

Technical Update • June 2021

Cleveland Clinic Laboratories is dedicated to keeping you updated and informed about recent testing changes. This Technical Update is provided on a monthly basis to notify you of any changes to the tests in our catalog.

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

To compare the new information with previous test information, refer to the online Test Directory at clevelandcliniclabs.com. Test information is updated in the online Test Directory on the Effective Date stated in the Technical Update. 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	Name Change Order Code	New Test	Test Discontinued	Special Information	Specimen Requirement	Component Change(s)	Methodology	Days Performed/Reported Reference Range	Stability	CPT	Fee
3	Acetazolamide											
3	Acyclovir											
9	Allergen, Occupational, Tobacco											
3	Antidepressant Panel Quantitative, Urine											
9	Autoimmune Dysautonomia Evaluation, Serum											
9	Autoimmune Encephalopathy Evaluation, Serum											
3	Baclofen											
9	BAL, Routine											
3	Blastomyces Antigen											
7	Blastomyces Antigen Quantitative, Urine											
3	Carbohydrate, Urine											
3	Chromium, Blood											
4, 9	Chromosome Analysis, Rule Out Mosaicism											
9	Chronic Lymphoproliferative Disorder NGS Peripheral Blood											
4	Copper											
4	Copper/Zinc											
4	Cystatin C with Estimated GFR, Serum											
4	Ethambutol											
7	FISH for IGH/BCL2 Tissue											
8	FISH for IGH/CCND1 Tissue											
4	Flunitrazepam Screen, Urine											

Test Update Page #	Summary of Changes by Test Name	Name Change Order Code	New Test	Test Discontinued	Special Information	Specimen Requirement	Component Change(s)	Methodology	Days Performed/Reported Reference Range	Stability	CPT	Fee
4	Fluoxetine/Norfluoxetine											
4	Fluvoxamine, Serum and Plasma											
5	Gabitril											
5	Hepatitis Delta Virus Antigen											
5	HIV-1 RNA, Qualitative, TMA											
5	Hypercoagulation Diagnostic Interpretive Panel											
5	Ibuprofen											
5	IDH1 & IDH2 Hotspot Gene Panel Tissue											
9	Interleukin-6											
9	Lamellar Body Count											
6	Lead, Blood											
6	Manganese											
6	Methylphenidate and Metabolite Quantitative, Serum or Plasma											
8	Myasthenia Gravis Evaluation with Muscle-Specific Kinase (MuSK) Reflex, Serum											
8	Myasthenia Gravis (MG)/Lambert-Eaton Syndrome (LES) Evaluation, Serum											
9	Neisseria gonorrhoea Antibodies, Total											
9	NMP22 Bladder Tumor Marker											
6, 9	Pancreastatin											
9	Paraneoplastic Autoantibody Evaluation, Serum											
6	Parenteral Nutrition Package											
6	Polychlorinated Biphenyls (PCB) Panel, Serum or Plasma											
6	Propafenone											
9	Rapid PCR Assay for Influenza											
9	Rapid PCR Assay for RSV											
9	Respiratory Panel by Rapid PCR											
7	Silver, Urine											
7	Zinc											

Test Changes

Test Name	Order Code	Change	Effective Date
Acetazolamide	ACETAZ	<p>Specimen Requirement: 1 mL serum from a plain no additive (red) tube; Minimum: 0.3 mL; Do not use serum separator tubes; Separate serum from cells within 2 hours of collection and transfer into standard aliquot tube; Refrigerated</p> <p>*OR* 1 mL plasma from an EDTA (lavender) tube; Minimum: 0.3 mL; Do not use plasma separator tubes; Separate plasma from cells within 2 hours of collection and transfer into standard aliquot tube; Refrigerated</p> <p>Stability: Ambient: 1 month Refrigerated: 1 month Frozen: 1 month</p> <p>Methodology: High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)</p> <p>Days Performed: Varies</p> <p>Reported: 6–9 days</p>	Effective immediately
Acyclovir	ACYCLO	<p>Days Performed: Varies</p> <p>Reported: 9–12 days</p>	Effective immediately
Antidepressant Panel Quantitative, Urine	UTCAQT	<p>Days Performed: Varies</p> <p>Reported: 5–8 days</p>	Effective immediately
Baclofen	BACLOF	<p>Special Information: Separator tubes are unacceptable. This test is New York DOH approved.</p> <p>Specimen Requirement: 1 mL serum from a plain no additive (red) tube; Minimum: 0.4 mL; Do not use serum separator tubes; Separate serum from cells within 2 hours of collection and transfer into standard aliquot tube; Refrigerated</p> <p>*OR* 1 mL plasma from an EDTA (lavender) tube; Minimum: 0.4 mL; Do not use separator tubes; Separate plasma from cells within 2 hours of collection and transfer into standard aliquot tube; Refrigerated</p> <p>Days Performed: Varies</p> <p>Reported: 5–8 days</p>	Effective immediately
Blastomyces Antigen	BLAS	<p>Specimen Requirement: 2 mL serum from a serum separator (gold) tube; Minimum: 1.2 mL; Centrifuge and transfer serum to standard plastic aliquot tube; Indicate source; List all antifungal agents patient is receiving; Ambient</p> <p>*OR* 2 mL serum from a plain no additive (red) tube; Minimum: 1.2 mL; Centrifuge and transfer serum to standard plastic aliquot tube; Indicate source; List all antifungal agents patient is receiving; Ambient</p> <p>*OR* 2 mL cerebrospinal fluid (CSF) in a sterile container; Minimum: 0.8 mL; Use a sterile, leak-proof container; Indicate source; List all antifungal agents patient is receiving; Ambient</p> <p>*OR* 2 mL bronchoalveolar lavage (BAL) specimen in a sterile container; Minimum: 0.5 mL; Use a sterile, leak-proof container; Indicate source; List all antifungal agents patient is receiving; Ambient</p> <p>*OR* 2 mL plasma from an EDTA (lavender) tube; Minimum: 1.2 mL; Centrifuge and transfer plasma to standard plastic aliquot tube; Indicate source; List all antifungal agents patient is receiving; Ambient</p> <p>*OR* 2 mL plasma from a sodium heparin (green) tube; Minimum: 1.2 mL; Centrifuge and transfer plasma to standard plastic aliquot tube; Indicate source; List all antifungal agents patient is receiving; Ambient</p> <p>*OR* 2 mL plasma from a 3.2% sodium citrate (light blue) tube; Minimum: 1.2 mL; Centrifuge and transfer plasma to standard plastic aliquot tube; Indicate source; List all antifungal agents patient is receiving; Ambient</p> <p>*OR* 2 mL body fluid in a sterile container; Minimum: 0.5 mL; Use a sterile, leak-proof container; Indicate source; List all antifungal agents patient is receiving; Ambient</p>	9/23/21
Carbohydrate, Urine	UCARB	<p>Special Information: Screening for disorders with increased excretion of fructose, glucose, galactose, disaccharides, oligosaccharides, and succinylpurines. If qualitative result is suggestive of an elevation of galactose, testing will be performed at an additional charge.</p>	Effective immediately
Chromium, Blood	CHROM	<p>Stability: Ambient: 30 days Refrigerated: 30 days Frozen: 30 days</p>	Effective immediately

Test Changes (Cont.)

Test Name	Order Code	Change	Effective Date
Chromosome Analysis, Rule Out Mosaicism	CHRMOS	CPT: 88230 x 1, 88263 x 1, 88289 x 1	7/10/21
Copper	COPPER	Stability: Ambient: 30 days Refrigerated: 30 days Frozen: 30 days	Effective immediately
Copper/Zinc	CUZLN	Stability: Ambient: 30 days Refrigerated: 30 days Frozen: 30 days	Effective immediately
Cystatin C with Estimated GFR, Serum	CYCGFR	<p>Includes: eGFR by Cystatin C Cystatin C <i>(Note: Test directory update for components)</i></p> <p>Special Information: Grossly hemolyzed or icteric specimens will be rejected. This test is New York DOH approved.</p> <p>Clinical Limitation: An index of glomerular filtration rate (GFR), especially in patients where serum creatinine may be misleading (e.g., very obese, older adults, or malnourished patients). Calculation of CKD-EPI cystatin C estimated GFR for patients where serum creatinine may be misleading (e.g., very obese, older adults, or malnourished patients).</p> <p>Clinical Information: This test is useful for assessing renal function in patients suspected of having kidney disease and monitoring treatment response in patients with kidney disease.</p> <p>Specimen Requirement: 0.5 mL serum from a serum separator (gold) tube; Minimum: 0.25 mL; Refrigerated</p> <p>*OR* 0.5 mL serum from a plain no additive (red) tube; Minimum: 0.25 mL; Refrigerated</p> <p>Stability: Ambient: 7 days Refrigerated: 14 days Frozen: 30 days</p> <p>Reference Range: eGFR by Cystatin C > 60 mL/min/BSA Adult eGFR: Estimated GFR calculated using CKD-EPI Cystatin C equation Pediatric eGFR: Estimated GFR calculated using Schwartz Cystatin C equation Cystatin C 0–17 Years: Not established 18–49 Years: 0.63–1.03 mg/L 50–99 Years: 0.67–1.21 mg/L</p> <p>Days Performed: Monday–Sunday Reported: 1–2 days</p>	Effective immediately
Ethambutol	ETHAMB	<p>Specimen Requirement: 1 mL serum from a plain no additive (red) tube; Minimum: 0.4 mL; Do not use serum separator tubes; Separate serum from cells within 2 hours of collection and transfer into standard aliquot tube; Refrigerated</p> <p>*OR* 1 mL plasma from an EDTA (lavender) tube; Minimum: 0.4 mL; Do not use separator tubes; Separate plasma from cells within 2 hours of collection and transfer into standard aliquot tube; Refrigerated</p> <p>Days Performed: Varies Reported: 9–12 days CPT: 80375 x 1</p>	Effective immediately
Flunitrazepam Screen, Urine	FLUNU	Days Performed: Varies Reported: 6–13 days	Effective immediately
Fluoxetine/Norfluoxetine	FLUOX	Days Performed: Varies Reported: 6–9 days	Effective immediately
Fluvoxamine, Serum and Plasma	FLUVOX	Days Performed: Varies Reported: 6–9 days	Effective immediately

Test Changes (Cont.)

Test Name	Order Code	Change	Effective Date
Gabitril	GABIT	<p>Special Information: Patient Prep: Pre-dose (trough) draw. Separator tubes will be rejected. This test is New York DOH approved.</p> <p>Note: <i>Tiagabine will be added as an alias name.</i></p> <p>Days Performed: Varies</p> <p>Reported: 9–12 days</p>	Effective immediately
Hepatitis Delta Virus Antigen	HDVAG	<p>Specimen Requirement: 1 mL serum from a plain no additive (red) tube; Minimum: 0.5 mL; Transfer serum to a standard aliquot tube; Critical Frozen</p> <p>*OR* 1 mL serum from a serum separator (gold) tube; Minimum: 0.5 mL; Transfer serum to a standard aliquot tube; Critical Frozen</p> <p>Stability: Ambient: Unacceptable Refrigerated: Unacceptable Frozen: 2 weeks</p>	Effective immediately
HIV-1 RNA, Qualitative, TMA	HIVTMA	<p>Specimen Requirement: 2 mL plasma from an EDTA (lavender) tube; Minimum: 0.8 mL; Separate plasma from cells ASAP or within 24 hours of collection, transfer into standard aliquot tube and freeze; Frozen</p> <p>*OR* 2 mL plasma from an ACD A (yellow) or ACD B (yellow) tube; Minimum: 0.8 mL; Separate plasma from cells ASAP or within 24 hours of collection, transfer into standard aliquot tube and freeze; Frozen</p> <p>*OR* 2 mL plasma from an EDTA (white) plasma preparation tube (PPT); Minimum: 0.8 mL; Separate plasma from cells ASAP or within 24 hours of collection, transfer into standard aliquot tube and freeze; Frozen</p> <p>Stability: Ambient: After separation from cells: Unacceptable Refrigerated: After separation from cells: 72 hours Frozen: After separation from cells: 90 days</p> <p>Days Performed: Sunday–Saturday</p> <p>Reported: 2–5 days</p>	Effective immediately
Hypercoagulation Diagnostic Interpretive Panel	HYPER	<p>For Interfaced Clients Only: Test build may need to be modified</p> <p>Includes: Prothrombin Time (PT) APTT Fibrinogen Cardiolipin Antibodies C-Reactive Protein Homocysteine APTTSC TT ANTIXA Protein C Functional PTGEN</p>	6/1/21
Ibuprofen	IBUPRO	<p>Days Performed: Varies</p> <p>Reported: 9–12 days</p>	Effective immediately
IDH1 & IDH2 Hotspot Gene Panel Tissue	IDH12G	<p>Includes: IDH1 IDH2 <i>(Note: Test directory update for components)</i></p> <p>Note: Previously order code IDH12GN</p> <p>Test Name: Previously IDH1 & IDH2 Gene Analysis</p> <p>Specimen Requirement: 10 mm square formalin-fixed paraffin-embedded (FFPE) tissue block; FFPE tissue slides; Transport and store slides at ambient temperature; 10 unstained sections FFPE tissue on charged, unbaked slides plus one H&E stained section with best tumor area circled by a pathologist; Ambient</p> <p>Stability: Ambient: Indefinitely for FFPE slides; FFPE slides can be transported at ambient temperature Refrigerated: Unacceptable Frozen: Not acceptable</p> <p>Methodology: Next Generation DNA Sequencing</p>	Effective immediately

Test Changes (Cont.)

Test Name	Order Code	Change	Effective Date
Lead, Blood	LEAD2	Stability: Ambient: 1 month Refrigerated: 1 month Frozen: 1 month	Effective immediately
Manganese	MANGAN	Stability: Ambient: 30 days Refrigerated: 30 days Frozen: 30 days	Effective immediately
Methylphenidate and Metabolite Quantitative, Serum or Plasma	RITALN	Days Performed: Varies Reported: 9–12 days	Effective immediately
Pancreastatin	PANCST	Special Information: Patient should not be on any medications that may influence Insulin levels, if possible, for at least 48 hours prior to collection. Patient should be fasting 10 hours prior to collection. Patient may drink plain water; no other liquid is acceptable. This test is New York DOH approved. Specimen Requirement: 3 mL plasma; Minimum: 1 mL; Collect 10 mL blood using pre-chilled Z-tube (Mayo supply # MCL T701); Separate plasma from cells immediately after draw and transfer 3 mL plasma into a standard aliquot tube and freeze; Critical Frozen Stability: Ambient: Unacceptable Refrigerated: Unacceptable Frozen: 60 days Methodology: Direct RIA Reference Range: 10–135 pg/mL Days Performed: Monday–Friday Reported: 8–10 days CPT: 83519 x 1	6/1/21
Parenteral Nutrition Package	TPNTE	Stability: Ambient: 30 days Refrigerated: 30 days Frozen: 30 days	Effective immediately
Polychlorinated Biphenyls (PCB) Panel, Serum or Plasma	PBPS	Special Information: Separator tubes are unacceptable. This test is New York DOH approved. Specimen Requirement: 2 mL serum from a plain no additive (red) tube; Minimum: 0.7 mL; Do not use serum separator tubes; Separate serum from cells within 2 hours of collection and transfer into standard aliquot tube; Refrigerated *OR* 2 mL plasma from an EDTA (lavender) tube; Minimum: 0.7 mL; Do not use separator tubes; Separate plasma from cells within 2 hours of collection and transfer into standard aliquot tube; Refrigerated Stability: Ambient: 48 hours Refrigerated: 2 weeks Frozen: 1 year Days Performed: Varies Reported: 6–9 days	Effective immediately
Propafenone	PROPA	Note: <i>Arythmol, Rythmol, and Rytmonorm will be removed as alias names.</i> Specimen Requirement: 1 mL serum from a plain no additive (red) tube; Minimum: 0.21 mL; Do not use serum separator tubes; Separate serum from cells within 2 hours of collection and transfer into standard aliquot tube; Refrigerated *OR* 1 mL plasma from an EDTA (lavender) tube; Minimum: 0.21 mL; Do not use separator tubes; Separate plasma from cells within 2 hours of collection and transfer into standard aliquot tube; Refrigerate Stability: Ambient: 1 month Refrigerated: 1 month Frozen: 15 months Days Performed: Varies Reported: 9–12 days	Effective immediately

Test Changes (Cont.)

Test Name	Order Code	Change	Effective Date
Silver, Urine	UAG	Stability: Ambient: 14 days Refrigerated: 30 days Frozen: 30 days	7/12/21
Zinc	ZINC	Stability: Ambient: 30 days Refrigerated: 30 days Frozen: 30 days	Effective immediately

New Tests

Test Name	Order Code	Change	Effective Date
Blastomyces Antigen Quantitative, Urine	UBLSAG	<p>Includes: Blastomyces dermatitidis EIA, Interp Blastomyces Antigen, Urine</p> <p>Special Information: Specimens received in preservative will be rejected.</p> <p>Clinical Limitation: Antigen concentrations less than 1.25 U/mL or greater than 200 U/mL fall outside the linear range of the assay and cannot be accurately quantified. Cross-reactivity with other endemic mycoses (Histoplasma and Coccidioides) may occur.</p> <p>Clinical Information: Normal range: Not Detected. This enzyme immunoassay (EIA) test should be used in conjunction with other diagnostic procedures, including microbiological culture, histological examination of biopsy samples, serology and/or radiographic evidence, to aid in the diagnosis of blastomycosis. Positive test results should be correlated with other clinical findings and relevant exposure history.</p> <p>Specimen Requirement: 1 mL random urine in a clean container (No preservatives); Refrigerated</p> <p>Stability: Ambient: Unacceptable Refrigerated: 2 weeks Frozen: Indefinitely</p> <p>Methodology: Enzyme Immunoassay (EIA)</p> <p>Days Performed: Tuesday, Thursday, Saturday</p> <p>Reported: 2–5 days</p> <p>CPT: 87449 x 1</p> <p>Price: \$155.00 (non-discountable)</p>	9/23/21
FISH for IGH/BCL2 Tissue	T1418	<p>Specimen Requirement: Four unstained tissue slides in a clean container; 4 μm tissue sections on electrostatically charged slides containing representative tumor; Tissue must be formalin-fixed; Samples must not be fixed in B5 or Prefer fixative; Ambient</p> <p>*OR* One formalin-fixed paraffin block in a clean container; Tissue must be formalin-fixed; Samples must not be fixed in B5 or Prefer fixative; Ambient</p> <p>Stability: Ambient: Blocks and slides should be transported at ambient temperature</p> <p>Methodology: Fluorescent In-Situ Hybridization (FISH)</p> <p>Days Performed: 5 days per week</p> <p>Reported: 5 days</p> <p>CPT: 88377 x 2</p> <p>Price: \$881.00</p>	Effective immediately

New Tests (Con't)

Test Name	Order Code	Change	Effective Date
FISH for IGH/CCND1 Tissue	T1114	<p>Specimen Requirement: Four unstained tissue slides; 4 μm tissue sections on electrostatically charged slides containing representative tumor; Tissue must be formalin-fixed; Samples must not be fixed in B5 or Prefer fixative; Ambient</p> <p>*OR* One formalin-fixed paraffin block in a clean container; Tissue must be formalin-fixed; Samples must not be fixed in B5 or Prefer fixative; Ambient</p> <p>Stability: Ambient: Blocks and slides should be transported at ambient temperature</p> <p>Methodology: Fluorescent In-Situ Hybridization (FISH)</p> <p>Days Performed: 5 days per week</p> <p>Reported: 5 days</p> <p>CPT: 88377 x 2</p> <p>Price: \$881.00</p>	Effective immediately
Myasthenia Gravis Evaluation with Muscle-Specific Kinase (MuSK) Reflex, Serum	MYSGRV	<p>Note: <i>This test was previously announced in the May Technical Update.</i></p> <p>Price: \$39.00 (non-discountable)</p>	Effective immediately
Myasthenia Gravis (MG)/Lambert-Eaton Syndrome (LES) Evaluation, Serum	MGLESE	<p>Note: <i>This test was previously announced in the May Technical Update.</i></p> <p>Price: \$220.00 (non-discountable)</p>	Effective immediately

Fee Increases

Test Name	Order Code	List Fee	CPT Code	Effective Date
Autoimmune Encephalopathy Evaluation, Serum	ENC SER	\$1089.00 (non-discountable)	86255 x 19, 86341	Effective immediately
Chromosome Analysis, Rule Out Mosaicism	CHRMOS	\$790.00 (non-discountable)	88230, 88263, 88289	7/10/21
NMP22 Bladder Tumor Marker	NMP22	\$271.00 (non-discountable)	86316	Effective immediately
Pancreastatin	PANCST	\$295.00 (non-discountable)	83519	6/1/21
Paraneoplastic Autoantibody Evaluation, Serum	PARNEO	\$666.00 (non-discountable)	83519 x 3, 86255 x 9	Effective immediately

Fee Reductions

Test Name	Order Code	List Fee	CPT Code	Effective Date
Autoimmune Dysautonomia Evaluation, Serum	AIDYSA	\$489.00 (non-discountable)	83519, 86255 x 6	Effective immediately
BAL, Routine	BALAVI	\$41.00 (non-discountable)	89051	7/19/21
Chronic Lymphoproliferative Disorder NGS Peripheral Blood	LPPNGS	\$932.00 (non-discountable)	81450	6/13/21

Discontinued Tests

Test Name	Order Code	Test Information	Effective Date
Allergen, Occupational, Tobacco	TOBAC	This test will no longer be available.	Effective immediately
Interleukin-6	INT6	This test will no longer be available. Suggest ordering Interleukin-6 (IL-6) (INLKN6)	6/19/21
Lamellar Body Count	LMBDCT	This test will no longer be available.	Effective immediately
Neisseria gonorrhoea Antibodies, Total	NGAB	This test will no longer be available.	Effective immediately
Rapid PCR Assay for Influenza	FLUPCR	This test will no longer be available.	7/12/21
Rapid PCR Assay for RSV	RSPCR	This test will no longer be available.	Effective immediately
Respiratory Panel by Rapid PCR	RPRAPD	This test will no longer be available. Suggest ordering Respiratory Panel and SARS-CoV-2 by Rapid PCR (RPRACV)	Effective immediately