

CALINX Lab LOINC Codes (2011)

Tests Requiring Special Coding in the CALINX OBX Segment

This addendum to the CALINX Lab specification lists the laboratory tests that require special coding in the OBX Segment of CALINX messages. Specifically, LOINC® codes¹ must be used to identify the tests and certain other fields must be populated in a specific way.

In the 2011 update of the CALINX Laboratory Data Standard, the set of tests that require special coding corresponds to the set of tests that are used in the calculation of HEDIS and P4P measures. Additionally, childhood lead screening tests are included among the listed LOINC codes (but are not part of either the HEDIS or Pay-for-Performance measures). Approximately 60 such tests have been designated. This set of tests was selected for special coding because (1) it represents the tests that are most useful for quality-improvement programs related to HEDIS and Pay-for-Performance (P4P), and (2) it represents a manageable set of tests for laboratories to LOINC encode in a reasonable time. In addition, NCQA has specified the LOINC codes for all lab tests used in HEDIS measures as part of the 2011 version of HEDIS, so laboratory result data that is LOINC encoded in CALINX messages may be used directly in the calculation of HEDIS and P4P measures in 2011.

The following paragraphs define each column in the tables of this LOINC code update.

Test Purpose: The highest level grouping of tests, which classifies tests by their use in HEDIS and/or P4P measures. Each grouping may be related to a particular HEDIS/P4P measure (“Comprehensive diabetes care”) or to the identification of cohorts of patients as specified in HEDIS/P4P measures (“Tests to identify sexually active women”). These groupings should be familiar to users of HEDIS/P4P measures, and allow them to identify the LOINC codes and other coding specifications that are needed for these measures.

Test Category: The second-level grouping of tests, which classifies tests by the clinical nature of the test (“Pap smear”) or clinical objective (“Test for diabetic nephropathy”). Again, these groupings should be familiar to users of HEDIS/P4P measures and should assist them in identifying the specific tests that are relevant to these measures.

Test: The names of the specific tests that should be mapped to LOINC codes by laboratories that are sending batch reports in the CALINX Laboratory Data Standard. These names specify the “analyte” (i.e., the specific substance being measured or detected), the method of measurement/detection (e.g., culture vs. DNA probe for microorganisms), and some of the specimens on which the test may be performed. This information should be sufficient for laboratories to identify the specific tests in their test masters that require LOINC coding.

LOINC Code(s): The LOINC codes that correspond to the named tests, as specified by NCQA for the current year’s HEDIS measures². Laboratories may also use the definitions of these tests as specified in the LOINC standard (see www.loinc.org) to identify the specific tests in their test masters that require

¹ Logical Observation Identifiers Names and Codes (LOINC®) is a standard, non-proprietary coding system for laboratory tests and other clinical observations. LOINC codes uniquely identify tests based on a combination of their features, including the analyte being measured, the specimen being tested, and the test methodology being used. Over 25,000 LOINC codes exist for laboratory tests. See www.loinc.org for additional information.

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LOINC coding. Additionally, provider organizations and payers receiving reports in the CALINX Laboratory Data Standard may use these codes to identify the lab tests that meet the criteria for HEDIS and P4P measures. For example, the information in this column indicates that any tests with the LOINC code 4548-4, 4549-2, or 17856-6 qualifies as a hemoglobin A1c test for purposes of HEDIS/P4P measures.

Comparable CPT Code(s): This column shows the CPT codes that are specified at the level of test purpose, test category, or individual test for the current year's HEDIS measures. This data is useful in relating the individual tests and the LOINC codes listed in these tables to the CPT codes that are currently used for HEDIS measures, something that may assist organizations in migrating to CALINX Laboratory Data Standard reports for HEDIS reporting. Note that the information in this field does not necessarily provide a one-to-one mapping from LOINC codes to CPT codes, or vice-versa.

Value Type: The HL7 defined data type that may appear in an OBX segment that contains the result for this test. The value "NM" indicates a numeric value (such as "7.4"), "SN" indicates a structured numeric value (such as "< 2.3"), "ST" indicates a short string value (such as "Negative"), and "TX" indicates a long string value (such as "organism identified as S. Pyogenes, sensitive to ampicillin and penicillin"). As shown below, the value of this column for the HgbA1c test indicates that the result of the test may either have a numeric value ("NM") or a structured numeric value ("SN"), depending on the specific test result. The information in this column helps organizations receiving CALINX Laboratory Data Standard reports to anticipate how the results for certain tests may be formatted.

Note: NM or SM depends on whether it's within (NM) or outside (SN) the limits of linearity. If no result at all can be obtained, it should be denoted by placing no value in the Observation Value field, no value in the Value Type field, and "X" put in the Observation Result Status field. An NTE segment (optionally) may then be included to explain why no result was obtainable.

Sample Result(s): This column simply shows some example values for the results of the indicated tests, again to help organizations receiving CALINX Laboratory Data Standard reports to anticipate how the results for certain tests may be formatted.

Units: Indicates whether the OBX segment that reports the result of this test should have the Units field populated or not. If the value is 'RE' ("Required but might be empty"), then labs that send CALINX Laboratory Data Standard reports should always populate the units field for this test, if known. For example, the units field for the HgbA1C test should always be populated. If the value is 'O' ("Optional"), then labs that send CALINX Laboratory Data Standard reports are not obliged to populate the units field for this test (i.e., they may do so at their discretion).

Note that the value of the units column does not specify what the actual units should be (i.e., mg/dl, g/dL, mU/ml, etc.), because this specification may vary from lab to lab and is readily convertible. However, knowing whether one can rely on this field to be populated for any particular test is useful in developing software to process and analyze CALINX Laboratory Data Standard reports.

Reference Range: Indicates whether the OBX segment that reports the result of this test should have the Reference Range field populated or not. If the value is 'RE' ("Required but might be empty"), then labs that send CALINX Laboratory Data Standard reports should always populate the Reference Range field for this test, if known. For example, the Reference Range field for the Alpha-1-Fetoprotein serum test should always be populated. If the value is 'O' ("Optional"), then labs that send CALINX Laboratory Data Standard reports are not obliged to populate the Reference Range field for this test (i.e., they may do so at their discretion). Note that the value of the Reference Range column does not specify what the Reference Range should be, only whether it should contain some non-null value.

Normal/Abnormal Flag: Indicates whether the OBX segment that reports the result of this test should have the Abnormal Flags field (OBX-8) populated or not. If the value is 'RE' ("Required but might be

empty”), then labs that send CALINX Laboratory Data Standard reports should always populate the Abnormal Flags field for this test, if known. For example, the Abnormal Flags field for the HgbA1c test should always be populated. If the value is ‘O’ (“Optional”), then labs that send CALINX Laboratory Data Standard reports are not obliged to populate the Abnormal Flags field for this test (i.e., they may do so at their discretion).

In certain cases, an OBX segment may contain no test result value. This situation occurs if one component of a panel was cancelled or could not be completed (i.e., if OBX-11 Observation Result Status = “X”). In these cases, the coding requirements specified below do not apply. Specifically, the following OBX fields may be *unpopulated* (not present), regardless of the specifications in this appendix:

OBX-2 Value Type
OBX-5 Observation Value
OBX-6 Units
OBX-7 Reference Range
OBX-8 Abnormal Flags

Test Code Change Formatting: The LOINC codes in the following table that are struck-through and printed in red (e.g., “~~32003-6, 32004-4, 32671-0~~”) have been removed from the HEDIS/P4P measures for the 2011 reporting period. These codes have been left in this specification and specially noted for historical and backward compatibility purposes. The LOINC codes that are bold and printed in blue are new for the 2011 HEDIS/P4P reporting period (e.g., “**30429-3, 40394-4, 90423-9**”).

Test Update Summary for CALINX Lab 2011 [21 added]

- Comprehensive Diabetes Care
 - Measures of blood hemoglobin A1c
 - HgbA1c % [1 added]
 - Tests for Diabetic Nephropathy
 - Urine Albumin [3 added]
 - Urine Protein [3 added]
- Colorectal Cancer Screening
 - Fecal Occult Blood Test
 - Hemoccult (FOBT) [4 added]
- Tests to identify sexually active women
 - Human papilloma virus (HPV) Tests
 - HPV DNA Probe [3 added]
- Chlamydia Screening Exclusion, Tests to identify sexually active women
 - HCG, Serum [1 added]
 - beta-HCG, Serum [1 added]
 - beta-HCG, Urine [1 added]
- Tests indicating Pre-Natal Care Obtained, Tests to indentify sexually active women
 - Syphilis Tests
 - Treponema pallidum Antibody Assays, Serum [1 added]
- Physiologic Monitoring Tests for Patients on Persistent Medications
 - Serum Creatinine (SCR)
 - Serum Creatinine (SCr) [2 added]

- Blood Urea Nitrogen (BUN)
 - Blood Urea Nitrogen (BUN) [1 added]

| Test Purpose | Test Category | Test | LOINC Code(s) | Comparable CPT Code(s) | Value Type | Sample Result(s) | Units | Reference Range | Normal/Abnormal Flag |
|------------------------------------|---|--|--|---|------------|------------------|-------|-----------------|----------------------|
| Comprehensive Diabetes Care | | | | | | | | | |
| | Measures of blood hemoglobin A1c | | | 83036 | | | | | |
| | | HgbA1c % | 4548-4, 4549-2, 17856-6, 59261-8 | | NM, SN | 6% | RE | O | RE |
| | Tests for Diabetic Nephropathy | | | 81000-81003, 81005, 36819 | | | | | |
| | | Urine Albumin | 1753-3, 1754-1, 1755-8, 21059-1, 43605-5, 43606-3, 43607-1, 49023-5, 50949-7, 47558-2, 53530-2, 53531-0, 53532-8, 56553-1, 57369-1, 58448-2 | | NM, SN, ST | 25 g/dl | RE | O | RE |
| | | Urine Albumin/ Creatinine ratio | 9318-7, 13705-9, 14585-4, 20621-9, 32294-1, 44292-1 | | NM, SN | 25.6 ug/mg | RE | O | RE |
| | | Urine Protein | 2887-8, 2888-6, 2889-4, 12842-1, 18373-1, 21482-5, 26801-1, 27298-9, 32209-9, 32551-4, 35663-4, 20454-5, 5804-0, 40662-9, 40663-7, 53121-0, 50561-0, 53525-2, 58992-9, 59159-4, 57735-3 | | NM, SN | 9 mg/dl | RE | O | RE |
| | | Urine Protein/ Creatinine ratio | 2890-2, 13801-6, 34366-5, 40486-3 | | NM, SN | not available | O | O | O |
| | | Albumin Renal Clearance | 1757-4 | | NM, SN | Not available | RE | O | RE |
| | Tests for Microalbuminuria | | | 82042, 82043, 82044 or 84155, 84160, 84165 with | | | | | |

| Test Purpose | Test Category | Test | LOINC Code(s) | Comparable CPT Code(s) | Value Type | Sample Result(s) | Units | Reference Range | Normal/Abnormal Flag |
|---|---------------|--|--|---|------------|------------------|-------|-----------------|----------------------|
| | | | | code 81050 | | | | | |
| | | Urine Microalbumin | 11218-5, 14956-7, 14957-5, 30003-8 | | NM, SN | 25 ug/ml | RE | O | RE |
| | | Urine Microalbumin/ Creatinine ratio | 14958-3, 14959-1, 30000-4, 30001-2 | | NM, SN | 25.6 ug/mg | RE | O | RE |
| Comprehensive Diabetes Care, Cholesterol Management after CV event | | | | | | | | | |
| | | Serum LDL Cholesterol Measurement | | 80061, 83715, 83716, 83721 | | | | | |
| | | LDL-Cholesterol | 2089-1, 12773-8, 13457-7, 18261-8, 18262-6, 22748-8, 39469-2, 49132-4, 55440-2 | | NM, SN | 90 mg/dl | RE | O | RE |
| Cervical cancer screening | | | | 88141-88145, 88147, 88148, 88150, 88152,- 88155, 88164-88167, 88174-88175 | | | | | |
| | | Pap Smear | | | | | | | |
| | | Pap Smear (cytology) | 10524-7, 18500-9, 19765-7, 19766-5, 19764-0, 19762-4, 19774-9, 33717-0, 47527-7, 47528-5 | | ST, TX | TEXT REPORTS | O | O | O |
| Colorectal Cancer Screening | | | | | | | | | |
| | | Fecal Occult Blood Test | | 82270, 82274 | | | | | |
| | | Hemoccult (FOBT) | 2335-8, 12503-9, 12504-7, 14563-1, 14564-9, 14565-6, 27396-1, 27401-9, 27925-7, | | ST | Negative | O | O | O |

| Test Purpose | Test Category | Test | LOINC Code(s) | Comparable CPT Code(s) | Value Type | Sample Result(s) | Units | Reference Range | Normal/Abnormal Flag |
|---|--|--|---|----------------------------|------------|------------------|-------|-----------------|----------------------|
| | | | 27926-5, 29771-3, 58453-2 , 56490-6 , 56491-4 , 57905-2 | | | | | | |
| Tests for Detecting Active Streptococcus Pyogenes (group A) Infections | | | | | | | | | |
| | Detection by enzyme immunoassay | | | 86317, 86403, 87430, 87449 | | | | | |
| | | S. pyogenes Antigen | 6556-5, 6557-3, 6558-1, 6559-9, 18481-2, 31971-5 | | ST | Negative | O | O | O |
| | Detection by nucleic acid | | | 87650-87652 | | | | | |
| | | S. pyogenes DNA | 49610-9 | | ST, TX | | O | O | O |
| | | S. pyogenes rRNA | 5036-9 | | ST, TX | | O | O | O |
| | Detection by throat culture | | | 87070, 87071, 87081 | | | | | |
| | | S. pyogenes Culture | 11268-0, 17656-0 | | ST, TX | Negative | O | O | O |
| | | Throat Culture | 626-2 | | ST, TX | Negative | O | O | O |
| Tests to identify sexually active women | | | | | | | | | |
| | Alpha-1-Fetoprotein Tests | | | 82105, 82106 | | | | | |
| | | Alpha-1-Fetoprotein, amniotic fluid | 1832-5, 15019-3, 19171-8, 43798-8, 49318-9, 41273-4 | | NM | not available | RE | RE | RE |
| | | Alpha-1-Fetoprotein, serum | 1834-1, 19176-7, 19177-5, 31993-9, 49246-2, 41274-2 | | NM | not available | RE | RE | RE |

| Test Purpose | Test Category | Test | LOINC Code(s) | Comparable CPT Code(s) | Value Type | Sample Result(s) | Units | Reference Range | Normal/Abnormal Flag |
|--------------|--|---|---|------------------------|----------------|------------------|-------|-----------------|----------------------|
| | Fetal Fibronectin | | | 82731 | | | | | |
| | | Fetal Fibronectin | 20403-2, 20404-0, 48039-2 | | ST | NEGATIVE | O | O | O |
| | Amniotic Fluid Cytogenetics Tests | | | <none listed> | | | | | |
| | | Amniocentesis - Karyotype | 33773-3 | | ST, TX | not available | O | O | O |
| | | Amniocentesis - Gene Mutation Analysis | 34493-7, 34656-9, 34718-7, 42316-0, 46989-0, 45327-4, 45331-6, 45332-4, 46731-6, 48030-1, 48781-9 | | ST, TX | not available | O | O | O |
| | | Maternal Cell Contamination | 35457-1 | | ST, TX | not available | O | O | O |
| | N. gonorrhoeae Tests | | | <none listed> | | | | | |
| | | N. gonorrhoeae Culture | 688-2, 690-8, 691-6, 692-4, 693-2, 698-1 | | ST, TX | not available | O | O | O |
| | | N. gonorrhoeae Antibody | 53762-1 | | NM, SN, ST, TX | not available | O | O | O |
| | | N. gonorrhoeae Antigen | 6487-3, 6488-1, 6489-9, 29311-8, 31905-3, 31906-1 | | NM, SN, ST, TX | not available | O | O | O |
| | | N. gonorrhoeae DNA Probe | 21414-8, 21415-5, 21416-3, 24111-7, 32198-4, 32199-2, 32705-6, 47387-6, 43403-5 | | ST, TX | not available | O | O | O |
| | | N. gonorrhoeae rRNA Probe | 5028-6, 43305-2, 50388-8, 53879-3, 53927-0 | | ST, TX | not available | O | O | O |
| | Human papilloma virus (HPV) Tests | | | <none listed> | | | | | |

| Test Purpose | Test Category | Test | LOINC Code(s) | Comparable CPT Code(s) | Value Type | Sample Result(s) | Units | Reference Range | Normal/Abnormal Flag |
|---|------------------------|------------------------------|--|------------------------|-------------------------|--------------------|-------|-----------------|----------------------|
| | | HPV Antibody Assay | 6510-2, 6511-0, 7975-6 | | NM, SN, ST, TX | not available | ○ | ○ | ○ |
| | | HPV Antigen Detection | 10705-2, 12222-6, 12223-4, 14499-8, 14500-3, 14502-9, 14503-7, 14504-5, 14506-0, 17398-9, 17399-7, 17400-3, 17401-1, 17402-9, 17403-7, 17404-5, 17405-2, 17406-0, 17407-8, 17408-6, 17409-4, 17410-2, 17411-0, 17412-8, 44543-7, 44544-5 | | NM, SN, ST, TX | not available | ○ | ○ | ○ |
| | | HPV DNA Probe | 16280-0, 21440-3, 21441-1, 30167-1, 38372-9, 42481-2, 44550-2, 44549-4, 44546-0, 44547-8, 49896-4, 49891-5, 55299-2, 59263-4 , 59264-2 , 59420-0 | | ST, TX | not available | ○ | ○ | ○ |
| | | HPV rRNA Probe | 6514-4, 6516-9 | | ST, TX | not available | ○ | ○ | ○ |
| | | HPV Identification | 11083-3, 11481-9, 48560-7 | | ST, TX | not available | ○ | ○ | ○ |
| Chlamydia Screening Exclusion, Tests to identify sexually active women | | | | | | | | | |
| | Pregnancy Tests | | | 81025, 84702, 84703 | | | | | |
| | | HCG, Serum | 2118-8, 19080-1, 20994-0, 34670-0, 2119-6, 55870-0 | | NM, SN, ST | < 5, 14, NEG | RE | RE | RE |
| | | HCG, Urine | 2106-3, 25372-4, 2107-1 | | NM, SN, | < 5, 14, | RE | RE | RE |

| Test Purpose | Test Category | Test | LOINC Code(s) | Comparable CPT Code(s) | Value Type | Sample Result(s) | Units | Reference Range | Normal/Abnormal Flag |
|---|------------------------------------|--|---|------------------------|---|------------------|-------|-----------------|----------------------|
| | | | | | ST | NEG | | | |
| | | beta-HCG, Serum | 19180-9, 25373-2, 2115-4, 20415-6, 2110-5, 21198-7, 2111-3, 55869-2 | | NM, SN, ST | < 5, 14, NEG | RE | RE | RE |
| | | beta-HCG, Urine | 2113-9, 2112-1, 2114-7, 56497-1 | | NM, SN, ST | < 5, 14, NEG | RE | RE | RE |
| Chlamydia Screening Measure, Tests to identify sexually active women | | | | | | | | | |
| | Chlamydia trachomatis Tests | | | | 87110, 87270, 87320, 87490-87492, 87800, 87801, 87810 | | | | |
| | | Chlamydia trachomatis Culture | 660-1, 6349-5, 14463-4, 14464-2, 14467-5, 45098-1, 45100-5, 45095-7 | | ST, TX | Text Result | O | O | O |
| | | Chlamydia trachomatis Antigen Detection | 6354-5, 6355-2, 14470-9, 14471-7, 14474-1, 14509-4, 14510-2, 14513-6, 31771-9, 31772-7, 31775-0, 31777-6, 45091-6 | | SN, ST, TX | < 1:16, ALARM | O | O | O |
| | | Chlamydia trachomatis DNA Probe | 6356-0, 6357-8, 21189-6, 21190-4, 21191-2, 21613-5, 45084-1, 47212-6, 49096-1, 47211-8 | | ST | NEGATIVE | O | O | O |
| | | Chlamydia trachomatis rRNA Probe | 4993-2, 42931-6, 23838-6, 21192-0, 16601-7, 16600-9, 43304-5, 45078-3, 45080-9, 50387-0, 53926-2, 53925-4 | | ST, TX | not available | O | O | O |
| | | Chlamydia trachomatis+Neisseria gonorrhoeae DNA Probe | 36903-3, 36902-5, 43406-8, 43404-3, 45068-4, 44807-6, 44806-8 | | ST, TX | not available | O | O | O |

| Test Purpose | Test Category | Test | LOINC Code(s) | Comparable CPT Code(s) | Value Type | Sample Result(s) | Units | Reference Range | Normal/Abnormal Flag |
|--|--------------------------------|--|---|-----------------------------------|------------|-------------------|-------|-----------------|----------------------|
| | | Chlamydia trachomatis+Neisseria gonorrhoeae rRNA Probe | 45067-6, 45069-2, 45074-2, 45070-0, 45076-7 | | ST, TX | not available | ○ | ○ | ○ |
| | Chlamydia Species Tests | | | <none listed> | | | | | |
| | | Chlamydia Species Culture | 557-9, 560-3 | | ST, TX | Text Result | ○ | ○ | ○ |
| Tests Indicating Pre-Natal Care Obtained, Tests to identify sexually active women | | | | 80055, 80090, 86762, 86900, 86901 | | | | | |
| | Syphilis Tests | | | <none listed> | | | | | |
| | | Reagin Antibody, Serum | 5291-0, 5292-8, 11084-1, 20507-0, 20508-8, 22461-8, 22462-6, 31147-2, 50690-7 | | SN, ST, TX | 1:1, Non-reactive | ○ | ○ | ○ |
| | | Treponema pallidum Antibody Assays, Serum | 5392-6, 5393-4, 5394-2, 8041-6, 11597-2, 17723-8, 17724-6, 17725-3, 22587-0, 22590-4, 24110-9, 24312-1, 26009-1, 34382-2, 6561-5, 6562-3, 17726-1, 17727-9, 17728-7, 17729-5, 22592-0, 22594-6, 47238-1, 40679-3, 34954-8, 34147-9, 47236-5, 40680-1, 47237-3, 51838-1, 51839-9, 57032-5 | | ST, TX | Reactive | ○ | ○ | ○ |
| | | Treponema pallidum DNA | 53605-2 | | ST, TX | not available | ○ | ○ | ○ |
| Tests Indicating Pre-Natal Care Obtained | | | | 80055, 80090, 86762, 86900, 86901 | | | | | |

| Test Purpose | Test Category | Test | LOINC Code(s) | Comparable CPT Code(s) | Value Type | Sample Result(s) | Units | Reference Range | Normal/ Abnormal Flag |
|--------------|---------------|---|---|------------------------|----------------|--|-------|-----------------|-----------------------|
| | | Rubella Virus Antibody Detection | 34952-2, 22496-4, 8013-5, 22497-2, 5332-2, 17550-5, 5333-0, 5331-4, 5330-6, 25514-1, 8014-3, 5334-8, 34421-8, 13279-5, 13280-3, 25298-1, 31616-6, 8015-0, 24116-6, 5335-5, 25420-1, 41763-4 | | NM, SN, ST | 1.1, > 50.0, NEG | O | O | O |
| | | ABO Group | 883-9 | | ST | AB | O | O | O |
| | | ABO Group + Rh Status | 882-1, 884-7 | | ST | AB | O | O | O |
| | | Rh Status | 10331-7, 34961-3 | | ST | NEGATIVE | O | O | O |
| | TORCH | | | <none listed> | | | | | |
| | | Herpes Simplex | 5202-7, 5203-5, 5204-3, 5205-0, 5206-8, 5207-6, 5208-4, 5209-2, 5210-0, 7907-9, 7908-7, 7909-5, 7910-3, 7911-1, 7912-9, 7913-7, 9422-7, 10350-7, 13323-1, 13324-9, 13501-2, 13505-3, 14213-3, 16944-1, 16949-0, 16950-8, 16954-0, 16955-7, 16957-3, 16958-1, 17850-9, 17851-7, 19106-4, 21326-4, 21327-2, 22339-6, 22341-2, 22343-8, 24014-3, 25435-9, 25837-6, 25839-2, 26927-4, 27948-9, 30355-2, 31411-2, 32687-6, 32688-4, 32790-8, 32831-0, 32834-4, 32846-8, 33291-6, 34152-9, 34613-0, 36921-5, 40466-5, 40728-8, 40729-6, 41149-6, 41399-7, 43111-4, 43031-4, 42337-6, 43030-6, 43028-0, 42338-4, 53560-9 | | NM, SN, ST, TX | 1.1, <0.8, Positive for Herpes Type 1..... | RE | RE | RE |

| Test Purpose | Test Category | Test | LOINC Code(s) | Comparable CPT Code(s) | Value Type | Sample Result(s) | Units | Reference Range | Normal/Abnormal Flag |
|--|---------------------------------|---------------------------------|---|--|----------------|------------------------|-------|-----------------|----------------------|
| | | Cytomegalovirus | 5121-9, 5122-7, 5124-3, 5125-0, 5126-8, 5127-6, 7851-9, 7852-7, 7853-5, 9513-3, 13225-8, 13949-3, 15377-5, 16714-8, 16715-5, 16716-3, 22239-8, 22241-4, 22244-8, 22246-3, 22247-1, 22249-7, 24119-0, 30325-5, 32170-3, 32791-6, 32835-1, 34403-6 | | NM, SN, ST, TX | 1.9000, <0.9, Negative | RE | RE | RE |
| | | Toxoplasma | 5387-6, 5388-4, 5389-2, 5390-0, 5391-8, 8039-0, 8040-8, 11598-0, 12261-4, 12262-2, 13286-0, 15396-5, 17717-0, 21570-7, 22577-1, 22580-5, 22582-1, 22584-7, 23484-9, 23485-6, 23486-4, 23784-2, 24242-0, 24398-0, 24399-8, 25300-5, 25542-2, 33336-9, 33337-7, 34422-6, 35281-5, 35282-3, 40676-9, 40677-7, 40678-5, 40785-8, 40786-6, 42949-8 | | NM, SN | 0.9000, <6.5 | RE | RE | RE |
| CA State Measures | Childhood Lead Screening | | | 83655 | | | | | |
| | | Blood Lead Concentration | 10368-9, 14807-2, 27129-6, 32325-3, 5671-3, 5674-7, 25459-9, 10912-4 | | NM, SN | 7 mcg/dl | RE | RE | RE |
| Physiologic Monitoring Tests for Patients on Persistent Medications | | | | | | | | | |
| | | Serum potassium (K+) | | 84132, 80050, 80051, 80053, 80048, 80069 | | | | | |

| Test Purpose | Test Category | Test | LOINC Code(s) | Comparable CPT Code(s) | Value Type | Sample Result(s) | Units | Reference Range | Normal/ Abnormal Flag |
|--------------|-------------------------------|-----------------------------------|---|--|------------|---------------------------------------|-------|-----------------|-----------------------|
| | | Serum potassium (K+) | 2824-1, 2823-3, 6298-4, 12812-4, 12813-2, 22760-3, 29349-8, 32713-0, 39790-1, 39789-3, 41656-0, 51618-7 | | NM, SN, ST | 4.2000, >8.0, greater than 10.0 mEq/L | RE | RE | O |
| | Serum Creatinine (SCR) | | | 82565, 80050, 80053, 80048, 80069, 82575 | | | | | |
| | | Serum Creatinine (Scr) | 2160-0, 2163-4, 2164-2, 11041-1, 11042-9, 12195-4, 13441-1, 13442-9, 13443-7, 13446-0, 13447-8, 13449-4, 13450-2, 14682-9, 16188-5, 16189-3, 21232-4, 26752-6, 33558-8, 35591-7, 35592-5, 35593-3, 35594-1, 38483-4, 35203-9, 44784-7, 50380-5, 50381-3, 31045-8, 51620-3, 51619-5, 59826-8, 59834-2 | | NM, SN, ST | 0.8000, <0.5, greater than 20.0 | RE | RE | O |
| | | Serum Creatinine Challenge | 40251-1, 40267-7, 40113-3, 39956-8, 39970-9, 40122-4, 39971-7, 40123-2, 39972-5, 40124-0, 39973-3, 40125-7, 40273-5, 40258-6, 40250-3, 40266-9, 39957-6, 40114-1, 40253-7, 40269-3, 40254-5, 40126-5, 39974-1, 40252-9, 40268-5, 39961-8, 40118-2, 39962-6, 40265-1, 40249-5, 39959-2, 40116-6, 40270-1, 40255-2, 39964-2, 39960-0, 40117-4, 40115-8, 39958-4, 40127-3, 39975-8, 40119-0, 39963-4, 39965-9, 39966-7, 40256-0, 40271-9, 39967-5, | | | | | | |

| Test Purpose | Test Category | Test | LOINC Code(s) | Comparable CPT Code(s) | Value Type | Sample Result(s) | Units | Reference Range | Normal/Abnormal Flag |
|--------------|----------------------------------|----------------------------------|--|--|------------|------------------|-------|-----------------|----------------------|
| | | | 40257-8, 40272-7, 39976-6, 40128-1, 39968-3, 40120-8, 39969-1, 40121-6, 40248-7, 40264-4, 39955-0, 40112-5 | | | | | | |
| | Blood Urea Nitrogen (BUN) | | | 84520, 84525, 80050, 80053, 80048, 80069 | | | | | |
| | | Blood Urea Nitrogen (BUN) | 3094-0, 6299-2, 11064-3, 11065-0, 12964-3, 12965-0, 12966-8, 14937-7, 44734-2, 49071-4, 59570-2 | | NM, SN | 13.0000, <2 | RE | RE | O |