

LOINC[®]

from Regenstrief

A *lingua franca* for clinical observations in
electronic messages and attachments

Daniel J. Vreeman, PT, DPT, MSc

Assistant Research Professor, Indiana University School of Medicine
Research Scientist, Regenstrief Institute, Inc



INDIANA UNIVERSITY
DEPARTMENT OF MEDICINE
School of Medicine



Regenstrief Institute
Medical Informatics

Questions I'll Address

What is LOINC? (not on the list)

What is the set of attachment standards being recommended for adoption?

Are there any known limitations or gaps in the recommended standards? How will they be addressed?

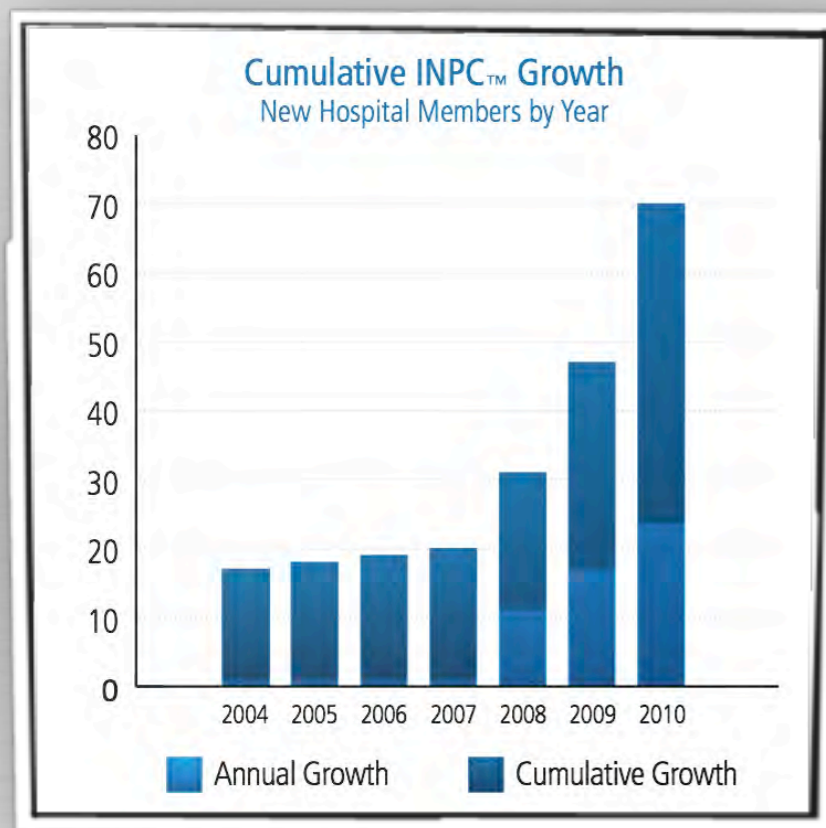
Are the recommended standards applicable only to claim attachments or will they be applicable also to other types of attachments?

Regenstrief Informatics Pioneers

40 years of EMR work

Indiana Network for Patient Care

Nation's most comprehensive and longest tenured HIE



Fundamental challenge:

Local systems have different ways of identifying the same concept. And, things that look alike aren't the same.

Same or Different?

Lab A

Test Name: Lyme Disease Serology

Same or Different?

Lab A

Test Name: Lyme Disease Serology

Lab B

Test Name: Lyme Disease Antibody

Same or Different?

What you see in the test catalog

Lab A

Test Name: Lyme Disease Serology

Lab B

Test Name: Lyme Disease Antibody

Same or Different?

What you see in the test catalog

Lab A

Test Name: Lyme Disease Serology

Lab B

Test Name: Lyme Disease Antibody

Measures: *B. burgdorferi* Ab IgM

Method: Immune blot

Scale: qualitative

e.g.: Positive

Same or Different?

What you see in the test catalog

Lab A

Test Name: Lyme Disease Serology

Measures: *B. burgdorferi* Ab IgG

Method: ELISA

Scale: quantitative

e.g.: Titer 1:40

Lab B

Test Name: Lyme Disease Antibody

Measures: *B. burgdorferi* Ab IgM

Method: Immune blot

Scale: qualitative

e.g.: Positive

Same phenomenon in many domains...



**Outpatient
Pain Note**

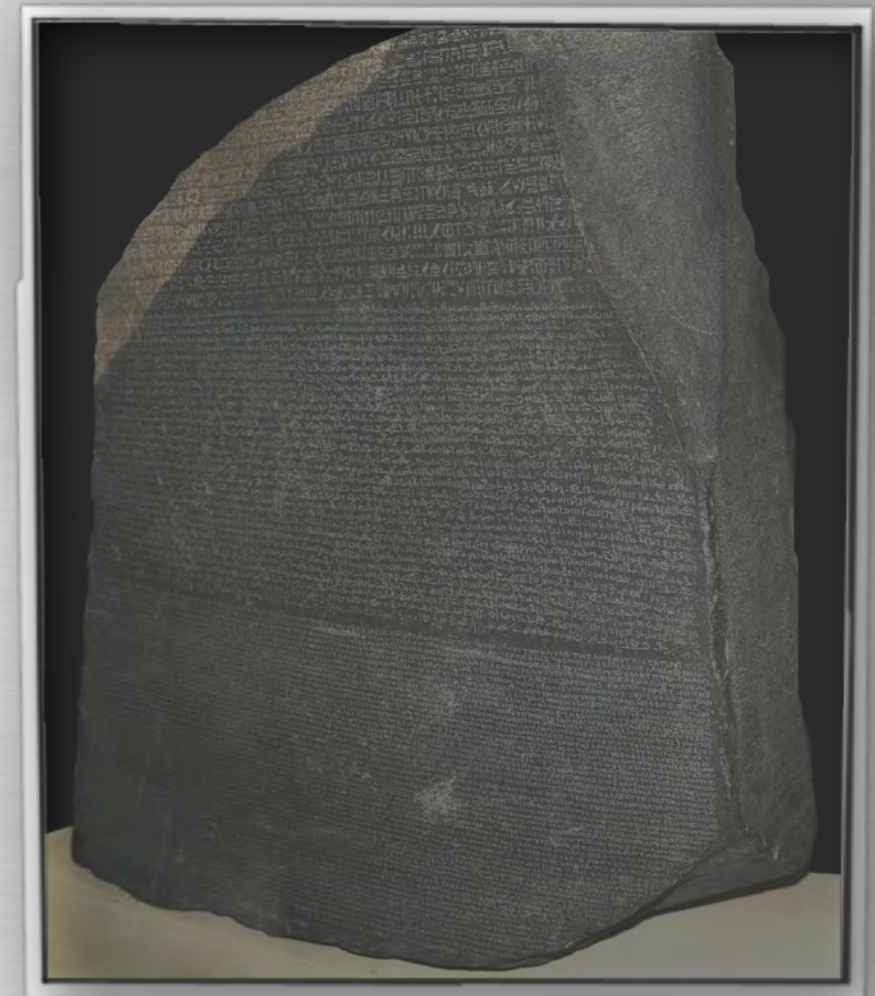


**Dr. Evil's Tues
PM Pain Clinic
Note**



**Chronic Pain
Clinic**

A vocabulary standard
would serve as the
Rosetta Stone.



Logical Observation Identifiers Names and Codes

**A universal code system that facilitates exchange,
pooling, and processing of results**

Born in 1994 by Regenstrief Institute.

Worldwide distribution at no cost.

Copyrighted, but open license.

Released twice per year.

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It's free, but invaluable.

Worldwide distribution at no cost.

Just don't use it to make another standard!

Copyrighted, but open license.

Released twice per year.

Laboratory LOINC

Microbiology Tests



Clinical LOINC

Radiology Studies

Patient Reported Outcomes Information System

Outcome and Assessment Information Set

OB Ultrasound impression and Measures

Dental Measurements

Minimum Data Set

Respiratory measures and ventilator management
Clinical Report Document

Physical Exam sections and measures

OMAHA

Cardiac Ultrasound

History categories

survey

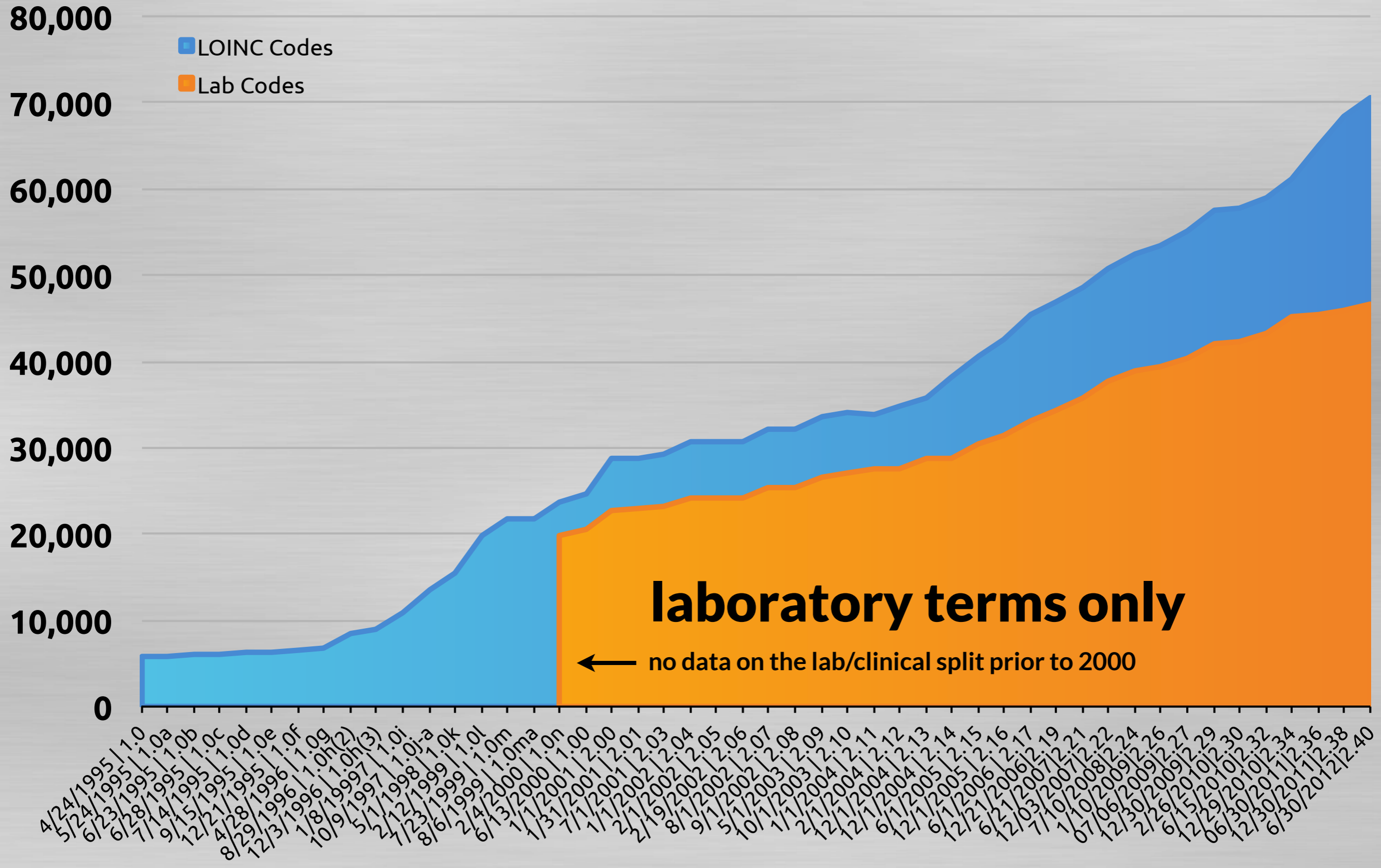
Tumor Registry

Continuity Assessment Record and Evaluation

Quality of Life Outcomes in Neurological Disorders NAACCR

PhenX

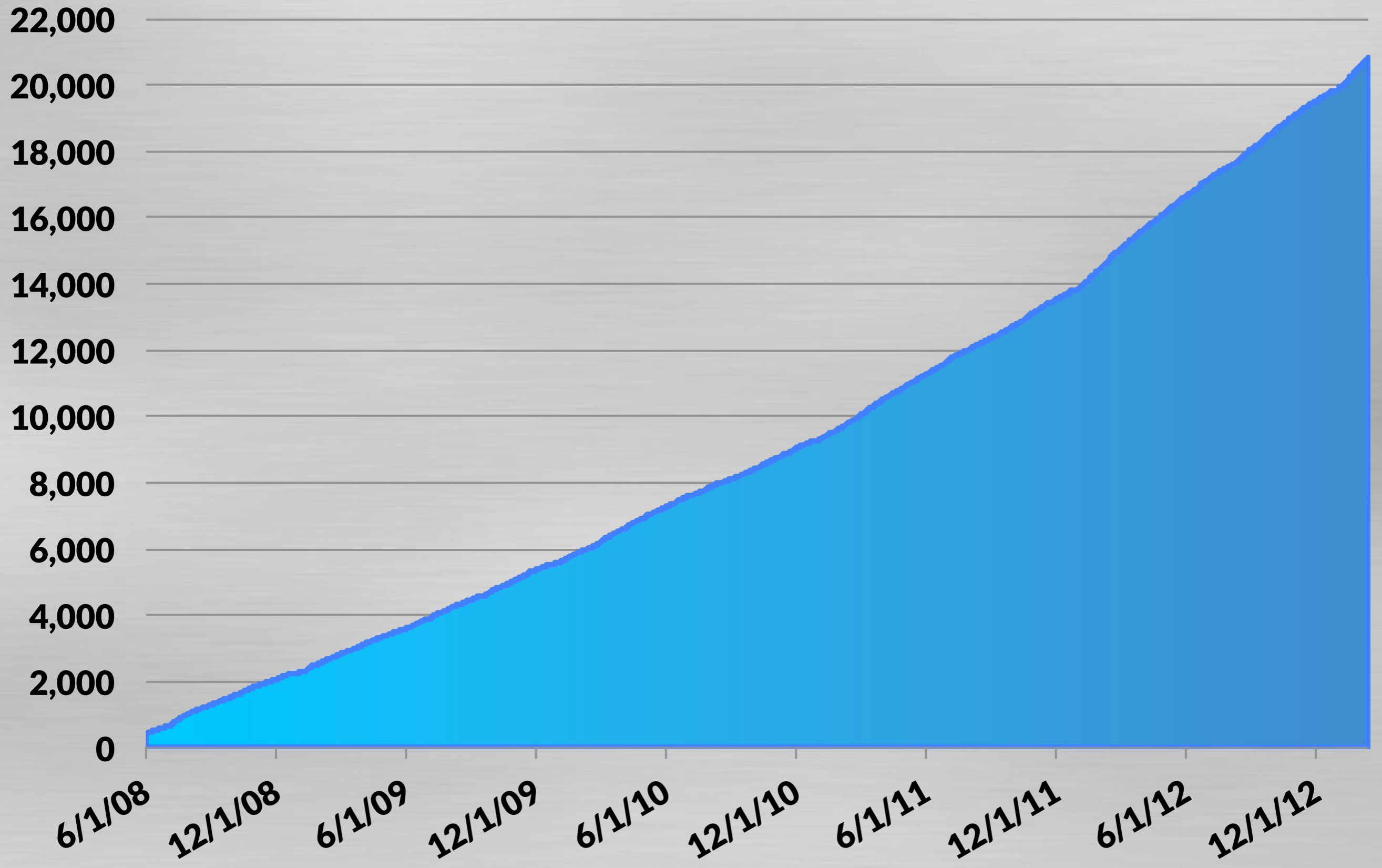
LOINC Codes Over Time by Release



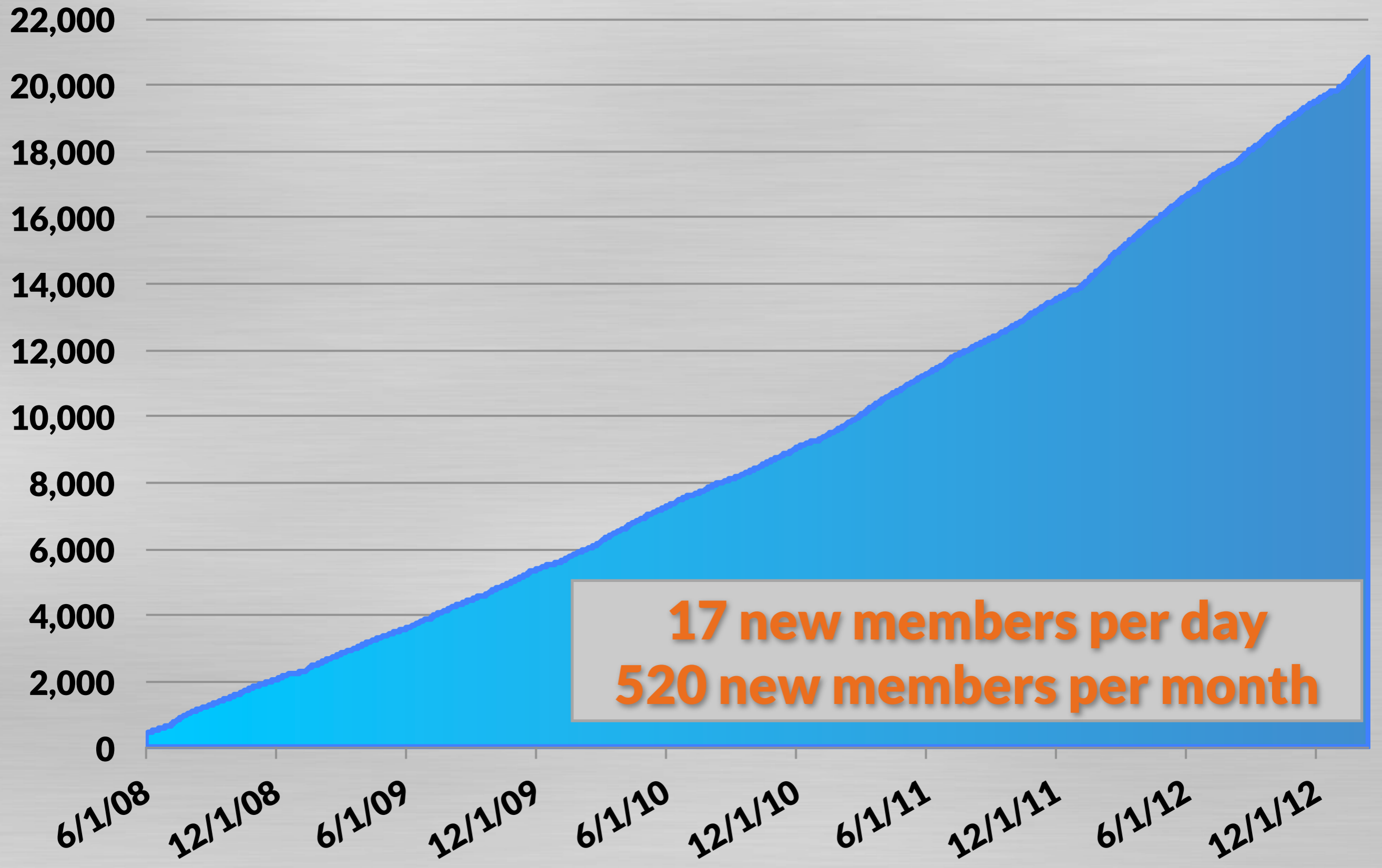
21,000+ users in 150 countries



loinc.org members

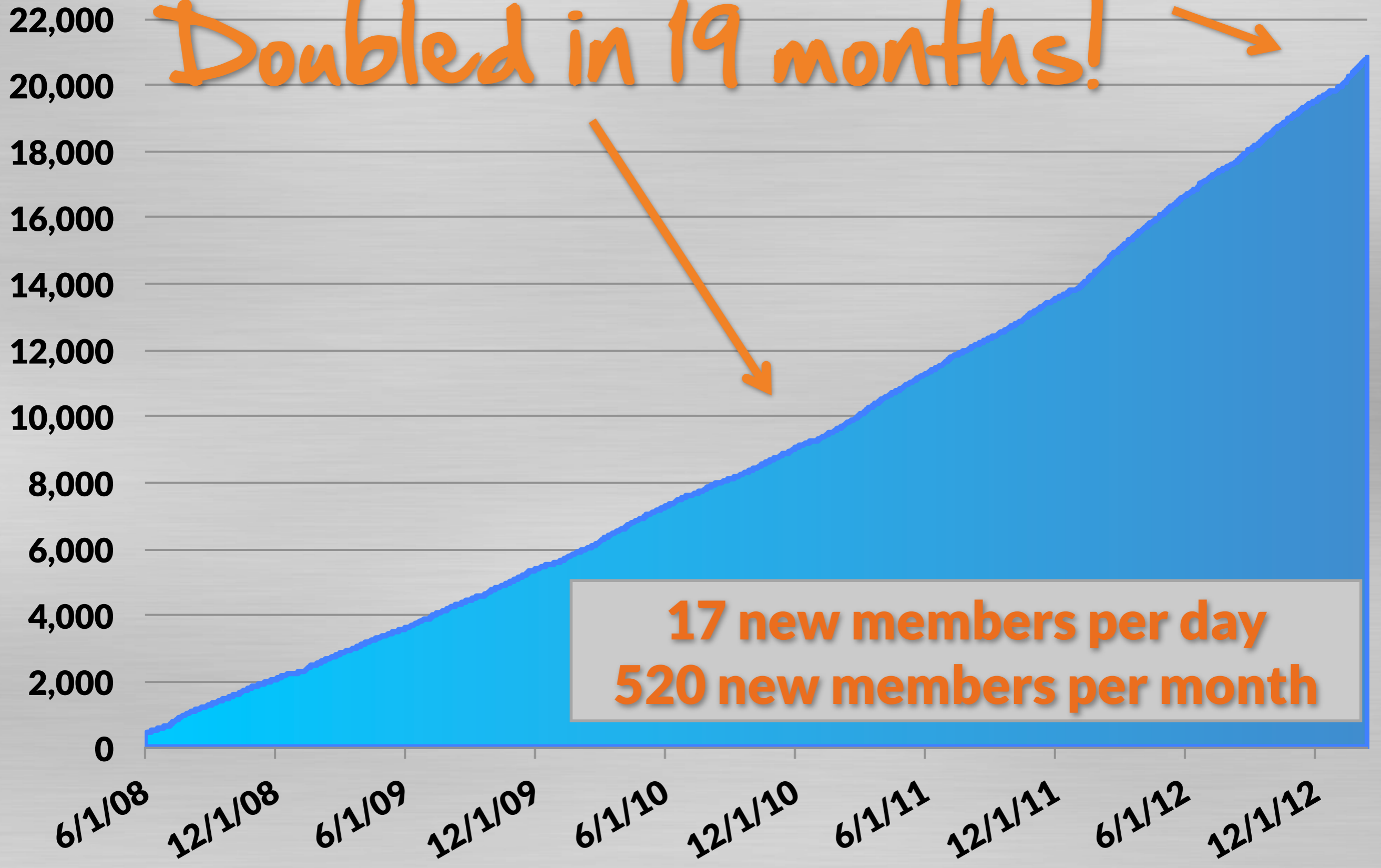


loinc.org members



loinc.org members

Doubled in 19 months!



HL7 and Regenstrief Institute Sign Statement of Understanding

November 14, 2011

INDIANAPOLIS -- Health Level Seven® (HL7®) International, the global authority on standards for interoperability of health information technology with members in 55 countries, and the Regenstrief Institute, Inc., an internationally respected healthcare and informatics research organization, today announced an agreement to create a complementary process to develop and extend comprehensive standards in the healthcare industry.

"This agreement further solidifies and extends the wonderful relationship HL7 has enjoyed with Regenstrief for many years," said Bob Dolin, chair of HL7 Board of Directors. "HL7 is committed to working with Regenstrief and other standards bodies to advance the delivery of safe and effective patient care."

Logical Observation Identifiers Names and Codes (LOINC®) is a universal code system developed by the Regenstrief Institute for identifying laboratory and clinical observations. When used in conjunction with the data exchange standards developed by HL7, LOINC's universal observation identifiers make it possible to combine test results, measurements, and other observations from many independent sources. Together, they facilitate exchange and pooling of health data for clinical care, research, outcomes management, and other purposes.

"Regenstrief has been a long-standing contributor to the standards developed by HL7, and likewise, LOINC has been enhanced by its adoption in HL7's standards," said Daniel Vreeman, DPT, M.Sc., associate director of terminology services at the Regenstrief Institute. "With this agreement, we look forward to an even closer collaboration with HL7 that improves the semantic interoperability of health data exchange worldwide."

LOINC began in the mid 1990's when Regenstrief investigators, using their decades of experience with electronic medical records, began the Indiana Network for Patient Care, the nation's first citywide health information exchange. The researcher clinicians found they could receive data from various INPC member institutions but that the clinical content was difficult to interpret because each used a different code for the same test or observation so it was like receiving messages in French, Spanish and Italian when all they could understand was English.


LOINC was born from the desire to develop a lingua franca. From the beginning it has been a free and open system, encouraging additions, comments and feedback. Two new versions of LOINC are issued annually, with more than 2,000 new terms for tests or clinical observations per release. These new additions are based on requests from end users.

Tagged with: [electronic medical records](#), [medical informatics](#), [Regenstrief](#)

 [Email](#)  [Print](#)     



LOINC

 [Download print quality image](#)

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November 14, 2011

Email Print Facebook Twitter LinkedIn YouTube Google+ RSS

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– Bob Dolin, MD

Chair of HL7 Board of Directors

Tagged with: electronic medical records, medical informatics, Regenstrief

Adopted as National Standard

Australia

Brazil

Canada

Cyprus

Estonia

France

Germany

Mexico

Mongolia

The Netherlands

Rwanda

Thailand

Turkey

United States

US Adoption

A few key highlights



Some Key US Adoptions

All the “big” labs

All health-related federal agencies

Lots of care organizations

HIE's

Insurance companies

EHR vendors

Instrument manufacturers (nascent)

The background of the slide is a stylized, wavy American flag. The stars are white on a blue field, and the stripes are red and white, flowing across the entire image.

CMS EHR Incentive Program

a.k.a. *“Meaningful Use”*



Health IT Policy Committee

A Public Advisory Body on Health Information Technology to the National Coordinator for Health IT

September 9, 2011

Farzad Mostashari, MD, ScM
National Coordinator for Health Information Technology
Department of Health and Human Services
200 Independence Avenue, SW
Washington, DC 20201

Dear Dr. Mostashari:

The HIT Standards Committee's (HITSC) Clinical Quality Measures Workgroup (CQMWG) and Vocabulary Task Force (VTF) jointly developed recommendations on the assignment of code sets to clinical concepts [data elements] for use in quality measures.

The CQMWG and VTF held a series of joint meetings to develop the set of recommendations. This letter transmits the recommendations to the Department of Health and Human Services (HHS) on the assignment of code sets to clinical concepts for use in quality measures. On August 17, 2011, the CQMWG and VTF reported on and discussed their findings with the HITSC, which were subsequently approved as outlined below.

Stage 2

starting 2014

DEPARTMENT OF HEALTH AND HUMAN SERVICES

Office of the Secretary

45 CFR Part 170

RIN 0991-AB82

Health Information Technology: Standards, Implementation Specifications, and Certification Criteria for Electronic Health Record Technology, 2014 Edition; Revisions to the Permanent Certification Program for Health Information Technology

AGENCY: Office of the National Coordinator for Health Information Technology (ONC), Department of Health and Human Services.

ACTION: Final rule.

SUMMARY: With this final rule, the Secretary of Health and Human Services adopts certification criteria that establish the technical capabilities and specify the related standards and implementation specifications that Certified Electronic Health Record (EHR) Technology will need to include to, at a minimum, support the achievement of meaningful use by eligible professionals, eligible hospitals,

CQM Clinical Quality Measure

CY Calendar Year

EH Eligible Hospital

EHR Electronic Health Record

EP Eligible Professional

FY Fiscal Year

HHS Department of Health and Human Services

HIPAA Health Insurance Portability and Accountability Act of 1996

HIT Health Information Technology

HITECH Health Information Technology for Economic and Clinical Health

HITPC HIT Policy Committee

HITSC HIT Standards Committee

HL7 Health Level Seven

ICD-9-CM International Classification of Diseases, 9th Revision, Clinical Modification

ICD-10 International Classification of Diseases, 10th Revision

ICD-10-CM International Classification of Diseases, 10th Revision, Clinical Modification

ICD-10-PCS International Classification of Diseases, 10th Revision, Procedure Coding System

IHE Integrating the Healthcare Enterprise®

LOINC® Logical Observation Identifiers Names and Codes

MU Meaningful Use

ONC Office of the National Coordinator of Health Information Technology

NCPDP National Council for Prescription Drug Programs

NIST National Institute of Standards and Technology

a. Ambulatory and Inpatient Setting

b. Ambulatory Setting

c. Inpatient Setting

10. Revised Certification Criteria

a. Ambulatory and Inpatient Setting

b. Ambulatory Setting

c. Inpatient Setting

11. Unchanged Certification Criteria

a. Refinements to Unchanged Certification Criteria

b. Unchanged Certification Criteria Without Refinements

12. Gap Certification

13. "Disability" Status

B. Redefining Certified EHR Technology and Related Terms

1. Certified EHR Technology (CEHRT) Definition

2. Base EHR Definition

3. Complete EHR Definition

4. Certifications Issued for Complete EHRs and EHR Modules

5. Adaptations of Certified Complete EHRs or Certified EHR Modules

IV. Provisions of the Final Rule Affecting the Permanent Certification Program for HIT ("ONC HIT Certification Program")

A. Program Name Change

B. "Minimum Standards" Code Sets

C. Revisions to EHR Module Certification Requirements

1. Privacy and Security Certification

2. Certification to Certain New Certification Criteria

D. ONC-ACB Reporting Requirements

E. Continuation and Representation of Certified Status

LOINC adopted for:

1. View, download, transmit data to third party
2. Cancer case reporting to state registry
3. Send/receive electronic lab results in ambulatory settings
4. Provide a care summary at care transition
5. Provide clinical summaries for patients
6. Submit reportable lab results to public health

to, at a minimum, support the achievement of meaningful use by eligible professionals, eligible hospitals,

Health Information Technology
NCPDP National Council for Prescription
Drug Programs
NIST National Institute of Standards and
Technology

Criteria
D. ONC-ACB Reporting Requirements
E. Continuation and Representation of
Certified Status



Recommendations



**HL7 Implementation Guide for CDA® Release 2:
IHE Health Story Consolidation, DSTU Release 1.1**

(US Realm)

Draft Standard for Trial Use

July 2012

Publication of this draft standard for trial use and comment has been approved by Health Level Seven International (HL7). This draft standard is not an accredited American National Standard. The comment period for use of this draft standard shall end 24 months from the date of publication. Suggestions for revision should be submitted at <http://www.hl7.org/dstucomments/index.cfm>.

Following this 24 month evaluation period, this draft standard, revised as necessary, will be submitted to a normative ballot in preparation for approval by ANSI as an American National Standard. Implementations of this draft standard shall be viable throughout the normative ballot process and for up to six months after publication of the relevant normative standard.

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**HL7 Attachment Specification: Supplement to Consolidated
CDA Templated Guide, Release 1**

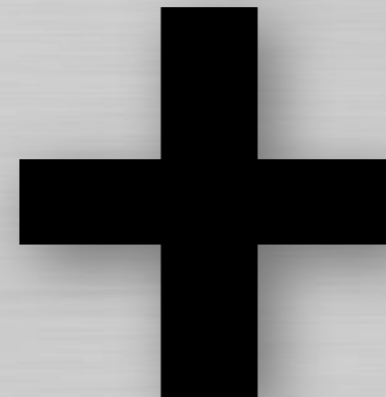
January 2013

HL7 Informative Ballot

**Sponsored by:
Attachments Work Group**

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C-CDA

with LOINC inside

claims or other

In [^]attachments,
LOINC codes are used
for 3 main purposes

To identify the specific kind of information being communicated in both a request and response.

Each LOINC code that is allowed as an attachment is flagged for use as “Structured” or “Unstructured” in the database.

To identify the specific kind of information being communicated in both a request and response.

e.g. discharge summary, radiology report, consent form, etc

Each LOINC code that is allowed as an attachment is flagged for use as “Structured” or “Unstructured” in the database.

To (optionally) specify variables that modify parameters used in fulfilling the request for information.

To (optionally) specify variables that modify parameters used in fulfilling the request for information.

e.g. codes that indicate a modification to the default time period

In attachment responses using HL7 (C-)CDA, LOINC codes identify the attachment (document) type, sections, and sometimes individual entries (tests or observations).

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e.g. for a Continuity of Care Document

Document Type: 34133-9 (Summarization of episode note)


Section: 8716-3 (Vital signs)

Entry: 9279-1 (Respiratory Rate)



Tools for Implementers

loinc.org/attachments



Home Downloads Documentation News Jobs About

search

All of loinc.org


log in new user?

you are here: [home](#) → attachments

Using LOINC in HIPAA Attachments

LOINC helps providers and payers speak the same language.

The [HIPAA Administrative Simplification](#) provision mandates the adoption of standards for electronic claims attachments. A claims attachment includes the clinical and administrative information often necessary to adjudicate claims for ambulance, rehabilitation, or emergency room services. Regenstrief has worked closely with the [HL7 Attachments Work Group](#) to support the use of LOINC codes in the electronic exchanges of attachments between payers and providers.



The [current proposed specifications for attachments](#) use LOINC codes for three main purposes:

1. To identify the specific kind of information being communicated in both a request and response (e.g., a discharge summary or diagnostic imaging report).
2. To optionally specify certain modifier variables in fulfilling the request for information (e.g. variables that indicate a modification to the default time period).
3. In structured attachment responses using HL7 CDA, LOINC codes identify the attachment (document) type, sections, and sometimes the individual entries (tests or observations).

There are 3 main ways to identify LOINC codes that can be used as valid attachment types.

In the LOINC Table

The LOINC Table ([available for download in several file formats](#)) contains a field called HL7_ATTACHMENT_STRUCTURE. For attachments approved by the HL7 AWG, this field will be populated with a value of UNSTRUCTURED or STRUCTURED according to how that information can be sent.

Using RELMA

RELMA has a [special form for browsing the attachment content](#). Just look for the HIPAA menu and you'll be on your way. If you want, you can [read more about how to browse the attachment content with RELMA here](#).

In RELMA you can also find attachment content by searching on the HL7_ATTACHMENT_STRUCTURE field with RELMA's easy to use search syntax. For example, to search for all the LOINC terms with value in HL7_ATTACHMENT_STRUCTURE of "UNSTRUCTURED" containing the word "consent", you could enter this query in the search box:

consent HL7ATTACHMENTSTRUCTURE:unstructured

Current Versions

LOINC 2.42
Released: 2012-12-28

RELMA 6.0
Released: 2012-12-28


[Download Now](#)

Recent Forum Posts

[General Discussion | Re: Using 'unspecified' system LOINCs](#)

[System Implementation | LOINC implementation for Genetic Cancer Labs](#)

[More posts...](#)



LOINC LOINC

[LOINC Using RELMA and want to see how other users mapped to a particular LOINC? Join our study to unlock these features loinc.org/community/mapp...](#)
11 hours ago · reply · retweet · favorite

[Join the conversation](#)

Using search.loinc.org

The search syntax of the [online LOINC search application](#) is the same as that of RELMA. This powerful search syntax can search on keywords anywhere in the LOINC records or with a particular

search.loinc.org

online look-up tool for LOINC

search.loinc.org

Options ▾ Help ▾ loinc.org

Set Language

LOINC®

from Regenstrief

HL7ATTACHMENTSTRUCTURE:unstructured

Search

1

/ 4

[1 - 14 / 54]

LOINC	LongName	Component	Property	Timing	System	Scale
52027-0	Abortion consent	Abortion consent	Find	Pt	^Patient	Doc
53243-2	Advanced beneficiary notice	Advanced beneficiary notice attachment	Find	Pt	^Patient	Doc
52032-0	Appeal denial letter	Appeal denial letter attachment	Find	Pt	^Patient	Doc
52065-0	Automobile liability	Automobile liability attachment	Find	Pt	^Patient	Doc
52041-1	Blood glucose monitors	Blood glucose monitors attachment	Find	Pt	^Patient	Doc
53242-4	Charge ticket or encounter form	Charge ticket or encounter form attachment	Find	Pt	^Patient	Doc
52042-9	Continuous positive airway pressure (CPAP)	Continuous positive airway pressure attachment	Find	Pt	^Patient	Doc
52040-3	Dental X-rays and other images (not DICOM)	Dental X-rays and other images (not DICOM) attachment	Find	Pt	^Patient	Doc
53245-7	Driver license image	Driver license image attachment	Find	Pt	^Patient	Doc
53247-3	Eligibility acknowledgement	Eligibility acknowledgement attachment	Find	Pt	^Patient	Doc
52071-8	Employee assistance program	Employee assistance program attachment	Find	Pt	^Patient	Doc
52043-7	Enteral nutrition	Enteral nutrition attachment	Find	Pt	^Patient	Doc
52030-4	Explanation of benefits	Explanation of benefits attachment	Find	Pt	^Patient	Doc
52031-2	Explanation of benefits to subscriber	Explanation of benefits to subscriber attachment	Find	Pt	^Patient	Doc

RELMA®

REgenstrief LOINC Mapping Assistant



RELMA Search Window

Regenstrief LOINC Mapping Assistant (RELMA) - Map Local Terms for SAMPLE

File Tools HIPAA Lab Auto Mapper View Help

log out | Welcome newuser1

Search | Mapping | View All Working Set Terms | Hierarchy & Search Limits | Part Search | Answer List Search

consult note hl7attachmentstructure:structured

Units

Search ?

Use Standard Search

No Common Limits

Grid | Tree

Ro	LOINC	Component	Property	Timing	System	Scale	Method	ExU...	ExU...	Rank	SIR ^
1	11488-4	Consultation note	Find	Pt	{Setting}	Doc	{Provider}				
2	34099-2	Consultation note	Find	Pt	{Setting}	Doc	Cardiovascular disease				
3	34756-7	Consultation note	Find	Pt	{Setting}	Doc	Dentistry				
4	34758-3	Consultation note	Find	Pt	{Setting}	Doc	Dermatology				
5	34760-9	Consultation note	Find	Pt	{Setting}	Doc	Diabetology				
6	34879-7	Consultation note	Find	Pt	{Setting}	Doc	Endocrinology				
7	34761-7	Consultation note	Find	Pt	{Setting}	Doc	Gastroenterology				
8	34764-1	Consultation note	Find	Pt	{Setting}	Doc	General medicine				
9	34771-6	Consultation note	Find	Pt	{Setting}	Doc	General surgery				
10	34776-5	Consultation note	Find	Pt	{Setting}	Doc	Gerontology				
11	34777-3	Consultation note	Find	Pt	{Setting}	Doc	Gynecology				
12	34779-9	Consultation note	Find	Pt	{Setting}	Doc	Hematology+Oncology				
13	34781-5	Consultation note	Find	Pt	{Setting}	Doc	Infectious disease				
14	34783-1	Consultation note	Find	Pt	{Setting}	Doc	Kinesiotherapy				
15	34785-6	Consultation note	Find	Pt	{Setting}	Doc	Mental health				
16	34795-5	Consultation note	Find	Pt	{Setting}	Doc	Nephrology				
17	34798-9	Consultation note	Find	Pt	{Setting}	Doc	Neurological surgery				
18	34797-1	Consultation note	Find	Pt	{Setting}	Doc	Neurology				
19	34800-3	Consultation note	Find	Pt	{Setting}	Doc	Nutrition+Dietetics				

Units Specimen Methodless No Common Limits Battery Max Words:

54 records found: 0.08s

RELMA Search Window

special attachments viewer

Regenstrief LOINC Mapping Assistant (RELMA) - Map Local Terms for SAMPLE

File Tools **HIPAA** Lab Auto Mapper View Help

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

consult note hl7attachmentstructure:structured Units Search ?


Use Standard Search No Common Limits

Grid Tree

Ro	LOINC	Component	Property	Timing	System	Scale	Method	ExU...	ExU...	Rank	SIR ^
1	11488-4	Consultation note	Find	Pt	{Setting}	Doc	{Provider}				
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3	34756-7	Consultation note	Find	Pt	{Setting}	Doc	Dentistry				
4	34758-3	Consultation note	Find	Pt	{Setting}	Doc	Dermatology				
5	34760-9	Consultation note	Find	Pt	{Setting}	Doc	Diabetology				
6	34879-7	Consultation note	Find	Pt	{Setting}	Doc	Endocrinology				
7	34761-7	Consultation note	Find	Pt	{Setting}	Doc	Gastroenterology				
8	34764-1	Consultation note	Find	Pt	{Setting}	Doc	General medicine				
9	34771-6	Consultation note	Find	Pt	{Setting}	Doc	General surgery				
10	34776-5	Consultation note	Find	Pt	{Setting}	Doc	Gerontology				
11	34777-3	Consultation note	Find	Pt	{Setting}	Doc	Gynecology				
12	34779-9	Consultation note	Find	Pt	{Setting}	Doc	Hematology+Oncology				
13	34781-5	Consultation note	Find	Pt	{Setting}	Doc	Infectious disease				
14	34783-1	Consultation note	Find	Pt	{Setting}	Doc	Kinesiotherapy				
15	34785-6	Consultation note	Find	Pt	{Setting}	Doc	Mental health				
16	34795-5	Consultation note	Find	Pt	{Setting}	Doc	Nephrology				
17	34798-9	Consultation note	Find	Pt	{Setting}	Doc	Neurological surgery				
18	34797-1	Consultation note	Find	Pt	{Setting}	Doc	Neurology				
19	34800-3	Consultation note	Find	Pt	{Setting}	Doc	Nutrition+Dietetics				

Units Specimen Methodless No Common Limits Battery Max Words: 54 records found: 0.08s

Structured Attachments



Regenstrief LOINC Mapping Assistant (RELMA) - HIPAA

Structured Attachments

Unstructured Attachments

Request Modifier Codes

Document (Attachment) Type Codes

Row	Attachment Name	LOINC
1	Continuity of Care Document	
3	Consultation Notes	
59	Discharge Summaries	
60	Discharge summary	18842-5
61	Dentist Discharge summary	29761-4
62	Hospital Discharge summary	34105-7
63	Nursing Discharge summary	34745-0
64	Physician attending Discharge summary	28655-9
65	Physician Discharge summary	11490-0
66	Physician Hospital Discharge summary	34106-5
67	Diagnostic Imaging Reports	
5220	History and Physical Notes	
5227	Surgical Operation Notes	
5238	Progress Notes	
5264	Procedure Notes	

CDA Recommended Sections and Entries

Row	R/O	Section Name	LOINC
1	R	Allergies and adverse reactions Document	48765-2
2	R	Hospital course Narrative	8648-8
3	R	Hospital discharge Dx Narrative	11535-2
4	R	Hospital discharge medications Narrative	10183-2
5	R	Plan of treatment (narrative)	18776-5
6	O	Chief complaint Narrative - Reported	10154-3
7	O	Chief complaint+Reason for visit Narrative	46239-0
8	O	Discharge diet (narrative)	42344-2
9	O	History of family member diseases Narrative	10157-6
10	O	Functional status assessment note	47420-5
11	O	History of present illness Narrative	10164-2
12	O	Hospital admission diagnosis Narrative - Reported	46241-6
13	O	Hospital consultations Document	18841-7
14	O	Hospital discharge instructions [Text] Narrative	8653-8
15	O	Hospital discharge physical findings Narrative	10184-0
16	O	History of past illness Narrative	11348-0
17	O	History of Procedures Document	47519-4
18	O	History of immunization Narrative	11369-6
19	O	Problem list - Reported	11450-4
20	O	Hospital discharge studies summary Narrative	11493-4
21	O	Reason for visit Narrative	29299-5
22	O	Review of systems Narrative	10187-3
23	O	Social history Narrative	29762-2
24	O	Vital signs	8716-3

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Structured Attachments

allowed sections from C-CDA

Regenstrief LOINC Mapping Assistant (RELMA) - HIPAA

Structured Attachments | Unstructured Attachments | Request Modifier Codes

Document (Attachment) Type Codes

Row	Attachment Name	LOINC
1	Continuity of Care Document	
3	Consultation Notes	
59	Discharge Summaries	
60	Discharge summary	18842-5
61	Dentist Discharge summary	29761-4
62	Hospital Discharge summary	34105-7
63	Nursing Discharge summary	34745-0
64	Physician attending Discharge summary	28655-9
65	Physician Discharge summary	11490-0
66	Physician Hospital Discharge summary	34106-5
67	Diagnostic Imaging Reports	
5220	History and Physical Notes	
5227	Surgical Operation Notes	
5238	Progress Notes	
5264	Procedure Notes	

CDA Recommended Sections and Entries

Row	R/O	Section Name	LOINC
1	R	Allergies and adverse reactions Document	48765-2
2	R	Hospital course Narrative	8648-8
3	R	Hospital discharge Dx Narrative	11535-2
4	R	Hospital discharge medications Narrative	10183-2
5	R	Plan of treatment (narrative)	18776-5
6	O	Chief complaint Narrative - Reported	10154-3
7	O	Chief complaint+Reason for visit Narrative	46239-0
8	O	Discharge diet (narrative)	42344-2
9	O	History of family member diseases Narrative	10157-6
10	O	Functional status assessment note	47420-5
11	O	History of present illness Narrative	10164-2
12	O	Hospital admission diagnosis Narrative - Reported	46241-6
13	O	Hospital consultations Document	18841-7
14	O	Hospital discharge instructions [Text] Narrative	8653-8
15	O	Hospital discharge physical findings Narrative	10184-0
16	O	History of past illness Narrative	11348-0
17	O	History of Procedures Document	47519-4
18	O	History of immunization Narrative	11369-6
19	O	Problem list - Reported	11450-4
20	O	Hospital discharge studies summary Narrative	11493-4
21	O	Reason for visit Narrative	29299-5
22	O	Review of systems Narrative	10187-3
23	O	Social history Narrative	29762-2
24	O	Vital signs	8716-3

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Unstructured Attachments

Regenstrief LOINC Mapping Assistant (RELMA) - HIPAA		
Structured Attachments Unstructured Attachments Request Modifier Codes		
Row	Attachment Name	LOINC
1	Abortion consent	52027-0
2	Advanced beneficiary notice	53243-2
3	Appeal denial letter	52032-0
4	Automobile liability	52065-0
5	Blood glucose monitors	52041-1
6	Charge ticket or encounter form	53242-4
7	Continuous positive airway pressure (CPAP)	52042-9
8	Dental X-rays and other images (not DICOM)	52040-3
9	Driver license image	53245-7
10	Eligibility acknowledgement	53247-3
11	Employee assistance program	52071-8
12	Enteral nutrition	52043-7
13	Explanation of benefits	52030-4
14	Explanation of benefits to subscriber	52031-2
15	External infusion pump	52044-5
16	First report of injury	52064-3
17	Gait trainers	52045-2
18	General correspondence	52033-8
19	Home health claims	52035-3
20	Home health prior authorization	52036-1
21	Hospital beds	52046-0
22	Hysterectomy consent	52028-8
23	Immunosuppressive drugs	52047-8
24	Lymphedema pumps	52048-6
25	Manual wheelchair	52049-4
26	Member ID card copy	52037-9
27	Motorized wheelchair	52050-2
28	Non-emergency transportation	52072-6
29	Non-medical services	53246-5
30	Notice of Discharge Medicare Appeal Rights (NODMAR) form	52066-8
31	Notice of privacy practices receipt	53244-0
32	Orthotics/Prosthetics	52051-0

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Request Modifier Codes

Regenstrief LOINC Mapping Assistant (RELMA) - HIPAA		
Structured Attachments Unstructured Attachments Request Modifier Codes		
Row	Attachment Name	LOINC
1	LOINC attachment modifier codes	
2	Time window attachment request modifier	29489-2
3	Selection item attachment request modifier codes	29490-0
4	Special attachment request modifier codes	29491-8
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Request Modifier Codes

Simple Display for LOINC record # 29489-2

29489-2Time window attachment request modifier codes

PANEL HIERARCHY

LOINC#	LOINC Name	R/O/C	Cardinality	Data Type	Ex. UCUM Units
29489-2	Time window attachment request modifier codes		0..n		
18789-8	Include all data of the selected type within the date window associated with the claim		0..n		
18790-6	Include all data of the selected type on or before the date of service on the claim		0..n		
18791-4	Include all data of the selected type within or aligned to an encounter by the same claim or encounter		0..n		
18792-2	Include all data of the selected type on or after the date of service of the claim		0..n		
18803-7	Include all data of the selected type that represents observations made 30 days or fewer before the starting date of service for the claim		0..n		
18804-5	Include all data of the selected type that represents observations made 3 months or fewer before the starting date of service for the claim		0..n		
18805-2	Include all data of the selected type that represents observations made six months or fewer before the starting date of service for the claim		0..n		
18806-0	Include all data of the selected type that represents observations made nine months or fewer before the starting date of service for the claim		0..n		
18807-8	Include all data of the selected type that represents observations made one year or less before the starting date of service for the claim		0..n		
53033-7	Include all data of the selected type that represents observations made two years or less before the starting date of service for the claim		0..n		
18793-0	Use no fixed time limit on data (any of the selected type are relevant no matter when obtained)		0..n		

NAME

Fully-Specified Name:	Component	Property	Time Aspect	System	Scale	Method
	Time window attachment request modifier codes	Cmplx	-	^Patient	Set	

BASIC ATTRIBUTES

Class/Type:	ATTACH.MODIFIER/Attachment
Status:	Active

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