

Appendix A: Tests Requiring LOINC Coding in OBX Segment

The following table lists the test analytes that must be identified using LOINC® codes³ in the ELINCS version 1.0 specification (i.e., in the OBX-3 Observation Identifier field). The tests comprise common laboratory tests and lab tests required to calculate HEDIS measures. These tests were selected because they (1) represent the top 95% of laboratory tests performed by frequency (based on sample files provided by three sources in California) or (2) represent the tests that are most useful for quality-improvement programs related to HEDIS. A small but important subset of all tests was selected for ELINCS version 2.0 so that laboratories can perform the LOINC coding required for ELINCS compliance in a reasonable time frame.

Note: The set of test analytes in this table is the official set that requires LOINC coding for ELINCS version 2.0. Each test is defined with respect to the allowed values for its defining properties in the LOINC database. Note that the wildcard character (“*”) indicates that any value is allowed for the indicated property. Please refer to www.elincs.org for the current set of LOINC codes that correspond to the test analytes as defined below.

The following defines each column in the table of this appendix.

Test Category: A high-level grouping of tests. This is not intended to represent the constituents of common “panels” (such as Cob’s, basic metabolic or urinalysis panels), but simply to group test analytes for editing and browsing purposes. Tests associated with HEDIS measures are explicitly identified.

Test: This is the common test name for specific test analytes.

Test Desc: This gives more descriptive information regarding the test analytes.

Component: Allowed values for the LOINC *Component* part

System: Allowed values for the LOINC *System (Sample) Type* part

Time Aspect: Allowed values for the LOINC *Time Aspect* part

Property: Allowed values for the LOINC *Kind of Property* part

Scale Type: Allowed values for the LOINC *Type of Scale* part

Method: Allowed values for the LOINC *Type of Method* part

Sample LOINC Code(s): A subset of the LOINC codes that correspond to the named test analytes in column 2.

³ 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.

Sample Values: This column simply shows some example values and units for the results of the indicated tests

Test Category	Test	Test Desc	Component	System	Time Aspect	Property	Scale Type	Method	Sample LOINC Code(s)	Sample Values
Common blood cell count and differential WBC count analytes										
	BANDS	Neutrophil bands, patient blood, quantitative	NEUTROPHILS.BAND FORM	BLD	PT	NCNC	QN	*	26507-4, 30229-9, 763-3	1.14 K/uL
	BANDS %	Neutrophil bands as percent of total leukocytes	NEUTROPHILS.BAND FORM/100 LEUKOCYTES	BLD	PT	NFR	QN	*	26508-2, 35332-6, 764-1	7%
	BASOPHILS	Basophils, patient blood quantitative	BASOPHILS	BLD	PT	NCNC	QN	*	26444-0, 704-7, 705-4	0.1 K/uL
	BASOPHILS %	Basophils as percent of total leukocytes	BASOPHILS/100 LEUKOCYTES	BLD	PT	NFR	QN	*	30180-4, 706-2, 707-0	1%
	BLAST	Lymphoblasts, patient blood, quantitative	LYMPHOBLASTS	BLD	PT	NCNC	QN	*	33830-1, 35050-4	0.46 K/uL
	BLASTS %	Lymphoblasts as percent of total leukocytes	LYMPHOBLASTS/100 LEUKOCYTES	BLD	PT	NFR	QN	*	33831-9, 34922-5	4%
	EOSINOPHILS	Eosinophils, patient blood quantitative	EOSINOPHILS	BLD	PT	NCNC	QN	*	26449-9, 711-2, 712-0	0.1 K/uL
	EOSINOPHILS %	Eosinophils as percent of total leukocytes	EOSINOPHILS/100 LEUKOCYTES	BLD	PT	NFR	QN	*	26450-7, 713-8, 714-6	4%
	LYMPHOCYTES	Lymphocytes, patient blood quantitative	LYMPHOCYTES	BLD	PT	NCNC	QN	*	26474-7, 731-0, 30364-4, 732-8	3.1 K/uL

Test Category	Test	Test Desc	Component	System	Time Aspect	Property	Scale Type	Method	Sample LOINC Code(s)	Sample Values
	LYMPHOCYTES %	Lymphocytes as percent of total leukocytes	LYMPHOCYTES/100 LEUKOCYTES	BLD	PT	NFR	QN	*	26478-8, 736-9, 30365-1, 737-7	19%
	MCH	Erythrocyte Mean Corpuscular Hemoglobin, patient RBC, quantitative	ERYTHROCYTE MEAN CORPUSCULAR HEMOGLOBIN	RBC	PT	ENTMASS	QN	*	785-6, 28539-5	
	MCHC	Erythrocyte Mean Corpuscular Hemoglobin Concentration, patient RBC, quantitative	ERYTHROCYTE MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION	RBC	PT	MCNC	QN	*	28540-3, 786-4	32.6 pg
	MCV	Mean Corpuscular Volume, patient RBC, quantitative	MEAN CORPUSCULAR VOLUME	RBC	PT	ENTVOL	QN	*	30428-7, 787-2	31.4 g/dL
	METAMYELOCYTE	Metamyelocytes, patient blood quantitative	METAMYELOCYTE	BLD	PT	NCNC	QN	*	30433-7, 739-3	91 fL
	MONOCYTES	Monocytes, patient blood quantitative	MONOCYTES	BLD	PT	NCNC	QN	*	743-5, 742-7, 26484-6	4%
	MONOCYTES %	Monocytes as percent of total leukocytes	MONOCYTES/100 LEUKOCYTES	BLD	PT	NFR	QN	*	744-3, 5905-5, 26485-3	2.4 K/uL
	MPV	Mean Platelet Volume, patient blood quantitative	PLATELET MEAN VOLUME	BLD	PT	ENTVOL	QN	*	28542-9, 32623-1, 776-5	3%
	MYELOCYTE	Myelocytes, patient blood quantitative	MYELOCYTES	BLD	PT	NCNC	QN	*	30446-9, 748-4	9.23 fL
										1%

Test Category	Test	Test Desc	Component	System	Time Aspect	Property	Scale Type	Method	Sample LOINC Code(s)	Sample Values
	NEUTROPHILS	Neutrophils, patient blood quantitative	NEUTROPHILS	BLD	PT	NCNC	QN	*	753-4, 751-8, 26499-4	1.5 K/uL
	NEUTROPHILS %	Neutrophils as percent of total leukocytes	NEUTROPHILS/100 LEUKOCYTES	BLD	PT	NFR	QN	*	23761-0, 770-8, 26511-6	53%
	NUCLEATED RBC'S	Nucleated Erythrocytes, patient blood quantitative	ERYTHROCYTES.NUCLEATED	BLD	PT	NCNC	QN	*	30392-5, 771-6, 772-4	/100 WBC
	PLATELETS	Platelets, patient blood quantitative	PLATELETS	BLD	PT	NCNC	QN	*	778-1, 777-3, 26515-7	400 K/uL
	PROMYELOCYTE	Promyelocytes, patient blood quantitative	PROMYELOCYTES	BLD	PT	NCNC	QN	*	26523-1, 780-7, 781-5	1%
	RBC	Red Blood Cells (Erythrocytes), patient blood	ERYTHROCYTES	BLD	PT	NCNC	QN	*	790-6, 789-8, 26453-1	
	RBC MORPHOLOGY	Red Blood Cell (Erythrocytes) Morphology, patient blood	ERYTHROCYTES, ERYTHROCYTE SHAPE, ERYTHROCYTE SIZE	BLD	PT	MORPH	NOM	*	18225-3,	4.41 M/uL
	RDW	Erythrocyte Distribution Width, patient RBC quantitative	ERYTHROCYTE DISTRIBUTION WIDTH	RBC	PT	RATIO, ENTVOL	QA	*	21000-5, 30384-2	11.2%
	SEGS	Neutrophil Segments, patient blood quantitative	NEUTROPHILS.SEGMENTED, NEUTROPHILS.HYPERSEGMENTED	BLD	PT	NCNC	QN	*	30451-9, 768-2	60.8
	WBC	White Blood Cells (Leukocytes), patient blood quantitative	LEUKOCYTES	BLD, BPU	PT	NCNC	QN	*	6690-2, 26464-8, 804-5	7.3 K/uL

Test Category	Test	Test Desc	Component	System	Time Aspect	Property	Scale Type	Method	Sample LOINC Code(s)	Sample Values
Common metabolic analytes								*		
	A/G RATIO	Albumin/Globulin ratio	ALBUMIN/GLOBULIN	SER, SER/PLAS	PT	MCRTD	QN	*	1759-0	1.5
	BUN/CREAT RATIO	Urea Nitrogen/Creatinine ratio, patient serum/plasma, quantitative	UREA NITROGEN/CREATININE	SER/PLAS	PT	MCRTD	QN	*	3097-3	
	GLOBULIN (CALC)	Globulin (calculated), patient urine quantitative	GLOBULIN	UR	PT	MCNC	QN	*	14431-1	13
Common urinalysis analytes								*		3.6
	BACTERIA	Bacteria, urine	BACTERIA	URNS	PT	ACNC, NARIC	ORD, QN	*	25145-4	4+, 30/HPF
	CASTS	Cast, patient urine	CASTS	URNS	PT	ACNC, NARIC	ORD, QN	*	24124-0	HYALINE CAST, 0-5
	EPITHELIAL	Epithelial cells, patient urine quantitative	EPITHELIAL CELLS, SQUAMOUS CELLS	URNS, UR	PT	NARIC, NCNC	QN	*	25157-9	
	LEUKOCYTE ESTERASE	Leukocyte Esterase, patient urine quantitative	LEUKOCYTE ESTERASE	UR	PT	ACNC	QN	*	5799-2	11, <1, FEW
	URINE APPEARANCE	Urine appearance, nominal	APPEARANCE, CHARACTER, CLARITY, COLOR, ODOR	UR	PT	APER, TYPE	NOM	*	32167-9	NEGATIVE
	URINE BILIRUBIN	Bilirubin, patient urine quantitative	BILIRUBIN	UR	PT	SCNC, MCNC, ACNC	QN, ORD	*	5770-3	CLOUDY
	URINE BLOOD	Blood, patient urine quantitative	ERYTHROCYTES	UR, URNS	PT	ACNC, NCNC, NARIC	ORD, QN	*	20409-9	NEGATIVE
										MEDERATE, 1+

Test Category	Test	Test Desc	Component	System	Time Aspect	Property	Scale Type	Method	Sample LOINC Code(s)	Sample Values
	URINE COMMENTS	Comments, patient urine sediment narrative	URINE SEDIMENT COMMENTS	URNS	PT	FIND	NAR	*	11279-7	URINE CULTURE NOT INDICATED
	URINE CRYSTALS	Crystals, patient urine sediment, nominal	CRYSTALS	URNS	PT	PRID	NOM	*	5782-8	NONE SEEN
	URINE HEMOGLOBIN	Hemoglobin, patient urine, quantitative and ordinal	HEMOGLOBIN	UR	PT	ACNC, MCNC	ORD, QN	*		
	URINE KETONE	Ketones, patient urine quantitative	KETONES	UR	PT	ACNC, SCNC	ORD, QN	*	5797-6, 22702-5	NEGATIVE
	URINE MUCOUS	Mucous, patient urine sediment, quantitative and nominal	MUCUS	URNS	PT	ACNC, NARIC	ORD, QN	*	8247-9, 28545-2	NEGATIVE, 40 mg/dL
	URINE NITRITE	Nitrite, patient urine quantitative	NITRITE	UR	PT	ACNC, MCNC	ORD, QN	*	20407-3	FEW
	URINE PH	PH, patient urine quantitative	PH	UR	PT	SCNC	QN	*	5803-2	NEGATIVE
	URINE SPECIFIC GRAVITY	Specific Gravity, patient urine quantitative	SPECIFIC GRAVITY	UR	PT	RDEN	QN	*	5811-5	5.0
	URINE UROBILINOGEN	Urobilinogen, patient urine quantitative	UROBILINOGEN	UR	PT	ACNC, MSCNC, MCNC	ORD, QN	*	5818-0, 19161-9, 20405-7, 34928-2	1.004, >1.03
	URINE, WBC	WBC, patient urine quantitative	LEUKOCYTES	UR, URNS	PT	ACNC, NARIC	ORD, QN	*	24122-4, 30405-5,	0.2 EU/dL, NORMAL
	URINE, YEAST	Yeast, patient urine sediment, ordinal	YEAST	URNS	PT	ACNC, NARIC	ORD, QN	*		5-10, 100+
Other common tests/assays								*		NONE SEEN

Test Category	Test	Test Desc	Component	System	Time Aspect	Property	Scale Type	Method	Sample LOINC Code(s)	Sample Values
	AFP	Alpha-Fetoprotein, patient serum quantitative	ALPHA-1-FETOPROTEIN	SER	PT	SCNC, ACNC, MCNC	QN	*		
	ALBUMIN	Albumin, patient serum/plasma, quantitative	ALBUMIN	SER/PLAS	PT	MCNC	QN	*	2862-1, 1751-7	4.6 g/dL
	ALKALINE PHOSPHATASE	Alkaline Phosphatase, patient serum/plasma, quantitative	ALKALINE PHOSPHATASE	SER/PLAS, BLD	PT	CCNC	QN	*	6768-6	
	ALT	Transferase; alanine amino, patient serum/plasma, quantitative	ALANINE AMINOTRANSFERASE	SER/PLAS	PT	CCNC	QN	*	1742-6	43 U/L
	ALT/SGPT	Alanine Amino Transferase: Aspartate Amino Transferase ratio, serum/plasma, quantitative	ALANINE AMINOTRANSFERASE/ASPARTATE AMINOTRANSFERASE	SER/PLAS	PT	CCRTO	QN	*	16325-3	24 U/L
	AMOXICILLIN LEVEL	Amoxicillin Level, patient serum/plasma, quantitative	AMOXICILLIN	SER/PLAS	PT	MCNC	QN	*		21
	ANA	Antinuclear Antibodies (ANA), patient body fluid, ordinal	NUCLEAR AB	FLU	PT	ACNC	ORD, QN	*		BORDERLINE

Test Category	Test	Test Desc	Component	System	Time Aspect	Property	Scale Type	Method	Sample LOINC Code(s)	Sample Values
	ANA PATTERN	Antinuclear Antibodies (ANA) Pattern, patient body fluid, nominal	NUCLEAR AB PATTERN	FLU	PT	IMP	NOM	*		Homogeneous
	ANION GAP	Anion gap, patient serum/plasma, quantitative	ANION GAP	SER/PLAS	PT	SCNC	QN	*		7
	ANTIBODY SCREEN	Indirect Antiglobulin/ Coombs' Test, patient serum/plasma ordinal	INDIRECT ANTIGLOBULIN TEST	SER/PLAS	PT	ACNC	ORD	*		NEGATIVE
	AST	Transferase; aspartate amino, patient serum/plasma, quantitative	ASPARTATE AMINOTRANSFERASE	SER/PLAS	PT	CCNC, ACNC	QN, ORD	*	27344-1	38 U/L
	AST/SGOT	Aspartate Amino Transferase: Alanine Amino Transferase ratio, serum/plasma, quantitative	ASPARTATE AMINOTRANSFERASE/ALANINE AMINOTRANSFERASE	SER/PLAS	PT	CCRTO	QN	*	1916-6	17
	BILIRUBIN, DIRECT	Bilirubin direct, patient serum/plasma, quantitative	BILIRUBIN.GLUCURONIDATED	SER/PLAS	PT	MCNC, SCNC	QN	*	1968-7, 14629-0	0.1 mg/dL

Test Category	Test	Test Desc	Component	System	Time Aspect	Property	Scale Type	Method	Sample LOINC Code(s)	Sample Values
	BILIRUBIN, TOTAL	Bilirubin total, patient serum/plasma, quantitative	BILIRUBIN	SER/PLAS	PT	MCNC, SCNC	QN	*	1975-2, 14631-6	0.8 mg/dL
	BLOOD TYPE AND SCREEN, ANTIBODY	Antibody Screen, patient serum/plasma a ordinal	ANTIBODY SCREEN	SER/PLAS	PT	ACNC	ORD	*		NEGATIVE
	BLOOD TYPE AND SCREEN, BLOOD TYPE	ABO Group, patient	ABO GROUP	BLD, BLD^BPU	PT	TYPE	NOM	*		GROUP B
	BLOOD TYPE AND SCREEN, ABO/RH TYPE	RH Type, patient serum/plasma a ordinal	ABO+RH GROUP	BLD, SER/PLAS^BPU	PT	TYPE	NOM	*		Rh Im Glob
	BUN	Urea Nitrogen patient serum/plasma, quantitative	UREA NITROGEN	SER/PLAS	PT	MCNC, MSCNC, SCNC	QN	*	14937-7, 3094-0	15 mg/dL
	CALCIUM	Calcium, total patient blood, quantitative	CALCIUM	BLD, SER/PLAS	PT	ACNC, MCNC, SCNC	ORD, QN	*	17861-6, 2000-8	9.1 mg/dL
	CARBON DIOXIDE, TOTAL	Carbon Dioxide (bicarbonate), patient blood, quantitative	CARBON DIOXIDE	BLD, SER/PLAS	PT	SCNC	QN	*	2028-9	27 mmol/L
	CD3 T CELLS	CD3 T Cells, patient blood, quantitative	CD3	BLD, WBC	PT	ACNC, NCNC	QN	*		1700 x10E6/L
	CD3 T CELLS %	CD3 T Cells – Percent of Cells, patient blood, quantitative	CELLS.CD3/100 CELLS	BLD	PT	NFR	QN	*		87%

Test Category	Test	Test Desc	Component	System	Time Aspect	Property	Scale Type	Method	Sample LOINC Code(s)	Sample Values
	CD4 T CELLS	Helper T- Lymphocyte Marker CD4, patient blood quantitative	CELLS.CD4	BLD, WBC	PT	ACNC, NCNC	QN	*		244 cmm
	CD4 T CELLS %	Helper T- Lymphocyte Marker CD4 percent of cells, patient blood quantitative	CELLS.CD4/100 CELLS	BLD	PT	NFR	QN	*		15%
	CD4/CD8 RATIO	CD4/CD8 ratio, patient blood quantitative	CELLS.CD4/CELLS.CD8	BLD	PT	NRTO	QN	*		0.95 RATIO
	CD8 T CELLS	Helper T- Lymphocyte Marker CD8, patient blood quantitative	CELLS.CD8	BLD, WBC	PT	ACNC, NCNC	QN	*		737 x10E6/L
	CD8 T CELLS %	Helper T- Lymphocyte Marker CD8 percent of cells, patient blood quantitative	CELLS.CD8/100 CELLS	BLD	PT	NFR	QN	*		68%
	CHLORIDE	Chloride, patient blood quantitative	CHLORIDE	BLD, SER/PLAS, XXX	PT	SCNC	QN	*	2075-0	99 mmol/L
	CHOL/HDL RATIO	Total Cholesterol/HDL Cholesterol ratio, patient serum/plasma quantitative	CHOLESTEROL.TOTAL/CHOLESTEROL.HDL	SER/PLAS	PT	MCRTOL, PRCTL, SCRTOL	QN	*	32309-7, 9830-1	3.2
	CREATINE KINASE	Creatine Kinase, patient serum/plasma quantitative	CREATINE KINASE	SER/PLAS	PT	CCNC	QN	*	2157-6	222 U/L

Test Category	Test	Test Desc	Component	System	Time Aspect	Property	Scale Type	Method	Sample LOINC Code(s)	Sample Values
	CREATININE	Creatinine, patient blood quantitative	CREATININE	BLD, SER/PLAS	PT	MCNC, MSCNC, SCNC	QN	*	38483-4	1.0 mg/dL
	CREATININE, URINE	Creatinine, patient urine, quantitative	CREATININE	UR	24H	MCNC, MSCNC, MRAT, MSRAT, SCNC, SRAT,	QN	*		1384 mg/period
	C-Reactive Protein	C-Reactive Protein, patient serum/plasma, afluid, quantitative	C REACTIVE PROTEIN	SER/PLAS	PT	MCNC	QN	*		8.2 mg/L
	ESR	Erythrocyte Sedimentation Rate, patient blood quantitative	ERYTHROCYTE SEDIMENTATION RATE	BLD	PT	VEL	QN	*		36 mm/hr
	ESR, WESTERGREN	Erythrocyte Sedimentation Rate – Westergren method, patient blood quantitative	ERYTHROCYTE SEDIMENTATION RATE	BLD	PT	VEL	QN	WESTERGREN	4537-7	15 mm/hr
	FERRITIN	Ferritin, patient serum quantitative	FERRITIN	SER	PT	MSCNC	QN	*	35209-6	3 ug/L
	FOLLICLE STIMULATING HORMONE	Follitropin, patient serum/plasma quantitative	FOLLITROPIN	SER/PLAS	PT	ACNC, MCNC, SCNC	QN	*	20433-9	43.0 mIU/mL
	GLUCOSE	Glucose, patient blood quantitative	GLUCOSE	BLD, BLDA, BLDC, BLDV	PT	ACNC, MCNC, SCNC	ORD, QN	*	2341-6, 5914-7, 2340-8, 14743-9, 32016-8, 2339-0, 15074-8	91 mg/dL

Test Category	Test	Test Desc	Component	System	Time Aspect	Property	Scale Type	Method	Sample LOINC Code(s)	Sample Values
	GLUCOSE, FASTING	Glucose, post fasting, patient plasma/serum, quantitative	GLUCOSE^POST CFST	BLDC, BLDV	PT	MCNC, SCNC	QN	*		77 mg/dL
	N. GONORRHEA (Antigen?)	Neisseria Gonorrhoeae, DNA Probe with Confirmation, endocervical or male urethral specimens, ordinal	NEISSERIA GONORRHOEA DNA	CVM, CVX, URTH	PT	ACNC	ORD	*		
	H. PYLORI	H Pylori Antigen, IGG, IGM, IGA	HELICOBACTER PYLORI	STL, SER, SAL	PT	ACNC, TITR	ORD, QN	*	17780-8, 31843-6	NEGATIVE
	HCG, TOTAL BETA	Human Chorionic Gonadotropin (hCG), Beta Subunit, patient serum/CSF/A mniotic Fluid/Urine qualitative	CHORIOGONADOTROPIN.BETA SUBUNIT	AMN, CSF, FLU, SER, UR	PT	ACNC, MCNC, SCNC	ORD, QN	*		
	HEMOGLOBIN Does this belong in the CBC section?	Blood count, hemoglobin	HEMOGLOBIN	BLD, BLDA, BLDC, BLDMV	PT	ACNC, MCNC	ORD, QN	*	30350-3, 718-7	12.2 g/dL
	HEPATITIS A ANTIBODY, IgM	Antibody to Hepatitis A Virus, IgM, patient serum quantitative	HEPATITIS A VIRUS AB.IGM	SER	PT	ACNC	ORD, QN	*		Negative

Test Category	Test	Test Desc	Component	System	Time Aspect	Property	Scale Type	Method	Sample LOINC Code(s)	Sample Values
	HEPATITIS A ANTIBODY, Total	Antibody to Hepatitis A Virus, Total, patient serum quantitative	HEPATITIS A VIRUS AB	SER	PT	ACNC	ORD, QN	*		Negative
	HEPATITIS B SURFACE ANTIBODY	Antibody to Hepatitis B Surface Antigen, patient serum quantitative	HEPATITIS B VIRUS SURFACE AB	SER, SER^DONOR	PT	ACNC	ORD, QN	*		LESS THAN 2.0
	HEPATITIS B SURFACE ANTIGEN	Hepatitis B Surface Antigen, patient serum quantitative	HEPATITIS B VIRUS SURFACE AG	SER	PT	ACNC	ORD	*		Pos
	HEPATITIS B CORE Antibody, TOTAL	Hepatitis B Virus Core Total, Patient Serum Quantitative	HEPATITIS B VIRUS CORE AB	SER, SER^DONOR	PT	ACNC	ORD, QN	*		Neg
	HEPATITIS B CORE Antibody, IgM	Hepatitis B Virus Core IgM, Patient Serum Quantitative	HEPATITIS B VIRUS CORE AB.IGM	SER	PT	ACNC	ORD, QN	*		
	HEPATITIS B CORE Antibody, IgG	Hepatitis B Virus Core IgG, Patient Serum Quantitative	HEPATITIS B VIRUS CORE AB.IGG	SER	PT	ACNC	ORD, QN	*		
	HEPATITIS C ANTIBODY	Antibody to Hepatitis C Virus, patient serum quantitative	HEPATITIS C VIRUS AB	SER	PT	ACNC	ORD, QN	*		Neg

Test Category	Test	Test Desc	Component	System	Time Aspect	Property	Scale Type	Method	Sample LOINC Code(s)	Sample Values
	HIV-1 ANTIBODY SCREEN Is there a common method? See below "HIV-1 Antibody screen EIA"	HIV-1 Antibodies Test With Confirmation, patient serum ordinal	HIV 1 AB	SER	PT	ACNC	ORD, QN	*		
	HIV-1 ANTIBODY SCREEN, EIA	HIV-1 Antibodies Test With Confirmation by Elisa, patient serum/plasma a ordinal	HIV 1 AB	BLDC, SER	PT	ACNC	ORD, QN	EIA		NEGATIVE
	HIV-1 RNA	HIV-1 RNA (bDNA), patient plasma quantitative	HIV 1 RNA	BLD, SER, SER/PLAS, PLAS	PT	ACNC, MCNC, NCNC	ORD, QN	*		
	HIV-1 RNA BDNA, LOG	HIV-1 Log Viral Load, patient plasma quantitative	HIV 1 RNA	PLAS	PT	LNCNC	QN	*	29541-0, 29539-4	< 75
	HIV-2 ANTIBODY SCREEN	HIV-2 Antibodies Test With Confirmation, patient serum ordinal	HIV 2 AB	SER	PT	ACNC	ORD, QN	*	5225-8, 7919-4, 22358-6	14,098
	HIV-2 ANTIBODY SCREEN, EIA	HIV-2 Antibodies Test With Confirmation by Elisa, patient serum/plasma a ordinal	HIV 2 AB	SER	PT	ACNC	ORD	EIA	5224-1, 30361-0	
	IRON	Iron, patient serum quantitative	IRON	SER/PLAS	PT	MCNC, MSCNC, SCNC	QN	*		135 ug/dL

Test Category	Test	Test Desc	Component	System	Time Aspect	Property	Scale Type	Method	Sample LOINC Code(s)	Sample Values
	IRON, Saturation	Iron Saturation, patient serum/plasma a quantitative	IRON SATURATION	SER/PLAS	PT	MCRT0, SCRT0	QN	*		43 PERCENT
	IRON, TIBC	Total Iron Binding Capacity, patient serum quantitative	IRON BINDING CAPACITY	SER/PLAS	PT	MCNC, MSCNC, SCNC	QN	*		
	LDH	Lactic Acid Dehydrogenase, patient fluid quantitative	LACTATE DEHYDROGENASE	FLU	PT	CCNC	QN	*		286 ug/dL
	LDL/HDL RISK RATIO	LDL Cholesterol/HDL Cholesterol ratio, patient serum/plasma a quantitative	CHOLESTEROL IN LDL/CHOLESTEROL IN HDL	SER/PLAS	PT	MCRT0	QN	*	11054-4	147 U/L
	MAGNESIUM	Magnesium, patient serum/plasma a quantitative	MAGNESIUM	BLD, SER/PLAS	PT	ACNC, MCNC, MSCNC, SCNC	QN	*		3 2.0 mg/dL
	PARTIAL THROMBOPLASTIN							*	3173-2	
	PHOSPHORUS	Inorganic Phosphate, patient blood quantitative	PHOSPHATE	BLD, SER/PLAS	PT	MCNC, MSCNC, SCNC	QN	*		
	POTASSIUM	Potassium, patient serum quantitative	POTASSIUM	BLD, BLDA, BLDV, SER/PLAS	PT	SCNC	QN	*	22760-3, 2823-3	2.9 mg/dL
	PROGESTERONE	Progesterone, patient serum/plasma a quantitative	PROGESTERONE	SER/PLAS	PT	MCNC, MSCNC, SCNC	QN	*		4.5 mmol/L
										30.2 ng/mL

Test Category	Test	Test Desc	Component	System	Time Aspect	Property	Scale Type	Method	Sample LOINC Code(s)	Sample Values
	PROTEIN, TOTAL	Total Protein, patient serum quantitative	PROTEIN	SER/PLAS, PLAS	PT	MCNC, SCNC	QN	*	20577-3, 2885-2, 27258-3	7.4 g/dL
	PROTHROMBIN TIME/INTERNATIONAL NORMALIZED RATIO		COAGULATION TISSUE FACTOR INDUCED.INR	BLD	PT	RLTM	QN	*	34714-6,	
	PSA, FREE	Prostate Specific Antigen - Free, patient serum/plasm a quantitative	PROSTATE SPECIFIC AG.FREE	SER/PLAS	PT	ACNC, MCNC, SCNC	QN	*		
	PSA, TOTAL	Prostate Specific Antigen - Total, patient serum/plasm a quantitative	PROSTATE SPECIFIC AG	SER/PLAS	PT	ACNC, MCNC, SCNC	QN	*		1.4 ng/mL
	RHEUMATOID FACTOR	Rheumatoid factor, patient serum quantitative	RHEUMATOID FACTOR	SER, SER/PLAS	PT	ACNC	ORD, QN	*	11572-5	7.0 ng/mL
	RUBELLA IgG SCREEN	Rubella Antibodies IgG, patient serum quantitative and ordinal	RUBELLA VIRUS AB.IGG	SER	PT	ACNC	ORD, QN	*		< 14
	SODIUM	Sodium, patient serum/plasm a quantitative	SODIUM	BLD, BLDA, BLDC, BLDV, SER	PT	SCNC	QN	*	2951-2	179.8 IU/mL
	SODIUM, Volume	Sodium 24 Hour Total Volume, patient urine quantitative	SODIUM	UR	24H	SCNC, SRAT,	QN	*		140 mmol/L
										138 mmol/L

Test Category	Test	Test Desc	Component	System	Time Aspect	Property	Scale Type	Method	Sample LOINC Code(s)	Sample Values
	SYPHILIS	RPR, VDRL, Syphilis serology	REAGIN AB	SER, SER/DONOR	PT	ACNC, TITR	ORD, QN	*	20507-0, 20508-8, 31147-2, 22464-2, 11084-1, 22462-6, 22461-8	NON-REACTIVE
	STREP GROUP B SCREEN	Beta Strep Group B Antigen, patient urine/serum/csf, ordinal (?? Ag test from throat specimen only??)	STREPTOCOCCUS.B ETA-HEMOLYTIC	GEN, THRT	PT	ACNC	ORD	*		beta Streptococcus not group A or B
	T3 UPTAKE	Triiodothyronine/Triiodothyronine Uptake Index patient serum/plasma quantitative	THYROXINE/TRIIODOTHYRONINE UPTAKE INDEX	SER/PLAS	PT	MCRTO	QN	*	3028-8	29.7 %
	TSH, SERUM	Thyroid Stimulating Hormone, patient serum/plasma quantitative	THYROTROPIN	BLD, SER/PLAS	PT	ACNC, SCNC	QN	*	11580-8, 11579-0, 3016-3, 27975-2, 14297-6	1.51 mIU/L
	THYROXINE, FREE	Thyroxine Free, patient serum/plasma quantitative	THYROXINE.FREE	SER/PLAS	PT	MCNC, MSCNC, SCNC	QN	*		0.65 ng/dL
	THYROXINE, TOTAL (T4)	Thyroxine, patient serum/plasma quantitative	THYROXINE	BLD, SER/PLAS	PT	ACNC, MCNC, MSCNC, SCNC	QN	*		9.7 ug/dL

Test Category	Test	Test Desc	Component	System	Time Aspect	Property	Scale Type	Method	Sample LOINC Code(s)	Sample Values
	URIC Acid	URATE, patient urine quantitative	URATE	UR	24H	MCNC, MRAT, MSCNC, SUB, SCNC	QN	*		7.7 mg/dL
	URINE GLUCOSE	Glucose, patient urine quantitative	GLUCOSE	UR	PT	ACNC, MCNC, MFR, MRAT, SCNC	ORD, QN	*	22705-8	NEGATIVE, 3+
	VLDL	VLDL Cholesterol, patient serum/plasma quantitative	CHOLESTEROL, VLDL	SER/PLAS	PT	MCNC, MSCNC, SCNC	QN	*	25371-6, 2091-7, 13458-5	30 mg/dL
HEDIS: Comprehensive Diabetes Care								*		
	HgbA1c %	Measures of blood hemoglobin A1c	HEMOGLOBIN A1C/HEMOGLOBIN,OTAL	BLD	PT	MFR	QN	*	4548-4, 4549-2, 17855-8, 17856-6	6%
	Urine Albumin	Albumin, patient urine quantitative	ALBUMIN	UR	PT, 24H	ACNC, MCNC, MRAT	ORD, QN	*	1753-3, 1754-1, 1755-8, 21059-1	25 g/dl
	Urine Albumin/Creatinine ratio	Albumin/Creatinine ratio, patient urine quantitative	ALBUMIN/CREATININE	UR	PT, 24H	ACNC, MCRT, RATIO, SCRT	ORD, QN	*	9318-7, 13705-9, 14585-4, 20621-9, 32294-1	25.6 ug/mg
	Urine Protein	Protein, patient urine quantitative	PROTEIN	UR	PT, 6H, 12H, 24H	ACNC, MCNC, MRAT, MASS	ORD, QN	*	2887-8, 2888-6, 2889-4, 12842-1, 18373-1, 21482-5, 26801-1, 27298-9, 32209-9, 32551-4, 35663-4	9 mg/dl
	Urine Protein/Creatinine ratio	Protein/Creatinine ratio, patient urine quantitative	PROTEIN/CREATININE	UR	PT, 24H	MCRT, RATIO	QN	*	2890-2, 13801-6, 34366-5	not available

Test Category	Test	Test Desc	Component	System	Time Aspect	Property	Scale Type	Method	Sample LOINC Code(s)	Sample Values
	Urine Microalbumin	Urine Microalbumin / patient urine, quantitative	ALBUMIN	UR	PT, 24H	MCNC, MRAT	QN	*	11218-5, 14956-7, 14957-5, 30003-8	25 ug/ml
	Urine Microalbumin/ Creatinine ratio	Urine Microalbumin / Creatinine ratio, patient urine, quantitative	ALBUMIN/CREATININ E	UR	PT, 24H	MCRT0, RATIO	QN	*	14958-3, 14959-1, 30000-4, 30001-2	25.6 ug/mg
HEDIS: Comprehensive Diabetes Care, Cholesterol Management after CV event								*		
	LDL-Cholesterol	LDL Cholesterol, patient serum/plasm a quantitative	CHOLESTEROL.IN LDL	SER/PLAS	PT	ACNC, MCNC, MSCNC, SCNC	QN	*	2089-1, 12773-8, 13457-7, 18261-8, 18262-6, 22748-8	90 mg/dl
	HDL-Cholesterol	HDL Cholesterol, patient serum/plasm a quantitative	CHOLESTEROL.IN HDL	SER/PLAS	PT	ACNC, MCNC, MSCNC, SCNC	QN	*	12772-0, 14646-4, 18263-4, 2085-9, 26015-8, 26016-6, 9832-7, 26017-4, 9833-5	60 mg/dl
	Total Cholesterol	Total Cholesterol, patient serum/plasm a quantitative	CHOLESTEROL	BLD, SER, SER/PLAS	PT	ACNC, MCNC, MSCNC, SCNC	ORD, QN	*	14647-2, 2093-3, 32308-9	150 mg/dl
	Triglycerides	Triglycerides, patient serum/plasm a quantitative	TRIGLYCERIDE, POS T CFST	BLD, SER, SER/PLAS	PT	ACNC, MCNC, MSCNC, SCNC	ORD, QN	*	22731-4, 14927-8, 30524-3, 12951-0, 1644-4, 2571-8, 3048-6, 3043-7	100 mg/dl

Test Category	Test	Test Desc	Component	System	Time Aspect	Property	Scale Type	Method	Sample LOINC Code(s)	Sample Values
HEDIS: Cervical cancer screening								*		
	Pap Smear	Pap Smear (cytology)	MICROSCOPIC OBSERVATION	CVX, CVX/VAG	PT	PRID	NOM, NAR	CYTO STAIN, CYTO STAIN, THIN PREP	10524-7, 18500-9, 19765-7*, 19766-5,*	TEXT MESSAGES
HEDIS: Colorectal Cancer Screening										
	Hemoccult (FOBT)	Hemoglobin, patient stool nominal	HEMOGLOBIN, GASTROINTESTINAL, 4TH SPECIMEN	STL	PT	ACNC	ORD, QN	*	2335-8, 12503-9, 12504-7, 14563-1, 14564-9, 14565-6, 27396-1, 27401-9, 27925-7, 27926-5, 29771-3	Negative
HEDIS: Chlamydia Screening Measure										
	Chlamydia Trachomatis Culture	specimens include cervical swab, vaginal swab, and urine sediment	CHLAMYDIA TRACHOMATIS	CVX, GENV, URNS	PT	ACNC	ORD	*	6349-5, 14463-4, 14464-2, 14467-5	Text Result

Test Category	Test	Test Desc	Component	System	Time Aspect	Property	Scale Type	Method	Sample LOINC Code(s)	Sample Values
	Chlamydia Trachomatis Antigen Detection	specimens include cervical swab, vaginal swab, and urine sediment	CHLAMYDIA TRACHOMATIS AG	CVX, GENV, URNS	PT	ACNC	ORD	*	6354-5, 6355-2, 14470-9, 14471-7, 14474-1, 14509-4, 14510-2, 14513-6, 31771-9, 31772-7, 31775-0, 31777-6	< 1:16, ALARM
	Chlamydia Trachomatis DNA Probe	specimens include genital swab, genital fluid, cervical swab, cervical mucus, vaginal swab, and urethral swab	CHLAMYDIA TRACHOMATIS DNA	GEN, GENF, CVM, CVX, UR, URTH	PT	ACNC	ORD	*	6356-0, 6357-8, 16600-9, 16601-7, 20993-2, 21189-6, 21190-4, 21191-2, 21192-0, 21613-5, 23838-6	NEGATIVE
	Chlamydia Trachomatis rRNA Probe	specimens include urine	CHLAMYDIA TRACHOMATIS RRNA	UR	PT	ACNC	ORD	*	4993-2, 16602-5	not available
	Chlamydia Species Culture		CHLAMYDIA SP IDENTIFIED	GEN	PT	PRID	NOM	*	557-9, 560-3	Text Result
	Chlamydia Species Antigen Detection	specimens include urine, genital swab, vaginal swab, peritoneal fluid, and conjunctiva	CHLAMYDIA SP AG	CNJ, GEN, GENV, PRT, UR	PT	ACNC	ORD	*	561-1, 6343-8, 6345-3, 6346-1, 6347-9, 16593-6, 31765-1, 32001-0, 32003-6, 32004-4, 32671-0	< 1:16, ALARM

Test Category	Test	Test Desc	Component	System	Time Aspect	Property	Scale Type	Method	Sample LOINC Code(s)	Sample Values
	Chlamydia Species DNA Probe	specimens include urine, genital swab, vaginal swab, cervical swab, and urethra swab	CHLAMYDIA SP DNA	CVX, GEN, GENV, SER, UR, URTN	PT	ACNC	ORD	*	32774-2, 34708-8, 35713-7, 35714-5, 35715-2, 35716-0, 35717-8, 35722-8, 35726-9, 35727-7, 35728-5, 35729-3, 35730-1	NEGATIVE

Legend:

System		Time Aspect
AMN	Amniotic fluid	6H
BLD	Whole Blood	12H
BLD^BPU	Blood – Blood Product Unit	24H
BLDA	Blood Arterial	PT
BLDC	Blood Capillary	XXX
BLDCO	Blood – Cord	<Variable>
BLDCO^FETUS	Blood – Cord Fetus	
BLDCOA	Blood – Cord Arterial	
BLDCOV	Blood – Cord Capillary	
BLDMV	Blood Mixed Venous	
BLDV	Blood Venous	
CNJT	Conjunctiva	
CSF	Cerebral Spinal Fluid	
CVM	Cervical Mucus	
CVX	Cervix	
CVX^VAG	Cervix / Vaginal	
FLU	Body Fluid, Unspecified	
GEN	Genital	
GENF	Genital Fluid	
GENV	Genital Vaginal	
PLAS	Plasma	
PRT	Peritoneal Fluid / Ascites	
RBC	Erythrocytes	
SAL	Saliva	
SER	Serum	
SER^PLAS	Serum / Plasma	
SER^PLAS^ULTRACENTRIFUGE	Serum / Plasma Ultracentrifuge	
SER^PLAS^BPU	Serum / Plasma – Blood Prod. Unit	
SER^PLAS^DONOR	Serum / Plasma – Donor	
SER^DONOR	Serum – Donor	
STL	STOOL	
THRT	THROAT	
UR	URINE	
URNS	URINE SEDIMENT	
URTH	URETHRA	
WBC		

Scale Type	
DOC	Document
NAR	Narrative
NOM	Nominal
ORD	Ordinal
QN	Quantitative

Property	
ACNC	Arbitrary Concentration
APER	Appearance
CCNC	Catalytic Concentration
CCRTO	Catalytic Concentration Ratio
ENTMASS	Entitic Mass
ENTVOL	Entitic Volume
FIND	Finding
IMP	Impression / Interpretation of study
LNCC	Log Number Concentration
MASS	Mass
MCNC	Mass Concentration
MCNT	Mass Content
MCRT0	Mass Concentration Ratio
MFR	Mass Fraction
MORPH	Morphology
MRAT	Mass Rate
MSCNC	Substance Concentration
MSRAT	Substance Rate
NARIC	Number Areic (Number per Area)
NCNC	Number Concentration (count / vol)
NFR	Number Fraction
NRTO	Number Ratio
PRCTL	Percentile
PRID	Presence or Identity
RATIO	Ratios
RDEN	Relative Density
RLTM	Relative Time
SCNC	Substance Concentration
SCRTO	Substance Concentration Ratio
SUB	Substance Amount
TITR	Dilution Factor (Titer)
TYPE	Type
VEL	Velocity