



International Classification of Diseases (ICD)

and the rest of the family

LOINC Names

Introduction to LOINC Naming Conventions

Anatomy of a LOINC Term

5193-8:Hepatitis B virus surface Ab:ACnc:Pt:Ser:Qn:EIA

5193-8 LOINC Code

Hepatitis B virus surface Ab

ACnc

Pt

Ser

Qn

EIA

Component

Property Measured

Timing

System

Scale

Method

There are six major LOINC axes

NOT part of a LOINC Name

Reason for the test (disease it diagnoses)

Testing instrument

Specific details about the specimen

Priority (e.g. STAT)

Where testing was done

Who did the test

Test interpretation

Anything not part of naming the test

Stuff carried in other parts of HL7 message

Component

The substance or entity that is measured, evaluated, or observed

Sodium
Glucose
Brucella sp. <u>organism</u>
Influenza A Virus <u>antigen</u>
Cytomegalovirus <u>antibody</u>
Lipids.total



5193-8:Hepatitis B virus surface Ab:ACnc:Pt:Ser:Qn:EIA

Component Structure

Analyte Name^Challenge^Adjustments

Formal analyte name

Specify "subanalytes" May have subclasses Calcium Coronavirus Ag Calcium.ionized

Challenge

Two parts separated by "post"

1H post 100 g Glucose PO <time delay>post<challenge type>

Adjustments

Adjusted to pH 7.4

Property

The characteristic or attribute of the analyte that is measured, evaluated, or observed.

Major Categories:

mass substance catalytic activity arbitrary number



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Property

* the most difficult LOINC axis

Fully Named Properties

MCnc mass concentration

SCnc substance concentration

MCnt mass content

CCnc catalytic concentration

Prid presence or identity

Imp impression

Type "kind of"





Property is related to units of measure

Common Property Issues

Fraction versus Ratio

Fraction = Part/Whole

NFr: % Eosinophils / leukocytes

SFr: % HGB which is A2

Ratio = multiple analytes from *same* system

MCrto: BUN/Creatinine in urine

Relative Ratio = measures from *different* system

RelRto: actual to normal control

Timing

The interval of time over which the observation or measurement was made

Pt point in time

12H *12 hour collection*

24H 24 hour collection





Non-Pt timings are often

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round with kate Property

System

The system (context) or specimen type upon which the observation was made.

Ser serum

Ser/Plas serum or plasma

Bld whole blood

Ur *urine*

Flu body fluid

Tiss tissue

XXX specified elsewhere



photo via AlishaV

System Structure

System[^]Super System

Super System

Patient is the default

Used to indicate:

blood product unit, bone marrow donor, fetus

818-5:A Ag:ACnc:Pt:RBC^BPU:Ord:

11670-7:Blood flow.mean:Vel:Pt:Aortic arch^fetus:Qn:US.doppler

Scale

Qn Quantitative

continuous numeric can have operators

Ord Ordinal

Ranked set (1+, 2+, 3+)

Nom Nominal

unranked collection

Taxonomy (e.g. bacteria)

Nar Narrative



photo via puuikibeach

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Method

Only needed if interpretation affected

Different normal ranges Test sensitivity

Listed at the generic level

Agglutination

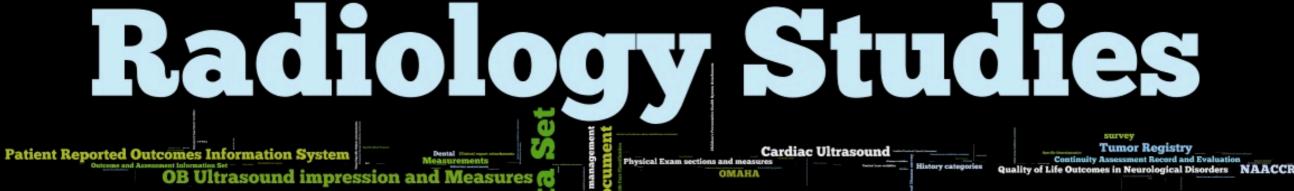
Enzyme Immunoassay

Probe with target amplification

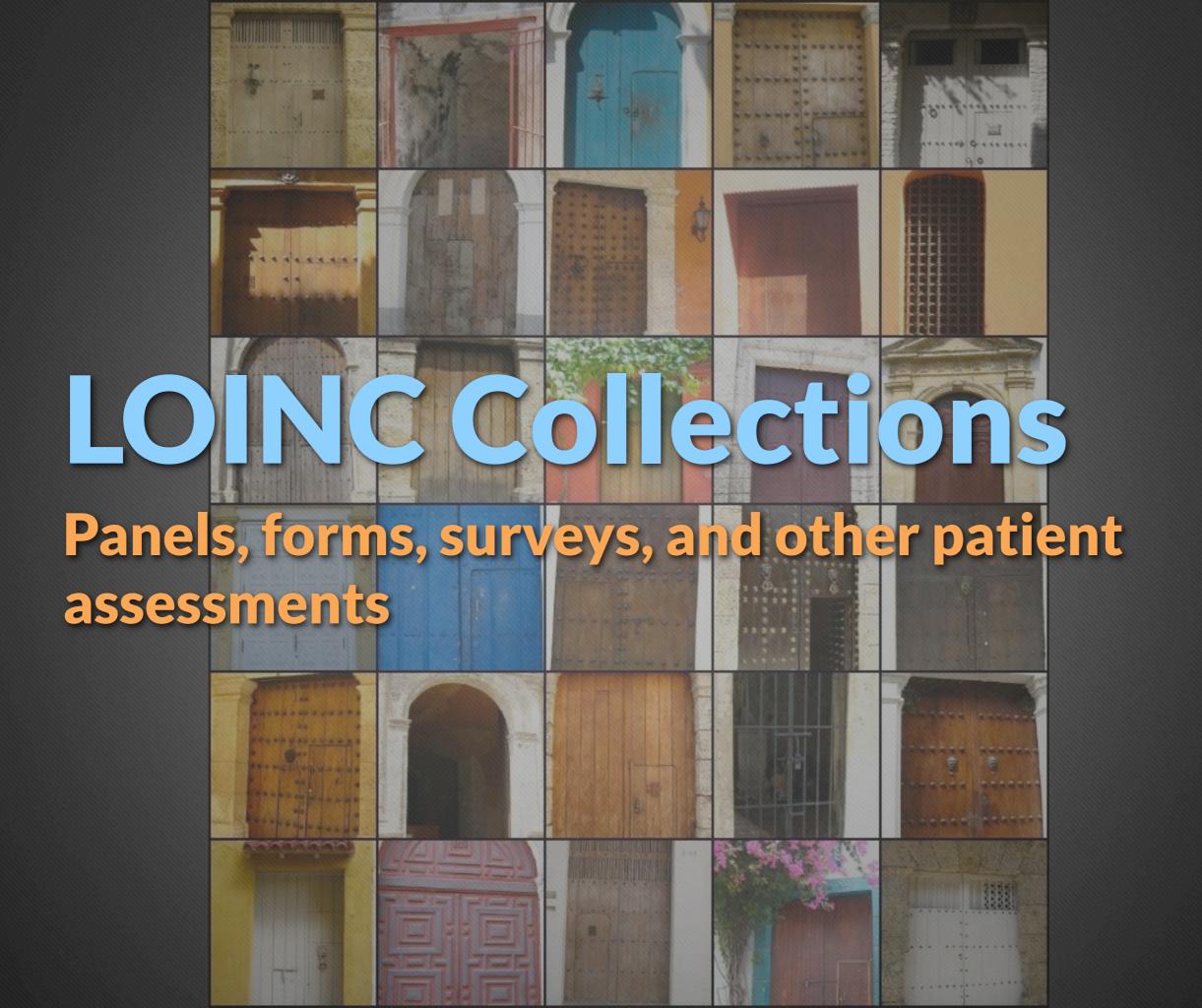


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Clinical LOINC



PhenX



The LOINC Community

Open. Nimble. Pragmatic.

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Worldwide distribution at no cost

New terms from end-users

Welcome all comers

Committees are volunteers



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Regenstrief Institute

Steward

Developer of content

Developer of tools

Developer of community

Distributor

Voice



Funding Support

Main current sources are:

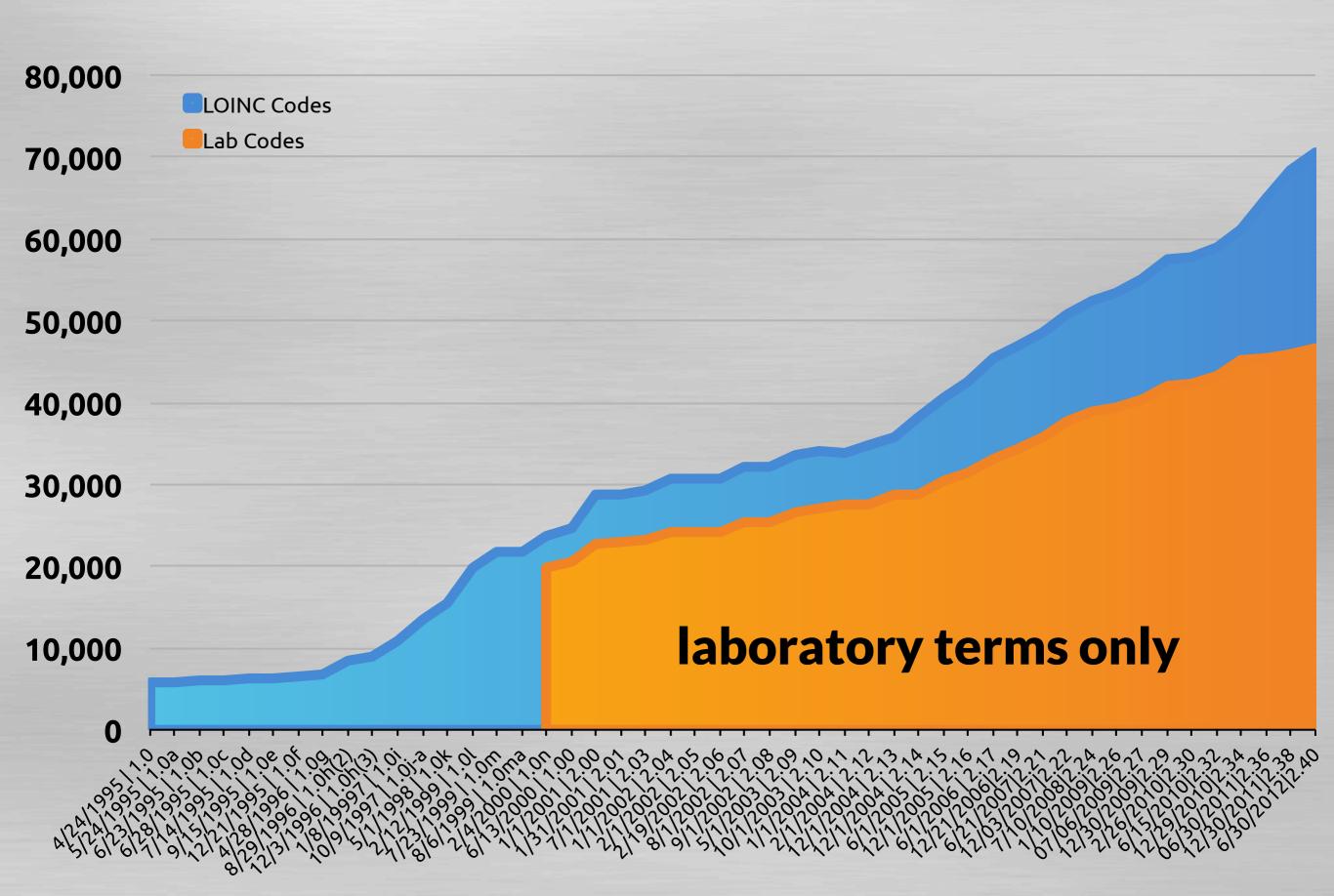
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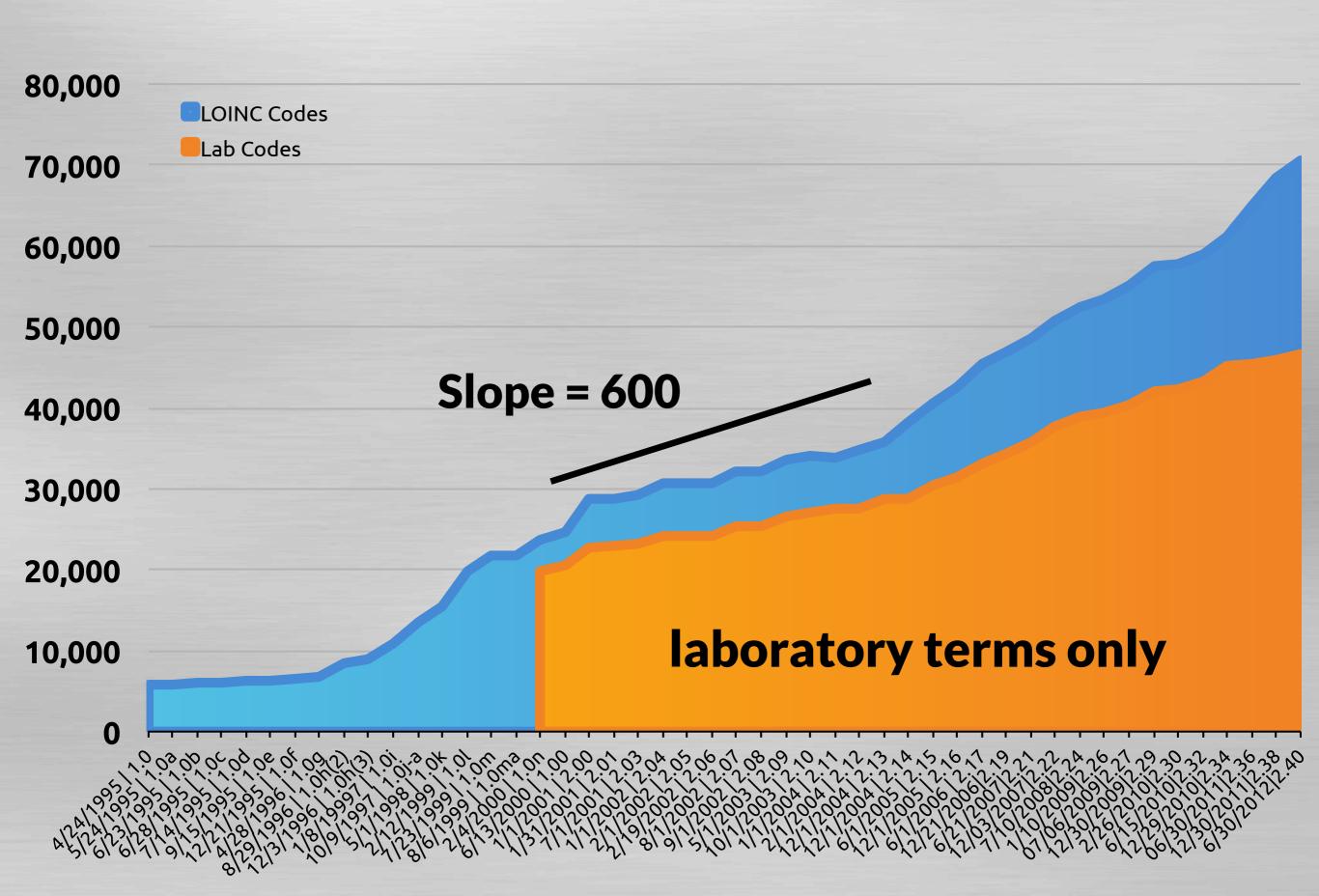
Several other U.S. federal agencies,

John A. Hartford Foundation

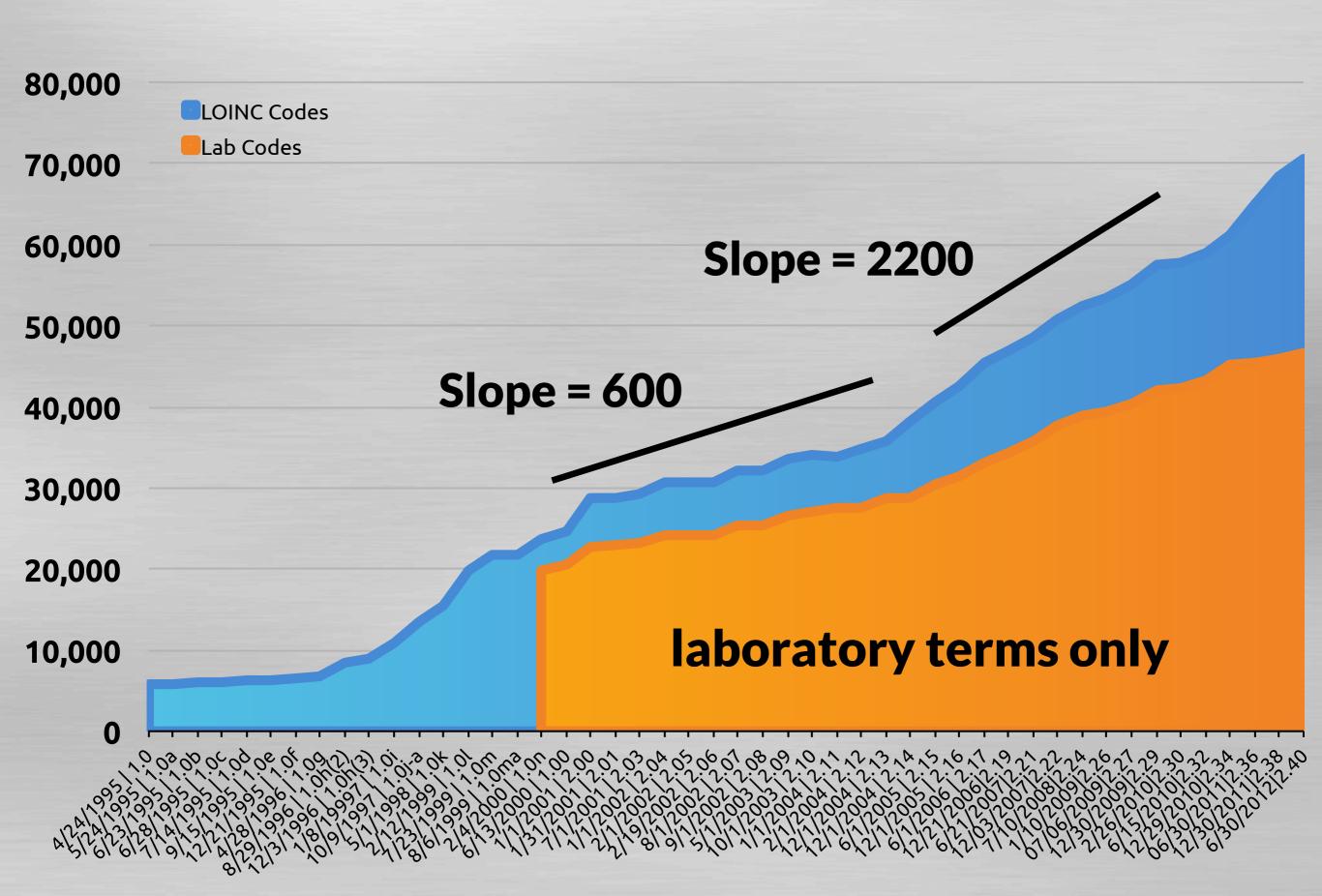
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A universal code system for identifying laboratory and clinical observations.

From serum levels of hepatitis B surface antigen to diastolic blood pressure, LOINC has standardized terms for all kinds of observations and measurements that enable exchange and aggregation of electronic health data from many independent systems.

More than 18,000 people in 148 countries use LOINC to help make bridges across their islands of health data.

It's free, but invaluable. Both LOINC and the RELMA mapping program that helps link your local codes to LOINC terms are distributed at no cost by the Regenstrief Institute. LOINC is your key to interoperable data exchange.

Ready to get started?



Common LOINCs

Get started with the most frequently used LOINC result codes.

Top 2000 Results plus Mapper's Guide



You might also like: Top 300 Orders | Common UCUM units

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Search the latest version of LOINC right from your browser.

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Share your Mappings

How do you say glucose?

We're building tools to help tap the "wisdom of the crowd".



Add Your Mappings to a Shared Repository





We're hiring! Regenstrief Job Opening - LOINC Content Developer



Public Laboratory LOINC Workshop & Committee Meeting 12/06/12-12/07/12

New to LOINC? Watch the LOINC Introduction Webinar

LOINC: An Introduction to the Universal Catalog of Laboratory and Clinical Observations

Daniel J. Vreeman, PT, DPT, MSc Runtime: 58 mins

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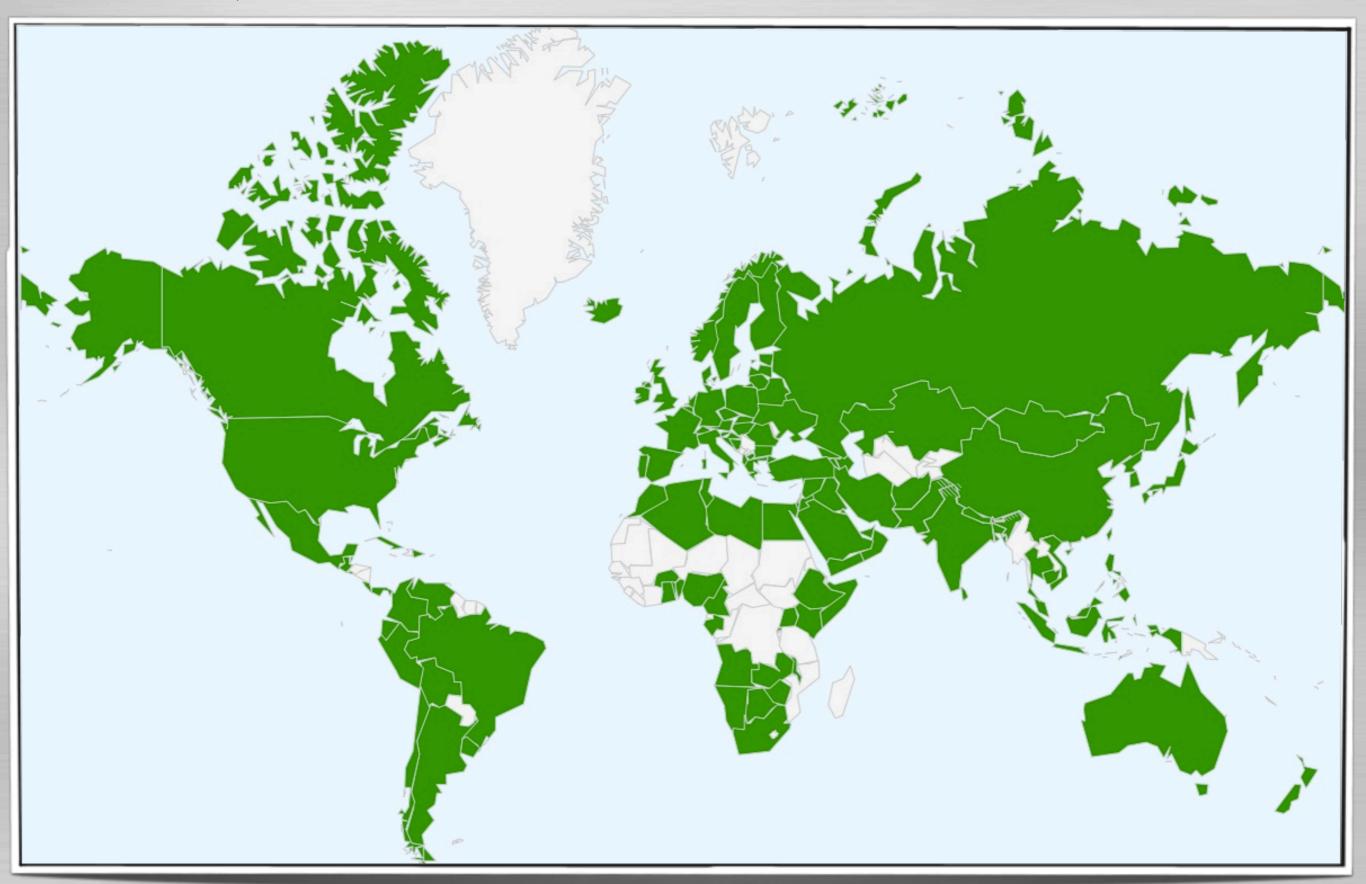


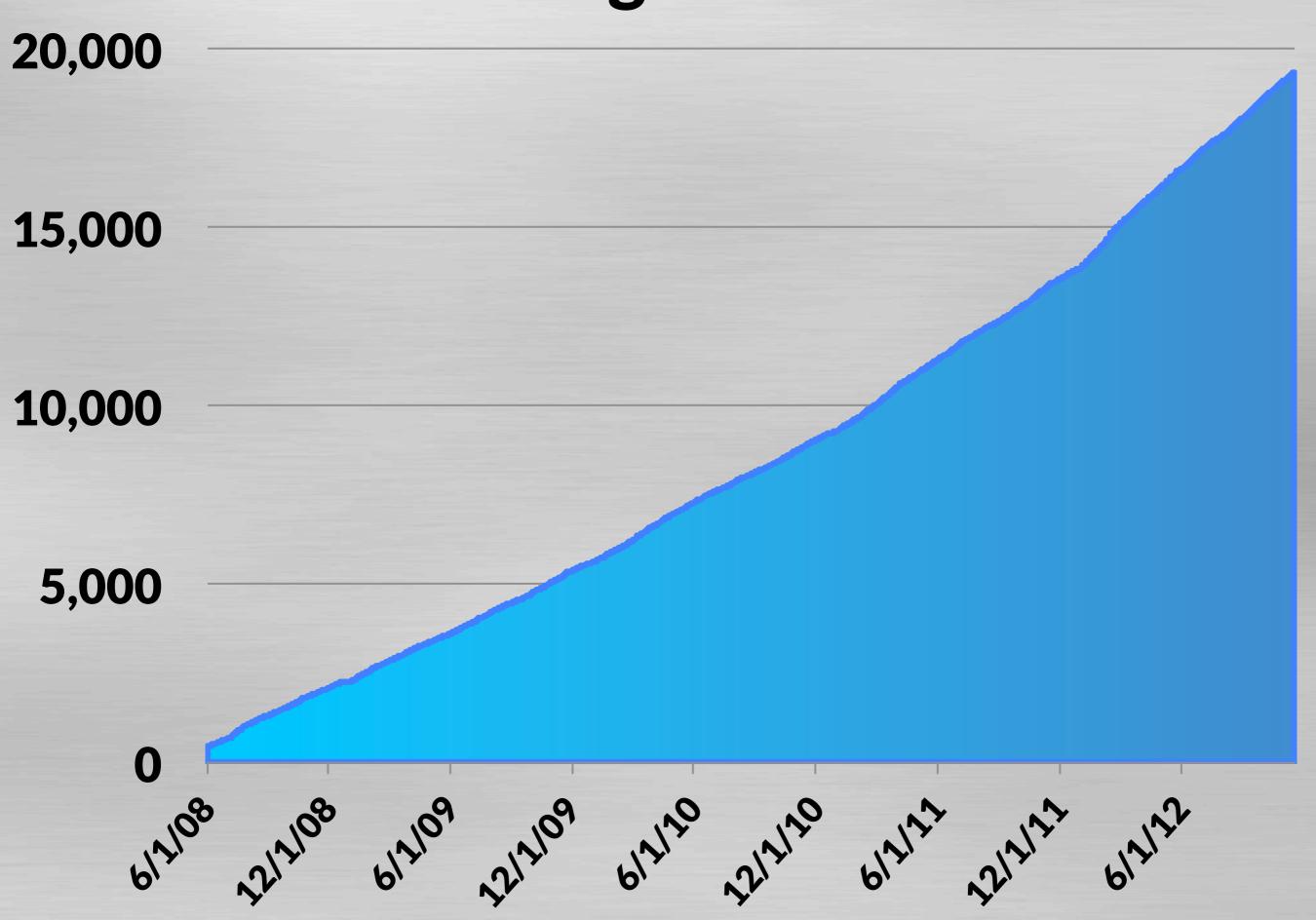
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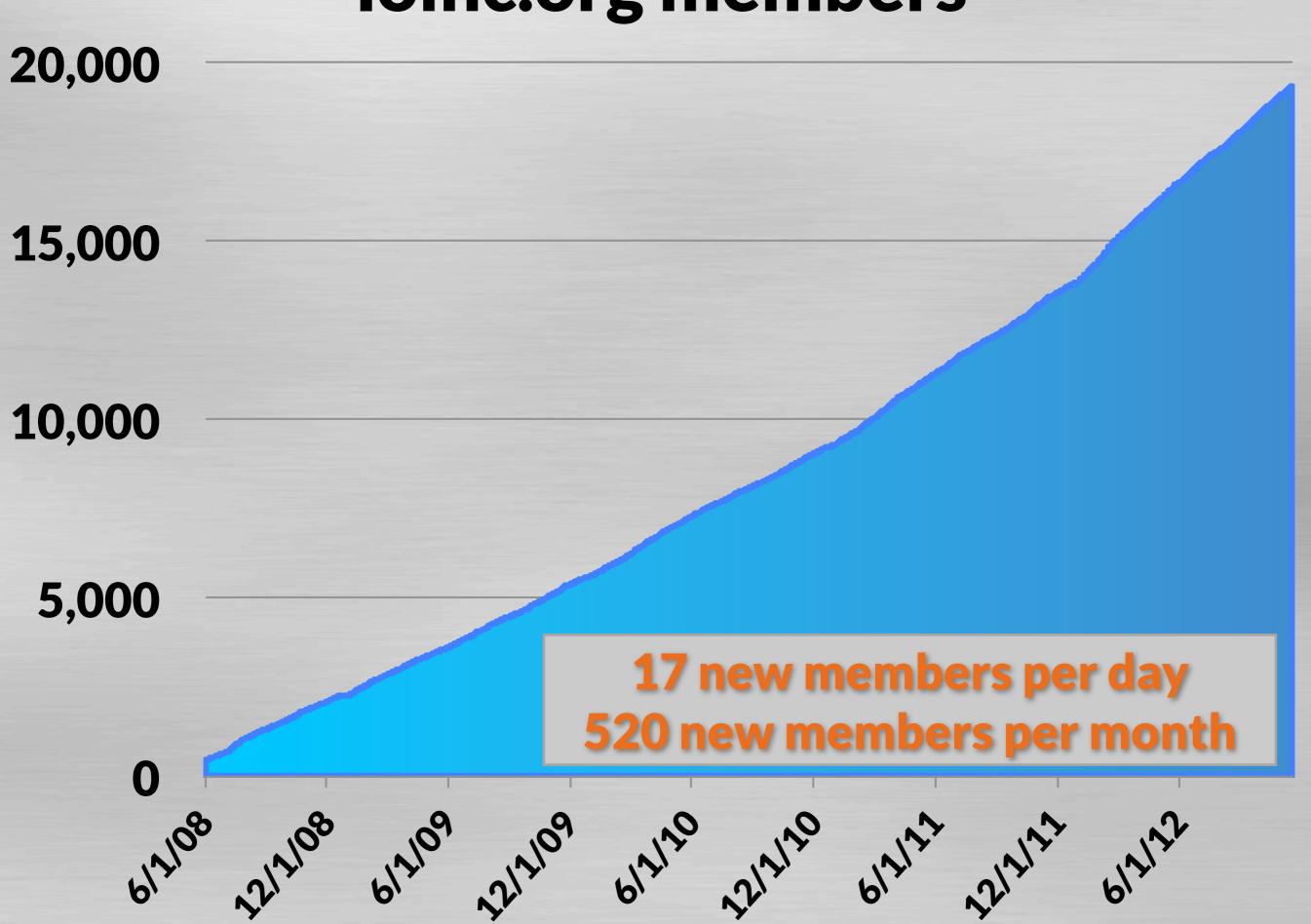


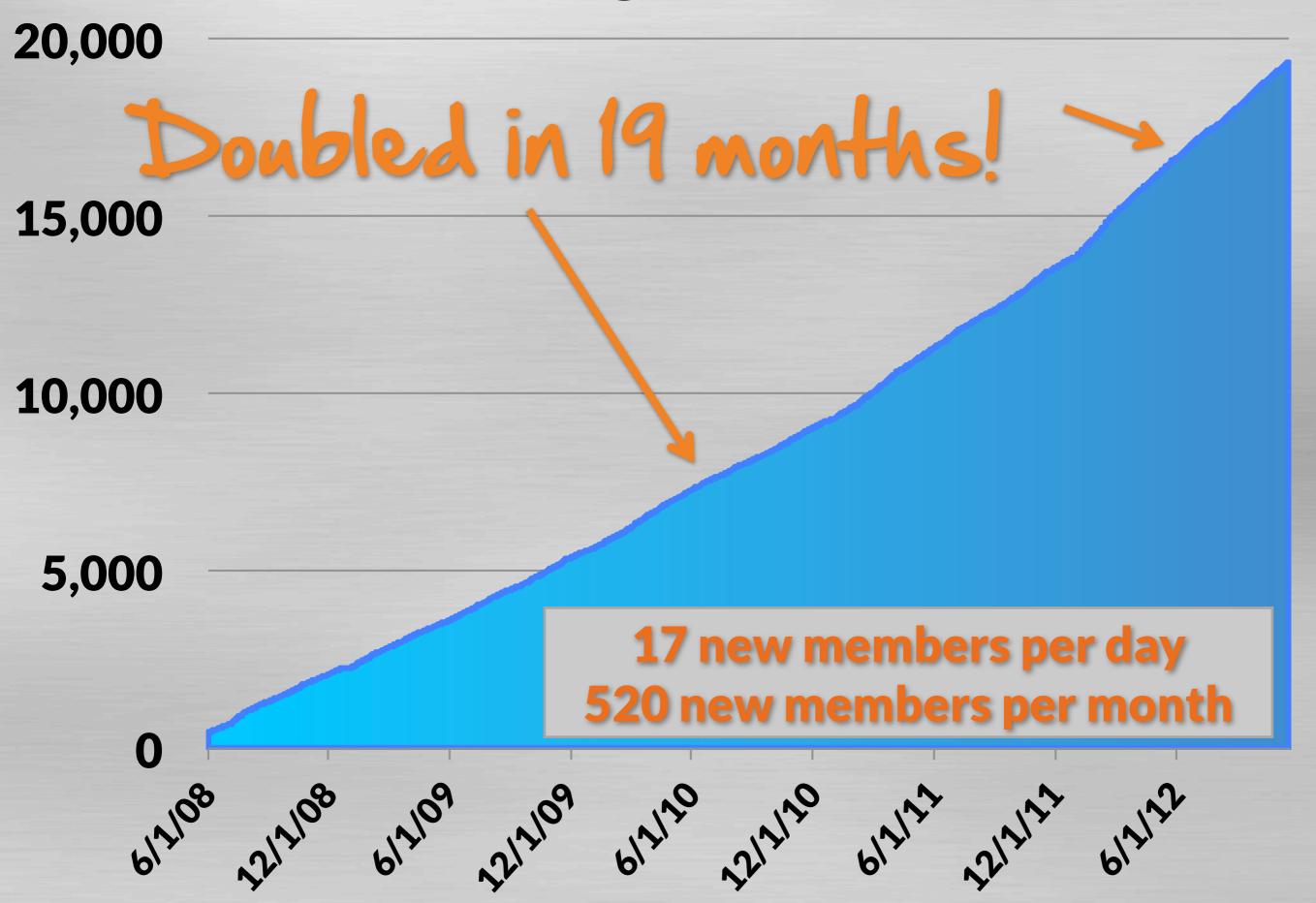
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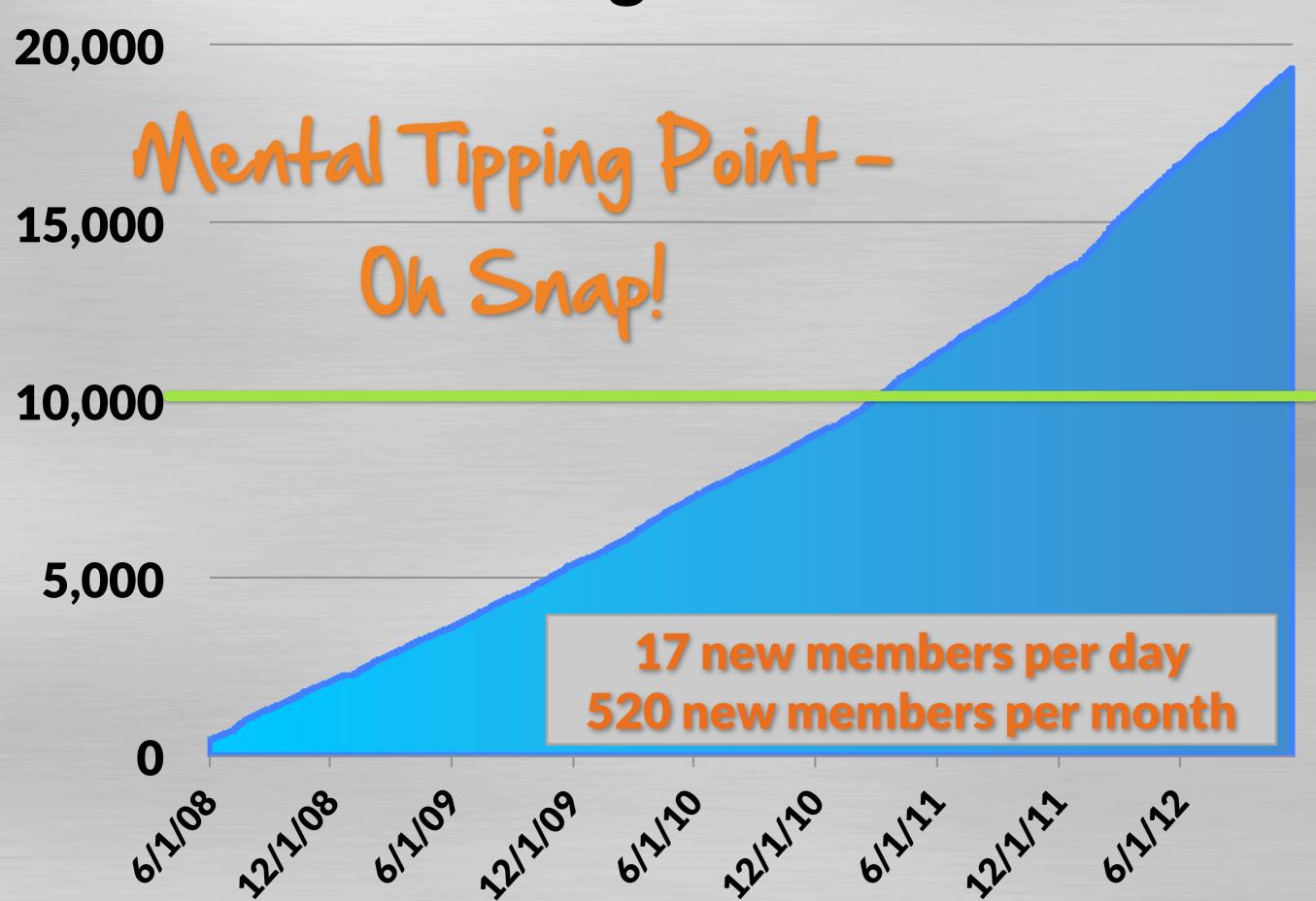
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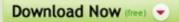
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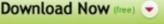


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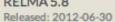
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- Common UCUM units
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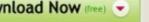
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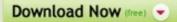
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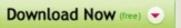


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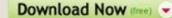
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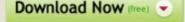
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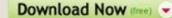
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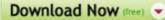
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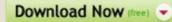
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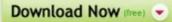
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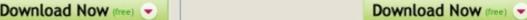
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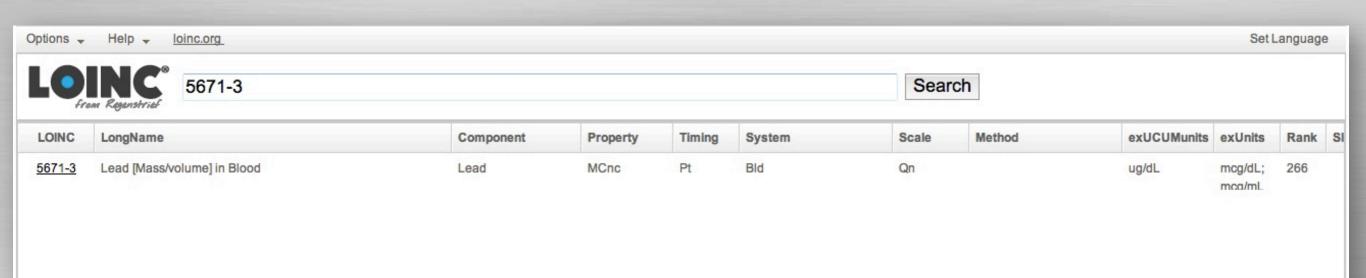
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5036-9 Streptococcus pyogenes rRNA [Presence] in Unspecified specimen by DNA probe

NAME

Fully-Specified Name:	Component	Property	Time Aspect	System	Scale	Method
	Streptococcus pyogenes rRNA	ACnc	Pt	XXX	Ord	Probe

DEFINITION/DESCRIPTION

Source: Wikipedia

Streptococcus pyogenes is a Gram-positive bacterium that grows in long chains depending on the culture method. S. pyogenes displays group A antigen on its cell wall and beta-hemolysis when cultured on blood agar plate. S. pyogenes typically produces large zones of beta-hemolysis, the complete disruption of erythrocytes and the release of hemoglobin, and it is therefore called Group A (beta-hemolytic) Streptococcus (abbreviated GAS). S. pyogenes has several virulence factors. A carbohydrate capsule surrounds the bacterium, protecting it from attack by macrophages. Further, there are proteins, lipoteichoic acids, embedded within the capsule (M protein) that also increase virulence by facilitating attachment to host cells. M protein inhibits complement activation, an important component of the immune system.

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URL: Streptococcus pyogenes (Wikipedia) Last Updated: 2011/11/21 07:04:10 AM

Source: National Library of Medicine, MeSH 2006

A species of gram-positive, coccoid bacteria isolated from skin lesions, blood, inflammatory exudates, and the upper respiratory tract of humans. It is a group A hemolytic Streptococcus that can cause scarlet fever and rheumatic fever.

Last Updated: 2011/11/21 07:04:10 AM

BASIC ATTRIBUTES

E4027 7

Class/Type: MICRO/Lab
Common Lab Results Rank: #1470
Common SI Lab Results Rank: #1470
Last Updated: 1998/03/30
Order vs. Obs.: Both
Status: Active

MEMBER OF THESE PANELS

54037-7	HEDIS 2009 panel
54048-4	HEDIS 2009 Codes to identify group A Streptococcus tests (CWP-D)
57820-3	HEDIS 2010 panel
60442-1	HEDIS 2011 panel
60480-1	HEDIS 2010-11 Codes to identify group A Streptococcus tests (CWP-D)
67760-9	HEDIS 2012 Codes to identify group A Streptococcus tests (CWP-D)
67767-4	HEDIS 2012 panel

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MICRO/Lab Class/Type: Common Lab Results Rank: #1470 Common SI Lab Results Rank: #1470 1998/03/30 Last Updated: Order vs. Obs.: Both Active Status:

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54048-4	HEDIS 2009 Codes to identify group A Streptococcus tests (CWP-D)
57820-3	HEDIS 2010 panel
60442-1	HEDIS 2011 panel
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Last Updated: 2011/11/21 07:04:10 AM

BASIC ATTRIBUTES

E 4007 7

Class/Type:	MICRO/Lab
Common Lab Results Rank:	#1470
Common SI Lab Results Rank:	#1470
Last Updated:	1998/03/30
Order vs. Obs.:	Both
Status:	Active

MEMBER OF THESE PANELS

54037-7	HEDIS 2009 panel
54048-4	HEDIS 2009 Codes to identify group A Streptococcus tests (CWP-D)
57820-3	HEDIS 2010 panel
60442-1	HEDIS 2011 panel
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23301-5	Mycoplasm	Language	Producer				Ord
14547-8	Probe and Human pap		Efstratia Kontaxi, MD, MSc, and Evripidis Ste Panagiotis Kontaxis, Diploma of Electrical at		support fron	n	Ord
30247-1	Cytomegalo						Qn
14470.7	Plasma by	Chinese (CHINA)	Bethune International Peace Hospital				0-
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32585-2	Epstein Bar	French (CANADA) Canada Health Infoway Inc.				Qn	
	specimen b						
1013-0	DNA double	French (FRANCE)	French (FRANCE) ASIP Santé (Agence des systèmes d'information partagés de santé)				Qn
6130-7	Herpes sim	German (GERMANY)	Institute for Medical Documentation and Info	rmation (DIMDI)			Ord
8560-7	Specimen b	Spanish (SPAIN)	the Clinical Laboratory Committee of SERVI support of BITAC MAP.	CIO EXTREMEÑO DE SALU	JD, with the		Non
1441-1	Human pap	English (UNITED STATES)	Regenstrief Institute Inc.				Ord
8683-7	Cervix by D Streptococt specimen b		Ok Cancel				Ord
6043-0	HLA-B27 [Pres	sence] by Probe and target amplification met	hod HLA-B27	ACnc	Pt	Bld	Ord
9615-2		us DNA [#/volume] (viral load) in Serum or	Hepatitis B virus DNA	NCnc	Pt	Ser/Plas	Qn
1258-1	Hepatitis B vin	us DNA [Units/volume] in Serum	Hepatitis B virus DNA	ACnc	Pt	Ser	Qn
3006-8		rus DNA [#/volume] (viral load) in Unspecified	d Cytomegalovirus DNA	NCnc	Pt	XXX	Qn
5034-4	Streptococcus specimen by D	agalactiae rRNA [Presence] in Unspecified DNA probe	Streptococcus agalactiae rRNA	ACnc	Pt	XXX	Ord
8008-1		rus DNA [Presence] in Blood by Probe and	Cytomegalovirus DNA	ACnc	Pt	Bld	Ord

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Everything in Halian!

g/dL

Conta automatica

g/L;g/dL

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LO	LOINC emoglobina media Cerca								
LOINC	LongName	Component	Property	Timing	System	Scale	Method	esemplo unitá	esempi
28539-5	Erythrocyte mean corpuscular hemoglobin [Entitic mass]	Eritrociti, emoglobina corpuscolare media	EntMass	Pt	RBC	Qn		pg	pg
<u>47278-7</u>	Erythrocyte mean corpuscular hemoglobin [Entitic mass] in Cord blood	Eritrociti, emoglobina corpuscolare media	EntMass	Pt	Sangue cordone ombelicale	Qn		pg	pg
<u>59468-9</u>	Erythrocyte mean corpuscular hemoglobin [Entitic substance]	Eritrociti, emoglobina corpuscolare media	EntSub	Pt	RBC	Qn		fmol	fmol
62243-1	Erythrocyte mean corpuscular hemoglobin [Entitic mass] in Blood from Fetus by Automated count	Eritrociti, emoglobina corpuscolare media	EntMass	Pt	Sangue^feto	Qn	Conta automatica	pg	pg
<u>785-6</u>	Erythrocyte mean corpuscular hemoglobin [Entitic mass] by Automated count	Eritrociti, emoglobina corpuscolare media	EntMass	Pt	RBC	Qn	Conta automatica	pg	pg
28540-3	Erythrocyte mean corpuscular hemoglobin concentration [Mass/volume]	Eritrociti, concentrazione emoglobinica corpuscolare media	MCnc	Pt	RBC	Qn		g/dL	g/dL
<u>47279-5</u>	Erythrocyte mean corpuscular hemoglobin concentration [Mass/volume] in Cord blood	Eritrociti, concentrazione emoglobinica corpuscolare media	MCnc	Pt	Sangue cordone ombelicale	Qn		g/L	g/L
<u>59467-1</u>	Erythrocyte mean corpuscular hemoglobin concentration [Moles/volume]	Eritrociti, concentrazione emoglobinica corpuscolare media	SCnc	Pt	RBC	Qn		mmol/L	mmol/L
62246-4	Erythrocyte mean corpuscular hemoglobin concentration [Mass/volume] in Blood from Fetus by	Eritrociti, concentrazione emoglobinica corpuscolare media	MCnc	Pt	Sangue^feto	Qn	Conta automatica	g/L	g/L

Eritrociti, concentrazione emoglobinica corpuscolare media MCnc

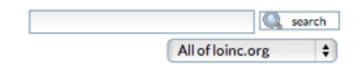
Erythrocyte mean corpuscular hemoglobin

concentration [Mass/volume] by Automated count

RBC

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Presentations About LOINC



LOINC and RELMA Presentations



LOINC and RELMA Tutorials

Laboratory LOINC and RELMA Tutorial (June 2012)

Jim Case & Clem McDonald & Daniel Vreeman

Other Available Languages:

- Estonian (December 2007)
- Simplified Chinese (June 2008)
- LOINC Overview and Introduction 1hr Webinar with Audio (March 2012)

Daniel Vreeman

slidedeck available online here

LOINC Overview and Introduction - Brief (June 2012)

Daniel Vreeman

LOINC Introduction and Mapping Boot Camp for Public Health - PHI 2011 Conference (August 2011)

Daniel Vreeman & Kathy Mercer

Laboratory LOINC Introduction and Mapping "Boot Camp" - CHITREC Workshop (May 2011)

Daniel Vreeman & Clem McDonald

- Clinical LOINC Tutorials (February 2012)
 - Introduction and Foundations
 Stan Huff
 - Documents

Daniel Vreeman

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Up one level

Organizations, institutions, and other LOINC adopters. Not certified or otherwise verified - just offered here for reference.

Indian Health Service Office of Information Technology

The Indian Health Service (IHS), an agency within the Department of Health and Human Services, is responsible for providing federal health services to American Indians and Alaska Natives. The IHS provides a comprehensive health service delivery system for approximately 1.9 million American Indians and Alaska Natives who belong to 562 federally recognized tribes in 35 states. The IHS Office of Information Technology will begin a comprehensive LOINC project to assign correct LOINC codes to laboratory tests and test results in their hospital information systems to comply with CMS 'meaningful use' mandates and agency interoperability mandates.



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We are using it as part of HL7 messages to send medical information to our Clinical Fail (ECE) in services such as Laboratory, Blood Bank, Transfusion Service, and soon in Hemodialysis service; all of this are called Integral Services. We are considering including them for clinical notes at hospitalization and external service.

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Intellicure, Inc.

Intellicure uses LOINC codes in IntelliTrak, our electronic medical records application. We use them as a codebase during data capture to facilitate interoperability with CDA, CDA4CDT, CCD, and C32 documents.

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ISIS Health Informatics Resource Group Inc.

ISIS Health Informatics offers a variety of services using both the international LOINC standard as well as the adaptation of the Canadian Approved Standard for LOINC, pCLOCD. Resources include LOINC Subject Matter experts with considerable mapping and maintenance experience and a depth of clinical and lab experience which covers all lab domains as well as established working relationships with Regenstrief and Infoway. Services include LOINC to local LIS test catalogue mapping, LOINC to LIS code map maintenance and update analysis as well as auditing for existing LOINC to LIS code maps. ISIS has developed workflow and change control processes to support large or small mapping projects. ISIS is a Canadian based health information management company providing strategic, implementation, auditing, benefits evaluation, governance consulting, and clinical subject matter experts support electronic health



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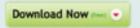
Current Versions

LOINC 2.40

Released: 2012-06-30

RELMA 5.8

Released: 2012-06-30



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LOINC - a universal standard for identifying laboratory and other clinical observations

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LOINC Forum Information A discussion board for system implementers, users, terminologists, and others with an interest in LOINC®. Moderators: dyreeman, kmercer	7	10	by mroubad ☑ Tue Nov 13, 2012 9:35 pm
General Discussion General discussion about LOINC that may not apply to any of the specific forums. Moderators: dvreeman, kmercer	21	67	by kmercer ☐ Thu Sep 13, 2012 8:28 am
LOINC Website and Forum Feedback Do you have suggestions/comments about the main LOINC website and/or this Forum? Discuss them here. Moderators: dvreeman, kmercer	12	30	by Graham D Sat Oct 02, 2010 8:21 pm
Main LOINC Website URL re-direct back to main LOINC website for downloads, documentation, etc. Moderators: dvreeman, kmercer			
LOINC IMPLEMENTATION	TOPICS	POSTS	LAST POST

LOINC IMPLEMENTATION	TOPICS	POSTS	LAST POST
System Implementation Discussions about how LOINC is being implemented in electronic clinical systems. Moderators: dvreeman, kmercer	7	12	by pdbanning ☐ Mon Nov 29, 2010 2:28 am
Public Health ELR Community Implementation Discussions about electronic laboratory reporting to public health. Moderators: dvreeman, kmercer	0	0	No posts

LOINC DEVELOPMENT		TOPICS	POSTS	LAST POST
Translations Discussion about translating LOINC into languages other than English. Moderators: dvreeman, kmercer, jhook	<u>a</u>	6	11	by linforest D Sat May 01, 2010 12:52 am
Data Model Discussion about the LOINC data model. Moderators: dvreeman, kmercer, jhook	<u>a</u>	3	6	by dvreeman ☐ Fri Sep 14, 2012 2:59 pm
Other LOINC Enhancements Discussion about Long Common Names, Hierarchies, and other LOINC development activities Moderators: dvreeman, kmercer, jhook	<u>a</u>	4	17	by AzDave2010

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