antibodies CF & ID													
25	Histoplasma Antibodies, ID													
5	HIV Genotyping													
25	HIV PhenoSense GT													
26	Human Metapneumovirus by RT-PCR													
34	Hyperoxaluria, Urine													
34	IBD Serology Disease Panel													
26	Influenza A Virus Antibody, IgM													
26	Influenza B Virus Antibody, IgM													
26	JC Virus by PCR													
34	Ketamine Confirmation, Urine													
26	Lactic Acid, Body Fluid													

Test Update Page #	Summary of Changes by Test Name	Order Code	Billing Code	Name Change	New Test	Test Discontinued	Specimen Information	Component Requirement	Methodology	Reference Range	Days Performed/Reported	CPT	Fee
5	Lead, Urine 24 Hour												
27	Leucine Aminopeptidase (LAP), Serum												
27	LH Pediatric												
27	LH Tanner												
28	Macroprolactin												
28	Malaria Antibody, IgG												
5	Manganese, Urine												
5	Mercury, Urine 24 Hour												
28	Mycoplasma pneumoniae IgA												
28	Neisseria gonorrhoea Antibodies, Total												
6	Neoencephalitis Paraneoplastic Profile with Recombx												
29	Neuronal Nuclear Antibody IgG by IFA, reflex Titer and Immunoblot												
29	Neuronal Nuclear Antibody IgG by Immunoblot												
6	Nickel, Urine 24 Hour												
30	NMR Lipoprofile, Particle Analysis Only												
30	Norovirus Group 1 and 2 Detection by RT-PCR												
31	Nuclear Antibody by IFA, IgG												
31	Olanzapine												
31	Organic Acids, Plasma												
6	Oxycodone Screen, Urine												
31	Polychlorinated Biphenyls												
31	Prothrombin Antibodies IgG & IgM												
32	Reptilase Time with Reflex to Reptilase Time 1:1 Mix												
32	Rett Syndrome (MECP2), Full Gene Analysis												
32	Rotavirus and Adenovirus 40 - 41 Antigens												
32	Sotalol												
6	Sulfonylurea Hypoglycemics, Serum												
34	Tay-Sachs (Hexosaminidase)												
32	Testosterone, Free, Adult Males by ED/LC-MS/MS												
33	Testosterone, Free & Total, Adult Males by ED/LC-MS/MS												
34	TGFBR1 & TGFBR2 for Loeys-Dietz Syndrome												
34	Transthyretin DNA Sequencing												
33	Trichomonas Vaginalis by Amplified Detection												
33	Vanillylmandelic Acid & Homovanillic Acid, Ur												

Test Changes

Test Name	Order Code	Billing Code	Change	Effective Date
Aluminum, Urine 24 Hour	UAL24	75005	Specimen Requirement: 8 mL urine from a well mixed 24 hour collection in a trace metal free transport tube (ARUP #43116); Refrigerate during collection; Collect in a plastic container; Specimen must not be collected in glass or metal containers; Include total volume with specimen; Transport tubes are available by calling Client Services at 800.628.6816 or 216.444.5755; Refrigerated	5/9/2013
Antimony, Urine	ANTIMU	77009	Specimen Requirement: 8 mL urine from a random collection in a trace metal free transport tube (ARUP #43116); Collect in a plastic container; Transport tubes are available by calling Client Services at 800.628.6816 or 216.444.5755; Refrigerated	5/9/2013
Arsenic, Fractionated Urine	UASFR	88171	Specimen Requirement: 8 mL urine from a well mixed 24 hour collection in a trace metal free transport tube (ARUP #43116); Refrigerate during collection; Collect in a plastic container; Specimen must not be collected in glass or metal containers; Include total volume with specimen; Transport tubes are available by calling Client Services at 800.628.6816 or 216.444.5755; Refrigerated	5/9/2013
Arsenic, Urine 24 Hour	UARSND	30120	Specimen Requirement: 8 mL urine from a well mixed 24 hour collection in a trace metal free transport tube (ARUP #43116); Refrigerate during collection; Collect in a plastic container; Specimen must not be collected in glass or metal containers; Include total volume with specimen; Transport tubes are available by calling Client Services at 800.628.6816 or 216.444.5755; Refrigerated	5/9/2013
Cadmium, Urine	URCAD	87729	Specimen Requirement: 8 mL urine from a well mixed 24 hour collection in a trace metal free transport tube (ARUP #43116); Refrigerate during collection; Collect in a plastic container; Specimen must not come into contact with rubber, glass or metal; Include total volume with specimen; Transport tubes are available by calling Client Services at 800.628.6816 or 216.444.5755; Refrigerated	5/9/2013
Everolimus	EVERO	88194	The ranges reported for Everolimus were announced in error in the April 1, 2013 Technical Update. We apologize for any inconvenience or extra work this may have caused. Reference Range: 3.0 - 8.0 ng/mL Urgent Range: > 30.0 ng/mL	4/1/2013
HIV Genotyping	HIVGEN	80797	Specimen Requirement: 5 mL plasma in an EDTA white top tube; Separate plasma from cells within 2 hours of collection; Do not pour off into a separate tube; This test may be unsuccessful if the plasma HIV-1 RNA viral load is < 800 HIV-1 RNA copies per mL of plasma; Frozen Methodology: Polymerase Chain Reaction (PCR), DNA Sequencing, Amplification Days Performed: Monday - Friday Reported: 4 - 7 days	5/23/2013
Lead, Urine 24 Hour	ULEADQ	83660	Specimen Requirement: 8 mL urine from a well mixed 24 hour collection in a trace metal free transport tube (ARUP #43116); Refrigerate during collection; Collect in a plastic container; Provide volume with specimen; Transport tubes are available by calling Client Services at 800.628.6816 or 216.444.5755; Refrigerated Reference Range: Lead, Urine: 0 - 23 µg/L Lead, Urine (24 Hour): 0 - 31 µg/day Lead, per gram of creatinine: No Reference Interval (µg/g crt) Creatinine, 24 Hour: Refer to report	5/9/2013
Manganese, Urine	UMANG	79200	Specimen Requirement: 8 mL urine from a well mixed 24 hour collection in a trace metal free transport tube (ARUP #43116); Refrigerate during collection; Collect in a plastic container; Transport tubes are available by calling Client Services at 800.628.6816 or 216.444.5755; Refrigerated	5/9/2013
Mercury, Urine 24 Hour	UMERC3	79632	Specimen Requirement: 8 mL urine from a well mixed 24 hour collection in a trace metal free transport tube (ARUP #43116); Refrigerate during collection; Collect in a plastic container; Transport tubes are available by calling Client Services at 800.628.6816 or 216.444.5755; Refrigerated	5/9/2013

Test Changes (cont.)

Test Name	Order Code	Billing Code	Change	Effective Date
Neoencephalitis Paraneoplastic Profile with Recombx	CEPHAL	82188	Reference Range: GAD Antibodies: Negative: < 1:600 Borderline: 1:600 - 1:1200 Positive: > 1:1200 Other ranges are unchanged	3/12/2013
Nickel, Urine 24 Hour	UNI24	83885	Specimen Requirement: 8 mL urine from a well mixed 24 hour collection in a trace metal free transport tube (ARUP #43116) ; Refrigerate during collection; Collect in a plastic container; Transport tubes are available by calling Client Services at 800.628.6816 or 216.444.5755 ; Refrigerated	5/9/2013
Oxycodone Screen, Urine	OXYCOD	82615	CPT: 83925	4/15/2013
Sulfonylurea Hypoglycemics, Serum	SULFON	82893	Days Performed: Varies Reported: 4 - 11 days	5/30/2013

New Tests

Test Name	Order Code	Billing Code	Test Information	Effective Date
5-Fluorouracil Toxicity, Chemo Response, 7 Mutations	5FLUO	89425	Includes: Tox, Response-DPYD c.85 T>C Tox, Response-DPYD c.1679 T>G Tox, Response-DPYD c.1590 T>C Tox, Response-DPYD c.2846 A>T Tox, Response-DPYD c.1905+1 G>A Tox, Response-TYMS 3'UTR Genotype Tox, Response-TYMS 5'TSER Genotype Specimen Requirement: 3 mL whole blood in an EDTA lavender top tube; Refrigerated Methodology: Polymerase Chain Reaction (PCR), Single Nucleotide Extension (SNE), Fragment Analysis Reference Range: Refer to report Days Performed: Varies Reported: 11 - 15 days CPT: 81400, 81401, 81479 Price: \$615.00 (non-discountable)	5/2/2013
Achondroplasia (FGFR3), 2 Mutations	ADPLAS	89371	Includes: c.1138 G>A, c.1138 G>C Specimen Requirement: 3 mL whole blood in an EDTA lavender top tube; Refrigerated Methodology: Polymerase Chain Reaction, Fluorescence Resonance Energy Transfer Reference Range: Refer to report Days Performed: Monday, Thursday Reported: 3 - 8 days CPT: 81401 Price: \$360.00 (non-discountable)	5/2/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
AChR, Striated Muscle, Titin Antibodies with reflex	ACESTR	89405	<p>Includes:</p> <ul style="list-style-type: none"> Acetylcholine Receptor Binding Antibody Acetylcholine Receptor Blocking Antibody Acetylcholine Modulating Antibody (if indicated) Titin Antibody Striated Muscle Antibody IgG Striated Muscle Antibody IgG Titer (if indicated) <p>Special Information: If Acetylcholine Receptor Binding Antibody result is greater than 0.4 nmol/L or Acetylcholine Receptor Blocking Antibody result is greater than 15%, then Acetylcholine Receptor Modulating Antibody will be added at an additional charge. If Striated Muscle Antibody is greater than or equal to 1:40, then a titer will be added at an additional charge.</p> <p>Specimen Requirement: 1.5 mL serum from a serum separator tube; Separate serum from cells ASAP or within 1 hour of collection; Refrigerated</p> <p>Methodology:</p> <ul style="list-style-type: none"> Enzyme-Linked Immunosorbent Assay (ELISA) Quantitative Radioimmunoassay (RIA) Semi-Quant Radioreceptor Assay Semi-Quant Indirect fluorescent Antibody (IFA) <p>Reference Range:</p> <p>Acetylcholine Receptor Binding Antibody</p> <ul style="list-style-type: none"> Negative: 0.0 - 0.4 nmol/L Positive: ≥ 0.5 nmol/L <p>Acetylcholine Receptor Blocking Antibody</p> <ul style="list-style-type: none"> Negative: 0 - 15% blocking Indeterminate: 16 - 24% blocking Positive: $\geq 25\%$ blocking <p>Titin Antibody</p> <ul style="list-style-type: none"> Negative: 0.00 - 0.45 IV Indeterminate: 0.46 - 0.71 IV Positive: ≥ 0.72 IV <p>Striated Muscle Antibody IgG Screen: < 1:40 No antibody detected</p> <p>Days Performed: Monday - Friday</p> <p>Reported: 2 - 9 days</p> <p>CPT: 83519, 83516x2, 86255</p> <p>Price: \$205.00 (non-discountable)</p>	5/2/2013
Adenovirus Antibody, IgG	ADNOIG	89453	<p>Specimen Requirement: 1 mL serum from a serum separator tube; Separate serum from cells ASAP or within 2 hours of collection; Refrigerated</p> <p>Methodology: Enzyme-Linked Immunosorbent Assay (ELISA)</p> <p>Reference Range:</p> <ul style="list-style-type: none"> Negative: ≤ 0.89 IV Equivocal: 0.90 - 1.10 IV Positive: ≥ 1.11 IV <p>Days Performed: Monday, Wednesday, Friday</p> <p>Reported: 2 - 5 days</p> <p>CPT: 86603</p> <p>Price: \$55.00 (non-discountable)</p>	5/2/2013
Adenovirus Antibody, IgM	ADNOIM	89452	<p>Specimen Requirement: 1 mL serum from a serum separator tube; Separate serum from cells ASAP or within 2 hours of collection; Refrigerated</p> <p>Methodology: Enzyme-Linked Immunosorbent Assay (ELISA)</p> <p>Reference Range:</p> <ul style="list-style-type: none"> Negative: ≤ 0.89 IV Equivocal: 0.90 - 1.10 IV Positive: ≥ 1.11 IV <p>Days Performed: Monday, Wednesday, Friday</p> <p>Reported: 2 - 7 days</p> <p>CPT: 86603</p> <p>Price: \$55.00 (non-discountable)</p>	5/2/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
Adenovirus 40 - 41 Antigens, EIA	SADNO	89283	Specimen Requirement: 5 grams stool in a sterile container; Frozen Methodology: Enzyme Immunoassay (EIA) Reference Range: Negative Days Performed: Sunday - Saturday Reported: 2 - 3 days CPT: 87301 Price: \$59.00 (non-discountable)	5/2/2013
Aldosterone/Renin Activity Ratio	ALDREN	89389	Includes: Aldosterone, Renin, Aldosterone/Renin Ratio Specimen Requirement: 1mL plasma from an EDTA lavender top tube; Separate plasma from cells within 60 minutes of collection; Patients who have received radioactive isotopes within 48 hours of collection can not be tested; Critical Frozen Methodology: Radioimmunoassay (RIA) Reference Range: Aldosterone: 0 - 30 days: Not established 1 - 12 months: 5.8 - 110.0 ng/dL 1 - 5 years: 2.5 - 36.0 ng/dL 6 - 9 years: 1.0 - 24.0 ng/dL 10 - 11 years: 2.0 - 15.0 ng/dL 12 - 14 years: 1.0 - 22.0 ng/dL 15 - 17 years: 1.0 - 32.0 ng/dL 18 - 99 years: 4.5 - 35.4 ng/dL Renin: 0 - 7 days: 0 - 40.0 µg/L/hr 8 - 30 days: 0 - 175.0 µg/L/hr 1 - 2 months: Not established 3 - 12 months: 0 - 15.0 µg/L/hr 1 - 4 years: 0 - 10.0 µg/L/hr 5 - 15 years: 0 - 6.0 µg/L/hr 16 - 99 years, Upright: 0.8 - 5.8 µg/L/hr 16 - 99 years, Supine: 0.5 - 1.8 µg/L/hr Aldosterone/Renin Ratio: < 20 Days Performed: Tuesday, Thursday Reported: 2 - 7 days CPT: 84244, 82088 Price: \$195.00	5/2/2013
Allergen, Almond IgG	ALMIGG	88731	Specimen Requirement: 0.3 mL serum from a serum separator tube; Ambient Methodology: ImmunoCAP Reference Range: < 2.0 µg/mL Days Performed: Sunday, Wednesday, Friday Reported: 2 - 4 days CPT: 86001 Price: \$45.00 (non-discountable)	5/2/2013
Allergen, Barley (Food) IgG	BARIGG	88454	Specimen Requirement: 0.3 mL serum from a serum separator tube; Ambient Methodology: ImmunoCAP Reference Range: < 2.0 µg/mL Days Performed: Sunday, Wednesday, Friday Reported: 2 - 4 days CPT: 86001 Price: \$45.00 (non-discountable)	5/2/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
Allergen, Beef IgG	BEEFIG	89471	Specimen Requirement: 0.3 mL serum from a serum separator tube; Ambient Methodology: ImmunoCAP Reference Range: < 2.0 µg/mL Days Performed: Sunday, Wednesday, Friday Reported: 2 - 4 days CPT: 86001 Price: \$45.00 (non-discountable)	5/2/2013
Allergen, Cacao (Chocolate) IgG	CHOIGG	89480	Specimen Requirement: 0.3 mL serum from a serum separator tube; Ambient Methodology: ImmunoCAP Reference Range: < 2.0 µg/mL Days Performed: Sunday, Wednesday, Friday Reported: 2 - 4 days CPT: 86001 Price: \$45.00 (non-discountable)	5/2/2013
Allergen, Casein IgG	CSNIGG	89469	Specimen Requirement: 0.3 mL serum from a serum separator tube; Ambient Methodology: ImmunoCAP Reference Range: < 2.0 µg/mL Days Performed: Sunday, Wednesday, Friday Reported: 2 - 4 days CPT: 86001 Price: \$45.00 (non-discountable)	5/2/2013
Allergen, Chicken Meat IgG	CHIIGG	89468	Specimen Requirement: 0.3 mL serum from a serum separator tube; Ambient Methodology: ImmunoCAP Reference Range: < 2.0 µg/mL Days Performed: Sunday, Wednesday, Friday Reported: 2 - 4 days CPT: 86001 Price: \$45.00 (non-discountable)	5/2/2013
Allergen, Corn IgG	CORIGG	89467	Specimen Requirement: 0.3 mL serum from a serum separator tube; Ambient Methodology: ImmunoCAP Reference Range: < 2.0 µg/mL Days Performed: Sunday, Wednesday, Friday Reported: 2 - 4 days CPT: 86001 Price: \$45.00 (non-discountable)	5/2/2013
Allergen, Egg White IgG	EGWIGG	89373	Specimen Requirement: 0.3 mL serum from a serum separator tube; Ambient Methodology: ImmunoCAP Reference Range: < 2.0 µg/mL Days Performed: Sunday, Wednesday, Friday Reported: 2 - 4 days CPT: 86001 Price: \$45.00 (non-discountable)	5/2/2013
Allergen, Lettuce IgG	LETIGG	89473	Specimen Requirement: 0.3 mL serum from a serum separator tube; Ambient Methodology: ImmunoCAP Reference Range: < 2.0 µg/mL Days Performed: Sunday, Wednesday, Friday Reported: 2 - 4 days CPT: 86001 Price: \$45.00 (non-discountable)	5/2/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
Allergen, Malt IgG	MLTIGG	89476	Specimen Requirement: 0.3 mL serum from a serum separator tube; Ambient Methodology: ImmunoCAP Reference Range: < 2.0 µg/mL Days Performed: Sunday, Wednesday, Friday Reported: 2 - 4 days CPT: 86001 Price: \$45.00 (non-discountable)	5/2/2013
Allergen, Oat IgG	OATIGG	89280	Specimen Requirement: 0.3 mL serum from a serum separator tube; Ambient Methodology: ImmunoCAP Reference Range: < 2.0 µg/mL Days Performed: Sunday, Wednesday, Friday Reported: 2 - 4 days CPT: 86001 Price: \$45.00 (non-discountable)	5/2/2013
Allergen, Orange IgG	ORAIGG	89475	Specimen Requirement: 0.3 mL serum from a serum separator tube; Ambient Methodology: ImmunoCAP Reference Range: < 2.0 µg/mL Days Performed: Sunday, Wednesday, Friday Reported: 2 - 4 days CPT: 86001 Price: \$45.00 (non-discountable)	5/2/2013
Allergen, Peanut IgG	PNTIGG	89474	Specimen Requirement: 0.3 mL serum from a serum separator tube; Ambient Methodology: ImmunoCAP Reference Range: < 2.0 µg/mL Days Performed: Sunday, Wednesday, Friday Reported: 2 - 4 days CPT: 86001 Price: \$45.00 (non-discountable)	5/2/2013
Allergen, Pork IgG	PORKIG	89195	Specimen Requirement: 0.3 mL serum from a serum separator tube; Ambient Methodology: ImmunoCAP Reference Range: < 2.0 µg/mL Days Performed: Sunday, Wednesday, Friday Reported: 2 - 4 days CPT: 86001 Price: \$45.00 (non-discountable)	5/2/2013
Allergen, Potato IgG	POTIGG	89481	Specimen Requirement: 0.3 mL serum from a serum separator tube; Ambient Methodology: ImmunoCAP Reference Range: < 2.0 µg/mL Days Performed: Sunday, Wednesday, Friday Reported: 2 - 4 days CPT: 86001 Price: \$45.00 (non-discountable)	5/2/2013
Allergen, Rice IgG	RICIGG	88474	Specimen Requirement: 0.3 mL serum from a serum separator tube; Ambient Methodology: ImmunoCAP Reference Range: < 2.0 µg/mL Days Performed: Sunday, Wednesday, Friday Reported: 2 - 4 days CPT: 86001 Price: \$45.00 (non-discountable)	5/2/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
Allergen, Rye IgG	RYEIGG	89477	Specimen Requirement: 0.3 mL serum from a serum separator tube; Ambient Methodology: ImmunoCAP Reference Range: < 2.0 µg/mL Days Performed: Sunday, Wednesday, Friday Reported: 2 - 4 days CPT: 86001 Price: \$45.00 (non-discountable)	5/2/2013
Allergen, Soybean IgG	SOYIGG	89479	Specimen Requirement: 0.3 mL serum from a serum separator tube; Ambient Methodology: ImmunoCAP Reference Range: < 2.0 µg/mL Days Performed: Sunday, Wednesday, Friday Reported: 2 - 4 days CPT: 86001 Price: \$45.00 (non-discountable)	5/2/2013
Allergen, Tomato IgG	TOMIGG	89472	Specimen Requirement: 0.3 mL serum from a serum separator tube; Ambient Methodology: ImmunoCAP Reference Range: < 2.0 µg/mL Days Performed: Sunday, Wednesday, Friday Reported: 2 - 4 days CPT: 86001 Price: \$45.00 (non-discountable)	5/2/2013
Allergen, Wheat IgG	WHTIGG	89470	Specimen Requirement: 0.3 mL serum from a serum separator tube; Ambient Methodology: ImmunoCAP Reference Range: < 2.0 µg/mL Days Performed: Sunday, Wednesday, Friday Reported: 2 - 4 days CPT: 86001 Price: \$45.00 (non-discountable)	5/2/2013
Allergen, Yeast (Bakers/Brewers) IgG	YEAIGG	89478	Specimen Requirement: 0.3 mL serum from a serum separator tube; Ambient Methodology: ImmunoCAP Reference Range: < 2.0 µg/mL Days Performed: Sunday, Wednesday, Friday Reported: 2 - 4 days CPT: 86001 Price: \$45.00 (non-discountable)	5/2/2013
Alpha Fetoprotein, CSF (Tumor Marker)	AFPCSF	89490	Special Information: The Beckman Coulter Access Dxl AFP method is used. Results obtained with different assay methods or kits cannot be used interchangeably. AFP is a valuable aid in the management of nonseminomatous testicular cancer patients when used in conjunction with information available from the clinical evaluation and other diagnostic procedures. Increased AFP concentrations have also been observed in ataxia telangiectasia, hereditary tyrosinemia, primary hepatocellular carcinoma, teratocarcinoma, gastrointestinal tract cancers with and without liver metastases, and in benign hepatic conditions such as acute viral hepatitis, chronic active hepatitis, and cirrhosis. The result cannot be interpreted as absolute evidence of the presence or absence of malignant disease. The result is not interpretable as a tumor marker in pregnant females. This test is FDA cleared but is not labeled for use with CSF. Specimen Requirement: 0.5 mL cerebrospinal fluid (CSF) in a sterile container; Refrigerated Methodology: Chemiluminescence Immunoassay (CLIA) Reference Range: ≥ 18 years: 0 - 1 ng/mL Days Performed: Sunday - Saturday Reported: 2 - 3 days CPT: 86316 Price: \$63.00 (non-discountable)	5/2/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
Alpha Galactosidase, Serum	ALPGAL	89506	Special Information: Enzyme testing is reliable for diagnosing Fabry disease in males; it does not detect carriers. For carrier status, DNA analysis is recommended. Specimen Requirement: 2 mL serum from a serum separator tube; Frozen Methodology: Fluorimetry (FLM) Reference Range: Refer to report Days Performed: Varies Reported: 16 - 23 days CPT: 82657 Price: \$382.00 (non-discountable)	5/2/2013
Amniotic Bilirubin Scan	AMBILI	89396	Specimen Requirement: 3 mL amniotic fluid in a clean container; Protect from light during collection, storage, and shipment; Refrigerated Methodology: Spectrophotometry Reference Range: Normal: ≤ 0.02 OD (depends on gestational age) Days Performed: Sunday - Saturday Reported: 2 - 3 days CPT: 82143 Price: \$65.00 (non-discountable)	5/2/2013
Anaplasma phagocytophilum (HGA) Antibodies, IgG & IgM	ANIGM	89283	Specimen Requirement: 0.5 mL serum from a serum separator tube; Refrigerated Methodology: Indirect Fluorescent Antibody (IFA) Reference Range: A. phagocytophilum IgG: < 1:80 - No significant level of IgG antibodies detected $\geq 1:80$ - Suggestive of a recent or past infection A. phagocytophilum IgM: < 1:16 - No significant level of IgM antibodies detected $\geq 1:16$ - Suggestive of a current or recent infection Days Performed: Tuesday, Friday Reported: 2 - 6 days CPT: 86666x2 Price: \$206.00 (non-discountable)	5/2/2013
Anti-IgA Antibody	ANTGA	89507	Specimen Requirement: 1 mL serum from a serum separator tube; Refrigerated Methodology: Enzyme-Linked Immunosorbent Assay (ELISA) Reference Range: Refer to report Days Performed: Varies Reported: 4 - 11 days CPT: 83520 Price: \$220.00 (non-discountable)	5/2/2013
Ashkenazi Jewish Diseases	AJPWO	89458	Includes: Bloom (BLM), Canavan (ASPA), Familial Dysautonomia (IKBKAP), Fanconi Anemia Group C (FANCC), Gaucher (GBA), Mucopolidosis IV (MCOLN1), Niemann-Pick Type-A (SMPD1), Tay-Sachs (HEXA) Specimen Requirement: 3 mL whole blood in an EDTA lavender top tube; An ARUP Patient History Form for Molecular Genetic Testing is recommended; This form is available through Client Services at 800.628.6816 or 216.444.5755; Refrigerated Methodology: Polymerase Chain Reaction, Allele-specific Primer Extension (ASPE) Bead Array Reference Range: Refer to report Days Performed: Tuesday, Thursday Reported: 8 - 11 days CPT: 81209, 81200, 81260, 81242, 81251, 81290, 81330, 81255 Price: \$800.00 (non-discountable)	5/2/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
Aspergillus Antibody, CF	ASRPCF	89492	Specimen Requirement: 0.3 mL serum from a serum separator tube; Refrigerated Methodology: Complement Fixation (CF) Reference Range: Negative: < 1:8 titer Days Performed: Monday, Wednesday Reported: 2 - 7 days CPT: 86606 Price: \$64.00	5/2/2013
Aspergillus Antibody, ID	ASPRID	89493	Specimen Requirement: 0.3 mL serum from a serum separator tube; Refrigerated Methodology: Immunodiffusion (ID) Reference Range: Negative Days Performed: Monday, Wednesday Reported: 2 - 7 days CPT: 86606 Price: \$64.00	5/2/2013
Aspergillus fumigatus Antibody, IgG by ELISA	ASPIGG	89460	Specimen Requirement: 1 mL serum from a red top tube; Separate serum from cells ASAP or within 2 hours of collection; Refrigerated Methodology: Enzyme-Linked Immunosorbent Assay (ELISA) Reference Range: Negative: 0.00 - 10.00 U/mL Equivocal: 10.01 - 12.00 U/mL Positive: ≥ 12.01 U/mL Days Performed: Tuesday, Friday Reported: 2 - 6 days CPT: 86601 Price: \$106.00 (non-discountable)	5/2/2013
B-Cell CD20 Expression	CD20	89279	Special Information: Specimen should be received by the performing lab within 48 hours of collection for optimal viable testing. Provide CBC, Wright's stained smear, clinical history, differential diagnosis, and any relevant pathology reports. Includes: % CD19, % CD20 Specimen Requirement: 5 mL whole blood in a sodium heparin green top tube; Send specimen to Cleveland Clinic Laboratories on the day of collection to be received by 1 pm EST; Ambient Methodology: Flow Cytometry (FC) Reference Range: Refer to report Days Performed: Sunday - Saturday Reported: 2 - 3 days CPT: 88184, 88185 Price: \$210.00 (non-discountable)	5/2/2013
Benzene Quantitation, Whole Blood	BENZE	89447	Specimen Requirement: 2 mL whole blood in an EDTA lavender top tube; Refrigerated Methodology: Gas Chromatography (GC) Reference Range: Refer to report Days Performed: Varies Reported: 4 - 7 days CPT: 84600 Price: \$128.00 (non-discountable)	5/2/2013
Bile Acids, Total	BILETO	89395	Specimen Requirement: 1 mL serum from a serum separator tube; Allow specimen to clot completely at room temperature before centrifugation; Refrigerated Methodology: Enzymatic Reference Range: 0 - 10 µmol/L Days Performed: Sunday - Saturday Reported: 2 - 3 days CPT: 82239 Price: \$85.00 (non-discountable)	5/2/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
Blastomyces Antibody, CF	BLSTCF	89427	Specimen Requirement: 0.3 mL serum from a serum separator tube; Refrigerated Methodology: Complement Fixation (CF) Reference Range: Negative: < 1:8 titer Days Performed: Monday, Wednesday Reported: 2 - 7 days CPT: 86612 Price: \$54.00	5/2/2013
Blastomyces Antibody, ID	BLSTID	89429	Specimen Requirement: 0.3 mL serum from a serum separator tube; Refrigerated Methodology: Immunodiffusion (ID) Reference Range: Negative Days Performed: Monday, Wednesday Reported: 2 - 7 days CPT: 86612 Price: \$54.00	5/2/2013
Blastomyces Antigen	BLAS	89393	Specimen Requirement: 2 mL serum from a serum separator tube; Specimen source must be indicated; Refrigerated Methodology: Enzyme Immunoassay (EIA) Reference Range: None Detected Days Performed: Monday - Friday Reported: 4 - 9 days CPT: 87449 Price: \$155.00 (non-discountable)	5/2/2013
Bordetella pertussis Antibody, IgA & IgG, reflex to IB	BPIAG	89404	Special Information: If Bordetella pertussis Antibody, IgA by ELISA is ≥ 1.2 U/mL, then Bordetella pertussis IgA Immunoblot testing will be added at an additional charge. If Bordetella pertussis Antibody, IgG by ELISA is ≥ 2.5 U/mL, then Bordetella pertussis IgG Immunoblot testing will be added at an additional charge. Included: Bordetella pertussis Antibody, IgA Bordetella pertussis Antibody, IgG Bordetella pertussis Antibody, IgA by Immunoblot (if indicated) Bordetella pertussis Antibody, IgG by Immunoblot (if indicated) Specimen Requirement: 1 mL serum from a serum separator tube; Separate serum from cells ASAP or within 2 hours of collection; Refrigerated Methodology: Enzyme-Linked Immunosorbent Assay (ELISA) Reference Range: B pertussis IgA: Negative: ≤ 0.9 U/mL Equivocal: 1.0 - 1.1 U/mL Positive: ≥ 1.2 U/mL B pertussis IgG: Negative: ≤ 0.9 U/mL Equivocal: 1.0 - 2.4 U/mL Positive: ≥ 2.5 U/mL Days Performed: Tuesday Reported: 2 - 9 days CPT: 86615x2 Price: \$122.00 (non-discountable)	5/2/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
Bordetella pertussis Antibody, IgG & IgM, reflex to IB	BPIMG	89406	<p>Special Information: If Bordetella pertussis Antibody, IgG by ELISA is ≥ 2.5 U/mL, then Bordetella pertussis IgG Immunoblot testing will be added at an additional charge. If Bordetella pertussis Antibody, IgM by ELISA is ≥ 1.2 U/mL, then Bordetella pertussis IgM Immunoblot testing will be added at an additional charge.</p> <p>Included:</p> <ul style="list-style-type: none"> Bordetella pertussis Antibody, IgG Bordetella pertussis Antibody, IgM Bordetella pertussis Antibody, IgG by Immunoblot (if indicated) Bordetella pertussis Antibody, IgM by Immunoblot (if indicated) <p>Specimen Requirement: 1 mL serum from a serum separator tube; Separate serum from cells ASAP or within 2 hours of collection; Refrigerated</p> <p>Methodology: Enzyme-Linked Immunosorbent Assay (ELISA)</p> <p>Reference Range:</p> <ul style="list-style-type: none"> B pertussis IgG: Negative: ≤ 0.9 U/mL Equivocal: 1.0 - 2.4 U/mL Positive: ≥ 2.5 U/mL B pertussis IgM: Negative: ≤ 0.9 U/mL Equivocal: 1.0 - 1.1 U/mL Positive: ≥ 1.2 U/mL <p>Days Performed: Tuesday</p> <p>Reported: 2 - 9 days</p> <p>CPT: 86615x2</p> <p>Price: \$122.00 (non-discountable)</p>	5/2/2013
Brucella Antibody (Total) by Agglutination	BRUAGG	89459	<p>Special Information: Cross-reactions may occur between Brucella and F. tularensis antigens and antisera; therefore, parallel tests should be run with these antigens. A fourfold rise in titer is considered diagnostic. A single serum titer of 1:80 or 1:160 is suggestive of brucellosis when accompanied by a compatible clinical course in a patient with a history of potential exposures.</p> <p>Specimen Requirement: 1 mL serum from a serum separator tube; Separate serum from cells ASAP or within 2 hours of collection; Mark specimen plainly as acute or convalescent; Refrigerated</p> <p>Methodology: Semi-Quantitative Agglutination</p> <p>Reference Range: Negative: $< 1:20$</p> <p>Days Performed: Monday - Friday</p> <p>Reported: 3 - 5 days</p> <p>CPT: 86622</p> <p>Price: \$85.00 (non-discountable)</p>	5/2/2013
Campylobacter Antigen	CAMPAG	89402	<p>Specimen Requirement: 5 grams of stool in a sterile container; Refrigerated</p> <p>Methodology: Immunochromatography</p> <p>Reference Range: Negative</p> <p>Days Performed: Sunday - Saturday</p> <p>Reported: 2 - 3 days</p> <p>CPT: 87899</p> <p>Price: \$73.00 (non-discountable)</p>	5/2/2013
Campylobacter jejuni Antibody, IgG	CAMIGG	89376	<p>Specimen Requirement: 1 mL serum from a serum separator tube; Separate serum from cells ASAP or within 2 hours of collection; Refrigerated</p> <p>Methodology: Indirect Fluorescent Antibody (IFA)</p> <p>Reference Range: Negative: $< 1:320$</p> <p>Positive: $\geq 1:320$</p> <p>Days Performed: Thursday</p> <p>Reported: 2 - 9 days</p> <p>CPT: 86625</p> <p>Price: \$162.00 (non-discountable)</p>	5/2/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
Carbamazepine & Metabolite	CARBME	89353	Includes: Carbamazepine Carbamazepine 10,11-Epoxyde Specimen Requirement: 3 mL plasma from a sodium or lithium heparin green top tube; Refrigerated Methodology: Fluorescence Polarization Immunoassay (FPIA) High Performance Liquid Chromatography (HPLC) Reference Range: Carbamazepine: 8.0 - 12.0 µg/mL Carbamazepine 10,11-Epoxyde: 1.4 -5.9 µg/mL Days Performed: Carbamazepine: Sunday - Saturday Carbamazepine 10,11-Epoxyde: Friday Reported: 1 - 8 days CPT: 80156, 82491 Price: \$139.00	5/2/2013
Carotenes, Fractionated	CAROTF	89343	Includes: Alpha Carotene, Beta Carotene, Lutein, Zeaxanthin Specimen Requirement: 1 mL serum from a serum separator tube; Patient should be fasting overnight for 12 hours and should not consume alcohol for 24 hours prior to collection; Specimen MUST be protected from light. Serum should be separated from cells within 2 hours of collection; Frozen Methodology: High Performance Liquid Chromatography (HPLC) Reference Range: Alpha Carotene: 9 - 101 µg/mL Beta Carotene: 42 - 373 µg/mL Lutein: 50 - 250 µg/mL Zeaxanthin: 8 - 80 µg/mL Days Performed: Monday, Wednesday, Friday Reported: 2 - 6 days CPT: 82380 Price: \$93.00 (non-discountable)	5/2/2013
Coccidioides Antibody, CF	COCICF	89494	Specimen Requirement: 0.3 mL serum from a serum separator tube; Refrigerated Methodology: Complement Fixation (CF) Reference Range: Negative: < 1:2 titer Days Performed: Monday, Wednesday Reported: 2 - 7 days CPT: 86635 Price: \$48.00	5/2/2013
Coccidioides Antibody, ID	COCIID	89495	Specimen Requirement: 0.3 mL serum from a serum separator tube; Refrigerated Methodology: Immunodiffusion (ID) Reference Range: Negative Days Performed: Monday, Wednesday Reported: 2 - 7 days CPT: 86635 Price: \$48.00	5/2/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
Cortisol, Plasma	PCORT	89351	<p>Specimen Requirement: 1 mL plasma from a sodium or lithium heparin green top tube; Separate plasma from cells ASAP or within 2 hours of collection; Refrigerated</p> <p>Methodology: Chemiluminescence Immunoassay (CLIA)</p> <p>Reference Range: 08:00 hours: 6-23 µg/dL 20:00 hours: 0-9 µg/dL 8 hours post 1 mg dexamethasone given at midnight: 0-5 µg/dL 30 - 60 minutes post 25 units Cosyntropin I.V.: > 20 µg/dL (To convert to nmol/L, multiply µg/dL by 27.6)</p> <p>Days Performed: Sunday - Saturday</p> <p>Reported: 2 - 3 days</p> <p>CPT: 82533</p> <p>Price: \$77.00 (non-discountable)</p>	5/2/2013
Cryoglobulin, Qual, with reflex to IgA, IgG, and IgM	CRYQL	89356	<p>Special Information: The sample is examined daily for the presence or absence of cryoglobulin. If after 3 days cryoprecipitate is observed, then quantitative immunoglobulins (IgA, IgM and IgG) will be added at an additional cost.</p> <p>Includes: Cryoglobulin Qualitative IgA Quantitative (if indicated) IgG Quantitative (if indicated) IgM Quantitative (if indicated)</p> <p>Specimen Requirement: 3 mL serum from a PRE WARMED red top tube; Maintain tube at 37°C until clotting is complete (up to 1 hour); Separate serum from cells ASAP; Ambient</p> <p>Methodology: Qualitative Cold Precipitation</p> <p>Reference Range: Negative at 72 hours</p> <p>Days Performed: Sunday - Saturday</p> <p>Reported: 4 - 6 days</p> <p>CPT: 82595</p> <p>Price: \$52.00 (non-discountable)</p>	5/2/2013
Cryptococcus Antibody	CRYPAB	89349	<p>Specimen Requirement: 1 mL serum from a red top tube; Refrigerated</p> <p>Methodology: Indirect Fluorescent Antibody (IFA)</p> <p>Reference Range: Refer to report</p> <p>Days Performed: Varies</p> <p>Reported: 4 - 8 days</p> <p>CPT: 86641</p> <p>Price: \$122.00 (non-discountable)</p>	5/2/2013
Cystic Fibrosis (CFTR) Sequencing	CFSEQ	89347	<p>Includes: Mutations Detected: Base pair substitutions and small deletions/duplications within the coding region and intron-exon boundaries; additionally, two deep intronic mutations (3849+10kb C>T and 1811+1.6kb A>G)</p> <p>Specimen Requirement: 3 mL whole blood in an EDTA lavender top tube; "Patient History for Cystic Fibrosis (CF) Gene Sequencing Testing" form is required with the specimen; Call Cleveland Clinic Laboratories Client Services at 800.628.6816 or 216.444.5755 for this form; Refrigerated</p> <p>Methodology: Polymerase Chain Reaction (PCR), Sequencing</p> <p>Reference Range: Refer to report</p> <p>Days Performed: Monday - Saturday</p> <p>Reported: 20 - 29 days</p> <p>CPT: 81223</p> <p>Price: \$1,300.00 (non-discountable)</p>	5/2/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
Cytomegalovirus Antiviral Drug Resistance	CYTOSQ	89289	<p>Special Information: Codons 457 - 630 of the UL97 gene and codons 393 - 1000 of the UL54 gene are sequenced. Mutations associated with resistance to ganciclovir, cidofovir, and foscarnet are reported. Mutations in viral sub-populations below 20 percent of total may not be detected. This test may be unsuccessful if the plasma CMV DNA viral load is less than 1,500 CMV DNA copies per mL of plasma.</p> <p>Includes: Cidofovir Resistance Foscarnet Resistance Ganciclovir Resistance</p> <p>Specimen Requirement: 4 mL plasma from an EDTA lavender top tube; Frozen</p> <p>Methodology: Polymerase Chain Reaction, Sequencing</p> <p>Reference Range: Refer to report</p> <p>Days Performed: Sunday - Saturday</p> <p>Reported: 3 - 4 days</p> <p>CPT: 87910</p> <p>Price: \$770.00 (non-discountable)</p>	5/2/2013
Entamoeba histolytica Antigen	ENTEIA	89508	<p>Specimen Requirement: 5 grams of stool in a sterile container; Frozen</p> <p>Methodology: Enzyme Immunoassay (EIA)</p> <p>Reference Range: Negative</p> <p>Days Performed: Sunday - Saturday</p> <p>Reported: 2 - 3 days</p> <p>CPT: 87337</p> <p>Price: \$99.00 (non-discountable)</p>	5/2/2013
Ethyl Glucuronide, Urine with reflex to Confirm/Quant	UEGLUC	89509	<p>Specimen Requirement: 3 mL urine from a random collection in a clean container; Refrigerated</p> <p>Methodology: Enzyme Immunoassay (EIA)</p> <p>Reference Range: Refer to report</p> <p>Days Performed: Varies</p> <p>Reported: 4 - 6 days</p> <p>CPT: 80101</p> <p>Price: \$145.00 (non-discountable)</p>	5/2/2013
FISH for Myeloproliferative Neoplasms Panel	MPNFSH	89510	<p>Includes: FISH for BCR/ABL FISH for PDGFRA FISH for PDGFRB Rearrangement FISH for FGFR1</p> <p>Specimen Requirement: 5 mL whole blood in an EDTA lavender top tube; Ambient</p> <p>Methodology: Fluorescent In-Situ Hybridization (FISH)</p> <p>Reference Range: FISH for BCR/ABL: Refer to report FISH for PDGFRA: Negative for rearrangement FISH for PDGFRB: Negative for rearrangement FISH for FGFR1: Negative</p> <p>Days Performed: 3 days per week</p> <p>Reported: 10 days</p> <p>CPT: 88368x5, 88367x4</p> <p>Price: \$3,483.00 (non-discountable)</p>	4/30/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
FSH, Tanner	FSHTAN	89443	<p>Specimen Requirement: 1 mL plasma from a lithium heparin green top tube; Refrigerated</p> <p>Methodology: Electro Chemiluminescence Immunoassay (ECLIA)</p> <p>Reference Range:</p> <p>Female:</p> <p>28 days - 5 months: 0.2 - 14.2 IU/L</p> <p>6 months - 2 years: 1.4 - 8.0 IU/L</p> <p>3 - 4 years: 0.6 - 5.0 IU/L</p> <p>5 - 6 years: 0.5 - 3.2 IU/L</p> <p>7 - 9 years: 0.4 - 4.4 IU/L</p> <p>10 - 12 years: 0.7 - 8.3 IU/L</p> <p>13 - 15 years: 1.0 - 9.1 IU/L</p> <p>16 - 17 years: 0.4 - 9.9 IU/L</p> <p>≥ 18 years: Follicular: 3.5 - 12.5 IU/L</p> <p>Mid-Cycle: 4.7 - 21.5 IU/L</p> <p>Luteal: 1.7 - 7.7 IU/L</p> <p>Postmenopausal: 25.8 - 134.8 IU/L</p> <p>Tanner Stage I: 0.6 - 8.4 IU/L</p> <p>Tanner Stage II: 0.6 - 8.9 IU/L</p> <p>Tanner Stage III: 0.5 - 8.9 IU/L</p> <p>Tanner Stage IV - V: 0.7 - 9.3 IU/L</p> <p>Male:</p> <p>28 days - 5 months: 0.2 - 4.1 IU/L</p> <p>6 months - 2 years: 0.3 - 2.2 IU/L</p> <p>3 - 4 years: 0.3 - 2.3 IU/L</p> <p>5 - 6 years: 0.3 - 2.0 IU/L</p> <p>7 - 9 years: 0.3 - 2.6 IU/L</p> <p>10 - 12 years: 0.5 - 4.9 IU/L</p> <p>13 - 15 years: 1.1 - 7.4 IU/L</p> <p>16 - 17 years: 0.9 - 7.8 IU/L</p> <p>≥ 18 years: 1.5 - 12.4 IU/L</p> <p>Tanner Stage I: 0.3 - 2.9 IU/L</p> <p>Tanner Stage II: 0.5 - 4.8 IU/L</p> <p>Tanner Stage III: 1.0 - 6.4 IU/L</p> <p>Tanner Stage IV - V: 1.0 - 8.1 IU/L</p> <p>Days Performed: Sunday - Saturday</p> <p>Reported: 8 hours</p> <p>CPT: 83001</p> <p>Price: \$48.00</p>	5/2/2013
Fungal Antibodies by CF, CSF	FABCSF	89482	<p>Includes:</p> <p>Aspergillus Antibodies</p> <p>Blastomyces Antibody</p> <p>Coccidioides Antibody</p> <p>Histoplasma Mycelia</p> <p>Histoplasma Yeast</p> <p>Specimen Requirement: 1 mL cerebrospinal fluid (CSF) in a sterile container; Grossly bloody or hemolyzed specimens are not acceptable; Refrigerated</p> <p>Methodology: Semi-Quantitative Complement Fixation (CF)</p> <p>Reference Range:</p> <p>Aspergillus Antibodies: < 1:2</p> <p>Blastomyces Antibody: < 1:2</p> <p>Coccidioides Antibody: < 1:2</p> <p>Histoplasma Mycelia: < 1:2</p> <p>Histoplasma Yeast: < 1:2</p> <p>Days Performed: Sunday - Friday</p> <p>Reported: 3 - 5 days</p> <p>CPT: 86606, 86612, 86635, 86698x2</p> <p>Price: \$105.00 (non-discountable)</p>	5/2/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
Fungal Antibodies, CF	FUNCF	86431	Includes: Aspergillus Antibody Blastomyces Antibody Coccidioides Antibody Histoplasma Mycelial Antibody Histoplasma Yeast Antibody Specimen Requirement: 1.2 mL serum from a serum separator tube; Refrigerated Methodology: Complement Fixation (CF) Reference Range: Aspergillus Antibody: Negative: < 1:8 titer Blastomyces Antibody: Negative: < 1:8 titer Coccidioides Antibody: Negative: < 1:2 titer Histoplasma Mycelial Antibody: < 1:8 titer Histoplasma Yeast Antibody: < 1:8 titer Days Performed: Monday, Wednesday Reported: 2 - 7 days CPT: 86606, 86612, 86635, 86698x2 Price: \$272.00	5/2/2013
Fungal Antibodies, ID	FUNID	89430	Includes: Aspergillus Antibody Blastomyces Antibody Coccidioides Antibody Histoplasma Antibody Specimen Requirement: 1.2 mL serum from a serum separator tube; Refrigerated Methodology: Immunodiffusion (ID) Reference Range: Aspergillus Antibody: Negative Blastomyces Antibody: Negative Coccidioides Antibody: Negative Histoplasma Antibody: Negative Days Performed: Monday, Wednesday Reported: 2 - 7 days CPT: 86606, 86612, 86635, 86698 Price: \$219.00	5/2/2013
Gastric Analysis	GASTAN	89354	Specimen Requirement: 1 mL gastric fluid in a sterile container; Record collection time interval on the transport tube and request form; Refrigerated Methodology: Quantitative Titration Reference Range: Hydrogen ion concentration: 10 - 50 mmol/L Days Performed: Monday - Friday Reported: 2 - 5 days CPT: 82930 Price: \$50.00 (non-discountable)	5/2/2013
Growth Hormone, 60 Minutes	GH60MN	89352	Specimen Requirement: 1 mL serum from a serum separator tube; Specimen should be collected 60 minutes post dose of a 75 or 100 gram glucose dose; Separate serum from cells ASAP or within 2 hours of collection; Frozen Methodology: Chemiluminescence Immunoassay (CLIA) Reference Range: Refer to report Days Performed: Sunday - Saturday Reported: 2 - 3 days CPT: 83003 Price: \$55.00 (non-discountable)	5/2/2013
Growth Hormone, 120 Minutes	GH120	89341	Specimen Requirement: 1 mL serum from a serum separator tube; Specimen should be collected 120 minutes post dose of a 75 or 100 gram glucose dose; Separate serum from cells ASAP or within 2 hours of collection; Frozen Methodology: Chemiluminescence Immunoassay (CLIA) Reference Range: Refer to report Days Performed: Sunday - Saturday Reported: 2 - 3 days CPT: 83003 Price: \$55.00 (non-discountable)	5/2/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
HCV RNA bDNA Quant with HCV Quant reflex	HCVQNT	89360	<p>Special Information: If Hepatitis C Quantitative bDNA is less than 2.8 log IU/mL, then Hepatitis C Virus RNA Quantitative, Real Time PCR will be performed at an additional charge. This assay should not be used for blood donor screening, associated re-entry protocols, or for screening Human Cell, Tissues and Cellular Tissue-Based Products (HCT/P).</p> <p>Specimen Requirement: 2 mL serum from a serum separator tube; Separate serum from cells within 4 hours of collection; Frozen</p> <p>Methodology: Quantitative Branched Chain DNA</p> <p>Reference Range: Not detected</p> <p>Days Performed: Tuesday, Friday</p> <p>Reported: 4 - 10 days</p> <p>CPT: 87522</p> <p>Price: \$188.00 (non-discountable)</p>	5/2/2013
HemoQuant, Fecal	HEMOQN	89482	<p>Specimen Requirement: 1 gram stool in a sterile container; Patient should not ingest red meat or aspirin for at least 72 hours prior to collection; Refrigerated</p> <p>Methodology: Fluorescence Quantitation</p> <p>Reference Range: Refer to report</p> <p>Days Performed: Varies</p> <p>Reported: 4 - 6 days</p> <p>CPT: 84126</p> <p>Price: \$130.00 (non-discountable)</p>	5/2/2013
Hepatitis B Virus Genotyping	HBVGEN	89303	<p>Special Information: Please submit most recent viral load and test date, if available. This test may be unsuccessful if the HBV viral load is < log 3.0 or < 1,000 IU/mL plasma.</p> <p>Includes: Hepatitis B Genotype HBV Surface Antigen Mutations HBV RT Polymerase Mutations</p> <p>Specimen Requirement: 2 mL serum from a serum separator tube; Frozen</p> <p>Methodology: Polymerase Chain Reaction, Sequencing</p> <p>Reference Range: Refer to report</p> <p>Days Performed: Tuesday</p> <p>Reported: 11 - 15 days</p> <p>CPT: 87912</p> <p>Price: \$405.00 (non-discountable)</p>	5/2/2013
Heterophile Antibody (Inf. Mono) LA, with Titer reflex	HETAB	89417	<p>Special Information: If Heterophile Antibody is detected, than a titer will be added. Additional charges apply.</p> <p>Specimen Requirement: 1 mL serum from a serum separator tube; Separate serum from cells ASAP or within 2 hours of collection; Refrigerated</p> <p>Methodology: Latex Particle Agglutination (LPA)</p> <p>Reference Range: Negative</p> <p>Days Performed: Monday - Saturday</p> <p>Reported: 2 - 4 days</p> <p>CPT: 86308</p> <p>Price: \$54.00 (non-discountable)</p>	5/2/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
Hirsutism Evaluation	HIRSUT	89407	<p>Includes:</p> <ul style="list-style-type: none"> Dehydroepiandrosterone Sulfate Testosterone Testosterone, Free Sex Hormone Binding Globulin Androstenedione <p>Specimen Requirement: 1 mL serum from a serum separator tube; Separate serum from cells ASAP or within 2 hours of collection; Frozen</p> <p>Methodology:</p> <ul style="list-style-type: none"> Quantitative Chemiluminescent Immunoassay (CLIA) Electrochemiluminescent Immunoassay (ECLIA) Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS) <p>Reference Range:</p> <p>Androstenedione:</p> <p>Female:</p> <ul style="list-style-type: none"> Premature Infants, 26 - 28 weeks - day 4: 0.92 - 2.82 ng/mL Premature Infants, 31 - 35 weeks - day 4: 0.80 - 4.46 ng/mL Full-term Infants, 1 - 7 days: 0.20 - 2.90 ng/mL 8 - 30 days: 0.18 - 0.80 ng/mL 1 - 5 months: 0.06 - 0.68 ng/mL 6 - 24 months: < 0.15 ng/mL 2 - 3 years: < 0.16 ng/mL 4 - 5 years: 0.02 - 0.21 ng/mL 6 - 7 years: 0.02 - 0.28 ng/mL 8 - 9 years: 0.04 - 0.42 ng/mL 10 - 11 years: 0.09 - 1.23 ng/mL 12 - 13 years: 0.24 - 1.73 ng/mL 14 - 15 years: 0.39 - 2.00 ng/mL 16 - 17 years: 0.35 - 2.12 ng/mL 18 - 39 years: 0.26 - 2.14 ng/mL ≥ 40 years: 0.13 - 0.82 ng/mL Pre-menopausal: 0.26 - 2.14 ng/mL Postmenopausal: 0.13 - 0.82 ng/mL Tanner Stage I: 0.05 - 0.51 ng/mL Tanner Stage II: 0.15 - 1.37 ng/mL Tanner Stage III: 0.37 - 2.24 ng/mL Tanner Stage IV & V: 0.35 - 2.05 ng/mL <p>Male:</p> <ul style="list-style-type: none"> Premature Infants, 26 - 28 weeks - day 4: 0.92 - 2.82 ng/mL Premature Infants, 31 - 35 weeks - day 4: 0.80 - 4.46 ng/mL Full-term Infants, 1 - 7 days: 0.20 - 2.90 ng/mL 8 - 30 days: 0.18 - 0.80 ng/mL 1 - 5 months: 0.06 - 0.68 ng/mL 6 - 24 months: 0.03 - 0.15 ng/mL 2 - 3 years: < 0.11 ng/mL 4 - 5 years: 0.02 - 0.17 ng/mL 6 - 7 years: 0.01 - 0.29 ng/mL 8 - 9 years: 0.03 - 0.30 ng/mL 10 - 11 years: 0.07 - 0.39 ng/mL 12 - 13 years: 0.10 - 0.64 ng/mL 14 - 15 years: 0.18 - 0.94 ng/mL 16 - 17 years: 0.03 - 1.13 ng/mL 18 - 39 years: 0.33 - 1.34 ng/mL ≥ 40 years: 0.23 - 0.89 ng/mL Tanner Stage I: 0.04 - 0.32 ng/mL Tanner Stage II: 0.08 - 0.48 ng/mL Tanner Stage III: 0.14 - 0.87 ng/mL Tanner Stage IV & V: 0.27 - 1.07 ng/mL <p>Dehydroepiandrosterone Sulfate, Serum:</p> <p>Male:</p> <ul style="list-style-type: none"> 0 - 6 days: 108 - 607 µg/dL 7 - 30 days: 32 - 431 µg/dL 1 - 5 months: 3 - 124 µg/dL 6 - 35 months: 0 - 33 µg/dL 3 - 6 years: 0 - 44 µg/dL 7 - 9 years: 5 - 115 µg/dL 	5/2/2013

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New Tests (cont.)

[Hirsutism Evaluation](#) [continued](#)

[Reference Range continued](#)

10 - 14 years: 22 - 332 $\mu\text{g/dL}$
15 - 19 years: 88 - 483 $\mu\text{g/dL}$
20 - 29 years: 280 - 640 $\mu\text{g/dL}$
30 - 39 years: 120 - 520 $\mu\text{g/dL}$
40 - 49 years: 95 - 530 $\mu\text{g/dL}$
50 - 59 years: 70 - 310 $\mu\text{g/dL}$
60 - 69 years: 42 - 290 $\mu\text{g/dL}$
 ≥ 70 years: 28 - 175 $\mu\text{g/dL}$
Tanner Stage I: 7 - 209 $\mu\text{g/dL}$
Tanner Stage II: 28 - 260 $\mu\text{g/dL}$
Tanner Stage III: 39 - 390 $\mu\text{g/dL}$
Tanner Stage IV & V: 81 - 488 $\mu\text{g/dL}$

Female:

0 - 6 days: 108 - 607 $\mu\text{g/dL}$
7 - 30 days: 32 - 431 $\mu\text{g/dL}$
1 - 5 months: 3 - 124 $\mu\text{g/dL}$
6 - 35 months: 0 - 29 $\mu\text{g/dL}$
3 - 6 years: 0 - 47 $\mu\text{g/dL}$
7 - 9 years: 5 - 94 $\mu\text{g/dL}$
10 - 14 years: 22 - 255 $\mu\text{g/dL}$
15 - 19 years: 63 - 373 $\mu\text{g/dL}$
20 - 29 years: 65 - 380 $\mu\text{g/dL}$
30 - 39 years: 45 - 270 $\mu\text{g/dL}$
40 - 49 years: 32 - 240 $\mu\text{g/dL}$
50 - 59 years: 26 - 200 $\mu\text{g/dL}$
60 - 69 years: 13 - 130 $\mu\text{g/dL}$
 ≥ 70 years: 10 - 90 $\mu\text{g/dL}$
Tanner Stage I: 7 - 126 $\mu\text{g/dL}$
Tanner Stage II: 13 - 241 $\mu\text{g/dL}$
Tanner Stage III: 32 - 446 $\mu\text{g/dL}$
Tanner Stage IV & V: 65 - 371 $\mu\text{g/dL}$

Testosterone Free, Females or Children:

Female:

1 - 6 years: < 0.6 pg/mL
7 - 9 years: 0.6 - 1.8 pg/mL
10 - 11 years: 0.1 - 3.5 pg/mL
12 - 13 years: 0.9 - 6.8 pg/mL
14 - 15 years: 1.2 - 7.5 pg/mL
16 - 17 years: 1.2 - 9.9 pg/mL
18 - 30 years: 0.8 - 7.4 pg/mL
31 - 40 years: 1.3 - 9.2 pg/mL
41 - 51 years: 1.1 - 5.8 pg/mL
Postmenopausal: 0.6 - 3.8 pg/mL
Tanner Stage I: < 2.2 pg/mL
Tanner Stage II: 0.4 - 4.5 pg/mL
Tanner Stage III: 1.3 - 7.5 pg/mL
Tanner Stage IV: 1.1 - 15.5 pg/mL
Tanner Stage V: 0.8 - 9.2 pg/mL

Male:

1 - 6 years: < 0.6 pg/mL
7 - 9 years: 0.1 - 0.9 pg/mL
10 - 11 years: 0.1 - 6.3 pg/mL
12 - 13 years: 0.5 - 98.0 pg/mL
14 - 15 years: 3 - 138 pg/mL
16 - 17 years: 38 - 173 pg/mL
 ≥ 18 years: 47 - 244 pg/mL
Tanner Stage I: ≤ 3.7 pg/mL
Tanner Stage II: 0.3 - 21 pg/mL
Tanner Stage III: 1.0 - 98.0 pg/mL
Tanner Stage IV: 35.0 - 169.0 pg/mL
Tanner Stage V: 41.0 - 239.0 pg/mL

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New Tests (cont.)

[Hirsutism Evaluation](#) [continued](#)

[Reference Range continued](#)

Testosterone, Females or Children:

Female:

Premature (26 - 28 weeks): 5 - 16 ng/dL
Premature (31 - 35 weeks): 5 - 22 ng/dL
Newborn: 20 - 64 ng/dL
1 - 5 months: < 20 ng/dL
6 - 24 months: < 9 ng/dL
2 - 3 years: < 20 ng/dL
4 - 5 years: < 30 ng/dL
6 - 7 years: < 7 ng/dL
8 - 9 years: 1 - 11 ng/dL
10 - 11 years: 3 - 32 ng/dL
12 - 13 years: 6 - 50 ng/dL
14 - 15 years: 6 - 52 ng/dL
16 - 17 years: 9 - 58 ng/dL
18 - 39 years: 9 - 55 ng/dL
40 - 59 years: 9 - 55 ng/dL
≥ 60 years: 5 - 32 ng/dL
Premenopausal (≥ 18 years) 9 - 55 ng/dL
Postmenopausal: 5 - 32 ng/dL
Tanner Stage I: 2 - 17 ng/dL
Tanner Stage II: 5 - 40 ng/dL
Tanner Stage III: 10 - 63 ng/dL
Tanner Stage IV & V: 11 - 62 ng/dL

Male:

Premature (26 - 28 weeks): 59 - 125 ng/dL
Premature (31 - 35 weeks): 37 - 198 ng/dL
Newborn: 75 - 400 ng/dL
1 - 5 months: 14 - 363 ng/dL
6 - 24 months: < 37 ng/dL
2 - 3 years: < 15 ng/dL
4 - 5 years: < 19 ng/dL
6 - 7 years: < 13 ng/dL
8 - 9 years: 2 - 8 ng/dL
10 - 11 years: 2 - 165 ng/dL
12 - 13 years: 3 - 619 ng/dL
14 - 15 years: 31 - 733 ng/dL
16 - 17 years: 158 - 826 ng/dL
18 - 39 years: 300 - 1080 ng/dL
40 - 59 years: 300 - 890 ng/dL
≥ 60 years: 300 - 720 ng/dL
Tanner Stage I: 2 - 15 ng/dL
Tanner Stage II: 3 - 303 ng/dL
Tanner Stage III: 10 - 851 ng/dL
Tanner Stage IV & V: 162 - 847 ng/dL

Sex Hormone Binding Globulin:

Male:

1 - 30 days: 13 - 85 nmol/L
31 - 364 days: 70 - 250 nmol/L
1 - 3 years: 50 - 180 nmol/L
4 - 6 years: 45 - 175 nmol/L
7 - 9 years: 28 - 190 nmol/L
10 - 12 years: 23 - 160 nmol/L
13 - 15 years: 13 - 140 nmol/L
16 - 17 years: 10 - 60 nmol/L
≥ 18 years: 11 - 80 nmol/L
Tanner Stage I: 26 - 186 nmol/L
Tanner Stage II: 22 - 169 nmol/L
Tanner Stage III: 13 - 104 nmol/L
Tanner Stage IV: 11 - 60 nmol/L
Tanner Stage V: 11 - 71 nmol/L

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New Tests (cont.)

[Hirsutism Evaluation continued](#)

[Reference Range continued](#)

Female:

1 - 30 days: 14 - 60 nmol/L
 31 - 364 days: 60 - 215 nmol/L
 1 - 3 years: 60 - 190 nmol/L
 4 - 6 years: 55 - 170 nmol/L
 7 - 9 years: 35 - 170 nmol/L
 10 - 12 years: 17 - 155 nmol/L
 13 - 15 years: 11 - 120 nmol/L
 16 - 17 years: 19 - 145 nmol/L
 ≥18 years: 30 - 135 nmol/L
 Tanner Stage I: 30 - 173 nmol/L
 Tanner Stage II: 16 - 127 nmol/L
 Tanner Stage III: 12 - 98 nmol/L
 Tanner Stage IV: 14 - 151 nmol/L
 Tanner Stage V: 23 - 165 nmol/L

Days Performed: Sunday, Tuesday - Thursday

Reported: 2 - 5 days

CPT: 81275, 82627, 84403, 84270

Price: \$405.00 (non-discountable)

Histoplasma Antibodies, CF	HISTCF	89426	Includes: Histoplasma Mycelial Antibody Histoplasma Yeast Antibody Specimen Requirement: 0.5 mL serum from a serum separator tube; Refrigerated Methodology: Complement Fixation (CF) Reference Range: Histoplasma Mycelial Antibody: < 1:8 titer Histoplasma Yeast Antibody: < 1:8 titer Days Performed: Monday, Wednesday Reported: 2 - 7 days CPT: 86698 x2 Price: \$106.00	5/2/2013
Histoplasma Antibodies, ID	HISTID	89428	Specimen Requirement: 0.5 mL serum from a serum separator tube; Refrigerated Methodology: Immunodiffusion (ID) Reference Range: Negative Days Performed: Monday, Wednesday Reported: 2 - 7 days CPT: 86698 Price: \$53.00	5/2/2013
HIV PhenoSense GT	HIVPHS	89462	Special Information: Patient's most recent viral load and viral load collection date are recommended to be sent with the sample. If this information isn't supplied and the laboratory has a failed assay, they will ask for the viral load. This test is validated for testing specimens with HIV-1 viral loads equal to or above 500 copies/mL and should be interpreted only on such specimens. Includes: Includes both phenotypic and genotypic drug resistance information for all of the approved nucleoside reverse transcriptase inhibitors (NRTIs), non-nucleoside reverse transcriptase inhibitors (NNRTIs) and protease inhibitors (PIs). Specimen Requirement: 3 mL plasma in an EDTA white top tube; Patient's most recent viral load and viral load collection date are recommended. Separate plasma from cells ASAP or within 2 hours of collection, do not transfer plasma to another tube, and freeze immediately Methodology: Phenotyping, Genotyping Reference Range: Refer to report Days Performed: Varies Reported: 16 - 23 days CPT: 87900, 87901, 87903, 87904x11 Price: \$1,700.00 (non-discountable)	5/2/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
Human Metapneumovirus by RT-PCR	MPVPCR	89421	Specimen Requirement: 1 mL bronchoalveolar lavage (BAL) in a sterile container; Frozen *OR* 1 mL sputum in a sterile container; Frozen *OR* 1 mL pleural fluid in a sterile container; Frozen *OR* 1 mL nasopharyngeal washings in a sterile container; Frozen Methodology: Qualitative Polymerase Chain Reaction (PCR) Reference Range: Refer to report Days Performed: Sunday - Saturday Reported: 2 - 5 days CPT: 87798 Price: \$310.00 (non-discountable)	5/2/2013
Influenza A Virus Antibody, IgM	INFLAM	89439	Specimen Requirement: 1 mL serum from a serum separator tube; Separate serum from cells ASAP or within 2 hours of collection; Mark specimens plainly as "acute" or "convalescent"; Refrigerated Methodology: Enzyme-Linked Immunosorbent Assay (ELISA) Reference Range: ≤ 0.89 IV: Negative - No significant level of antibody detected 0.90 - 1.10 IV: Equivocal - Questionable presence of antibody detected. Repeat testing in 10-14 days may be helpful. ≥ 1.11 IV: Positive - IgM antibodies detected, which may suggest current or recent infection Days Performed: Monday, Wednesday, Friday Reported: 2 - 7 days CPT: 86710 Price: \$72.00 (non-discountable)	5/2/2013
Influenza B Virus Antibody, IgM	INFLBM	89440	Specimen Requirement: 1 mL serum from a serum separator tube; Separate serum from cells ASAP or within 2 hours of collection; Mark specimens plainly as "acute" or "convalescent"; Refrigerated Methodology: Enzyme-Linked Immunosorbent Assay (ELISA) Reference Range: ≤ 0.89 IV: Negative - No significant level of antibody detected 0.90 - 1.10 IV: Equivocal - Questionable presence of antibody detected. Repeat testing in 10-14 days may be helpful. ≥ 1.11 IV: Positive - IgM antibodies detected, which may suggest current or recent infection Days Performed: Monday, Wednesday, Friday Reported: 2 - 7 days CPT: 86710 Price: \$72.00 (non-discountable)	5/2/2013
JC Virus by PCR	JCPCRB	89487	Specimen Requirement: 1 mL plasma from an EDTA lavender top tube; Frozen Methodology: Polymerase Chain Reaction (PCR) Reference Range: Refer to report Days Performed: Monday, Wednesday, Friday Reported: 2 - 5 days CPT: 87798 Price: \$190.00 (non-discountable)	5/2/2013
Lactic Acid, Body Fluid	BFLACT	89345	Specimen Requirement: 1 mL body fluid in a sterile container; Collect on ice; Centrifuge and separate non-cellular material ASAP and aliquot into a sterile container; Indicate source on test request form; Frozen Methodology: Enzymatic Reference Range: None established Days Performed: Sunday - Saturday Reported: 2 - 3 days CPT: 83605 Price: \$48.00 (non-discountable)	5/2/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
Leucine Aminopeptidase (LAP), Serum	LAPSER	89485	Specimen Requirement: 1 mL serum from a serum separator tube; Allow serum to clot completely at room temperature; Separate serum from cells ASAP or within 2 hours of collection; Frozen Methodology: Spectrophotometry (S) Reference Range: Male: 1.1 - 3.4 U/mL Female: 1.2 - 3.0 U/mL Days Performed: Friday Reported: 2 - 9 days CPT: 83670 Price: \$128.00 (non-discountable)	5/2/2013
LH Pediatric	LHPED	89442	Specimen Requirement: 1 mL plasma from a lithium heparin green top tube; Refrigerated Methodology: Electro Chemiluminescence Immunoassay (ECLIA) Reference Range: Male: 0 - 2 years: Not established 3 - 7 years: ≤ 0.26 mIU/mL Female: 0 - 2 years: Not established 3 - 7 years: ≤ 0.26 mIU/mL Days Performed: Sunday - Saturday Reported: 8 hours CPT: 83002 Price: \$48.00	5/2/2013
LH Tanner	LHTAN	89441	Specimen Requirement: 1 mL plasma from a lithium heparin green top tube; Refrigerated Methodology: Electro Chemiluminescence Immunoassay (ECLIA) Reference Range: Male: 7 - 9 years: 0.0 - 0.7 IU/L 10 - 12 years: 0.0 - 3.4 IU/L 13 - 15 years: 0.3 - 5.6 IU/L 16 - 17 years: 1.1 - 9.0 IU/L ≥ 18 years: 1.7 - 8.6 IU/L Tanner Stage I: 0.0 - 1.0 IU/L Tanner Stage II: 0.0 - 3.6 IU/L Tanner Stage III: 0.2 - 6.4 IU/L Tanner Stage IV - V: 0.9 - 8.3 IU/L Female: 7 - 9 years: 0.0 - 0.7 IU/L 10 - 12 years: 0.0 - 6.8 IU/L 13 - 15 years: 0.3 - 23.0 IU/L 16 - 17 years: 0.0 - 26.4 IU/L Follicular: 2.4 - 12.6 IU/L Mid-cycle: 14.0 - 95.6 IU/L Luteal: 1.0 - 11.4 IU/L Postmenopausal: 7.7 - 58.5 IU/L Tanner Stage I: 0.0 - 9.3 IU/L Tanner Stage II: 0.0 - 16.0 IU/L Tanner Stage III: 0.0 - 23.0 IU/L Tanner Stage IV - V: 0.0 - 19.1 IU/L Days Performed: Sunday - Saturday Reported: 8 hours CPT: 83002 Price: \$48.00	5/2/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
Macroprolactin	MACPRO	89444	Includes: Prolactin, Monomeric Prolactin Specimen Requirement: 1 mL serum from a serum separator tube; Frozen Methodology: Chemiluminescence Immunoassay (CLIA) Reference Range: Prolactin: Male: 1 - 9 years: 2.1 - 17.7 ng/mL ≥ 10 years: 2.1 - 17.7 ng/mL Female: 1 - 9 years: 2.1 - 17.7 ng/mL ≥ 10 years: 2.8 - 26.0 ng/mL Monomeric Prolactin: Male: 1 - 9 years: 2.1 - 13.3 ng/mL ≥ 10 years: 2.1 - 13.3 ng/mL Female: 1 - 9 years: 2.1-13.3 ng/mL ≥ 10 years: 2.8 - 19.5 ng/mL Days Performed: Sunday Reported: 2 - 9 days CPT: 84146x2 Price: \$328.00 (non-discountable)	5/2/2013
Malaria Antibody, IgG	MALIGG	89374	Specimen Requirement: 1 mL serum from a serum separator tube; Refrigerated Methodology: Enzyme-Linked Immunosorbent Assay (ELISA) Reference Range: < 1.01 IV Days Performed: Tuesday Reported: 2 - 9 days CPT: 86750 Price: \$132.00 (non-discountable)	5/2/2013
Mycoplasma pneumoniae IgA	MYCIGA	89483	Specimen Requirement: 1 mL serum from a red top tube; Do not use serum separator tubes; Allow specimen to clot and then immediately separate serum from cells; Frozen Methodology: Enzyme-Linked Immunosorbent Assay (ELISA) Reference Range: None Detected: 0 - 9 BU/mL Equivocal: 10 - 20 BU/mL Relevant detectable level: ≥ 21 BU/mL Days Performed: Monday Reported: 2 - 8 days CPT: 86738 Price: \$107.00 (non-discountable)	5/2/2013
Neisseria gonorrhoea Antibodies, Total	NGAB	89331	Specimen Requirement: 1 mL serum from a serum separator tube; Mark specimen plainly as acute or convalescent; Refrigerated Methodology: Semi-Quantitative Complement Fixation Reference Range: < 1:8 Days Performed: Sunday - Saturday Reported: 2 - 4 days CPT: 86171 Price: \$92.00 (non-discountable)	5/2/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
Neuronal Nuclear Antibody IgG by IFA, reflex Titer and Immunoblot	NANNA	89432	<p>Special Information: ANNA antibodies are screened by IFA. If the IFA screen is 1:10, then a titer and immunoblot (Hu and Ri) will be performed at an additional cost.</p> <p>Includes:</p> <ul style="list-style-type: none"> Neuronal Nuclear Antibody IgG Screen Neuronal Nuclear Antibody IgG, IFA Titer (if indicated) Neuronal Nuclear Antibodies IgG Immunoblot Anti-Hu (if indicated) Neuronal Nuclear Antibody IgG Immunoblot Anti-Ri (if indicated) <p>Specimen Requirement: 1 mL serum from a serum separator tube; Separate serum from cells ASAP or within 2 hours of collection; Frozen</p> <p>Methodology: Indirect Fluorescent Antibody (IFA)</p> <p>Reference Range:</p> <ul style="list-style-type: none"> Neuronal Nuclear Antibody IgG, IFA: < 1:10 <p>Days Performed: Wednesday</p> <p>Reported: 2 - 10 days</p> <p>CPT: 86255</p> <p>Price: \$70.00 (non-discountable)</p>	5/2/2013
Neuronal Nuclear Antibody IgG by Immunoblot	NANNIG	89433	<p>Includes:</p> <ul style="list-style-type: none"> Neuronal Nuclear Antibodies IgG Immunoblot Anti-Hu Neuronal Nuclear Antibody IgG Immunoblot Anti-Ri <p>Specimen Requirement: 1 mL serum from a serum separator tube; Separate serum from cells ASAP or within 2 hours of collection; Frozen</p> <p>Methodology: Immunoblot (IB)</p> <p>Reference Range:</p> <ul style="list-style-type: none"> Neuronal Nuclear Antibodies IgG, Anti-Hu: Negative Neuronal Nuclear Antibody IgG, Anti-Ri: Negative <p>Days Performed: Wednesday</p> <p>Reported: 2 - 10 days</p> <p>CPT: 83516</p> <p>Price: \$151.00 (non-discountable)</p>	5/2/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
NMR Lipoprofile, Particle Analysis Only	NMRPAR	89316	<p>Includes:</p> <ul style="list-style-type: none"> LDL Particle Number Small LDL Particle Number LDL Particle Size Large HDL Particle Number Large VLDL Particle Number HDL Size, VLDL Size Total HDL Particles LP Insulin Resistance Score <p>Specimen Requirement: 2 mL serum from a red top tube; Do not use serum separator tubes; Allow specimen to clot at room temperature for 30 minutes; Separate serum from cells and refrigerate within 6 hours of collection; Refrigerated</p> <p>Methodology: Quantitative Nuclear Magnetic Resonance Spectroscopy</p> <p>Reference Range:</p> <p>LDL Particle Number:</p> <ul style="list-style-type: none"> Low: < 1000 nmol/L Moderate: 1000 - 1299 nmol/L Borderline High: 1300 - 1599 nmol/L High: 1600 - 2000 nmol/L Very High: > 2000 nmol/L <p>Small LDL Particle Number:</p> <ul style="list-style-type: none"> Low Risk: < 117 nmol/L Intermediate: 117 - 526 nmol/L Borderline: 527 - 839 nmol/L High Risk: > 839 nmol/L <p>LDL Particle Size:</p> <ul style="list-style-type: none"> Large (Pattern A): 23.0-20.6 nM Small (Pattern B): 20.5-18.0 nM <p>Large HDL Particle Number:</p> <ul style="list-style-type: none"> Insulin resistant: < 3.1 μmol/L Intermediate: 3.1 - 7.3 μmol/L Insulin sensitive: > 7.3 μmol/L <p>Large VLDL Particle Number:</p> <ul style="list-style-type: none"> Insulin sensitive: < 0.9 nmol/L Intermediate: 0.9 - 6.9 nmol/L Insulin resistant: > 6.9 nmol/L <p>HDL Size:</p> <ul style="list-style-type: none"> Insulin Resistant: < 8.9 nM Intermediate: 8.9 - 9.6 nM Insulin Sensitive: > 9.6 nM <p>VLDL Size:</p> <ul style="list-style-type: none"> Insulin sensitive: < 42.4 nM Intermediate: 42.4 - 52.5 nM Insulin Resistant: > 52.5 nM <p>Total HDL Particles:</p> <ul style="list-style-type: none"> Low Risk: > 34.9 μmol/L Intermediate: 34.9 - 26.7 μmol/L High risk: < 26.7 μmol/L <p>LP Insulin Resistance Score:</p> <ul style="list-style-type: none"> Insulin Sensitive: < 27 Intermediate: 27 - 63 Insulin Resistant: > 63 <p>Days Performed: Varies</p> <p>Reported: 4 - 8 days</p> <p>CPT: 83704</p> <p>Price: \$99.00 (non-discountable)</p>	5/2/2013
Norovirus Group 1 and 2 Detection by RT-PCR	NORPCR	89448	<p>Specimen Requirement: 1 gram stool in a sterile container; Frozen</p> <p>Methodology: Reverse Transcription - Polymerase Chain Reaction (RT-PCR)</p> <p>Reference Range: Refer to report</p> <p>Days Performed: Monday, Wednesday, Friday</p> <p>Reported: 6 - 7 days</p> <p>CPT: 87798x2</p> <p>Price: \$401.00 (non-discountable)</p>	5/2/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
Nuclear Antibody by IFA, IgG	ANAIGG	89378	Specimen Requirement: 1 mL serum from a serum separator tube; Separate serum from cells ASAP; Refrigerated Methodology: Indirect Fluorescent Antibody (IFA) Reference Range: Refer to report Days Performed: Sunday - Saturday Reported: 2 - 4 days CPT: 86039 Price: \$58.00 (non-discountable)	5/2/2013
Olanzapine	OLANZ	89415	Specimen Requirement: 2 mL serum from a red top tube; Do not use serum separator tubes; Separate serum from cells within 2 hours of collection and freeze; Critical frozen Methodology: Quantitative Liquid Chromatography - Tandem Mass Spectrometry (LC-MS/MS) Reference Range: 5 - 75 ng/mL Days Performed: Monday, Thursday Reported: 2 - 6 days CPT: 80299 Price: \$109.00 (non-discountable)	5/2/2013
Organic Acids, Plasma	ORGACS	89461	Includes: Lactic Acid Pyruvic Acid Succinic Acid 3-OH-Butyric Acid Acetoacetic Acid 2-Keto-3-methylvaleric Acid 2-Keto-isocaproic Acid 2-Keto-isovaleric Acid Citric Acid Specimen Requirement: 3 mL plasma from a sodium or lithium heparin green top tube; Separate plasma from cells within one hour of collection and freeze; A "Patient History for Biochemical Genetic Testing" form is recommended, but not required; Critical Frozen Methodology: Gas Chromatography Mass Spectrometry (GCMS) Reference Range: Refer to report Days Performed: Tuesday Reported: 4 - 16 days CPT: 83918 Price: \$445.00 (non-discountable)	5/2/2013
Polychlorinated Biphenyls	PBPS	89450	Specimen Requirement: 3 mL serum from a red top tube; Do not use serum separator tubes; Separate serum from cells within 2 hours of collection; Refrigerated Methodology: Quantitative Gas Chromatography (GC) Reference Range: Refer to report Days Performed: Varies Reported: 4 - 11 days CPT: 82441 Price: \$128.00 (non-discountable)	5/2/2013
Prothrombin Antibodies IgG & IgM	PTABGM	89277	Specimen Requirement: 0.5 mL serum from a serum separator tube; Refrigerated Methodology: Enzyme-Linked Immunosorbent Assay (ELISA) Reference Range: Prothrombin Antibody IgG: < 20.0 Units Prothrombin Antibody IgM: < 20.0 Units Days Performed: Monday Reported: 2 - 9 days CPT: 86849x2 Price: \$182.00 (non-discountable)	5/2/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
Reptilase Time with Reflex to Reptilase Time 1:1 Mix	REPMIX	89300	Special Information: If Reptilase Time is elevated, then Reptilase Time 1:1 Mix will be performed at an additional charge Specimen Requirement: 2 mL plasma from a sodium citrate light blue top tube; Separate plasma from cells ASAP or within 2 hours of collection and freeze; Critical Frozen Methodology: Clotting Reference Range: Reptilase Time: < 22.0 seconds Reptilase Time 1:1 Mix: < 22.0 seconds Days Performed: Monday - Saturday Reported: 2 - 4 days CPT: 85635 Price: \$72.00 (non-discountable)	5/2/2013
Rett Syndrome (MECP2), Full Gene Analysis	RETTFG	89380	Includes: MECP2 Deletion and Duplication MECP2 Full gene sequencing Specimen Requirement: 3 mL whole blood in an EDTA lavender top tube; Refrigerated Methodology: Sequencing Multiplex Ligation-dependent Probe Amplification (MLPA) Reference Range: Refer to report Days Performed: Varies Reported: 22 - 23 days CPT: 81302, 81304 Price: \$1,650.00 (non-discountable)	5/2/2013
Rotavirus and Adenovirus 40 - 41 Antigens	ROTAD	89319	Specimen Requirement: 5 grams of stool in a sterile container; Frozen Methodology: Enzyme Immunoassay (EIA) Reference Range: Adenovirus 40 - 41 Antigen: Negative Rotavirus Antigen: Negative Days Performed: Sunday - Saturday Reported: 2 - 3 days CPT: 87425, 87301 Price: \$100.00 (non-discountable)	5/2/2013
Sotalol	SOTAL	89449	Specimen Requirement: 1 mL serum from a red top tube; Do not use serum separator tubes; Separate serum from cells within 2 hours of collection; Refrigerated Methodology: Quantitative Liquid Chromatography - Tandem Mass Spectrometry (LC-MS/MS) Reference Range: Therapeutic Range: 1.0 - 4.0 µg/mL Toxic: > 4.0 µg/mL Days Performed: Monday, Thursday Reported: 2 - 6 days CPT: 80299 Price: \$72.00 (non-discountable)	5/2/2013
Testosterone, Free, Adult Males by ED/LC-MS/MS	FTESAM	89350	Specimen Requirement: 1 mL serum from a serum separator tube; Separate serum from cells ASAP or within 2 hours of collection; Frozen Methodology: Quantitative Equilibrium Dialysis/High Performance Liquid Chromatography-Tandem Mass Spectrometry (ED/LC-MS/MS) Reference Range: Males: ≥ 18 years: 47 - 244 pg/mL Days Performed: Tuesday, Friday Reported: 2 - 7 days CPT: 84402 Price: \$300.00 (non-discountable)	5/2/2013

Test Name	Order Code	Billing Code	Test Information	Effective Date
Testosterone, Free & Total, Adult Males by ED/LC-MS/MS	FTTESM	89286	<p>Specimen Requirement: 1 mL serum from a serum separator tube; Separate serum from cells ASAP or within 2 hours of collection; Frozen</p> <p>Methodology: Quantitative Equilibrium Dialysis/High Performance Liquid Chromatography-Tandem Mass Spectrometry (ED/LC-MS/MS)</p> <p>Reference Range: Free Testosterone: ≥18 years: 47 - 244 pg/mL Total Testosterone: 18 - 39 years: 300 - 1080 pg/mL 40 - 59 years: 300 - 890 pg/mL ≥60 years: 300 - 720 pg/mL</p> <p>Days Performed: Tuesday, Friday</p> <p>Reported: 2 - 7 days</p> <p>CPT: 84402, 84403</p> <p>Price: \$155.00 (non-discountable)</p>	5/2/2013
Trichomonas Vaginalis by Amplified Detection	VAGAMD	89383	<p>Specimen Requirement: Endocervical swab in Aptima® Combo 2 Assay transport media; Refrigerated</p> <p>Methodology: Amplification</p> <p>Reference Range: Negative</p> <p>Days Performed: Monday, Wednesday, Friday</p> <p>Reported: 2 - 5 days</p> <p>CPT: 87798</p> <p>Price: \$108.00 (non-discountable)</p>	5/2/2013
Vanillylmandelic Acid & Homovanillic Acid, Ur	UVAHA	89313	<p>Includes: Creatinine Homovanillic Acid Vanillylmandelic Acid Vanillylmandelic Acid - ratio to CRT Homovanillic Acid - ratio to CRT</p> <p>Specimen Requirement: 4 mL urine from a well mixed 24 hour urine collection; Refrigerate during collection; Refrigerated</p> <p>Methodology: High Performance Liquid Chromatography (HPLC)</p> <p>Reference Range: Creatinine: Refer to report Homovanillic Acid: 0 - 2 years: 0 - 42 mg/g crt 3 - 5 years: 0 - 22 mg/g crt 6 - 17 years: 0 - 15 mg/g crt ≥ 18 years: 0 - 8 mg/g crt Homovanillic Acid (mg/day): ≥ 18 years: 0.0 - 15.0 Vanillylmandelic Acid: 0 - 2 years: 0 - 27 mg/g crt 3 - 5 years: 0 - 13 mg/g crt 6 - 17 years: 0 - 9 mg/g crt ≥ 18 years: 0 - 6 mg/g crt Vanillylmandelic Acid (mg/day): ≥ 18 years: 0.0 - 7.0</p> <p>Days Performed: Sunday, Tuesday - Saturday</p> <p>Reported: 2 - 4 days</p> <p>CPT: 83150, 84585</p> <p>Price: \$156.00 (non-discountable)</p>	5/2/2013

Fee Increases

Test Name	Order Code	Billing Code	List Fee	CPT Code	Effective Date
Alpha-1-Antitrypsin Clearance	A1ACL	87933	\$205.00 (non-discountable)	82103	4/15/2013
Beta-2 Transferrin	B2TRAN	82885	\$418.00 (non-discountable)	86335	4/15/2013
Carnitine, Free & Total, Urine	UCARN1	79813	\$324.00 (non-discountable)	82379	4/15/2013
Complement C6, Functional	C6FUN	87820	\$199.00 (non-discountable)	86161	4/15/2013
Fatty Acid Profile of Lipids	CFA	76258	\$440.00 (non-discountable)	82544	4/15/2013
Fragile X Syndrome DNA Analysis	FRAGIL	82365	\$338.00 (non-discountable)	81243	4/15/2013
Fungal Antibodies, CF & ID	FUNBAT	50036	\$491.00	86606x2, 86612x2, 86635x2, 86698x3	5/2/2013
GAD65 Antibody, CSF	GADCSF	87939	\$303.00 (non-discountable)	86341	4/15/2013
Gene Analysis 21 Hydroxylase	21GENE	88173	\$1,235.00 (non-discountable)	81405	4/15/2013
Glucagon	GLUCA	82943	\$260.00 (non-discountable)	82943	4/15/2013
Hyperoxaluria, Urine	UHYPER	87816	\$385.00 (non-discountable)	82544	4/15/2013
IBD Serology Disease Panel	IBDSER	88298	\$440.00 (non-discountable)	86255, 83520x2	4/15/2013
Ketamine Confirmation, Urine	UKETA	87791	\$211.00 (non-discountable)	80299	4/15/2013
Tay-Sachs (Hexosaminidase)	HEX	76985	\$255.00 (non-discountable)	83080	4/15/2013
TGFBR1 & TGFBR2 for Loeys-Dietz Syndrome	TGFB	88547	\$1,010.00 (non-discountable)	81405x2	4/15/2013
Transthyretin DNA Sequencing	TTRDNA	81481	\$862.00 (non-discountable)	81404	

Fee Reductions

Test Name	Order Code	Billing Code	List Fee	CPT Code	Effective Date
Aspergillus Antibodies CF & ID	ASPRAB	50046	\$128.00	86606x2	5/2/2013
Blastomyces Antibodies CF & ID	BLSTAB	50159	\$108.00	86612x2	5/2/2013
Coccidioides Antibody, CF & ID	COCIAB	50043	\$96.00	86635x2	5/2/2013
Histoplasma Antibodies CF & ID	HISTAB	51060	\$159.00	86698x3	5/2/2013

Discontinued Tests

Test Name	Order Code	Billing Code	Test Information	Effective Date
CMV Genotype	CMVGEN	84053	This test will no longer be available. Suggest ordering Cytomegalovirus Antiviral Drug Resistance (CYTOSQ)	5/30/2013