



## Cleveland Clinic Laboratories

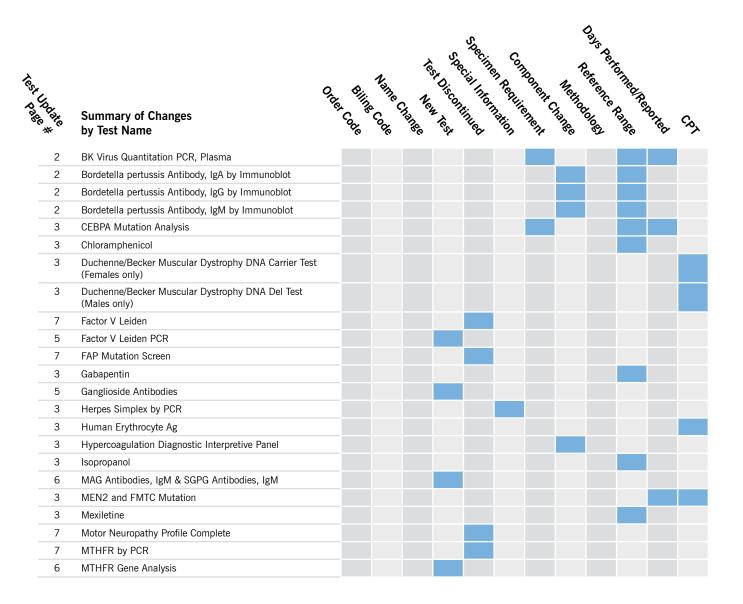
#### Technical Update • February 2013

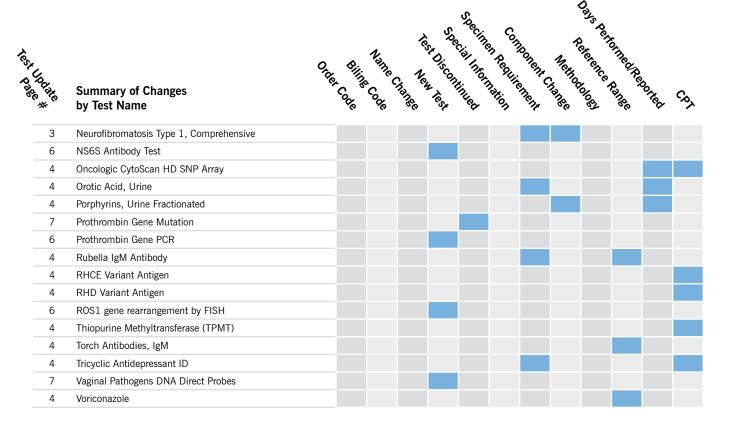
Cleveland Clinic Laboratories is dedicated to keeping you updated and informed about recent testing changes. That's why we are happy to provide this technical update on a monthly basis.

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

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Test Name	Order Code	Billing Code	Change	Effective Date
BK Virus Quantitation PCR, Plasma	BKQUAN	82611	<b>Specimen Requirement: 2</b> mL plasma from an EDTA lavender top tube; Refrigerated	2/26/2013
			Reference Range: Negative for BK Virus DNA	
			Days Performed: Tuesday, Friday	
			Reported: 5 days	
Bordetella pertussis Antibody, IgA by Immunoblot	BPAA	88015	Includes:  B. pertussis, IgA Immunoblot PT B. pertussis, IgA Immunoblot FHA Test build may need to be modified	2/19/2013
			Reference Range:  B. pertussis, IgA Immunoblot PT: Negative B. pertussis, IgA Immunoblot FHA: Negative	
Bordetella pertussis Antibody, IgG by Immunoblot	BPAG	88016	Includes: B. pertussis, IgG Immunoblot PT100 B. pertussis, IgG Immunoblot PT B. pertussis, IgG Immunoblot FHA Test build may need to be modified	2/19/2013
			Reference Range:  B. pertussis, IgG Immunoblot PT100: Negative B. pertussis, IgG Immunoblot PT: Negative B. pertussis, IgG Immunoblot FHA: Negative	
Bordetella pertussis Antibody, IgM by Immunoblot	BPAM	88017	Includes: B. pertussis, IgM Immunoblot PT B. pertussis, IgM Immunoblot FHA Test build may need to be modified Reference Range:	2/19/2013
			B. pertussis, IgM Immunoblot PT: Negative B. pertussis, IgM Immunoblot FHA: Negative	

# Test Changes

Test Name	Order Code	Billing Code	Change	Effective Date
CEBPA Mutation Analysis	CEBPA	87639	Specimen Requirement: 5 mL whole blood in an EDTA lavender top tube; Ambient	2/28/2013
			Reference Range: CEBPA mutations are Not Detected	
			Days Performed: 1 day per week Reported: 10 - 14 days	
Chloramphenicol	CLORAM	76115	Reference Range: Therapeutic peak: $10 - 25 \mu g/mL$ Toxic: $> 25 \mu g/mL$	2/19/2013
Duchenne/Becker Muscular Dystrophy DNA Carrier Test (Females only)	DBMDXS	83006	CPT: 81479	1/1/2013
Duchenne/Becker Muscular Dystrophy DNA Del Test (Males only)	DBMDYS	82119	CPT: 81479	1/1/2013
Gabapentin	GABA	79153	Reference Range: Therapeutic Range: 2 - 20 $\mu \mathrm{g/mL}$	2/19/2013
Herpes Simplex by PCR	HSPCR	79044	Special Information: Cerebrospinal fluid (CSF) is not an acceptable specimen type for this assay. Orders for this test on CSF will be changed to Herpes Simplex Virus by PCR, CSF (HSPCRC). Please order Herpes Simplex Virus by PCR, CSF (HSPCRC) for CSF samples. This test readily differentiates serotypes I and II.	12/21/2012
Human Erythrocyte Ag	HEA	87880	CPT: 81479	1/1/2013
Hypercoagulation Diagnostic Interpretive Panel	HYPER	173	Includes: Protein C Functional Protein S Clottable Antithrombin III APC Resistance Prothrombin Time (PT) APTT Fibrinogen Cardiolipin Antibodies Homocysteine (plasma) PT Gene Factor VIII C Assay Hexagonal Phase Phospholipid Neutralization C-Reactive Protein Test build may need to be modified	4/2/2013
Isopropanol	ISOPRO	87815	Reference Range: Isopropanol: No therapeutic range Toxic: > 50 mg/dL Acetone: No therapeutic range Toxic: > 100 mg/dL	2/19/2013
MEN2 and FMTC Mutation	MEN2	83405	Days Performed: 2 days per week Reported: 8 - 12 days CPT: 81404, 81405	2/28/2013
Mexiletine	MEXIL	75504	Reference Range: Therapeutic Range: $1.0 - 2.0 \mu\text{g/mL}$ Toxic: $> 2.0 \mu\text{g/mL}$	2/19/2013
Neurofibromatosis Type 1, Comprehensive	NFIB1	88611	Includes:    Mutations include:         truncating mutations (nonsense, frameshift, splicing mutations)         missense mutations         multi-exon deletions         total gene deletions         SPRED 1 mutation  Test build may need to be modified  Specimen Requirement: Collect 3 EDTA lavender top tubes; Collect Monday         - Wednesday only; Specimen MUST be sent to Cleveland Clinic Laboratories         on the day of collection; A completed 'NF1/SPRED1 Phenotypic Checklist'         must be included with the specimen. This form is available through Client         Services at 800.628.6816 or 216.444.5755; Ambient	2/28/2013

# Test Changes (cont.)

Test Name	Order Code	Billing Code	Change	Effective Date
Oncologic CytoScan HD SNP Array	HDSNP	88609	Days Performed: Monday Reported: 11 - 16 days CPT: 81406	2/28/2013
Orotic Acid, Urine	UOROTC	83406	Specimen Requirement: 2 mL random urine in a clean container; Specimen should be from first morning void; Freeze ASAP or within 2 hours of collection; Critical Frozen  Days Performed: Tuesday	2/19/2013
Porphyrins, Urine Fractionated	UPORFR	84120	Reported: 3 - 10 days  Includes: Creatinine, Ur mg/dL Creatinine, mg/day Uroporphyrin - ratio to CRT Heptacarboxylate - ratio to CRT Coproporphyrin I - ratio to CRT Coproporphyrin III - ratio to CRT Test build may need to be modified  Days Performed: Sunday - Friday	2/19/2013
			Reported: 2 - 6 days	
RHCE Variant Antigen	RHCE	88772	CPT: 81479	1/1/2013
RHD Variant Antigen	RHD	88771	CPT: 81479	1/1/2013
Rubella IgM Antibody	RUBIGM	75618	Specimen Requirement: 1 mL of serum from a serum separator tube; Separate serum from cells ASAP or within 2 hours of collection; Refrigerated  Reference Range: ≤ 19.9 AU/mL: Not Detected 20.0 - 24.9 AU/mL: Indeterminate ≥ 25.0 AU/mL: Detected	1/16/2013
Thiopurine Methyltransferase (TPMT)	PPRENZ	81574	CPT: 83789	1/31/2013
Torch Antibodies, IgM	TORCHM	79190	Reference Range:  Rubella IgM:  ≤ 19.9 AU/mL: Not Detected 20.0 - 24.9 AU/mL: Indeterminate ≥ 25.0 AU/mL: Detected  CMV IgM:  ≤ 29.9 AU/mL: Not Detected 30.0 - 34.9 AU/mL: Indeterminate ≥ 35.0 AU/mL: Detected  Toxoplasma IgM:  ≤ 7.9 AU/mL: Not Detected 8.0 - 9.9 AU/mL: Indeterminate ≥ 10.0 AU/mL: Detected  HSV Types 1/2 IgM Abs:  ≤ 0.89 IV: Not Detected 0.90 - 1.09 IV: Indeterminate ≥ 1.10 IV: Detected	1/16/2013
Tricyclic Antidepressant ID	TADID	79193	Specimen Requirement: 1 mL of serum from a red top tube; Do not use serum separator tube; Separate serum from cells within 2 hours of collection; Refrigerated CPT: 80152, 80182, 80174, 80160, 80166, 80299x4	2/19/2013
Voriconazole	VORCON	84568	Reference Range: Therapeutic Range: $1.0 - 6.0 \mu g/mL$ Toxic: $> 6.0 \mu g/mL$	2/19/2013

## New Tests

Test Name	Order Code	Billing Code	Test Information	Effective Date
Factor V Leiden PCR	FVLEI	79827	Includes: Factor V Leiden Interpretation Factor V Leiden Review	3/26/2013
			Specimen Requirement: 4 mL whole blood in an EDTA lavender top tube; Refrigerated	
			Methodology: Fluorescence Monitoring Polymerase Chain Reaction (PCR)	
			Reference Range: Normal	
			Days Performed: Tuesday, Thursday	
			Reported: 7 - 10 days	
			<b>CPT:</b> 81241	
			<b>Price:</b> \$284.00	
Ganglioside Antibodies	GANGAB	89208	Includes: Asialo-GM1 IgG/IgM GM1 IgG/IgM GM2 IgG/IgM GM2 IgG/IgM GD1a IgG/IgM GD1b IgG/IgM GQ1b IgG/IgM	2/14/2013
			<b>Specimen Requirement:</b> 0.3 mL serum from a serum separator tube; Separate serum from cells ASAP; Refrigerated	
			Methodology: Enzyme-Linked Immunosorbent Assay (ELISA)	
			Reference Range:	
			Asialo-GM1 Antibodies, IgG/IgM ≤ 29 IV: Negative 30 - 50 IV: Equivocal 51 - 100 IV: Positive ≥ 101 IV: Strong Positive  GM1 Antibodies, IgG/IgM ≤ 29 IV: Negative 30 - 50 IV: Equivocal 51 - 100 IV: Positive	
			≥ 101 IV: Strong Positive  GM2 Antibodies, IgG/IgM  ≤ 29 IV: Negative  30 - 50 IV: Equivocal 51 - 100 IV: Positive	
			≥101 IV: Strong Positive  GD1a Antibodies, IgG/IgM  ≤ 29 IV: Negative  30 - 50 IV: Equivocal  51 - 100 IV: Positive  ≥ 101 IV: Strong Positive	
			GD1b Antibodies, IgG/IgM ≤ 29 IV: Negative 30 - 50 IV: Equivocal 51 - 100 IV: Positive ≥ 101 IV: Strong Positive	
			GQ1b Antibodies, IgG/IgM ≤ 29 IV: Negative 30 - 50 IV: Equivocal 51 - 100 IV: Positive ≥ 101 IV: Strong Positive	
			Days Performed: Monday, Wednesday, Friday	
			Reported: 2 - 5 days	
			CPT: 83516x6  Price: \$155.00 (non discountable)	
			Price: \$155.00 (non-discountable)	

## New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
MAG Antibodies, IgM & SGPG Antibodies, IgM	MASGPG	89215	<b>Specimen Requirement:</b> 0.5 mL serum from a serum separator tube; Separate serum from cells ASAP or within 2 hours of collection; Refrigerated	2/14/2013
			Methodology: Enzyme-Linked Immunosorbent Assay (ELISA)	
			Reference Range:  MAG Antibody, IgM: < 1000 Titer Units SGPG Antibody. IgM: < 1.00 IV	
			Days Performed: Tuesday	
			Reported: 2 - 9 days	
			<b>CPT</b> : 83516x2	
			Price: \$102.00 (non-discountable)	
MTHFR Gene Analysis	MTHF	81692	Includes: MTHFR Interpretation MTHFR Review	3/19/2013
			<b>Specimen Requirement:</b> 4 mL whole blood in an EDTA lavender top tube; Refrigerated	
			Methodology: Fluorescence Monitoring Polymerase Chain Reaction (PCR)	
			Reference Range: Normal	
			Days Performed: Thursday	
			<b>Reported:</b> 10 - 14 days <b>CPT:</b> 81291	
			Price: \$286.00 (non-discountable)	
NS6S Antibody Test	NS6S	89214	Specimen Requirement: 2 mL serum from a serum separator tube; Deliver to Cleveland Clinic Laboratories on the day of collection; Refrigerated	2/14/2013
			Methodology: Enzyme-Linked Immunosorbent Assay (ELISA)	
			Reference Range: Positive, presence of NS6S Antibodies	
			Days Performed: Monday - Friday	
			Reported: 15 - 16 days	
			CPT: 83516  Price: \$700.00 (non-discountable)	
Prothrombin Gene PCR	PTGEN	80095	Includes:	4/2/2013
Troumonibili delle i oli	TIGEN	00033	Prothrombin Gene Interpretation Prothrombin Gene Review	4,2,2010
			Specimen Requirement: 4 mL whole blood in an EDTA lavender top tube; Refrigerated	
			Methodology: Fluorescence Monitoring Polymerase Chain Reaction (PCR)	
			Reference Range: Normal	
			Days Performed: Monday, Wednesday, Friday	
			<b>Reported:</b> 7 - 10 days <b>CPT:</b> 81240	
			Price: \$180.00	
ROS1 gene	ROS1	89243	Specimen Requirement: Formalin-fixed, paraffin-embedded	3/21/2013
rearrangement by FISH			tissue specimen block; Refrigerated	
			Methodology: Fluorescent In-Situ Hybridization (FISH)  Days Performed: Sunday - Saturday	
			Reported: 4 - 6 days	
			CPT: 88368x2	
			Price: \$453.00 (non-discountable)	

## New Tests (cont.)

Test Name	Order Code	Billing Code	Test Information	Effective Date
Vaginal Pathogens DNA Direct Probes	VAGDNA	88354	Special information:  1. The vaginal specimen must be collected and transported using the BD Affirm VPIII Ambient Temperature Transport System only. 2. BD Affirm VPIII Ambient Temperature Sample Collection Tubes > 72 hours old will be rejected. 3. Vaginal specimens are the only acceptable specimen type. All others will be rejected. 4. Swabs submitted in any other media or collection system will be rejected. 5. Frozen samples will be rejected. 6. Vaginal specimens collected and received in the BD Affirm Ambient Temperature Sample Collection tube will be tested for all three organisms: Candida species, Gardnerella vaginalis and Trichomonas vaginalis. 7. This test is not recommended for premenarchal or postmenopausal women. ***Note: If only bacterial vaginosis is suspected, the clinician should order a miscellaneous Gram stain and obtain the appropriate collection device (swab). If only Candida species is suspected, the clinician should order a fungal smear and obtain the appropriate collection device (swab). If an order for bacterial vaginosis or Candida detection is placed, but the specimen is submitted in the BD Affirm Ambient Temperature Sample Collection tube, the order will be changed to include all three components of the assay (Vaginal Pathogens DNA Direct Probe/VAGDNA). If only Trichomonas is suspected the clinician must order the Vaginal Pathogens DNA Direct Probe and obtain the appropriate collection device (BD Affirm Ambient Temperature Sample Collection tube).	3/5/2013
			Includes: Candida species DNA Probe Gardnerella DNA Probe Trichomonas vaginalis DNA Probe	
			Specimen Requirement: Vaginal swab placed into BD Affirm VPIII Ambient Temperature Sample Collection Tube; Ambient	
			Methodology: Qualitative DNA Probe	
			Reference Range: Negative	
			Days Performed: Monday - Friday	
			Reported: 2 - 3 days	
			<b>CPT:</b> 87480, 87510, 87660	
			<b>Price:</b> \$189.00	

#### **Discontinued Tests**

Test Name	Order Code	Billing Code	Test Information	Effective Date
Factor V Leiden	FVLEID	79827	This test will no longer be available. Suggest ordering Factor V Leiden PCR (FVLEI)	3/26/2013
FAP Mutation Screen	FAPSCR	82499	This test will no longer be available.	1/31/2013
MTHFR by PCR	MTHFR	81692	This test will no longer be available. Suggest ordering MTHFR Gene Analysis (MTHF)	3/19/2013
Motor Neuropathy Profile Complete	MOTNEU	82183	This test will no longer be available.	2/14/2013
Prothrombin Gene Mutation	PTGENE	80095	This test will no longer be available. Suggest ordering Prothrombin Gene PCR (PTGEN)	4/2/2013