

CALINX Lab LOINC Codes (2008)

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 2008 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 2008 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 2008.

The following paragraphs define each column in the tables of this appendix.

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 HbgA1c 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).

Note: 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

Note: The LOINC codes that are struck-through and printed in grey (e.g., “~~32003-6~~, ~~32004-4~~, ~~32671-0~~”) have been removed from the HEDIS/P4P measures for the 2008 reporting period. These codes have been left in this specification and specially noted for historical and backward compatibility purposes. The LOINC codes that are printed in bold are new for the 2008 HEDIS/P4P reporting period (e.g., “**30429-3**, **40394-4**, **90423-9**”).

Test Updates for CALINX Lab 2008

Tests for Diabetic Nephropathy

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		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		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		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

Test Purpose	Test Category	Test	LOINC Code(s)	Comparable CPT Code(s)	Value Type	Sample Result(s)	Units	Reference Range	Normal/Abnormal Flag
	Tests for Microalbuminuria			82042, 82043, 82044 or 84155, 84160, 84165 with 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, 24331-1, 39469-2, 49132-4		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		ST, TX	TEXT REPORTS	O	O	O
Colorectal Cancer Screening									

Test Purpose	Test Category	Test	LOINC Code(s)	Comparable CPT Code(s)	Value Type	Sample Result(s)	Units	Reference Range	Normal/ Abnormal Flag
	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, 27926-5, 29771-3		ST	Negative	O	O	O
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 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, 11475-1		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		NM	not available	RE	RE	RE
		Alpha-1-	1834-1, 19176-7,		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
		Fetoprotein, serum	19177-5, 31993-9						
	Fetal Fibronectin			82731					
		Fetal Fibronectin	20403-2, 20404-0		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		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 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, 23908-7, 24111-7, 32198-4, 32199-2, 32705-6		ST, TX	not available	O	O	O
		N. Gonorrhoeae rRNA Probe	5028-6		ST, TX	not available	O	O	O
	Human palilloma 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	O	O	O
		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		NM, SN, ST, TX	not available	O	O	O
		HPV DNA Probe	16280-0, 21440-3, 21441-1, 30167-1, 38372-9, 42481-2		ST, TX	not available	O	O	O
		HPV rRNA Probe	6514-4, 6516-9		ST, TX	not available	O	O	O
		HPV Identification	11083-3, 11481-9		ST, TX	not available	O	O	O
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		NM, SN, ST	< 5, 14, NEG	RE	RE	RE
		HCG, Urine	2106-3, 25372-4, 2107-1		NM, SN, ST	< 5, 14, NEG	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
		beta-HCG, Serum	19180-9, 25373-2, 2115-4, 20415-6, 2110-5, 21198-7, 2111-3		NM, SN, ST	< 5, 14, NEG	RE	RE	RE
		beta-HCG, Urine	2113-9, 2112-1, 2114-7		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		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		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		ST	NEGATIVE	O	O	O
		Chlamydia Trachomatis rRNA Probe	4993-2, 16602-5, 42931-6, 23838-6, 21192-0, 20993-2, 16601-7, 16600-9, 43304-5		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 DNA Probe	36903-3, 36902-5, 43406-8, 43404-3		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		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		ST, TX	Reactive	○	○	○
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>					

Test Purpose	Test Category	Test	LOINC Code(s)	Comparable CPT Code(s)	Value Type	Sample Result(s)	Units	Reference Range	Normal/ Abnormal Flag
		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		NM, SN, ST, TX	1.1, <0.8, Positive for Herpes Type 1.....	RE	RE	RE
		Cytomegalovirus	5121-9, 5122-7, 5124-3, 5125-0,		NM, SN, ST, TX	1.9000, <0.9,	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
			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			Negative			
		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		NM, SN	0.9000, <6.5	RE	RE	RE
CA State HEDIS	Childhood Lead Screening			83655					

Test Purpose	Test Category	Test	LOINC Code(s)	Comparable CPT Code(s)	Value Type	Sample Result(s)	Units	Reference Range	Normal/Abnormal Flag
		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 ACE Inhibitors or ARB, Digoxin or Diuretics, and Any Combination Products									
	Serum potassium (K+)			84132, 80050, 80051, 80053, 80048, 80069					
		Serum potassium (K+)	2824-1, 2823-3, 6298-4, 12812-4, 12813-2, 22760-3, 24320-4, 24321-2, 24322-0, 24323-8, 24326-1, 24362-6, 29349-8, 32713-0, 34548-8, 34554-6		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					

Test Purpose	Test Category	Test	LOINC Code(s)	Comparable CPT Code(s)	Value Type	Sample Result(s)	Units	Reference Range	Normal/ Abnormal Flag
		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, 24321-2, 24322-0, 24323-8, 24320-4, 24362-6, 26752-6, 33558-8, 34555-3, 35591-7, 35592-5, 35593-3, 35594-1, 38483-4		NM, SN, ST	0.8000, <0.5, greater than 20.0	RE	RE	O
	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, 24320-4, 24321-2, 24322-0, 24323-8, 24362-6		NM, SN	13.0000, <2	RE	RE	O
Anti-Convulsant Drug Serum Concentration Tests									
	Drug Serum Concentration for Phenobarbital			80184					
		Phenobarbital, Serum	3948-7, 3951-1, 10547-8, 14874-2, 34365-7		NM, SN, ST	17.0000, <2, Below Detectable	RE	RE	O
	Drug Serum Concentration for Phenytoin			80185, 80186					

Test Purpose	Test Category	Test	LOINC Code(s)	Comparable CPT Code(s)	Value Type	Sample Result(s)	Units	Reference Range	Normal/ Abnormal Flag
		Phenytoin, Serum	3968-5, 3969-3, 14877-5, 32109-1, 34540-5		NM, SN, ST	6.9000, <0.6, Below Detectable	RE	RE	O
	Drug Serum Concentration for Valproic Acid			80164					
		Valproic Acid, Serum	4086-5, 4087-3, 4088-1, 14946-8, 18489-5, 21590-5, 32119-0, 32283-4		NM, SN, ST	62.0000, <4, None Detected	RE	RE	O
	Drug Serum Concentration for Carbamazepine			80156, 80157					
		Carbamazepine, Serum	3432-2, 3433-0, 9415-1, 14056-6, 14639-9, 18270-9, 29147-6, 29148-4, 32058-0, 32852-6, 34545-4		NM, SN, ST	7.9000, <0.5, Below Detectable	RE	RE	O