

RELMA

Advanced Topics and Practicum – Part 2

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INDIANA UNIVERSITY

DEPARTMENT OF MEDICINE
School of Medicine



Regenstrief Institute
Medical Informatics

Overview

1. Mapping Tips and Tactics

1. Hints on naming conventions
2. Domain-specific tips
3. LOINC and SNOMED

2. Other RELMA Features

1. Auto mapper, Panels, Parts
2. Exporting local term mappings
3. Proposing new LOINC codes

3. Mapping Practicum



Specifics of LOINC Naming Conventions

Matching LOINC codes to your results

Prid/Nom versus Type/Nom

Presence or Identity / Nominal

```
634-6^Bacteria identified:Prid:Pt:XXX:Nom:Aerobic culture^:LN
```

Expected result comes from a list

Coded or free text

SNOMED recommended

“No growth”

Type / Nominal

```
59846-6:Salmonella sp identified:Type:Pt:Isolate:Nom
```

As above, but no negative

ACnc/Ord

Arbitrary concentration / Ordinal

11006-4: *Borrelia burgdorferi* Ab:Acnc:Pt:Ser:Ord

Expected results

Positive, Negative

Detected, Not detected

Yes, No

System

“**XXX**” means *to be specified in another part of the message*

Specified System

Ser

Urine

Wound

Cvx

Stool

Isolate

Etc.

Method

Nucleic acid target amplification and probe (prob.amp.tar)

Polymerase Chain Reaction

Transcription Mediated Amplification

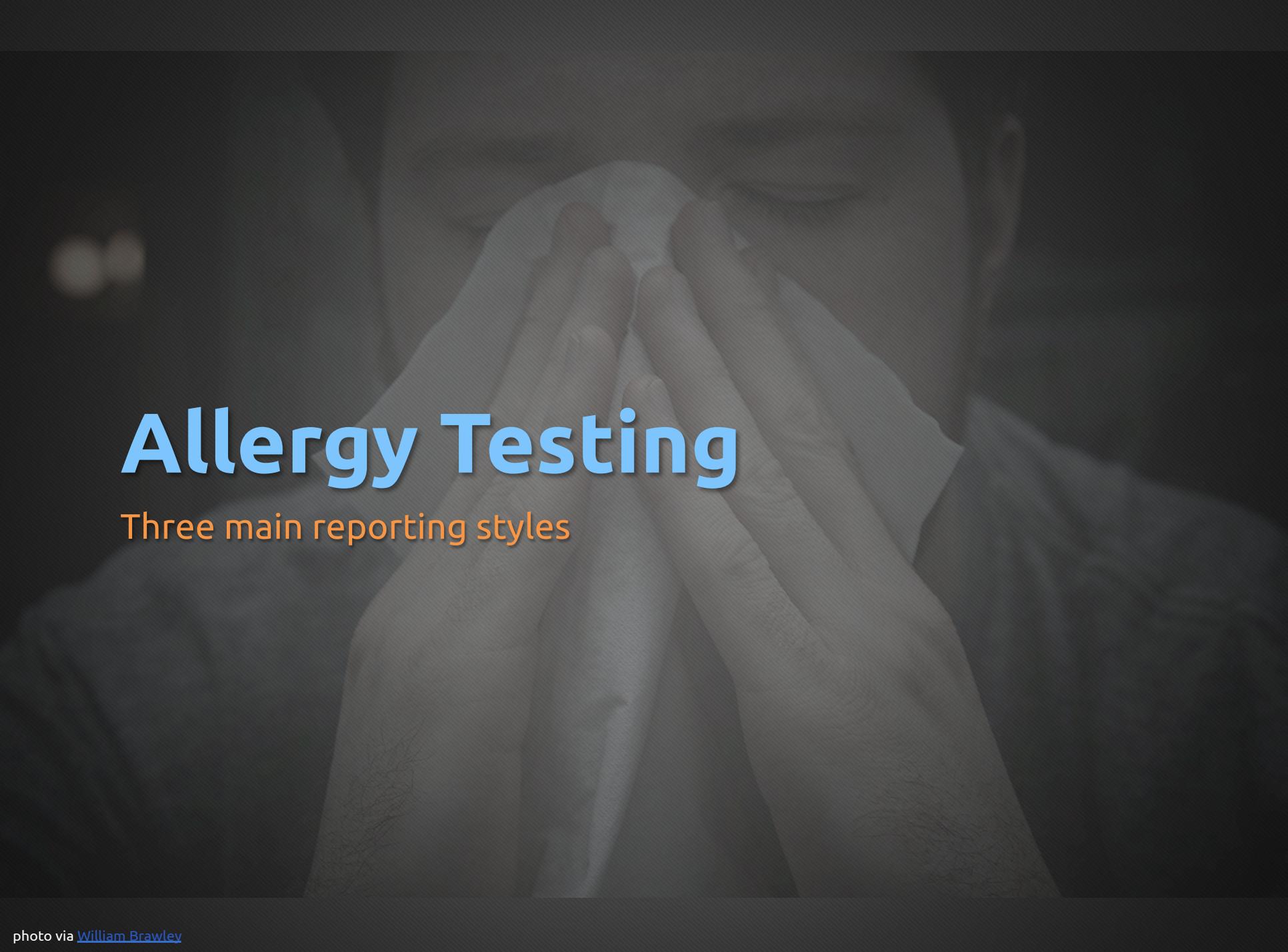
Ligase Chain Reaction

Nucleic acid signal amplification and probe (prob.amp.sig)

Hybridization Protection Assay

Branched Chain DNA

Domain-specific Hints

A grayscale photograph of a person sneezing into a white tissue. The person's eyes are closed, and their hands are holding the tissue to their face. The background is dark and out of focus.

Allergy Testing

Three main reporting styles

Allergen Reporting

Three possible ways

1. Numeric concentration of IgE antibodies (IU/mL)

```
6276-0:Triticum aestivum Ab.IgE:Acnc:Pt:Ser:Qn
```

2. A Rank (the RAST class from 1-6) based on the concentration

```
16085-3:Triticum aestivum Ab.IgE.RAST class:Acnc:Pt:Ser:Ord
```

3. A Percent of the reaction rate to the control specimen

```
41207-2:Triticum aestivum Ab.IgE:Ratio:Pt:Ser:Qn
```

A microscopic image of tissue, likely a histological section, showing numerous cells with dark nuclei and lighter cytoplasm/extracellular matrix. The image is overlaid with a semi-transparent dark blue/purple gradient. The text 'Cell Markers' is prominently displayed in a light blue, bold, sans-serif font. Below it, the subtitle 'A quick clarification' is written in a smaller, orange, sans-serif font. At the bottom left, there is a small white text credit: 'photo via Pulmonary Pathology' with 'Pulmonary Pathology' underlined and in blue.

Cell Markers

A quick clarification

HIV-related Testing

CD3 marker need to accurately identify T-cells

CD3+ CD4+

Both needed to identify T4 helper cells
Often called CD4+ marker, T4 cells, etc

CD3+ CD8+

Same rules apply as above.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18														
1 H																	2 He														
3 Li	4 Be											5 B	6 C	7 N	8 O	9 F	10 Ne														
11 Na	12 Mg											13 Al	14 Si	15 P	16 S	17 Cl	18 Ar														
19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr														
37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe														
55 Cs	56 Ba	57 La	58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn
87 Fr	88 Ra	89 Ac	90 Th	91 Pa	92 U	93 Np	94 Pu	95 Am	96 Cm	97 Bk	98 Cf	99 Es	100 Fm	101 Md	102 No	103 Lr	104 Rf	105 Db	106 Sg	107 Bh	108 Hs	109 Mt	110 Ds	111 Rg	112 Cn	113 Uut	114 Uuq	115 Uup	116 Uuh	117 Uus	118 Uuo
Lanthanides		57 La	58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu															
Actinides		89 Ac	90 Th	91 Pa	92 U	93 Np	94 Pu	95 Am	96 Cm	97 Bk	98 Cf	99 Es	100 Fm	101 Md	102 No	103 Lr															

Chemistry

A few reminders and tips

Cholesterol LDL

Calculated

13457-7:Cholesterol.in LDL:MCnc:Pt:Ser/Plas:QA:Calculated

Included in routine lipid panels, estimated from this equation:

$LDL = \text{total cholesterol} - HDL - (\text{Triglycerides} \times .20)$

Direct

18262-6:Cholesterol.in LDL:MCnc:Pt:Ser/Plas:Qn:Direct assay

If reported alone, this is the most likely one.

Method unspecified (if you don't know)

2089-1:Cholesterol.in LDL:MCnc:Pt:Ser/Plas:Qn

Analytes in Urine

Possible ways

1. **Spot (random)**. Have Pt as Time and a concentration as Property (MCnc, SCnc, etc)

2161-8:Creatinine:MCnc:Pt:Urine:Qn

2. **Timed (24H) – concentration**. (multiply measured by volume of full collection)

20624-3:Creatinine:MCnc:24H:Urine:Qn

3. **Excretion rate (24H)**.

2162-6:Creatinine:Mrat:24H:Urine:Qn

Choriogonadotropin

Pregnancy Tests

2118-8:Choriogonadotropin (pregnancy test) [Presence] in Ser/Plas
2106-3:Choriogonadotropin (pregnancy test) [Presence] in Urine
2110-5:Choriogonadotropin.beta subunit (pregnancy test) [Presence] in Ser/Plas
2112-1:Choriogonadotropin.beta subunit (pregnancy test) [Presence] in Urine

Tumor Marker

53959-3:Choriogonadotropin.tumor marker [Units/volume] in Serum or Plasma
53957-7:Choriogonadotropin.tumor marker [Mass/volume] in Serum or Plasma
53958-5:Choriogonadotropin.tumor marker [Moles/volume] in Serum or Plasma

Drug/Toxicology

Toxicology

Codes specific to many specimens

Different codes for screening and confirmatory tests

Watch out for singular vs plural

Amphetamines (methamphetamine, MDMA, etc) versus Amphetamine



Genetic Testing

Rapidly growing field

Naming Conventions

Many local names just include the disorder, so need to know what is actually being tested for: specific genes, mutations, etc.

cftr molgen |

Search



Units of Measure: Common Orders Only Common Lab Results Only

Auto Mapper Search: No

Ro	Score	LOINC	Component	Property	Timing	System	Scale	Method
3	26.41...	42938-1	CFTR gene allele 1	Arb	Pt	Bld/Tiss	Ord	Molgen
4	26.41...	42939-9	CFTR gene allele 2	Arb	Pt	Bld/Tiss	Ord	Molgen
5	23.56...	46989-0	CFTR gene mutation analysis	Prid	Pt	Amnio fld	Nar	Molgen
6	23.56...	34718-7	CFTR gene mutation analysis	Prid	Pt	Amnio fld	Nom	Molgen
7	23.56...	38404-0	CFTR gene mutation analysis	Prid	Pt	Bld/Tiss	Nar	Molgen
8	23.56...	21177-1	CFTR gene mutation analysis	Prid	Pt	Bld/Tiss	Nom	Molgen
9	23.56...	21654-9	CFTR gene mutation analysis	Prid	Pt	Bld/Tiss	Nom	Molgen
10	23.56...	50998-4	CFTR gene mutations tested for	Num	Pt	Bld/Tiss	Qn	Molgen
11	23.56...	21656-4	CFTR gene mutations tested for	Prid	Pt	Bld/Tiss	Nom	Molgen
12	26.41...	38449-5	CFTR gene.p.1078 delT	Arb	Pt	Bld/Tiss	Ord	Molgen
13	26.41...	38450-3	CFTR gene.p.2184 delA	Arb	Pt	Bld/Tiss	Ord	Molgen
14	26.41...	38451-1	CFTR gene.p.2789+5G>A	Arb	Pt	Bld/Tiss	Ord	Molgen
15	26.41...	38452-9	CFTR gene.p.3120+1G>A	Arb	Pt	Bld/Tiss	Ord	Molgen
16	26.41...	34706-2	CFTR gene.p.3199 delG	Arb	Pt	Bld/Tiss	Ord	Molgen
17	26.41...	38453-7	CFTR gene.p.3659 delC	Arb	Pt	Bld/Tiss	Ord	Molgen
18	26.41...	38456-0	CFTR gene.p.3849+10KBC>T	Arb	Pt	Bld/Tiss	Ord	Molgen
19	26.41...	38455-2	CFTR gene.p.621+1G>T	Arb	Pt	Bld/Tiss	Ord	Molgen
20	26.41...	38447-9	CFTR gene.p.711+1G>T	Arb	Pt	Bld/Tiss	Ord	Molgen
21	26.41...	38448-7	CFTR gene.p.A455E	Arb	Pt	Bld/Tiss	Ord	Molgen



**HL7 Version 2 Implementation Guide: Clinical
Genomics; Fully LOINC-Qualified Genetic Variation
Model, Release 1**
September, 2009

HL7 Informative Document

Sponsored by:

Clinical Genomics WG

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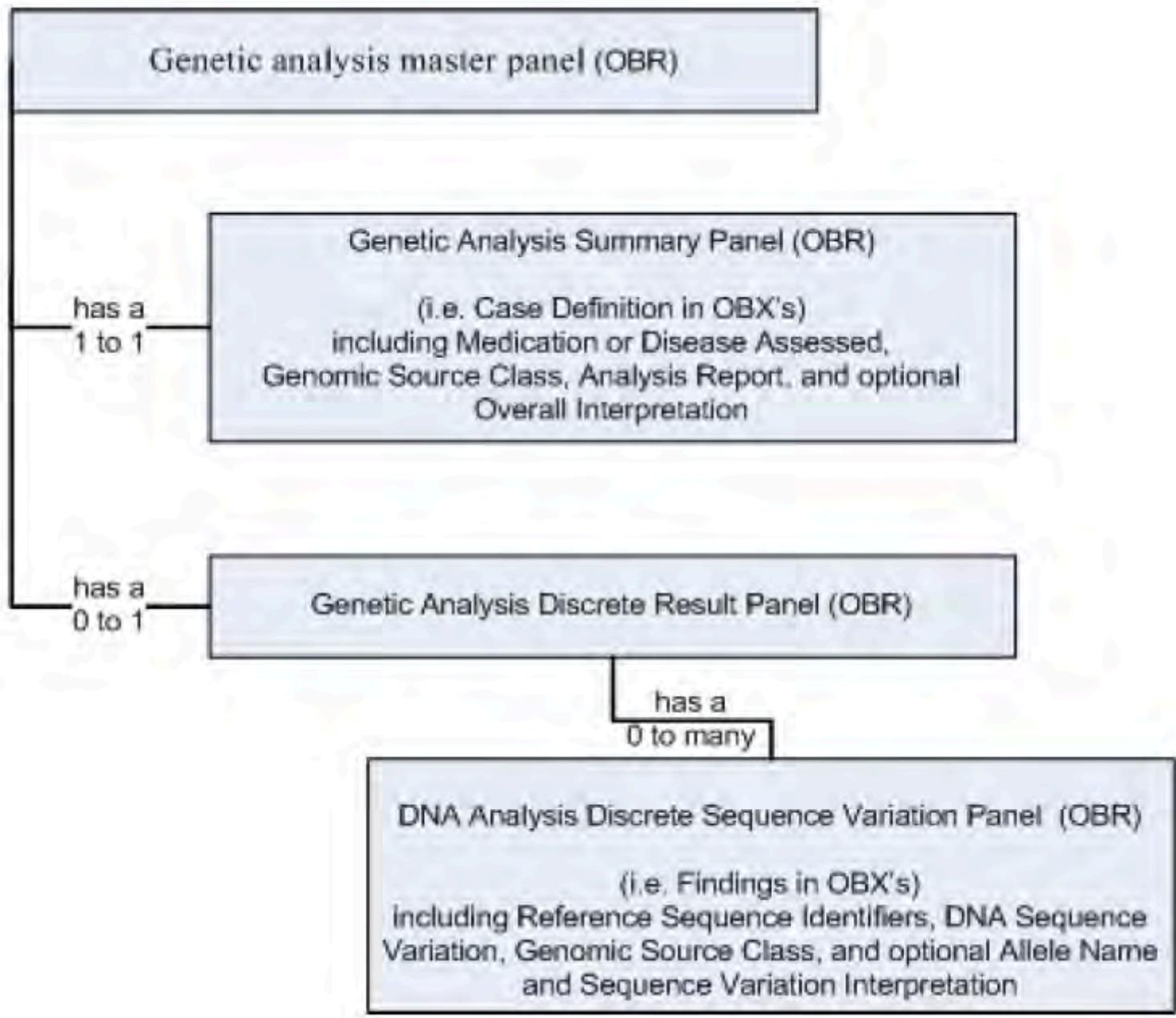
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55233-1 Genetic analysis master panel in Blood or Tissue by Molecular genetics method

PANEL HIERARCHY

LOINC#	LOINC Name	R/O/C	Cardinality	Data Type	Ex. UCUM	Units
55233-1	Genetic analysis master panel in Blood or Tissue by Molecular genetics method		1..n			
55232-3	Genetic analysis summary panel in Blood or Tissue by Molecular genetics method		1..n			
51967-8	Genetic disease assessed [Identifier] in Blood or Tissue by Molecular genetics method	C	0..n	CWE		
51963-7	Medication assessed [Identifier] in Blood or Tissue by Molecular genetics method	C	0..n	CWE		
48002-0	Genomic source class [Type] in Blood or Tissue by Molecular genetics method	R	1..1	CWE		
51968-6	Genetic disease analysis overall interpretation [interpretation] in Blood or Tissue by Molecular genetics method	C	0..1	CWE		
53039-4	Genetic disease analysis overall carrier interpretation [interpretation] in Blood or Tissue by Molecular genetics method	C	0..1	CWE		
51964-5	Drug efficacy analysis overall interpretation [interpretation] in Blood or Tissue by Molecular genetics method	C	0..1	CWE		
51971-0	Drug metabolism analysis overall interpretation [interpretation] in Blood or Tissue by Molecular genetics method	C	0..1	CWE		
51969-4	Genetic analysis summary report in Blood or Tissue Document by Molecular genetics method	O	0..1	FT		
53577-3	Reason for study additional note [Text] in Blood or Tissue by Molecular genetics method Narrative	O	0..1	ST		
55207-5	Genetic analysis discrete result panel in Blood or Tissue by Molecular genetics method		1..n			
55208-3	DNA analysis discrete sequence variation panel in Blood or Tissue by Molecular genetics method		1..n			
48018-6	Gene [Identifier] in Blood or Tissue by Molecular genetics method	O	0..1	CWE		
48013-7	Genomic reference sequence [Identifier] in Blood or Tissue by Molecular genetics method	C	0..1	CWE		
51958-7	Transcript reference sequence [Identifier] in Blood or Tissue by Molecular genetics method	C	0..1	CWE		
48008-7	Allele name [Identifier] in Blood or Tissue by Molecular genetics method	O	0..1	CWE		
48003-8	DNA sequence variation identifier [Identifier] in Blood or Tissue by Molecular genetics method	O	0..1	CWE		
48004-6	DNA sequence variation in Blood or Tissue by Molecular genetics method	C	0..1	CWE		
48019-4	DNA sequence variation type in Blood or Tissue by Molecular genetics method	O	0..1	CWE		
48005-3	Amino acid change in Blood or Tissue by Molecular genetics method	C	0..1	CWE		
48006-1	Amino acid change type in Blood or Tissue by Molecular genetics method	O	0..1	CWE		

HL7 VERSION 2 IMPLEMENTATION GUIDE: CLINICAL GENOMICS; FULLY LOINC-QUALIFIED CYTOGENETICS MODEL, RELEASE 1

ORU^R01

HL7 Version 2.5.1

September, 2011

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A microscopic image of tissue, likely stained with hematoxylin and eosin (H&E). The image shows numerous blue-stained nuclei of various sizes and shapes, interspersed with pink-stained connective tissue and cytoplasm. The overall appearance is that of a dense cellular structure, possibly from an organ like the liver or kidney.

Microbiology

Common questions and points of confusion

Routine Cultures

Component

Bacteria identified

Fungus identified

Virus identified

Method

Culture

Anaerobic culture

Aerobic culture

“Bacteria identified”

*Anything that will grow on
routine culture media*

Bacteria

Yeasts (sometimes)

```
OBX|1|CE|606-7^Bacteria identified in Bld by Culture^LN|1|  
3092008^Staphylococcus aureus^SCT|...
```

Does not mean only positive results

No growth

Normal flora

No significant growth

Susceptibility Testing

Antibiotics, etc

18864-9:Ampicillin:Susc:Pt:Isolate:OrdQn

19000-9:Vancomycin:Susc:Pt:Isolate:OrdQn

LOINC has codes based on methods

Methodless

Minimum Inhibitory Concentrations

Kirby Bauer disc testing

Gradient strip (E-test)

Susceptibility Testing

Resistance Genes in Bacteria

62256-3: Bacterial aminoglycoside resistance (aacA)
gene: ACnc:Pt:XXX:Ord:Probe.amp.tar

48813-0: Bacterial methicillin resistance (mecA)
gene: ACnc:Pt:XXX:Ord:Probe.amp.tar

A close-up photograph of a person's hand holding their index finger. A small drop of blood is visible on the tip of the finger. A white and blue glucometer strip, labeled 'ACCU-CHEK', is inserted into the finger. In the background, a hand is holding a white glucometer device with a digital display and navigation buttons. The entire image is overlaid with a semi-transparent dark grey filter.

Point of Care Testing

Also a common question

Point Of Care (POC)

After discussion LOINC Committee decided **NOT** to distinguish on this aspect in the LOINC name.

Many times the POC variant has a System of “Bld” (versus Ser, etc).

Using LOINC and SNOMED

*If an observation is a question and
the observation value is
an answer...*

**LOINC provides codes for
*questions***

**Other vocabularies (e.g.
SNOMED) provide codes for
the *answers***

LOINC represents the *question*

Is there any Botulism toxin in my specimen?

33708-9^Clostridium botulinum toxin:Acnc:Pt:XXX:Ord^LN

Organisms identified in the specimen?

634-6^Bacteria identified:Prid:Pt:XXX:Nom:Aerobic culture^:LN

SNOMED represents the *answer*

260385009^Negative^SCT

103429008^E. coli 0157:H7^SCT

Result with a Coded Value

Data type of result (OBX-5) is a coded element

This code is from LOINC

This code is from SNOMED

```
OBX||CE|6609-2^Listeria ID^LN|36094007^L. monocytogenes^SCT
```

Code identifying this observation
(what are these results?
Listeria culture)

Code identifying the result (L. monocytogenes)

How do they work in HL7v2?

LOINC may be used:

- in OBR-4 (Universal Service Identifier)
- in OBX-3 (Observation Identifier)

SNOMED may be used:

- in OBX-5 (where coded values are needed)
- almost anywhere else coded values are needed

How do they work in CDA?

LOINC may be used:

- ClinicalDocument/code
- Section/code
- Observation/code

SNOMED may be used:

- almost anywhere else coded values are needed

Prospects for Collaboration

Joint Press Release

INTERNATIONAL HEALTH TERMINOLOGY
STANDARDS DEVELOPMENT ORGANISATION



IUPAC
International Union of Pure and Applied Chemistry

April 6, 2009

Owners of LOINC, NPU, and SNOMED CT Begin Trial of Cooperative Terminology Development

On April 1, 2009, the owners of three standards that contain laboratory test terminology – the Logical Observation Identifiers, Names, Codes (LOINC), Nomenclature, Properties and Units (NPU), and the Systematized Nomenclature of Medicine – Clinical Terms (SNOMED CT) – began an operational Trial of prospective divisions of labor in the generation of laboratory test terminology content. This Trial will provide practical experience and important information on opportunities to decrease duplication of effort in the development of laboratory test terminology and to ensure that SNOMED CT works effectively in combination with either LOINC or NPU.

During the Trial:

- New laboratory test terminology content will be created by the Regenstrief Institute (RI) and the LOINC Committee, which own LOINC, OR by the International Federation of Clinical Chemistry (IFCC) and the International Union of Pure and Applied Chemistry (IUPAC), which own NPU, but not by the International Health Terminology Standards Development Organisation (IHTSDO), which owns SNOMED CT;
- SNOMED CT modeling of such content will be done as a by-product of creating new content for LOINC or NPU and then incorporated into SNOMED CT; and
- SNOMED CT codes will be used to represent appropriate parts of LOINC and NPU entities.

Designed to last 6 months or less, the Trial will also provide an opportunity to assess the robustness of the new SNOMED CT Observables Model as a structure for representing LOINC and NPU laboratory test terminology content; to gain a clearer picture of the differences between LOINC and NPU as background for future discussions about the feasibility of a more unified effort between them to further reduce duplication of effort; and to identify any country-specific aspects of laboratory test terminology that may not be suitable for inclusion in the International Release of SNOMED CT. During this period, users can continue to submit requests for laboratory test terminology to any of the three organizations involved in the Trial.

Martin Severs, Chair of the IHTSDO Management Board, stated "The IHTSDO is extremely pleased to have reached the point of an operational trial of cooperative terminology development with the Regenstrief Institute and IFCC-IUPAC. Some of IHTSDO's Member countries use both LOINC and SNOMED CT, some use both NPU and SNOMED CT, and others expect SNOMED CT to include the level of laboratory test terminology required to meet their needs. Patients and health care providers need these standards to work together. We are therefore committed to minimizing patient risk and supporting effective communication, decision support, and health data analysis by ensuring that SNOMED CT can work effectively in combination with either LOINC or NPU in computer systems that support electronic patient records."

Daniel Vreeman, Research Scientist at the Regenstrief Institute and Assistant Research Professor at the Indiana University School of Medicine said "We are delighted to have an opportunity to "just do it" for a trial period, so that a long term agreement between LOINC and SNOMED CT can be informed by a real understanding of the specific technical and policy issues involved in cooperative development of standard terminology. It is an added bonus that the Trial may also help to identify opportunities to reduce duplication of effort in LOINC and NPU development."

More RELMA Fun

Auto-mapper, Panels, Parts, Export,
Proposing new LOINC



RELMA's Auto Mapper

Ranked list of candidate LOINC's



What Does It Do?

Batch processes local term file or runs on-demand for selected local term

Uses *words* and *units* from local terms

Produces a ranked list for your review



Auto Mapper On-Demand

Map Local Terms - CDC-Top110

File Tools HIPAA Lab Auto Mapper View Help

Search Mapping View All Working Set Terms Hierarchy & Search Limits Part Search

Local Term File Mapped to: Name: 6768-6 Alkaline phosphatase [Enzymatic activity/volume] in Serum or Plasma Local Term Details

OBR-4 Code: OBR-3 Code: Units: Sample Values: Limit to Default Specimen:

4

Extra Search Words: Accept or enter OBR name and/or OBX name

ALKALINE PHOSPHATASE

View: All Search Clear Inputs Clear Most Limits Common lab results Lookup Term By #

4 of 110 Show Words

Auto Mapper Search: Lab No Lab Clinical

Breaks tie scores with Rank

Ro	Score	OINC	Component	Property	Timing	System	Scale	Method	ExU...	ExU...	Rank	Class
1	3/4	6768-6	Alkaline phosphatase	CCnc	Pt	Ser/Plas	Qn		U/L	U/L...	23	CHEM
2	3/4	55971-6	Alkaline phosphatase	CCnc	Pt	BldCo	Qn		U/L	U/L		CHEM
3	3/4	1776-4	Alkaline phosphatase	MCnc	Pt	Urine	Qn		ug/L	ug/L		CHEM
4	3/4	29639-2	Alkaline phosphatase	CCnt	Pt	Tiss	Qn		U/g	U/g		CHEM
5	3/4	16337-8	Alkaline phosphatase	CCnc	Pt	Urine	Qn		U/L	U/L		CHEM
6	3/4	1783-0	Alkaline phosphatase	CCnc	Pt	Bld	Qn		U/L	U/L		CHEM
7	3/5	1777-2	Alkaline phosphatase.bone	CCnc	Pt	Ser/Plas	Qn		U/L	U/L...	1850	CHEM
8	3/5	1779-8	Alkaline phosphatase.liver	CCnc	Pt	Ser/Plas	Qn		U/L	U/L...	1919	CHEM
9	3/5	1781-4	Alkaline phosphatase.regan	CCnc	Pt	Ser/Plas	Qn		U	units		CHEM
10	3/5	1782-2	Alkaline phosphatase.renal	CCnc	Pt	Ser/Plas	Qn		U/L	U/L		CHEM

Truncated Text Print Preview

Entry #: 4 of 110 Units Specimen Methodless Common Labs Battery Max Words: 10 records found: 0.195



Recent Improvements

Much faster

Better clean-up routine

New specimen guesser

Better local to LOINC word finder

Break ties with frequency data



(Lab) Auto Mapper

Map Local Terms - DJV-20110521

File Tools HIPAA Lab Auto Mapper View Help

Search Mapping View All Working Set Terms Hierarchy Limits Part Search

Local Term File

Mapped to: Name:

Next
Previous
First
Last

View: All

#: 17 of 283

Grid Tree

Row Score LO

Local Term Currently Processing

This may be a lengthy process, please be patient.

Lab Auto Mapper (LAM)

This process scans the Local Term File using a recommendation engine to propose probable LOINC terms. Once completed, you may use the probable list to easily map your terms via the 'Choose From' screen to LOINC codes.

Warning - This function is optimized for processing of lab terms. Using this function on other types of codes may produce unexpected results. The statistical data used by this function is based on a US sample.

Process only unmapped local terms Maximum number of close LOINC term matches to return: 10

Prefer Common Lab Results:

Process Terms Report Map to Results Exit

Print Preview

Entry #: 17 of 283 Units Specimen Methodless Common Labs Battery Max Words: Part Search (6 results on '(campylobacter) description:true'): 0.02s

launch it here

a couple of options

print report or work through the ranked list when done

Intelligent Mapper - Mapping Screen

Choose from N Best LOINC Matches to Local Terms

Revised: Ignored Words:

panel

Part Detection Phrases:

{Probe:r} -> (SYN2PART:{LP35055-0:Right})

Comments:

Lab Section:

Battery: **R-URN ALBUMIN/CREAT**

4039

LOINC:

Local Term Details

Test: **R-URN ALB/CR RATIO**

7989

U = mcg/mg Cr

Map

UnMap

Words Matched	LOINC Words	LOINC	Component	Property	Time	System	Scale	Method
10	4	9318-7	Albumin[Creatinine]	MCrto	Pt	[Urine]	Qn	
10	5	13705-9	Albumin[Creatinine]	MCrto	24H	[Urine]	Qn	
10	9	14959-1	Albumin[Creatinine]	MCrto	Pt	[Urine]	Qn	Detection limit <= 20 mg/L
10	10	14958-3	Albumin[Creatinine]	MCrto	24H	[Urine]	Qn	Detection limit <= 20 mg/L
10	10	44292-1	Albumin[Creatinine]	MCrto	12H	[Urine]	Qn	Detection limit <= 20 mg/L
9	4	16285-9	Creatinine/Protein	MCrto	Pt	[Urine]	Qn	
9	4	44716-9	Creatinine/Calcium	MCrto	Pt	[Urine]	Qn	
9	4	44707-8	Albumin[Creatinine]	MCrto	Pt	CSF	Qn	
9	4	9405-2	Albumin/Globulin	MCrto	Pt	[Urine]	Qn	
9	5	44293-9	Albumin/Globulin	MCrto	Pt	[Urine]	Qn	Electrophoresis

Find Local code

Bat.

Test

Find

First

Previous

Next

Last

LOINC
Lookup

Exit

Using Your Mapped Terms

You've done the work. Now reap the glory.

Printing Mapped Terms

Map Local Terms - LOINC Workshop OBR

File Tools HIPAA Intelligent Mapper View Help

Search Mapping View All Working Set Terms Hierarchy & Search Limits Part Search

Edit Term in Local Term File Add New Term to Local Term File Delete Term from Local Term File Export Local Term File

Enter words to find:

Row	Battery Code	Battery...	Codesystem	Test Code	Test Description	Codesystem	Units	LOINC	Order	# Pat	# Obs	Recent
1	312370	MIC		309651	Nafcillin			347-5				
2	312370	MIC		708007	Moxifloxadn			31037-5				
3	665670	Basic Metabolic...		754689	Anion Gap		mmol/L	33037-3				
4	665670	Basic Metabolic...		755363	Creatinine...		mg/dL	2160-0				
5	665670	Basic Metabolic...		755364	Sodium SerPl QN		mmol/L					
6	665670	Basic Metabolic...		755365	Potassium ...		mmol/L	22760-3				
7	665670	Basic Metabolic...		755366	Chloride SerPl...		mmol/L	2075-0				
8	665670	Basic Metabolic...		5367	Carbon Dioxide...		mmol/L	2028-9				
9	665670	Basic Metabolic...		5368	Glucose SerPl QN		mg/dL	2345-7				
10	665670	Basic Metabolic...		5369	BUN SerPl QN		mg/dL	3094-0				
11	665670	Basic Metabolic...		5370	Calcium Total...		mg/dL					
12	667682	Factor VIII(8)-...		5177	Factor VIII-C...		%					
					Factor X Assay		%	3219-3				
					Factor XI Assay		%	3227-6				
					Factor XII-A							
					Factor XII-B							
17	685703	Cooximetry...		755473	Carboxyhemoglobin							
18	685703	Cooximetry...		755474	Methemoglobin							
19	685703	Cooximetry...		755475	Oxyhemoglobin							
20	685733	CRP SerPl QN		755479	C-Reactive Protein							
21	685796	Drug Scn SerPl...		755372	Benzo diaz Som...							

Truncated Text Print Preview

Entry #: 1 of 190 6 records found: 0.06s

May highlight terms to be printed

Click Print button to Preview output

Configure Export Format

The screenshot shows the 'Map Local Terms - LOINC Workshop OBR' application. The interface includes a menu bar (File, Tools, HIPAA, Intelligent Mapper, View, Help) and a toolbar with buttons for 'Edit Term in Local Term File', 'Add New Term to Local Term File', 'Delete Term from Local Term File', and 'Export Local Term File'. Below the toolbar is a search area with the text 'Enter words to find:' and a search button. The main area is a data grid with columns: Row, Battery Code, Battery..., Codesystem, Test Code, Test Description, Codesystem, Units, LOINC, Order, # Pat, # Obs, and Recent. Row 7 is selected, and a context menu is open over it, showing options: Export, Configure Export, Sort Grid, Configure Grid, Truncate Text, Wrap Text, and Print. A blue callout box with a speech bubble points to the 'Configure Export' option, containing the text 'Context Sensitive Export Configuration'. At the bottom of the grid, there are two buttons: 'Truncated Text' and 'Print Preview'. The status bar at the bottom shows 'Entry #: 7 of 473' and 'Part Search (3 results on 'campylobacter fetus -ab'): 0.05s'.

Row	Battery Code	Battery...	Codesystem	Test Code	Test Description	Codesystem	Units	LOINC	Order	# Pat	# Obs	Recent
1	312370	MIC		309651	Nafcillin							
2	312370	MIC		708007	Moxifloxadn							
3	665670	Basic..		754689	Anion Gap		mmol/L					
4	665670	Basic..		755363	Creatinine...		mg/dL					
5	665670	Basic..		755364	Sodium SerPl QN		mmol/L					
6	665670	Basic..		755365	Potassium...		mmol/L					
7	665670	Basic..		755366	Chloride SerPl		mmol/L	2075-0				
8	665670	Basic..										
9	665670	Basic..										
10	665670	Basic..										
11	665670	Basic..										
12	667682	Factor VIII(8)-...		755177	Factor VIII-C...		%					
13	667685	Factor X(10)...		755179	Factor X Assay		%					
14	667688	Factor XI(11)...		755181	Factor XI Assay		%					
15	684308	ABO and Rh		810892	Anti-A							
16	684308	ABO and Rh		810893	Anti-B							
17	685703	Cooximetry...		755435	Carboxyhemog...		%					
18	685703	Cooximetry...		755474	Methemoglobi...		%					
19	685703	Cooximetry...		755475	Oxyhemoglobi...		%					
20	685733	CRP SerPl QN		755479	C-Reactive...		mg/dL					
21	685796	Drug Scn SerPl...		755372	Benzodiaz Scn...							
22	685796	Drug Scn SerPl...		755496	Tricyclic...							
23	685796	Drug Scn SerPl...		755497	Salicylate SerPl...		mg/dL					

Context Sensitive Export Configuration

Export
Configure Export
Sort Grid
Configure Grid
Truncate Text
Wrap Text
Print

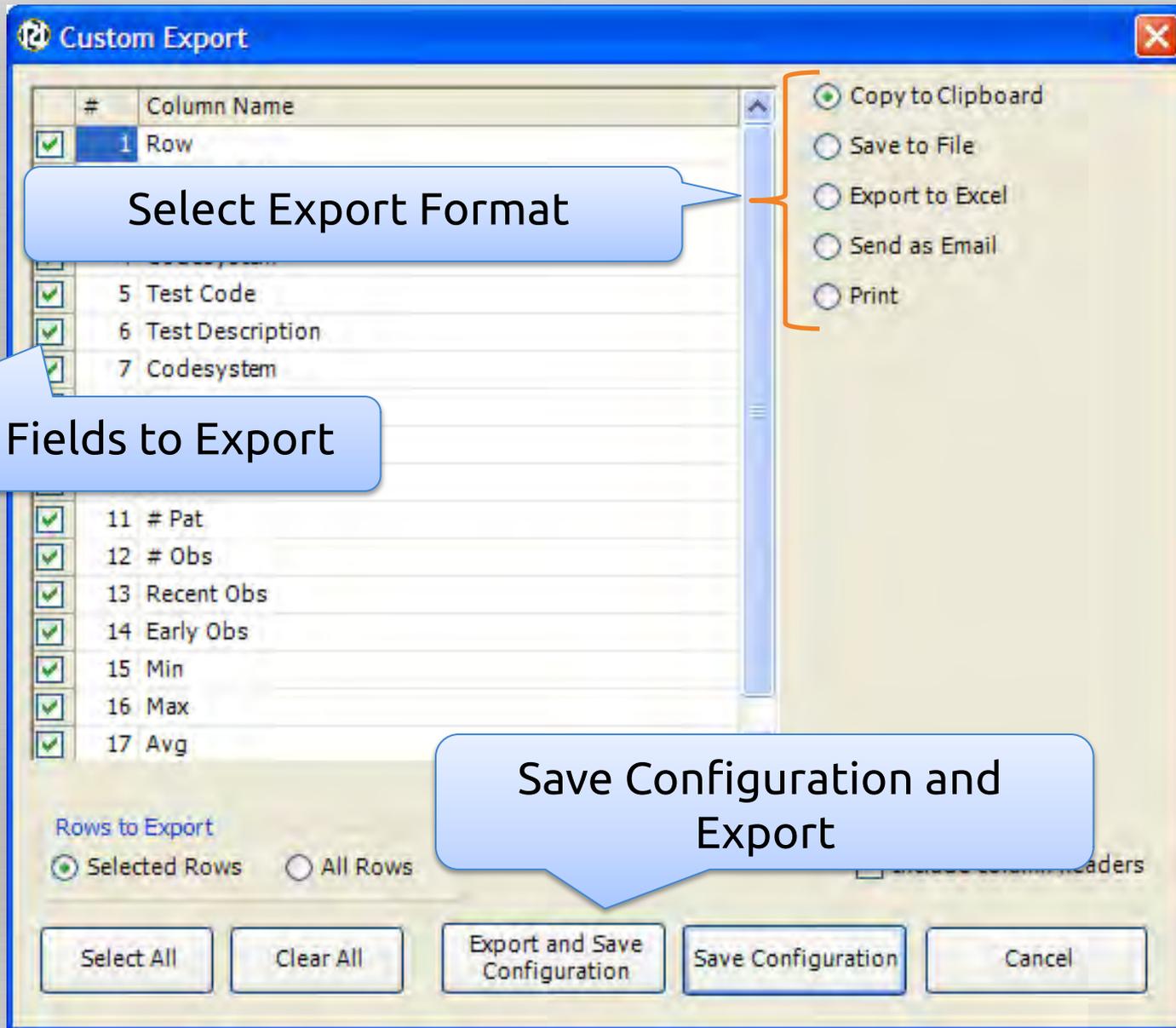
Truncated Text

Print Preview

Entry #: 7 of 473

Part Search (3 results on 'campylobacter fetus -ab'): 0.05s

Export Grid Rows Config



Export Local Term File

Map Local Terms - DJV-20110521

File Tools HIPAA Lab Auto Mapper View Help

Search Mapping View All Working Set Terms Hierarchy & Search Limits Part Search

Edit Term in Local Term File Add New Term to Local Term File Delete Term from Local Term File Export Local Term File

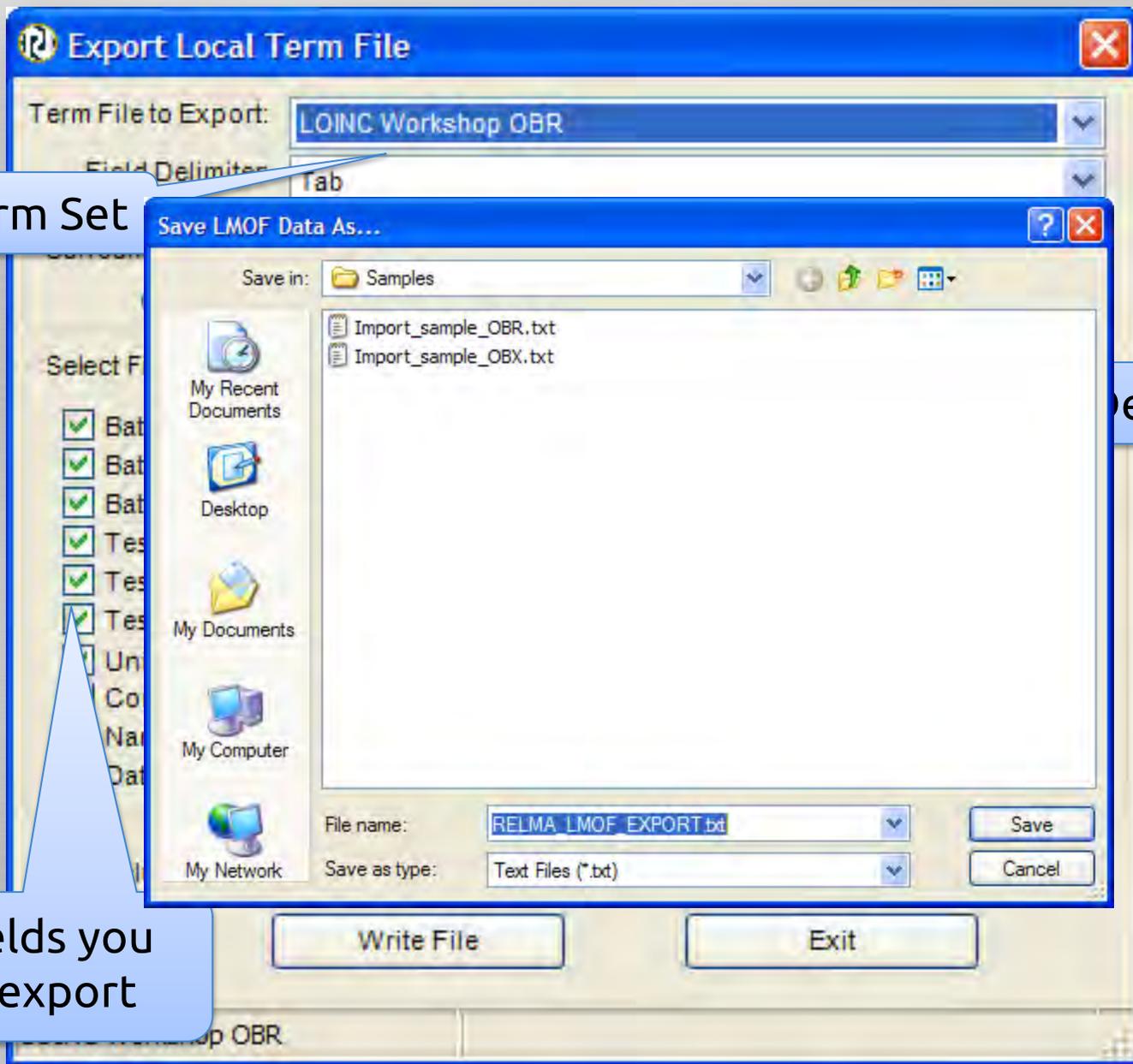
Enter words to find:

Row	Battery Code	Battery Description	Battery Codesystem	Test Code	Test Description	Test Codesystem	Units	LOINC	Created
1	315	BLOOD CULTURE	L	6491	MEDIA TYPE	LCR			
2	315	BLOOD CULTURE	L	1263	BLOOD ORG 1	LCR			
3	315	BLOOD CULTURE	L	1264	BLOOD ORG 2	LCR			
4	315	BLOOD CULTURE	L	6498	MEDIA TYPE 2	LCR			
5	315	BLOOD CULTURE	L	5807	ORG 1	LCR			7/23/2004
6	315	BLOOD CULTURE	L	4840	ORG 2	LCR			7/23/2004
7	1795	URINE CULTURE	L	1796	URN ORG	LCR			7/23/2004
8	1795	URINE CULTURE	L	4705	COLONY COUNT	LCR			7/23/2004
9	1795	URINE CULTURE	L	1798	URN ORG 2	LCR			7/23/2004
10	1795	URINE CULTURE	L	4706	COLONY COUNT 2	LCR			7/23/2004
11	1795	URINE CULTURE	L	1800	URN ORG 3	LCR			7/23/2004
12	1795	URINE CULTURE	L	4707	COLONY COUNT 3	LCR			7/23/2004
13	1795	URINE CULTURE	L	1802	URN ORG 4	LCR			7/23/2004
14	1795	URINE CULTURE	L	4708	COLONY COUNT 4	LCR			7/23/2004
15	1795	URINE CULTURE	L	1795	URINE CULTURE	LCR			7/23/2004
16	4039	R-URN ALBUMIN/CREAT	L	4018	ALBUMIN:R-URN	L	mcg/mL		9/23/2004
17	4039	R-URN ALBUMIN/CREAT	L	7982	CREAT:R-URN	L	mg/dL		9/23/2004
18	4039	R-URN ALBUMIN/CREAT	L	7989	R-URN ALB/CR RATIO	L	mcg/mg Cr		9/23/2004
19	52	DIFFERENTIAL	L	19167	NEUTROPHILS	L	%		12/5/2004
20	52	DIFFERENTIAL	L	55	LYMPHS	L	%		12/5/2004
21	52	DIFFERENTIAL	L	56	MONO	L	%		12/5/2004
22	52	DIFFERENTIAL	L	57	EOS	L	%		12/5/2004
23	52	DIFFERENTIAL	L	1180	PLT EST	L			12/5/2004
24	52	DIFFERENTIAL	L	53	BANDS	L	%		12/5/2004
25	52	DIFFERENTIAL	L	1179	NUC RBC	L	#/100 WBC		12/5/2004
26	52	DIFFERENTIAL	L	1396	MICROS	L			12/5/2004
27	52	DIFFERENTIAL	L	1397	MACROS	L			12/5/2004
28	52	DIFFERENTIAL	L	1073	SCHISTO	L			12/5/2004
29	52	DIFFERENTIAL	L	58	BASO	L	%		12/5/2004
30	52	DIFFERENTIAL	L	1064	HYPOCHRO	L			12/5/2004
31	52	DIFFERENTIAL	L	1066	TARGETS	L			12/6/2004
32	52	DIFFERENTIAL	L	1072	SPHERO	L			12/6/2004
33	52	DIFFERENTIAL	L	51	METAS	L			12/6/2004

Export whole set

Truncated Text Print Preview

Export Terms Dialog



Select Term Set

Check Fields you wish to export

Delimiter

Write File

Exit

LOINC Parts

Parts, Panels, and Proposing New Terms

LOINC Part Search

Works just like the term search

Handy for looking at descriptions

Parts Search

Map Local Terms - DJV-20110521

File Tools HIPAA Lab Auto Mapper View Help

Search Mapping View All Working Set Terms Hierarchy & Search Limits Part Search

campylobacter

Part Search

Reference Information Only



Row	Score	Part	Type	Name	DisplayName	Abbreviation
1	22.8435	LP97602-4	COMPONENT	Campylobacter jejuni+Campylobacter coli Ag	Campylobacter jejuni+Campylobacter coli Ag	
2	22.8435	LP97606-5	COMPONENT	Campylobacter jejuni+Campylobacter coli	Campylobacter jejuni+Campylobacter coli	C jejuni+C coli
3	19.7830	LP16647-7	COMPONENT	Campylobacter sp	Campylobacter sp	Campylobacter
4	16.1528	LP17109-7	COMPONENT	Campylobacter coli	Campylobacter coli	C coli
5	16.1528	LP17110-5	COMPONENT	Campylobacter jejuni	Campylobacter jejuni	C jejuni
6	16.1528	LP17111-3	COMPONENT	Campylobacter lari	Campylobacter lari	C lari
7	16.1528	LP19880-1	COMPONENT	Campylobacter fetus	Campylobacter fetus	C fetus
8	16.1528	LP19881-9	COMPONENT	Campylobacter fetus subspecies venerealis	Campylobacter fetus ss venerealis	C fetus Vener
9	16.1528	LP37478-2	COMPONENT	Campylobacter coli rRNA	Campylobacter coli rRNA	
10	16.1528	LP37479-0	COMPONENT	Campylobacter fetus Ab	Campylobacter fetus Ab	
11	16.1528	LP37480-8	COMPONENT	Campylobacter fetus Ag	Campylobacter fetus Ag	
12	16.1528	LP37481-6	COMPONENT	Campylobacter fetus subspecies venerealis Ab	Campylobacter fetus ss venerealis Ab	
13	16.1528	LP37482-4	COMPONENT	Campylobacter fetus subspecies venerealis Ab.IgA	Campylobacter fetus ss venerealis IgA	
14	16.1528	LP37483-2	COMPONENT	Campylobacter jejuni Ab	Campylobacter jejuni Ab	
15	16.1528	LP37484-0	COMPONENT	Campylobacter jejuni Ab.IgG	Campylobacter jejuni IgG	
16	16.1528	LP37485-7	COMPONENT	Campylobacter jejuni Ab.IgM	Campylobacter jejuni IgM	
17	16.1528	LP37486-5	COMPONENT	Campylobacter jejuni rRNA	Campylobacter jejuni rRNA	
18	16.1528	LP37487-3	COMPONENT	Campylobacter lari rRNA	Campylobacter lari rRNA	
19	16.1528	LP37488-1	COMPONENT	Campylobacter sp Ab	Campylobacter sp Ab	
20	16.1528	LP37489-9	COMPONENT	Campylobacter sp Ab.IgA	Campylobacter sp IgA	
21	16.1528	LP37490-7	COMPONENT	Campylobacter sp Ab.IgG	Campylobacter sp IgG	
22	16.1528	LP37491-5	COMPONENT	Campylobacter sp identified	Campylobacter sp identified	
23	16.1528	LP37492-3	COMPONENT	Campylobacter sp rRNA	Campylobacter sp rRNA	
24	16.1528	LP64709-6	COMPONENT	Campylobacter sp DNA	Campylobacter sp DNA	
25	16.1528	LP102580-0	COMPONENT	Campylobacter jejuni DNA	Campylobacter jejuni DNA	
26	11.4217	LP16707-9	COMPONENT	Helicobacter pylori	Helicobacter pylori	H pylori
27	11.4217	LP99310-2	FRAGMENTS FOR...	Campylobacter		

Part Search (27 results on 'campylobacter'); 0.03s

Parts Search

Map Local Terms - DJV-20110521

File Tools HIPAA Lab Auto Mapper View Help

Search Mapping View All Working Set Terms Hierarchy & Search Limits Part Search

campylobacter Reference Information Only 

Row	Score	Part	Type	Name	DisplayName	Abbreviation
1	19.6151	LP16647-7	COMPONENT	Campylobacter sp	Campylobacter sp	Campylob
2	16.1765	LP17109-7	COMPONENT	Campylobacter coli	Campylobacter coli	C coli
3	16.1765	LP17110-5	COMPONENT	Campylobacter jejuni	Campylobacter jejuni	C jejuni
4	16.1765	LP17111-3	COMPONENT	Campylobacter lari	Campylobacter lari	C lari
5	16.1765	LP19880-1	COMPONENT	Campylobacter fetus	Campylobacter fetus	C fetus
6	11.6954	LP16707-9	COMPONENT	Helicobacter pylori	Helicobacter pylori	H pylori

only parts that have descriptions, references, etc

Part Search (6 results on '(campylobacter) description:true'): 0.02s

Details Screen: LOINC Part

Details for Part record # LP19666-4

LP19666-4 BRCA1 gene

DESCRIPTION

Source: NCBI Entrez Gene

Description: The BRCA1 gene encodes a nuclear phosphoprotein that plays a role in maintaining genomic stability and acts as a tumor suppressor. The encoded protein combines with other tumor suppressors, DNA damage sensors, and signal transducers to form a large multi-subunit protein complex known as BASC for BRCA1-associated genome surveillance complex. This gene product associates with RNA polymerase II, and through the C-terminal domain, also interacts with histone deacetylase complex. This protein thus plays a role in transcription, DNA repair of double-stranded breaks, and recombination. Mutations in this gene are responsible for approximately 40% of inherited breast cancers and more than 80% of inherited breast and ovarian cancers. Alternative splicing plays a role in modulating the subcellular localization and physiological function of this gene. Many alternatively spliced transcript variants have been described for this gene but only some have had their full-length natures identified.

URL: [BRCA1 gene](#)

BASIC PROPERTIES

Part Type: COMPONENT

WEB CONTENT

Source: Online Mendelian Inheritance in Man®

Copyright: OMIM® and Online Mendelian Inheritance in Man® are registered trademarks of the Johns Hopkins University.

URL: [Link to OMIM](#)

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Simple Display

Text Size - Medium

Separated pages

Previous

LP19666-4

New

Print

Close

Type Ctrl-F to search the text of the details.

LP19666-4

1 of 1



LOINC Collections

Panels, forms, surveys, and other patient assessments

Panels, Forms, and Surveys

Wanted to make it easy to find
Special features for browsing

Panels, Forms and Survey Review

The screenshot displays the RELMA software interface. The title bar reads 'RELMA'. The menu bar includes 'File', 'Tools', 'HIPAA', 'Intelligent Mapper', and 'Help'. The 'File' menu is open, showing options such as 'Search LOINC Database', 'Map local terms to LOINC', 'Select Local Term File to Process...', 'View/Add/Edit Local Terms...', 'Report Local Terms and Their LOINC Mappings...', 'Export Local Terms and Their LOINC Mappings to Delimited File...', 'View Local Term File Summary', 'Review Panels, Forms & Surveys...', 'Propose a new LOINC...', 'Review and Submit Proposed LOINCs...', 'Set User Preferences...', 'Set Preferred Language...', and 'Exit'. A blue callout box points to the 'Review Panels, Forms & Surveys...' menu item, with the text 'Review Panels, Forms and Surveys'. Another blue callout box points to the 'Review Panels, Forms & Surveys...' menu item, with the text 'Review Panels, Forms and Surveys'. The main window area is titled 'Mapping Assistant' and contains five red buttons: 'View HIPAA Attachment', 'Panels, Forms, & Surveys', 'Import Local Terms', and 'Export Local Terms'. At the bottom of the window, there are two buttons: 'User Preferences' and 'Exit Program'. The footer contains the text 'Copyright © 1995-2010 Regenstrief Institute. All rights reserved.', 'LOINC Workshop OBR', 'Welcome to RELMA, NIH/casejt', and 'Version 5.0'.

RELMA

File Tools HIPAA Intelligent Mapper Help

Search LOINC Database
Map local terms to LOINC
Select Local Term File to Process...
View/Add/Edit Local Terms...
Report Local Terms and Their LOINC Mappings...
Export Local Terms and Their LOINC Mappings to Delimited File...
View Local Term File Summary
Review Panels, Forms & Surveys...
Propose a new LOINC...
Review and Submit Proposed LOINCs...
Set User Preferences...
Set Preferred Language...
Exit

Review Panels, Forms and Surveys

Review Panels, Forms and Surveys

Mapping Assistant

View HIPAA Attachment
Panels, Forms, & Surveys
Import Local Terms
Export Local Terms

User Preferences Exit Program

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LOINC Workshop OBR Welcome to RELMA, NIH/casejt Version 5.0

Specific Things for U.S. Context

Government Forms Lab Panels Clinical Panels Other Survey Instruments HIPAA, Attach. HEDIS

To review the content of a specific panel, DOUBLE CLICK on the panel name

Row	Panel Name	LOINC
1	Continuity Assessment Record and Evaluation (CARE) panels	
2	... CARE Tool - Acute care	52743-2
3	... CARE Tool - PAC Admission	52744-0
4	... CARE Tool - PAC Discharge	52745-7
5	... CARE Tool - Interim	52746-5
6	... CARE Tool - Expired	52747-3
7	... CARE Tool - Home Health Admission	52748-1
8	Minimum Data Set (MDS) for Nursing Home Resident Assessment and Care Screening Panels	
9	... MDS basic assessment tracking form - version 2.0	45963-6
10	... MDS background information at admission form - version 2.0	45969-3
11	... MDS full assessment form - version 2.0	45981-8
12	... Minimum Data Set (MDS) supplemental items section - version 2.0	46076-6
13	... MDS quarterly assessment form - version 2.0	46102-0
14	... MDS quarterly assessment form - version 2.0 - optional version for RUG-III	46103-8
15	... MDS quarterly assessment form - version 2.0 - optional version for RUG-III 1997 update	46104-6
16	... Minimum Data Set - version 3.0	54580-6
17	Outcome and Assessment Information Set (OASIS) set	
18	... Outcome and assessment information set (OASIS) form - version B1	46462-8
19	... Outcome and assessment information set (OASIS) form - version C	57039-0
20	... Outcome and assessment information set (OASIS) form - version C - Start of care	57190-1
21	... Outcome and assessment information set (OASIS) form - version C - Resumption of Care	57191-9
22	... Outcome and assessment information set (OASIS) form - version C - Follow-Up	57192-7
23	... Outcome and assessment information set (OASIS) form - version C - Transfer to facility	57193-5
24	... Outcome and assessment information set (OASIS) form - version C - Discharge from agency	57194-3
25	Residual Functional Capacity Assessment (RFC) Set	
26	... Mental residual functional capacity (RFC) assessment form	46611-0
27	... Residual physical functional capacity (RFC) assessment form RFC	46637-5

Wrapped Text Expand Expand Branch Collapse Collapse Branch Print Preview

Find panels with these LOINCs Close

Laboratory Panels

Windows application window titled "Panels, Forms & Surveys".

Navigation tabs: Government Forms, Lab Panels, Clinical Panels, Other Survey Instruments, HIPAA Attach, HEDIS.

Instruction: To review the content of a specific panel, DOUBLE CLICK on the panel name

Row	Panel Name	LOINC
1	Antibiotic Susceptibility Panels	
18	Allergy Panels	
66	Blood Bank Panels	
70	Cellmarker Panels	
85	Challenge Bank Panels	
101	Chemistry Panels	
102	... 17-Ketosteroids & 17-Ketogenic steroids panel in 24 hour Urine	43135-3
103	... 2-Hydroxyestrone & 16-Alpha hydroxyestrone panel in Serum or Plasma	49828-7
104	... 3-Hydroxy fatty acid panel in Serum or Plasma	48760-3
105	... 5-Hydroxyindoleacetate panel in 24 hour Urine	44907-4
106	... Acylcarnitine newborn screen panel	58092-8
107	... Acylcarnitine panel [Moles/volume] in Serum or Plasma	43433-2
108	... Acylglycines panel in Urine	50334-2
109	... Adulterants panel in Urine	58715-4
110	... Aldosterone & Renin panel in Serum or Plasma	55151-5
111	... Alkaline phosphatase isoenz panel in Serum or Plasma	24332-9
112	... Alpha-1-Fetoprotein panel in Serum or Plasma	48802-3
113	... Alpha-1-Fetoprotein panel in Amniotic fluid	58735-2
114	... Amino acid newborn screen panel	53261-4
115	... Amino acids panel [Moles/volume] in Serum or Plasma	35083-5
116	... Amino acids panel in Urine	35087-6
117	... Amino acids panel [Moles/volume] in Cerebrospinal fluid	35507-3
118	... Amino acids panel [Moles/volume] in Amniotic fluid	35508-1
119	... Amino acids panel [Moles/time] in 24 hour Urine	35509-9
120	... Amylase & Creatinine clearance panel in Urine & Serum or Plasma	44789-6
121	... Amylase isoenzyme 3 panel in Serum or Plasma	24333-7
122	... Amylase isoenzyme 7 panel in Serum or Plasma	24334-5
123	... Apolipoprotein A-I & A-II & B & C panel [Mass/volume] in Serum or Plasma	55724-9

Buttons: Wrapped Text, Expand, Expand Branch, Collapse, Collapse Branch, Print Preview

Find panels with these LOINCs

Close

Double-click panel name to see components

Expanded Panel Detail

Details for LOINC record # 35087-6

35087-6 Amino acids panel in Urine

PANEL HIERARCHY

LOINC#	LOINC Name	R/O/C	Cardinality	Data Type	Ex. UCUM Units
35087-6	Amino acids panel in Urine				
28588-2	Beta alanine Creatinine [Ratio] in Urine	R			meq/g{creat}
30068-1	Alanine/Creatinine [Ratio] in Urine	R			umol/g{creat}
28598-1	Alpha aminoacidipate/Creatinine [Ratio] in Urine	R			umol/g
28591-6	Amino beta guanidinopropionate/Creatinine [Ratio] in Urine	R			umol/g
28593-2	Gamma aminobutyrate/Creatinine [Ratio] in Urine	R			umol/g
28602-1	Beta aminoisobutyrate/Creatinine [Ratio] in Urine	R			umol/g
28590-8	Alpha aminobutyrate/Creatinine [Ratio] in Urine	R			umol/g
28596-5	Anserine/Creatinine [Ratio] in Urine	R			umol/g
30062-4	Arginine/Creatinine [Ratio] in Urine	R			umol/g{creat}
28603-9	Asparagine/Creatinine [Ratio] in Urine	R			umol/g{creat}
30061-6	Aspartate/Creatinine [Ratio] in Urine	R			umol/g{creat}
28597-3	Carnosine/Creatinine [Ratio] in Urine	R			umol/g{creat}
54092-2	Citrulline/Arginine [Molar ratio] in Dried blood spot	R		NM/ST	{Ratio}
30161-4	Citrulline/Creatinine [Ratio] in Urine	R			umol/g{creat}
28599-9	Cystathionine/Creatinine [Ratio] in Urine	R			umol/g
30065-7	Cystine/Creatinine [Ratio] in Urine	R			umol/g{creat}
30059-0	Glutamate/Creatinine [Ratio] in Urine	R			umol/g{creat}
30056-6	Glutamine/Creatinine [Ratio] in Urine	R			umol/g{creat}
30066-5	Glycine/Creatinine [Ratio] in Urine	R			umol/g{creat}
30047-5	Histidine/Creatinine [Ratio] in Urine	R			umol/g{creat}
30051-7	Homocystine/Creatinine [Ratio] in Urine	R			umol/g{creat}
30050-9	Hydroxylysine/Creatinine [Ratio] in Urine	R			umol/g{creat}
28601-3	Hydroxyproline/Creatinine [Ratio] in Urine	R			umol/g{creat}
30052-5	Isoleucine/Creatinine [Ratio] in Urine	R			umol/g{creat}
30053-3	Leucine/Creatinine [Ratio] in Urine	R			umol/g{creat}
30048-3	Lysine/Creatinine [Ratio] in Urine	R			umol/g{creat}
30063-2	Methionine/Creatinine [Ratio] in Urine	R			umol/g{creat}
28606-2	1-Methylhistidine/Creatinine [Ratio] in Urine	R			umol/g
28594-0	3-Methylhistidine/Creatinine [Ratio] in Urine	R			umol/g
30049-1	Ornithine/Creatinine [Ratio] in Urine	R			umol/g{creat}

Simple Display

Text Size - Smaller

Separated pages

Previous

35087-6

Next

Print

Close

Another Example

Details for LOINC record # 24321-2

24321-2 Basic metabolic 2000 panel in Serum or Plasma

PANEL HIERARCHY

LOINC#	LOINC Name	R/O/C	Cardinality	Data Type	Ex. UCUM Units
24321-2	Basic metabolic 2000 panel in Serum or Plasma				
2345-7	Glucose [Mass/volume] in Serum or Plasma	R		NM/ST	mg/dL
3094-0	Urea nitrogen [Mass/volume] in Serum or Plasma	R		NM/ST	mg/dL
2160-0	Creatinine [Mass/volume] in Serum or Plasma	R		NM/ST	mg/dL
3097-3	Urea nitrogen/Creatinine [Mass ratio] in Serum or Plasma	O			
33914-3	Glomerular filtration rate/1.73 sq M predicted by Creatinine-based formula (MDRD)	O			mL/min/(1.73m2)
50044-7	Glomerular filtration rate/1.73 sq M predicted among females by Creatinine-based formula (MDRD)	O			mL/min/(1.73m2)
48642-3	Glomerular filtration rate/1.73 sq M predicted among non-blacks by Creatinine-based formula (MDRD)	O			mL/min/(1.73m2)
48643-1	Glomerular filtration rate/1.73 sq M predicted among blacks by Creatinine-based formula (MDRD)	O			mL/min/(1.73m2)
17861-6	Calcium [Mass/volume] in Serum or Plasma	R		NM/ST	mg/dL
24326-1	Electrolytes 1998 panel in Serum or Plasma				
2951-2	Sodium [Moles/volume] in Serum or Plasma	R		NM/ST	mmol/L
2823-3	Potassium [Moles/volume] in Serum or Plasma	R		NM/ST	mmol/L
2075-0	Chloride [Moles/volume] in Serum or Plasma	R		NM/ST	mmol/L
2028-9	Carbon dioxide, total [Moles/volume] in Serum or Plasma	R		NM/ST	mmol/L
33037-3	Anion gap in Serum or Plasma	O		NM/ST	mmol/L

NAME

Fully-Specified Name:	Component	Property	Time Aspect	System	Scale	Method
	Basic metabolic 2000 panel	-	Pt	Ser/Plas	Qn	

DEFINITION/DESCRIPTION

The components of this panel were defined by HCFA (now CMS)

STATUS

Active
Last updated 2009/02/19

BASIC ATTRIBUTES

Class/Type: PANEL.CHEM/Lab
Order vs. Obs.: Order

MEMBER OF THESE PANELS

54037-7	HEDIS 2009 panel
54050-0	HEDIS 2009 Codes to identify physiologic monitoring tests (MPM-A)
54051-8	HEDIS 2009 Codes to identify physiologic monitoring tests - Blood urea nitrogen (BUN) (MPM-A)
54052-6	HEDIS 2009 Codes to identify physiologic monitoring tests - Serum creatinine (SCr) (MPM-A)
54053-4	HEDIS 2009 Codes to identify physiologic monitoring tests - Serum electrolytes (SE) (MPM-A)

Comprehensive Display Text Size: Smaller Separated pages Previous 24321-2 Next Print Close

Type Ctrl-F to search the text of the details. 24321-2 1 of 1 LOINC HTML: 2.45 sec

Clinical Panels

Panels, Forms & Surveys

Government Forms | Lab Panels | **Clinical Panels** | Other Survey Instruments | HIPAA Attach. | HEDIS

To review the content of a specific panel, DOUBLE CLICK on the panel name

Row	Panel Name	LOINC
1	Antiretroviral therapy Panels	
3	Temperature Panel	
5	Blood pressure Panels	
8	Cardiac Panels	
11	CV Panels	
14	Panel.devices	
27	Document panels	
35	Clinical report panel	
37	Emergency Departm	
48	Ophthalmic panels	
50	Function panel	
52	H&P panels	
65	IO Panels	
68	Neonatal Apgar Panels	
72	Ob Ultrasound Panel	
75	Patient Safety panel	
77	PhenX panels	
148	Patient Health Record Panels	
158	Radiology Panels	

Find Panels With These LOINC(s)

3141-9

Find Panels With:

Any Of These LOINCS All Of These LOINCS

OK

Find where a term has been used

Wrapped | Expand | Expand Branch | Collapse | Collapse Branch | Print Preview

Find panels with these LOINCS | Close

LOINC Term Panel Usage

Panels With Any OF These LOINC: 3141-9

LOINC	Shortname	Component	Property	System	Time	Scale
18682-5		Ambulance claims attachment	Cmplx	^Patient	Enctr	Set
34483-8		Medications report request	Find	^Patient	Pt	Nom
34565-2	Vital Signs, Weight &...	Vital signs, weight & height panel	-	^Patient	Pt	-
39294-4		Children's preventive health services attachment	Cmplx	^Patient	Pt	Set
43143-7	Weighing Device Pnl	Weighing device panel	-	^Patient	Pt	-
45981-8		MDS full assessment form - version 2.0	-	^Patient	Pt	-
46103-8		MDS quarterly assessment form - version 2.0 -...	-	^Patient	Pt	-
46104-6		MDS quarterly assessment form - version 2.0 -...	-	^Patient	Pt	-
52743-2		CARE Tool - Acute Care	-	^Patient	Pt	-
52744-0		CARE Tool - PAC Admission	-	^Patient	Pt	-
52745-7		CARE Tool - PAC Discharge	-	^Patient	Pt	-
52746-5		CARE Tool - Interim	-	^Patient	Pt	-
52748-1		CARE Tool - Home Health Admission	-	^Patient	Pt	-
52811-7		HIPAA attachments	-	^Patient	Pt	-
54580-6		Minimum Data Set - version 3.0	-	^Patient	Pt	-
55168-9	DEEDS 1.1	Data Elements for Emergency Department Systems...	-	^Patient	Pt	-
61130-1	Domain -...	PhenX domain - Anthropometrics	-	^Patient	Pt	-
62263-9	Domain - Nutrition...	PhenX domain - Nutrition and dietary supplements	-	^Patient	Pt	-

Truncated Text

Print Preview

OK

Other Survey Instruments

Panels, Forms & Surveys

Government Forms | Lab Panels | Clinical Panels | **Other Survey Instruments** | HIPAA Attach. | HEDIS

To review the content of a specific panel, DOUBLE CLICK on the panel name

Row	Panel Name	LOINC
21	Laboratory - end stage renal disease form 2728	68996-8
22	Geriatric Depression Scale (GDS) panels	
23	Geriatric depression scale (GDS) panel	48542-5
24	Geriatric depression scale (GDS),short version panel	48543-3
25	HIV-Signs and Symptoms Checklist (SSC) panel	
26	HIV-Signs and Symptoms Checklist (SSC) panel	48549-0
27	Home Health Care Classification (HHCC) panels	
28	Clinical Care Classification (CCC) panel	48546-6
29	howRU panels	
30	howRU	55744-7
31	Living with HIV panels	
32	Living with HIV (LIV-HIV) panel	48548-2
33	Morse Fall Scale (MFS) panels	
34	Morse Fall Scale panel	59453-1
35	OMAHA panels	
36	Omaha System 2005 panel	48547-4
37	PANEL.SURVEY.NMDS	
38	NMDS panel Facility	52826-5
39	Facility unique identifier panel	52827-3
40	NMDS nursing delivery unit or service panel Facility	52834-9
41	Population distribution panel {Type of nursing unit or service}	52838-0
42	Catchment area panel Nursing unit population	52861-2
43	Volume of nursing delivery unit or service panel Nursing unit	57126-5
44	PANEL.SURVEY.OPTIMAL	
45	Outpatient physical therapy improvement in movement assessment log (OPTIMAL) OPTIMAL	69492-7
46	OPTIMAL difficulty - baseline OPTIMAL	69493-5
47	OPTIMAL confidence - baseline OPTIMAL	69494-3
48	OPTIMAL difficulty - follow up OPTIMAL	69495-0
49	OPTIMAL confidence - follow up OPTIMAL	69496-8
50	OPTIMAL change scores - difficulty OPTIMAL	69751-6

Find panels with these LOINCs

View Panel Children

Map Local Terms - LOINC Workshop OBR

File Tools HIPAA Intelligent Mapper View Help

Search Mapping View All Working Set Terms Hierarchy & Search Limits Part Search

Local Term File

Mapped to: 2075-0 Name: Chloride [Moles/volume] in Serum or Plasma Local Term Details

OBR-4 Code: 665670 OBX-3 Code: 755366 Units: mmol/L Sample Values: Limit to Default Specimen:

Extra Search Words: Accept or enter OBR name and/or OBX name

View: All

#: 7 of 473

Search Clear Inputs Clear Most Limits Common tests 99.+ %tile Lookup Term By #

Show Words Propose Term

Export
Configure Export
Sort Grid
Configure Grid
View Details - Simple
View Details - Comprehensive
View Details - Custom
View Panel Children
Truncate Text
Wrap Text
Print
Map
Repeat Mapping
Propose a new LOINC
Propose a LOINC based on selected term
Find Panels with all these LOINC's
Find Panels with any of these LOINC's

View Details
Print Grid
Map
Same
Export
Configure Export
Configure Grid

Row	LOINC #	Component	Property	Time Aspect	System
1	43135-3	17-Ketosteroids & 17-Ketogenic...	-	24H	Urine
2	49828-7	2-Hydroxyestrone & 16-Alpha...	-	Pt	Ser/Plas
3	34552-0	2D echocardiogram panel	-	Pt	^Patient
4	48760-3	3-Hydroxy fatty acid panel	-	Pt	Ser/Plas
5	44907-4	5-Hydroxyindoleacetate panel	-	24H	Urine
6	34530-6	ABO & Rh group panel	-	Pt	Bld
7	34541-3	ACTH stimulation test using IM...	-	Pt	Ser/Plas
8	34542-1	ACTH stimulation test using IV...	-	Pt	Ser/Plas
9	55235-6	Abnormal hemoglobin gene panel	-	Pt	Bld
10	43105-6	Acetaldehyde & Paraldhyde...	MCnc		Ser/Plas
11	53781-1	Acetaminophen & Propoxyphene...			Urine
12	48585-1	Activated protein C resistance		Pt	PPP
13					^Patient
14					Ser

Entry #: 7 of 473 Units Specimen Methodless Common 99% Battery Max Words: 319 records found: 0, 16s

Select View Panel Children from context menu

Panel Children

Children of Panel 43135-3

Row	LOINC #	Component	Property	Time Aspect	System	Scale	Method	Ex....	Ex. Units	%99.+...	Class
1	43135-3	17-Ketosteroids & 17-Ketogenic...	-	24H	Urine	Qn					PANEL
2	27866-3	17-Ketogenic steroids	MCnc	24H	Urine	Qn		mg/L	mg/L		CHEM
3	21038-5	17-Ketosteroids	MCnc	24H	Urine	Qn		ug/mL	mcg/mL		CHEM
4	13362-9	Collection duration	Time	*	Urine	Qn		h	hours;...	0.0186%	SPEC
5	3167-4	Specimen volume	Vol	24H	Urine	Qn		L	Liters;...	0.0219%	SPEC

Close

Parent Panels for a given LOINC

Map Local Terms - CDC-Top110

File Tools HIPAA Lab Auto Mapper View Help

Search Mapping View All Working Set Terms Hierarchy & Search Limits Part Search

hematocrit

Units of Measure: Common Orders Only Common Lab Results Only

Auto Mapper Search: Lab

Ro	Score	LOINC	Component	Property	Timing	System	Scale	Method	ExU...	Ext
1	3/3	20570-8	Hematocrit	VFr	Pt	Bld	Qn		%	%
2	3/4	31100-1	Hematocrit	VFr	Pt	Bld	Qn	Impedance	%	%
3	3/4	4545-0	Hematocrit	VFr	Pt	Bld	Qn	Spun	%	%
4	3/4	48703-3	Hematocrit	VFr	Pt	Bld	Qn	Estimated		
5	3/5	4544-3	Hematocrit	VFr	Pt	Bld	Qn	Automated count	%	L/L
6	3/6	62241-5	Hematocrit	VFr	Pt	Bld^fetus			L/L	L/L
7	3/6	16931-8	Hematocrit/Hemoglobin	Ratio	Pt	Bld				
8	2/3	11151-8	Hematocrit	VFr	Pt	BldCo			%	%
9	2/3	32354-3	Hematocrit	VFr	Pt	BldA			%	%
10	2/3	41654-5	Hematocrit	VFr	Pt	BldV				

Grid Tree

- Export
- Configure Export
- Sort Grid
- Configure Grid
- View Details - Simple
- View Details - Comprehensive
- View Details - Custom
- View Details - Developer
- View Panel Children
- Truncate Text
- Wrap Text
- Print
- Propose a new LOINC
- Propose a LOINC based on selected term
- Find Panels with all these LOINCs
- Find Panels with any of these LOINCs

Units Specimen Methodless Common Labs Battery Max Words:

10 records found; 0.02s

Find panels with all these LOINCs

Parent Panels for a given LOINC

Windows title bar: Panels With All Of These LOINCs: 4544-3

LOINC	Shortname	Component	Property	Timing	System	Scale	Method
57021-8	CBC W Auto Diff Bld	CBC W Auto Differential panel	-	Pt	Bld	Qn	
57022-6	CBC W Reflex Manual...	CBC W Reflex Manual Differential panel	-	Pt	Bld	Qn	
57782-5	CBC W ordered...	CBC W Ordered Manual Differential panel	-	Pt	Bld	Qn	
58410-2	CBC (hemogram) Bld...	Complete blood count (hemogram) panel	-	Pt	Bld	-	Automated count

Buttons at the bottom: Truncated Text, Print Preview, OK

A black and white photograph of three piglets in a wooden pen. The piglets are looking in different directions, with the one on the left looking up and to the left, the middle one looking forward, and the one on the right looking to the right. They are all perched on a wooden rail.

Propose New LOINC Terms

LOINC grows because *you* ask.

Proposing a New Term

Are you sure?

Ask your instrument manufacturer

Give us all you got

RELMA is best

Send them in groups

What We Need

- Local test/observation name
- Local order (panel) name
- Description of the test
- Name of send out lab (*if applicable*)
- Name of healthcare organization that stimulated the request for this term (*if you are submitting on behalf of someone else*)
- Units of measure (for quantitative observations)
- Answer lists (for qualitative observations)
- Sample results, reports (*if applicable*)
- Package inserts, test kit documentation (*if applicable*)
- Vendor, instrument, and/or reagent kit used to perform this test (*if applicable*)
- Description of the project or activity that stimulated the request for this term, or any other documentation you have

Propose new LOINC terms

RELMA

File Tools HIPAA Intelligent Mapper Help

- Search LOINC Database
- Map local terms to LOINC
- Select Local Term File to Process...
- View/Add/Edit Local Terms...
- Report Local Terms and Their LOINC Mappings...
- Export Local Terms and Their LOINC Mappings to Delimited File...
- View Local Term File Summary
- Review Panels, Forms & Surveys...
- Import Local Terms from Delimited File...
- Import Local Terms from HL7 File...
- Propose a new LOINC...**
- Review and Submit Proposed LOINCs...
- Set User Preferences...
- Set Preferred Language...
- Exit

Mapping Assistant

View HIPAA Attachment

Panels, Forms, & Surveys

Import Local Terms

Export Local Terms

User Preferences Exit Program

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LOINC Workshop OBR Welcome to RELMA, NIH/casejt Version 5.0

Test (OBX-3):	Local Code	Local Name	Local Term File:
Battery (OBR-4):			
Reference #:		Similar LOINC:	
Status:		Assigned LOINC:	
Send Out Lab Test Code:		Send Out Lab Name:	
Test Description:			
Units:		Normal Range:	
<input checked="" type="radio"/> Example Answers (Results)	<input type="radio"/> Structured Answer List w/Codes	Comments	
Answers:			
Example Report:			
Reference Info/URL:			
Test Vendor:	Test Kit/Instrument		

Your Info

Create new term, save current term or Exit form

Navigate through proposed terms

Suggested LOINC Name

Proposed LOINC:

Advanced

Analyte:

Property:

Time Aspect:

Specimen:

Scale:

Use Existing Terms as Template

Map Local Terms - LOINC Workshop OBR

File Tools HIPAA Intelligent Mapper View Help

Search Mapping View All Working Set Terms Hierarchy & Search Limits Part Search

Local Term File Mapped to: Name: Local Term Details

Next Previous First Last

OBR-4 Code: 312370 OBR-3 Code: 309651 Limit to Default Specimen:

Extra Search Words: Accept and/or obo name

View: All Search Clear Most Limits By #

#: 1 of 473 Show Words Propose Term

Grid Tree

Row	LOINC #	Component	Property	Time Aspect	System	Scale	Class	Method	Ex.
1	18951-4	Nafcillin	Susc	Pt	Isolate	Qn	ABXBACT		
2	348-3	Nafcillin	Susc	Pt	Isolate	OrdQn	ABXBACT	Agar diffusion	
3	41704-8	Nafcillin	Susc	Pt	Isolate	OrdQn	ABXBACT	Gradient strip	
4	347-5	Nafcillin	Susc	Pt	Isolate	OrdQn	ABXBACT	MIC	
5	346-7	Nafcillin	Susc	Pt	Isolate	Qn	ABXBACT	MLC	
6	349-1	Nafcillin	Titr	Pt	Isolate+Ser	Qn	ABXBACT	SBT	{tit
7	10993-4	Nafcillin	MCnc	Pt	Ser/Plas	Qn	DRUG/TOX		ug/
8	25232-0	Nafcillin	MCnc	Pt	XXX	Qn	DRUG/TOX		ug/

View Details Print Grid Map Same Export Configure Export Configure Grid

Truncated Text Print Preview

Entry #: 1 of 473 Units Specimen Methodclass Common 99% Battery Max Words: 8 records found: 0.03s

Use Existing Terms as Template

Propose a New LOINC Form

Local Code: 312370 Local Name: MIC Local Term File: LOINC Workshop OBR

Battery (OBR-4): 312370 MIC

Test (OBX-3): 309651 Nafcillin

Reference #: Similar LOINC: 347-5 Nafcillin Ist MIC

Status: Assigned LOINC:

Send Out Lab Test Code: Send Out Lab Name:

Test Description:

Units: Normal Range:

Example Answers (Results) Structured Answer List w/ Codes

Answers:

Example Report:

Reference Info/URL:

Proposed LOINC:

LOINC Part	Explain reasoning/details for new part of proposed LOINC (optional)
Analyte: Nafcillin	
Property: Susc	
Time Aspect: Pt	
Specimen: Isolate	
Scale: OrdQn	
Method: MIC	
Comments:	

4 of 4 Submit Request New Save Clone Exit

"Template LOINC"
pre-populates form

Review Proposed Terms

RELMA

File Tools HIPAA Intelligent Mapper Help

- Search LOINC Database
- Map local terms to LOINC
- Select Local Term File to Process...
- View/Add/Edit Local Terms...
- Report Local Terms and Their LOINC Mappings...
- Export Local Terms and Their LOINC Mappings to Delimited File...
- View Local Term File Summary
- Review Panels, Forms & Surveys...
- Import Local Terms from Delimited File...
- Import Local Terms from HL7 File...
- Propose a new LOINC...
- Review and Submit Proposed LOINCs...**
- Set User Preferences...
- Set Preferred Language...
- Exit

Mapping Assistant

View HIPAA Attachment

Review your new terms

Import Local Terms

Export Local Terms

User Preferences Exit Program

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LOINC Workshop OBR Welcome to RELMA, NIH/casejt Version 5.0

Review Proposed Terms

Review Proposed LOINCs

Please review all of the proposed LOINCs you have created for submission to the Regenstrief Institute.

Submitter Name: Dr. Awesome LOINCer
Organization: Data Hogs, Inc
Submitter Email: iloveloinc@gmail.com
Submitter Phone: 123-123-1234
Submitter Fax: 123-123-1233

Row	Se...	Te...	St...	As...	Component	Property	Ti...	System	Sc...	Method	Lo...	Da...	Cr...	Da...
2	<input checked="" type="checkbox"/>	309			Cimes lectularius DNA	ACnc	Pt	Environmental specimens	Ord	Probe.amp.tar	LOI	11/2	NIH\	
3	<input checked="" type="checkbox"/>	309			Parasite identified	Prid	Pt	Environmental specimens	Nom	Inspection	LOI	11/2	NIH\	
1	<input checked="" type="checkbox"/>	REL			Bedbug identified	PRID		Dust and Dander	ORD			11/2	NIH\	

Truncated Text: [] Print Preview: []

View: All Unsent Sent

Count: 3

Select All Unsent
Deselect All

New Edit Delete **Submit** Exit

Choose whether to send or postpone

All proposed terms fully editable

Submitting New Terms

Still need to email us the file

submissions@loinc.org

More Information

<http://loinc.org/submissions>

LOINC Submissions Policy

<http://loinc.org/submissions-policy>

Process for Submitting New Term Requests

[Appendix B of the RELMA Manual](#) has the complete information on how to submit a term request. Here are the highlights.

What Information We Need

First things first. The information you provide about your local test/measurement and how it is used is more important than the proposed LOINC name you come up with. Having complete information on what your local test is makes the review process much smoother and helps us create clear term definitions as well as verifying and enhancing other accessory content, which benefits everyone. The kinds of information we need does vary a bit depending on the type of content (lab, radiology, document titles, survey questionnaires, etc), so not all items are applicable all of the time.

In order for us to process your request, we need:

- Local test/observation name
- Local order (panel) name
- Description of the test (*what it measures, how it is performed, what it is used for, and clinical relevance*)
- Name of send out lab (*if applicable*)
- Name of healthcare organization that stimulated the request for this term (*if you are submitting on behalf of someone else*)
- Units of measure (*for quantitative observations*)
- Answer lists (*for qualitative observations*)
- Sample results, reports (*if applicable*)
- Package inserts, test kit documentation (*if applicable*)
- Vendor, instrument, and/or reagent kit used to perform this test (*if applicable*)
- Description of the project or activity that stimulated the request for this term (*e.g. IHE Antepartum Record Profile, Indiana Network for Patient Care health information exchange project, etc*)
- Implementation guide (*for terms designed for use in the context of a specific messaging implementation guide*), or any other documentation you have

Give us your best shot. With this information at hand, you can suggest a LOINC name (following the naming patterns in the database and described in the [LOINC User's Guide](#)) with the following attributes:

- Component
- Property
- Timing aspect
- System
- Scale
- Method (if submitted)

But, don't be surprised if the name LOINC comes up with differs from the one you proposed. It's our job to look across the whole database and follow existing naming conventions and models.

Format for Requests

We think the easiest way to create most submissions is use the tools in [RELMA](#). Just look for the "Propose Term" button on the mapping screen or from the File menu and you'll be on your way.

Don't Have RELMA? If you don't have or can't install RELMA, the other way to make a submission is to use one of the templates below that are available in a few file types. The templates will help ensure that your submission follows the specified format and contains the information we need.

Current Versions

LOINC 2.38
Released: 2011-12-30

RELMA 5.6
Released: 2012-01-30

[Download Now](#)

Recent Forum Posts

Chemistry | Re: Vitamin D2 & D3, again

Other Training Opportunities | Re: Open Registration: Introduction to LOINC webinar 2/15/20

[More posts...](#)



LOINC RT @jim_daniel: #HIMSS12 #CDC #publichealth Seth Foldy Reportable Condition Mapping Table knowledge base of #LOINC and #SNOMED vocabulary 9 hours ago · reply · retweet · favorite

[Join the conversation](#)



Your turn!

Mapping Practicum
and help with
RELMA

