

*LOINC Codes in the Data
Element Library*

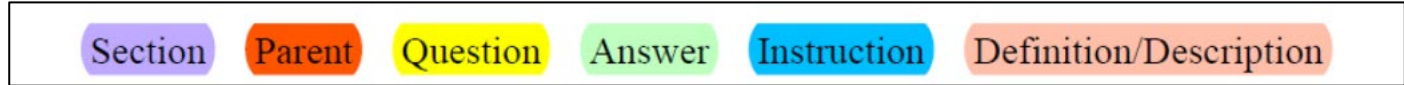


LOINC Codes

- Logical Observation Identifiers Names and Codes (LOINC)
 - A database and universal standard for identifying medical laboratory observations. <http://loinc.org>
 - A common language (set of identifiers, names, and codes) for identifying health measurements, observations and documents (e.g., think of an observation as a “question” and the observation result value as an “answer”).
 - [Hierarchy Browser: Hierarchy Browser \(loinc.org\)](#) *new search format
 - [Centers for Medicare and Medicaid Services \(CMS\) Archives – LOINC](#)

Parsing Out the Assessment Instrument for Code Assignments

Section C		Cognitive Patterns	
Delirium			
C1310. Signs and Symptoms of Delirium (from CAM[®])			
Code after completing Brief Interview for Mental Status or Staff Assessment, and reviewing medical record			
A. Acute Onset Mental Status Change			
Enter Code	Is there evidence of an acute change in mental status from the resident's baseline?		
<input type="checkbox"/>	0. No		
	1. Yes		
Coding: 0. Behavior not present 1. Behavior continuously present, does not fluctuate 2. Behavior present, fluctuates (comes and goes, changes in severity)	↓ Enter Codes in Boxes		
	<input type="checkbox"/>	B. Inattention - Did the resident have difficulty focusing attention, for example, being easily distractible or having difficulty keeping track of what was being said?	
	<input type="checkbox"/>	C. Disorganized Thinking - Was the resident's thinking disorganized or incoherent (rambling or irrelevant conversation, unclear or illogical flow of ideas, or unpredictable switching from subject to subject)?	
	<input type="checkbox"/>	D. Altered Level of Consciousness - Did the resident have altered level of consciousness, as indicated by any of the following criteria? <input type="checkbox"/> vigilant - startled easily to any sound or touch <input type="checkbox"/> lethargic - repeatedly dozed off when being asked questions, but responded to voice or touch <input type="checkbox"/> stuporous - very difficult to arouse and keep aroused for the interview <input type="checkbox"/> comatose - could not be aroused	
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LOINC Panel

LOINC [Home](#) [Search](#) VERSION 2.73

LOINC CODE: **96901-4** LONG COMMON NAME: **MDS v3.0 - RAI v1.17.2 - Delirium during assessment period [CMS Assessment]** LOINC STATUS: **Active**

Panel Hierarchy
[Details for each LOINC in Panel](#)

LOINC	Name	R/O/C	Cardinality	Example UCUM Units
96901-4	Delirium			
95816-5	Signs and Symptoms of Delirium (from CAM)			
95813-2	Acute Onset Mental Status Change. Is there evidence of an acute change in mental status from the resident's baseline?			
95812-4	Inattention - Did the resident have difficulty focusing attention, for example, being easily distractible or having difficulty keeping track of what was being said?			
95814-0	Disorganized Thinking - Was the resident's thinking disorganized or incoherent (rambling or irrelevant conversation, unclear or illogical flow of ideas, or unpredictable switching from subject to subject)?			
95815-7	Altered Level of Consciousness - Did the resident have altered level of consciousness, as indicated by any of the following criteria?			

LOINC CODE: **95813-2** LONG COMMON NAME: **Is there evidence of an acute change in mental status from the patient's baseline during assessment period [CAM.CMS]** LOINC STATUS: **Active**

Fully-Specified Name

Component	Is there evidence of an acute change in mental status from the patient's baseline
Property	Find
Time	RptPeriod
System	^Patient
Scale	Ord
Method	CAM.CMS

Survey Question

Text	[Acute Onset] Is there evidence of an acute change in mental status from the patient's baseline?
Source	CAM.1

Normative Answer List LL251-0

Source: Regenstrief LOINC

Answer	Code	Score	Answer ID
No © http://snomed.info/sct ID:373067005 No (qualifier value)	0		LA32-8
Yes © http://snomed.info/sct ID:373066001 Yes (qualifier value)	1		LA33-6

Basic Attributes

Class	SURVEY.CMS
Type	Surveys
First Released	Version 2.69
Last Updated	Version 2.69
Order vs. Observation	Observation



Response Codes

Mapping of codes to MDS

Question Codes

Delirium		
C1310. Signs and Symptoms of Delirium (from CAM©)		
Code after completing Brief Interview for Mental Status or Staff Assessment, and reviewing medical record		
A. Acute Onset Mental Status Change		
Enter Code	Is there evidence of an acute change in mental status from the resident's baseline?	
<input type="checkbox"/>	0. No	
<input type="checkbox"/>	1. Yes	
↓ Enter Codes in Boxes		
Coding: 0. Behavior not present 1. Behavior continuously present, does not fluctuate 2. Behavior present, fluctuates (comes and goes, changes in severity)	<input type="checkbox"/>	B. Inattention - Did the resident have difficulty focusing attention, for example, being easily distractible or having difficulty keeping track of what was being said?
	<input type="checkbox"/>	C. Disorganized Thinking - Was the resident's thinking disorganized or incoherent (rambling or irrelevant conversation, unclear or illogical flow of ideas, or unpredictable switching from subject to subject)?
	<input type="checkbox"/>	D. Altered Level of Consciousness - Did the resident have altered level of consciousness, as indicated by any of the following criteria?
		<input type="checkbox"/> vigilant - startled easily to any sound or touch <input type="checkbox"/> lethargic - repeatedly dozed off when being asked questions, but responded to voice or touch <input type="checkbox"/> stuporous - very difficult to arouse and keep aroused for the interview <input type="checkbox"/> comatose - could not be aroused
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LA32-8
LA33-6

LA-61-7
LA10992-8

LA-10993-6

95816-5

95813-2

95812-4

95814-0

95815-7

C1310A Example



DEL Issues - Search

- Search – there is confusion with how the HIT details are being displayed for the LOINC code versions.
- Search – missing what is the most updated version being used for LOINC codes. Note – Reports>HIT Codes>Download HIT Codes – Does capture the various versions of codes when user filters instrument, version and HIT Standard Name.
- Reports – Do we want to also capture updated versioning on the download HIT code report?
- Overall – How do we want to communicate the archived codes on both the search option and reports? If a code is discouraged (no longer in use) and a new code is assigned, do we want to show that somewhere (additional report)?

Versioning – C1310A

- 1st release for v.1.17.2 for C1310A on LOINC site shows – v2.69
- Question/responses have been on all releases since (v2.70, v2.71, 2.72, and upcoming 2.73)

Assessment Instrument and Version	LOINC Version
MDS3.0 – v1.14	2.63
MDS3.0 – v1.15	2.64
MDS3.0 – v1.16	2.64
MDS3.0 – v1.17.1	2.66
MDS3.0 – v1.17.2	2.70
MDS3.0 – v.1.18.11	2.73 (TBD)

DEL Home Page > Search > HIT Code Search Details

HIT Code Search Details

[Go Back](#)

* indicates an empty value.

Item Name	Item Value
Item HIT Standard Name:	LOINC
Item HIT Standard Version:	2.70
Item HIT Code:	95813-2
Item HIT Text:	Is there evidence of an acute change in mental status from the patient's baseline during assessment period [CAM.CMS]
Assessment Instrument:	MDS3.0
Assessment Instrument Version:	1.17.2
Item ID:	C1310A
Short Name:	CAM: acute onset mental status change
Question Full Text:	Acute Onset Mental Status Change. Is there evidence of an acute change in mental status from the {patient's/resident's} baseline?
Item Subsets:	NC ND NP NQ SD SP

Responses:	Response Code	Response Text	Response HIT Standard Name	Response HIT Standard Version	Response HIT Code	HIT Code Text
	0	No	LOINC	2.70	LA32-8	No
	1	Yes	LOINC	2.70	LA33-6	Yes

Search Option 1: *Include all versions like how we capture assessment instruments on prior screen*

DEL Home Page > Search > HIT Code Search Details

HIT Code Search Details

[Go Back](#)

* indicates an empty value.

Item Name	Item Value
Item HIT Standard Name:	LOINC
Item HIT Standard Version:	2.70 2.69, 2.70, 2.71, 2.72, 2.73
Item HIT Code:	95813-2
Item HIT Text:	Is there evidence of an acute change in mental status from the patient's baseline during assessment period [CAM.CMS]
Assessment Instrument:	MDS3.0
Assessment Instrument Version:	1.17.2
Item ID:	C1310A
Short Name:	CAM: acute onset mental status change
Question Full Text:	Acute Onset Mental Status Change. Is there evidence of an acute change in mental status from the (patient's/resident's) baseline?
Item Subsets:	NC ND NP NQ SD SP
Responses:	

Response Code	Response Text	Response HIT Standard Name	Response HIT Standard Version	Response HIT Code	HIT Code Text
0	No	LOINC	2.70	LA32-8	No
1	Yes	LOINC	2.70	LA33-6	Yes

DEL Home Page > Search > Data Element Search Details

Data Element Search Details

[Go Back](#)

* indicates an empty value.

Information displayed reflects the most current assessment instrument version.

Item Name	Item Value
Item ID:	C1310A
Assessment Instrument:	MDS3.0
Assessment Instrument Version(s):	1.14, 1.15, 1.16, 1.17, 1.17.2
Section Name:	Section C: Cognitive Patterns
Short Name:	CAM: acute onset mental status change
Question Text:	Acute Onset Mental Status Change. Is there evidence of an acute change in mental status from the (patient's/resident's) baseline?
Valid Response Values (Code, Text):	0 No 1 Yes ^ Blank (skip pattern) - Not assessed/No information
Skip Pattern Trigger:	N
Lookback Period (days):	7
Status:	Active
Status Date:	10-01-2016
Item Use(s):	CAA.QM
Quality Measures:	Change in Self-Care Score for Skilled Nursing Facility Discharge Self-Care Score for Skilled Nursing Facility
Collection Time Period/Item Subset(s):	Nursing Home Comprehensive Assessment; Nursing Home Discharge Assessment; Nursing Home OMRA Other and Discharge Assessment; Nursing Home OMRA Start of Therapy and Discharge Assessment; Nursina Home PPS Assessment; Nursina Home Quarterly Assessment; Swino Bed Discharge Assessment;

Search Option #2: Add verbiage and/or structure similar to LOINC

DEL Home Page > Search > HIT Code Search Details

HIT Code Search Details

[Go Back](#)

* indicates an empty value.

Item Name	Item Value																		
Item HIT Standard Name:	LOINC																		
Item HIT Standard Version:	2.70																		
Item HIT Code:	95813-2																		
Item HIT Text:	Is there evidence of an acute change in mental status from the patient's baseline during assessment period [CAM.CMS]																		
Assessment Instrument:	MDS3.0																		
Assessment Instrument Version:	1.17.2																		
Item ID:	C1310A																		
Short Name:	CAM: acute onset mental status change																		
Question Full Text:	Acute Onset Mental Status Change. Is there evidence of an acute change in mental status from the {patient's/resident's} baseline?																		
Item Subsets:	NC ND NP NQ SD SP																		
Responses:	<table border="1"> <thead> <tr> <th>Response Code</th> <th>Response Text</th> <th>Response HIT Standard Name</th> <th>Response HIT Standard Version</th> <th>Response HIT Code</th> <th>HIT Code Text</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>No</td> <td>LOINC</td> <td>2.70</td> <td>LA32-8</td> <td>No</td> </tr> <tr> <td>1</td> <td>Yes</td> <td>LOINC</td> <td>2.70</td> <td>LA33-6</td> <td>Yes</td> </tr> </tbody> </table>	Response Code	Response Text	Response HIT Standard Name	Response HIT Standard Version	Response HIT Code	HIT Code Text	0	No	LOINC	2.70	LA32-8	No	1	Yes	LOINC	2.70	LA33-6	Yes
Response Code	Response Text	Response HIT Standard Name	Response HIT Standard Version	Response HIT Code	HIT Code Text														
0	No	LOINC	2.70	LA32-8	No														
1	Yes	LOINC	2.70	LA33-6	Yes														

Basic Attributes

Class	SURVEY.CMS
Type	Surveys
First Released	Version 2.69
Last Updated	Version 2.69
Order vs. Observation	Observation

Item HIT Standard Version -
First Released: 2.69

Item HIT Standard Version Last
Updated: 2.73

Reports

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Centers for Medicare & Medicaid Services

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Data Element Library

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Reports

Reports allow a user to get detailed information when they know exactly what they are looking for as in item ID, assessment instrument, assessment version, or other information. Reports are formatted more clearly to see the desired details and allows the user to obtain a hard copy representation of the information.

Data Element

- [Data Element Change Report](#)
- [Data Element Information](#)
- [Data Elements by Assessment Instrument Version](#)
- [Data Elements Used Across Provider Settings](#)
- [Data Elements Without HIT Codes](#)
- [Data Elements Without Item Use](#)
- [Download Data Elements Report](#)
- [Post-Acute Care Measure Report](#)

Concept (Not Available to Public)

- [Data Element \(Concepts\) Under Consideration vs. Final Data Elements](#)
- [GST Analysis](#)
- [GST Analysis - Cliff Notes Version](#)
- [GST Analysis - Cross-Setting](#)
- [GST Analysis by Instrument](#)

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DEL Home Page > Reports > Download HIT Codes

Download HIT Codes

* indicates required field.

* Assessment Instrument:

* Assessment Instrument Version:

HIT Standard Name:

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HIT Standard Name	HIT Standard Version	Item HIT Code	Item HIT Text	Assessment Instrument	Assessment Instrument Version	Item ID	Short Name	Item Subsets	Response HIT Code
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