



Cleveland Clinic Laboratories

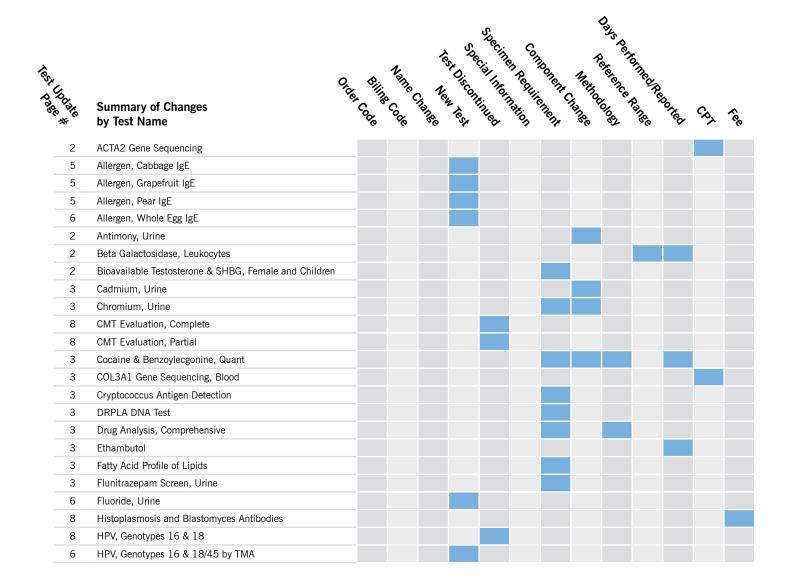
Technical Update • May 2013

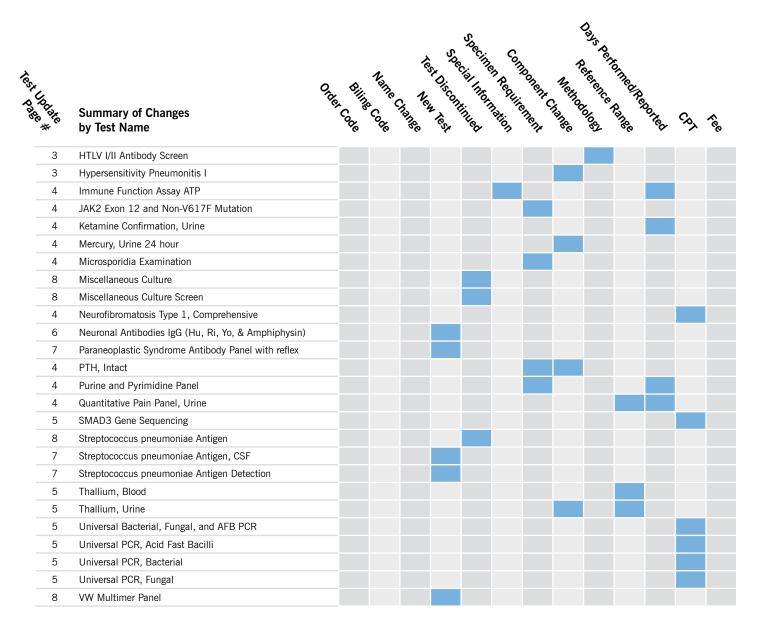
Cleveland Clinic Laboratories is dedicated to keeping you updated and informed about recent testing changes. That's why we are happy to provide this technical update on a monthly basis.

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 Changes

Test Name	Order Code	Billing Code	Change	Effective Date
ACTA2 Gene Sequencing	ACTA2	88528	CPT: 81479	5/23/2013
Antimony, Urine	ANTIMU	77009	Includes: Antimony, Urine per volume Antimony, Urine per 24 hours Antimony, Urine ratio to creatinine Creatinine, Urine per volume Creatinine, Urine per 24 hours Test build may need to be modified	5/20/2013
Beta Galactosidase, Leukocytes	BGALA	87825	Reference Range: ≥ 1.56 nmol/min/mg Days Performed: Wednesday Reported: 9 - 16 days	5/30/2013
Bioavailable Testosterone & SHBG, Female and Children	BTSTFC	88688	Specimen Requirement: 1 mL serum from 2 serum separator tubes; Collect between 6 - 10 a.m.; Separate serum from cells within 2 hours of collection; Refrigerated	5/20/2013

Test Changes

Test Name	Order Code	Billing Code	Change	Effective Date
Cadmium, Urine	URCAD	87729	Includes: Cadmium, Urine per volume Cadmium, Urine per 24 hours Cadmium, Urine ratio to CRT Creatinine, Urine per 24 hours Creatinine, Urine per volume Test build may need to be modified	5/20/2013
Chromium, Urine	UCHRO	82495	Includes: Chromium, Urine per volume Chromium, Urine per 24 hours Chromium, Urine ratio to creatinine Creatinine, Urine per 24 hours Creatinine, Urine per volume Test build may need to be modified Specimen Requirement: 8 mL urine from a well mixed 24 hour	5/20/2013
			collection; Refrigerate during collection; Submit specimen in two trace element free containers; Refrigerated	
Cocaine & Benzoylecgonine, Quant	COCAIN	76518	Includes: Cocaine Cocaethylene Benzoylecgonine m-Hydroxybenzoylecgonine (qualitative only) Test build may need to be modified Specimen Requirement: 4 mL serum from a red top tube; Do not use	6/13/2013
			serum separator tubes; Separate serum from cells within 2 hours of collection; Refrigerated Methodology: Gas Chromatography Mass Spectrometry (GCMS)	
			Days Performed: Sunday - Saturday Reported: 2 - 5 days	
COL3A1 Gene Sequencing, Blood	COL3	88543	CPT: 81479	5/16/2013
Cryptococcus Antigen Detection	CAD	75306	Specimen Requirement: 10 mL serum from a serum separator tube; Refrigerated *OR* 2 mL cerebrospinal fluid (CSF) in a sterile container; Frozen	5/9/2013
DRPLA DNA Test	DRPLA	82268	Specimen Requirement: 3 mL whole blood in an EDTA lavender top tube; Ambient; All patients are required to submit a 'Congenital Inherited Diseases Patient Information' sheet. New York residents only must also include a signed informed consent form. Both forms may be obtained by contacting Client Services at 216.444.5755 or 800.628.6816.	6/13/2013
Drug Analysis, Comprehensive	DRANCO	82053	Specimen Requirement: 10 mL serum from a red top tube *AND* 20 mL random urine in a clean container; Refrigerated THIS ASSAY REQUIRES MULTIPLE SPECIMEN TYPES Methodology: Gas Chromatography - Flame Ionization Detection (GC-FID) Gas Chromatography - Mass Spectrometry (GCMS) Immunoassay (IA)	6/13/2013
Ethambutol	ETHAMB	80342	High Performance Liquid Chromatography (HPLC) Days Performed: Varies	5/20/2013
			Reported: 4 - 10 days	, , , , , , , , , , , , , , , , , , , ,
Fatty Acid Profile of Lipids	CFA	76258	Specimen Requirement: 0.5 mL serum from a serum separator tube; Remove serum from cells within 45 minutes of collection and freeze; Transport Frozen	3/25/2013
Flunitrazepam Screen, Urine	FLUNU	82104	Specimen Requirement: 3 mL urine in a clean container from a random collection; Refrigerated	6/13/2013
HTLV I/II Antibody Screen	HTLVSC	50163	Methodology: Enzyme-Linked Immunosorbent Assay (ELISA)	5/20/2013
Hypersensitivity Pneumonitis I	HYPNE1	88709	Includes: Aspergillus fumigatus #1 Ab, Precipitin Aspergillus fumigatus #6 Ab, Precipitin Aureobasidium pullulans Ab, Precipitin Pigeon serum Ab, Precipitin Micropolyspora faeni Ab, Precipitin Thermoactinomyces vulgaris #1 Ab, Precipitin Test build may need to be modified	5/20/2013

Test Changes

Test Name	Order Code	Billing Code	Change	Effective Date
Immune Function Assay ATP	IMMFUN	82662	Special Information: Effective April 29, 2013, all blood sample requests for the Immune Function Assay ATP test will be automatically sent to the outside laboratory ViraCor-IBT as the test performing lab. The manufacturer of ImmuKnow® reagent kits, Cylex Inc., was recently acquired by ViraCor-IBT and all testing will be done solely by ViraCor-IBT laboratory. The ViraCor-IBT assay will be exactly the same as the in-house test offered previously, however there will be a slight difference in the turn-around-time for results. It will change from 1-3 days to 2-3 days. Contact Dr. Belinda Yen-Lieberman or Dr. Thomas Daly with any questions or concerns at 800.628.6816 or 216.444.5755.	4/29/2013
JAK2 Exon 12 and Non-V617F Mutation	JAKNON	87775	Specimen Requirement: 4 mL whole blood in an EDTA lavender top tube; A completed "Hematopathology Patient Information Sheet" is required with the specimen. This form is available through Client Services at 216.444.5755 or 800.628.6816. Send specimen to Cleveland Clinic Laboratories on the day of collection. Ambient	5/6/2013
Ketamine Confirmation, Urine	UKETA	87791	Days Performed: Monday Reported: 3 - 9 days	5/9/2013
Mercury, Urine 24 hour	UMERC3	79632	Includes: Mercury, Urine per volume Mercury, Urine per 24 hour Mercury, Urine ratio to CRT Creatinine, Urine per volume Creatinine, Urine per 24 hour Test build may need to be modified	5/20/2013
Microsporidia Examination	MICSPO	77086	Specimen Requirement: 2 grams stool in a clean container; Transfer approximately 1 gram of feces to each of 2 containers: PVA vial and formalin vial. Fluid levels should reach line on vial. Mix each specimen with the preservative. Indicate on vial label whether stool is formed (soft or hard) or diarrheal; Ambient *OR* Stool preserved in sodium acetate formalin (SAF); Ambient	5/9/2013
Neurofibromatosis Type 1, Comprehensive	NFIB1	88611	CPT: 81407 , 81408, 81265 , 88230	6/6/2013
PTH, Intact	PTHI	83970	Special Information: Testing cannot be added to plasma from EDTA lavender top tubes older than 8 hours post draw. Specimen Requirement: 1 mL serum from a serum separator tube; Separate serum from cells ASAP after clotting has occurred; Refrigerated	5/2/2013
Purine and Pyrimidine Panel	UPURPY	82921	Specimen Requirement: 3 mL urine in a clean container from a random collection; Patient's age is required; Frozen Days Performed: Tuesday Reported: 8 - 15 days	6/13/2013
Quantitative Pain Panel, Urine	UQNTPP	82347	Reference Range: Morphine: < 5 ng/mL Codeine: < 11 ng/mL Dihydrocodeine: < 5 ng/mL Oxycodone: < 5 ng/mL Oxymorphone: < 5 ng/mL Hydrocodone: < 8 ng/mL Hydrocodone: < 8 ng/mL Hydromorphone: < 5 ng/mL Methadone: < 16 ng/mL EDDP: < 6 ng/mL Fentanyl: < 6 ng/mL Norfentanyl: < 6 ng/mL Norfentanyl: < 6 ng/mL Norbuprenorphine: < 20 ng/mL Buprenorphine: < 20 ng/mL Norbuprenorphine: < 20 ng/mL Amphetamine: < 5 ng/mL Methamphetamine: < 8 ng/mL Benzoylecognine: < 24 ng/mL C-Acetylmorphine: < 5 ng/mL Creatinine: > 19 mg/dL Urine pH: 4 - 10 Specific Gravity: 1.005 - 1.020 Urine Oxidants: Negative Days Performed: 4 days per week Reported: 2 - 5 days	6/4/2013

Test Changes (cont.)

Test Name	Order Code	Billing Code	Change	Effective Date
SMAD3 Gene Sequencing	SMAD3	88524	CPT: 81479	5/23/2013
Thallium, Blood	THALL	75659	Reference Range: 0.0 - $2.0~\mu\mathrm{g/L}$	5/20/2013
Thallium, Urine	UTHAL	84116	Includes: Thallium, Urine per volume Thallium, Urine per 24 hour Thallium, Urine ratio to CRT Creatinine, Urine per volume Creatinine, Urine per 24 hour Test build may need to be modified	5/20/2013
			Reference Range: Thallium, Urine per volume: 0 - 5 ug/L Thallium, Urine per 24 hour: Not established Thallium, Urine ratio to CRT: Not established Creatinine, Urine per volume: Refer to report Creatinine, Urine per 24 hour: Refer to report	
Universal Bacterial, Fungal, and AFB PCR	FABPCR	87871	CPT: 87551, 87556, 87801x2	5/9/2013
Universal PCR, Acid Fast Bacilli	AFBPCR	87859	CPT: 87551, 87556	5/9/2013
Universal PCR, Bacterial	BACPCR	87852	CPT: 87801	5/9/2013
Universal PCR, Fungal	FUNPCR	87854	CPT: 87801	5/9/2013

New Tests

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Test Name	Order Code	Billing Code	Test Information	Effective Date
Allergen, Cabbage IgE	CABBAG	89537	Specimen Requirement: 0.1 mL serum from a serum separator tube; Refrigerated	6/4/2013
			Methodology: Fluorescent Enzyme Immunoassay (FEIA) by ImmunoCAP	
			Reference Range: < 35 kU/L; Class: 0	
			Days Performed: Sunday - Saturday	
			Reported: 1 - 2 days	
			CPT: 86003	
			Price: \$33.00	
Allergen, Grapefruit IgE	GRAFRU	89538	Specimen Requirement: 0.1 mL serum from a serum separator tube; Refrigerated	6/4/2013
			Methodology: Fluorescent Enzyme Immunoassay (FEIA) by ImmunoCAP	
			Reference Range: < 35 kU/L; Class: 0	
			Days Performed: Sunday - Saturday	
			Reported: 1 - 2 days	
			CPT: 86003	
			Price: \$33.00	
Allergen, Pear IgE	PEAR	89536	Specimen Requirement: 0.1 mL serum from a serum separator tube; Refrigerated	6/4/2013
			Methodology: Fluorescent Enzyme Immunoassay (FEIA) by ImmunoCAP	
			Reference Range: < 35 kU/L; Class: 0	
			Days Performed: Sunday - Saturday	
			Reported: 1 - 2 days	
			CPT: 86003	
			Price: \$33.00	

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
Allergen, Whole Egg IgE	WHOEGG	89539	Specimen Requirement: 0.1 mL serum from a serum separator tube; Refrigerated	6/4/2013
			Methodology: Fluorescent Enzyme Immunoassay (FEIA) by ImmunoCAP	
			Reference Range: < 35 kU/L; Class: 0	
			Days Performed: Sunday - Saturday	
			Reported: 1 - 2 days	
			CPT: 86003	
			Price: \$33.00	
Fluoride, Urine	UFLUOR	89540	Special Information: Patient should avoid exposure to gadolinium-based contrast media for 48 hours prior to specimen collection	5/20/2013
			Specimen Requirement: 6 mL urine in a trace metal free transport tube (ARUP #43116) from a random urine; Collect in a trace metal free or acid-washed plastic container; Trace metal free tubes are available by calling Client Services at 800.628.6816 or 216.444.5755; Refrigerated	
			Methodology: Quantitative Ion-Specific Electrode, Colorimetry	
			Reference Range: Refer to report	
			Days Performed: Varies	
			Reported: 4 - 10 days	
			CPT: 82735	
			Price: \$118.00 (non-discountable)	
HPV Genotypes 16 & 18/45 by TMA	HPVGNO	89544	Special Information: This test detects E6/E7 viral messenger RNA of the high-risk HPV types 16, 18, and 45 only. It is intended for use in women 21 years and older with ASC-US cervical cytology results and in women	5/20/2013
			30 years and older with positive high-risk HPV results. Sensitivity may be affected by specimen collection methods, stage of infection, and the presence of interfering substances. Results should be interpreted in conjunction with other available laboratory and clinical data. This test is not intended for use as a stand-alone test. This test is intended for medical purposes only and is not valid for the evaluation of suspected sexual abuse or for other forensic purposes. HPV testing should not be used for screening or management of atypical squamous cells of undetermined significance (ASCUS) in women under age 21.	
			Specimen Requirement: One cervical brush in ThinPrep Pap Test transport media; Females should avoid high concentrations of antifungal cream or contraceptive jelly, and should not douche prior to time of collection; Ambient	
			Methodology: Qualitative Target Amplification Nucleic Acid Probe	
			Reference Range: Negative	
			Days Performed: Tuesday, Thursday	
			Reported: 3 - 6 days	
			CPT : 87621x2	
			Price: \$121.00 (non-discountable)	
Neuronal Antibodies, IgG (Hu, Ri, Yo, &	HURIYO	89321	Special Information: Only antibodies detected are reported in the result field.	5/20/2013
Amphiphysin)			Includes: Anti-Hu Antibody IgG Anti-Ri Antibody IgG Anti-Yo Antibody IgG Amphiphysin Antibody IgG	
			Specimen Requirement: 1 mL serum from a serum separator tube; Remove serum from cells within 2 hours of collection; Frozen	
			Methodology: Qualitative Immunoblot Reference Range: Anti Hu IgG: None Detected Anti Ri IgG: None Detected Anti Yo IgG: None Detected Amphiphysin IgG: None Detected	
			Days Performed: Thursday	
			Reported: 2 - 9 days CPT: 83516	
			Price: \$168.00 (non-discountable)	

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
Paraneoplastic Syndrome Antibody Panel with reflex	PARSYN	89436	Special Information: ANNA Antibodies and Purkinje Cell Antibody are screened by IFA. If the ANNA IFA screen is positive at 1:10, then a titer and immunoblot will be added at an additional cost. If the Purkinje cell IFA screen is positive at 1:10, then a titer and immunoblot will be added at an additional cost. Includes: Neuronal Nuclear / Purkinje Cell Antibody IgG Screen, by IFA Neuronal Nuclear (Hu, Ri, Yo, & Amphiphysin) Antibodies IgG, Immunoblot (If indicated) Neuronal Nuclear Antibodies IgG (ANNA), IFA Titer (If indicated) Purkinje Cell Antibody IgG, Titer (If indicated) Specimen Requirement: 2 mL serum from a serum separator tube; Separate serum from cells within 2 hours of collection; Frozen Methodology: Indirect Fluorescent Antibody (IFA) Reference Range: Neuronal Nuclear / Purkinje Cell Antibody IgG Screen, by IFA: None Detected Days Performed: Wednesday Reported: 2 - 10 days CPT: 86255 Price: \$135.00	5/20/2013
Streptococcus pneumoniae Antigen, CSF	SPACSF	89532	Special Information: False-positives may occur because of cross-reactivity with other members of the S. mitis group. Clinical correlation is recommended. Patients who have received the S. pneumoniae vaccines may test positive in the 48 hours following the vaccination. It is recommended to avoid testing within 5 days of receiving vaccination. Specimen Requirement: 1 mL cerebrospinal fluid (CSF) in a sterile container; Refrigerated Methodology: Immunochromatographic Reference Range: Negative Days Performed: Sunday - Saturday Reported: 2 - 3 days CPT: 87899 Price: \$119.00 (non-discountable)	6/17/2013
Streptococcus pneumoniae Antigen Detection	SPNAG	89542	Special Information: The Binax NOW Streptococcus pneumoniae assay is available for rapid detection of antigen to Streptococcus pneumoniae in patients with pneumococcal pneumonia. While a positive result is indicative of pneumococcal disease, a negative result does not exclude infection with S. pneumoniae. Antigen levels may be below the detectable limit of the test. False positive results have been reported with other members of the S. mitis group and in patients who have received the pneumococcal vaccine within the last 5 days. This assay has not been validated on body fluids other than urine. Urine specimens with elevated white blood cells, red blood cells, protein, glucose, and turbidity were evaluated and no interference was noted. Very high red cell counts may produce an invalid result. The assay has not been evaluated on patients taking antibiotic for > 24 hours or on patients who have recently completed an antibiotic regimen. Specimen Requirement: 2 mL urine in a clean container from a random collection; Refrigerated Methodology: Immunochromatographic Reference Range: Negative Days Performed: Sunday - Saturday Reported: 24 hours CPT: 87899 Price: \$133.00	6/17/2013

New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
VW Multimer Panel	VWMULP	89323	Includes: von Willebrand Multimer Analysis von Willebrand Factor Antigen Ristocetin Co-Factor Factor VIII:C Assay	5/2/2013
			Specimen Requirement: 3 mL plasma from a sodium citrate light blue top tube; Frozen	
			Methodology: Latex Immunoassay Clotting Assay Electrophoresis Agglutination	
			Reference Range: von Willebrand Multimer Analysis: Refer to report von Willebrand Factor Antigen 0 - 2 days: 36 - 315% 2 - 6 days: 50 - 279% 6 - 30 days: 19 - 270% 1 - 4 months: 57 - 226% 4 - 12 months: 23 - 216% 1 - 6 years: 60 - 132% 6 - 11 years: 44 - 158% 11 - 17 years: 46 - 168% 17 - 99 years: 50 - 173% Ristocetin Co-Factor: 35 - 153% Factor VIII: C Assay: 0 - 1 days: 22 - 207% 2 - 5 days: 22 - 179% 6 - 30 days: 25 - 183% 1 - 3 months: 33 - 148% 4 - 11 months: 37 - 127% 1 - 99 years: 50 - 173%	
			Days Performed: Monday - Friday Reported: 3 - 5 days	
			CPT: 85240, 85245, 85246, 85247	
			Price: \$586.00	

Fee Reductions

Test Name	Order Code	Billing Code	List Fee	CPT Code
Histoplasmosis and Blastomyces Antibodies	HISBLA	78728	\$267.00	86612x2, 86698x3

Discontinued Tests

Test Name	Order Code	Billing Code	Test Information	Effective Date
CMT Evaluation, Complete	CMTCOM	82413	This test will no longer be available	6/6/2013
CMT Evaluation, Partial	CMTEVL	82114	This test will no longer be available	6/6/2013
HPV, Genotypes 16 & 18	HPVGEN	88554	This test will no longer be available. Suggest ordering HPV Genotypes 16 & 18/45 by TMA (HPVGNO)	5/20/2013
Miscellaneous Culture	MISCUL	76834	This test will no longer be available	5/16/2013
Miscellaneous Culture Screen	MISCSC	77938	This test will no longer be available	5/16/2013
Streptococcus pneumoniae Antigen	USTREP	82955	This test will no longer be available. Suggest ordering Streptococcus pneumoniae Antigen Detection (SPNAG) or Streptococcus pneumoniae Antigen, CSF (SPACSF).	6/17/2013