CDAR2\_IG\_HAI\_LTCF\_R1\_STU1.1\_Vol2\_Templates\_and\_Supporting



**HL7 CDA® R2 Implementation Guide:   
National Healthcare Safety Network (NHSN) Healthcare Associated Infection (HAI) Reports for Long Term Care Facilities (HAI-LTCF-CDA),  
 Release 1, STU 1.1 - US Realm**

**Volume 2—Templates and Supporting**

April 2023

**1st Update to 1st HL7 Standard for Trial Use (STU)**

**Sponsored by:  
Structured Documents (SD) Work Group**

**Public Health Work Group**

**National Healthcare Safety Network (NHSN)**

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| **Terminology** | **Owner/Contact** |
| --- | --- |
| Current Procedures Terminology (CPT) code set | American Medical Association https://www.ama-assn.org/practice-management/cpt-licensing |
| SNOMED CT | SNOMED International http://www.snomed.org/snomed-ct/get-snomed-ct or info@ihtsdo.org |
| Logical Observation Identifiers Names & Codes (LOINC) | Regenstrief Institute |
| International Classification of Diseases (ICD) codes | World Health Organization (WHO) |
| NUCC Health Care Provider Taxonomy code set | American Medical Association. Please see www.nucc.org. AMA licensing contact: 312-464-5022 (AMA IP services) |

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# Document-Level Templates

Table 1: Required and Optional Sections for Each Document Type

| Document Type | Required Sections | Optional Sections |
| --- | --- | --- |
| [HAI Population Summary Report Generic Constraints](#D_HAI_Population_Summary_Report_Generic) urn:oid:2.16.840.1.113883.10.20.5.4.28 | N/A | N/A |
| [HAI Single-Person Report Generic Constraints LTCF (V2)](#D_HAI_SinglePerson_Report_Gen_LTCF_V2) urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.3:2023-02-01 | N/A | N/A |
| [Healthcare Associated Infection Report](#D_Healthcare_Associated_Infection_Repor) urn:oid:2.16.840.1.113883.10.20.5.4.25 | N/A | N/A |
| [Laboratory Identified MDRO or CDI Event Report for LTCF (V2)](#D_Laboratory_Identified_MDRO_or_CDI_V2) urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.1:2023-02-01 | [Findings Section in a Laboratory Identified Report LTCF](#S_Findings_Section_in_a_Laboratory_Iden) [Encounters Section in an LTCF Report](#S_Encounters_Section_in_an_LTCF_Report) | [NHSN Comment Section](#S_NHSN_Comment_Section) |
| [LTCF Monthly Summary Data for MDRO, CDI, UTI, and Prevention Process Measures (V2)](#D_LTCF_Monthly_Summary_Data_for_MDRO_CD) urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.2:2023-02-01 | [Summary Data Section LTCF (V2)](#S_Summary_Data_Section_LTCF_V2) | [Report No Events Section](#S_Report_No_Events_Section) |

Healthcare Associated Infection Report

[ClinicalDocument: identifier urn:oid:2.16.840.1.113883.10.20.5.4.25 (open)]

Published as part of NHSN Healthcare Associated Infection (HAI) Reports Release 1 - US Realm

This template records constraints on all NHSN Healthcare Associated Infection Reports (generic constraints). Further constraints are found in the specialization templates for single-patient and population summary reports, and in the templates for specific report types.  
Annotations before some constraints provide additional information for the implementer.  
Elements required by CDA that are not further constrained in this guide are not presented as HAI-specific constraints.  
Note: The section on “Template Ids in this Guide” includes a containment table showing all the entries within each report type.

Table 2: Healthcare Associated Infection Report Constraints Overview

| XPath | Card. | Verb | Data Type | CONF# | Value |
| --- | --- | --- | --- | --- | --- |
| ClinicalDocument (identifier: urn:oid:2.16.840.1.113883.10.20.5.4.25) | | | | | |
| realmCode | 1..1 | SHALL |  | [86-18431](#C_86-18431) |  |
| @code | 1..1 | SHALL | CD | [86-18432](#C_86-18432) | US |
| typeId | 1..1 | SHALL |  | [86-18463](#C_86-18463) |  |
| @root | 1..1 | SHALL |  | [86-18464](#C_86-18464) | 2.16.840.1.113883.1.3 |
| @extension | 1..1 | SHALL |  | [86-18465](#C_86-18465) | POCD\_HD000040 |
| templateId | 1..1 | SHALL |  | [86-18460](#C_86-18460) |  |
| @root | 1..1 | SHALL |  | [86-18461](#C_86-18461) | 2.16.840.1.113883.10.20.5.4.25 |
| @extension | 0..0 | SHALL NOT |  | [86-18462](#C_86-18462) |  |
| id | 1..1 | SHALL |  | [86-18466](#C_86-18466) |  |
| @root | 0..1 | MAY |  | [86-18467](#C_86-18467) |  |
| @extension | 0..1 | MAY |  | [86-18468](#C_86-18468) |  |
| code | 1..1 | SHALL |  | [86-18433](#C_86-18433) |  |
| @code | 1..1 | SHALL |  | [86-18434](#C_86-18434) | 51897-7 |
| @codeSystem | 1..1 | SHALL |  | [86-27413](#C_86-27413) | urn:oid:2.16.840.1.113883.6.1 (LOINC) |
| title | 1..1 | SHALL |  | [86-18435](#C_86-18435) |  |
| effectiveTime | 1..1 | SHALL |  | [86-18436](#C_86-18436) |  |
| confidentialityCode | 1..1 | SHALL |  | [86-18437](#C_86-18437) |  |
| @code | 1..1 | SHALL | CD | [86-18438](#C_86-18438) | urn:oid:2.16.840.1.113883.5.25 (HL7Confidentiality) = N |
| languageCode | 1..1 | SHALL |  | [86-18439](#C_86-18439) |  |
| @code | 1..1 | SHALL |  | [86-18440](#C_86-18440) | en-US |
| setId | 1..1 | SHALL |  | [86-18441](#C_86-18441) |  |
| versionNumber | 1..1 | SHALL |  | [86-18442](#C_86-18442) |  |
| recordTarget | 1..\* | SHALL |  | [86-18472](#C_86-18472) |  |
| author | 1..\* | SHALL |  | [86-18473](#C_86-18473) |  |
| custodian | 1..1 | SHALL |  | [86-18443](#C_86-18443) |  |
| assignedCustodian | 1..1 | SHALL |  | [86-18444](#C_86-18444) |  |
| representedCustodianOrganization | 1..1 | SHALL |  | [86-18445](#C_86-18445) |  |
| id | 1..1 | SHALL |  | [86-18446](#C_86-18446) |  |
| @root | 1..1 | SHALL |  | [86-18447](#C_86-18447) | 2.16.840.1.114222.4.3.2.11 |
| legalAuthenticator | 0..1 | SHOULD |  | [86-18474](#C_86-18474) |  |
| relatedDocument | 0..\* | MAY |  | [86-18469](#C_86-18469) |  |
| @typeCode | 1..1 | SHALL |  | [86-18470](#C_86-18470) | urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RPLC |
| parentDocument | 1..1 | SHALL |  | [86-28401](#C_86-28401) |  |
| id | 1..\* | SHALL |  | [86-28402](#C_86-28402) |  |
| component | 1..1 | SHALL |  | [86-18448](#C_86-18448) |  |
| structuredBody | 1..1 | SHALL |  | [86-18449](#C_86-18449) |  |
| component | 1..\* | SHALL |  | [86-18475](#C_86-18475) |  |

1. SHALL contain exactly one [1..1] realmCode (CONF:86-18431).
   1. This realmCode SHALL contain exactly one [1..1] @code="US" (CONF:86-18432).
2. SHALL contain exactly one [1..1] typeId (CONF:86-18463).
   1. This typeId SHALL contain exactly one [1..1] @root="2.16.840.1.113883.1.3" (CONF:86-18464).
   2. This typeId SHALL contain exactly one [1..1] @extension="POCD\_HD000040" (CONF:86-18465).
3. SHALL contain exactly one [1..1] templateId (CONF:86-18460) such that it
   1. SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.5.4.25" (CONF:86-18461).
   2. SHALL NOT contain [0..0] @extension (CONF:86-18462).

CDA requires a ClinicalDocument/id element representing a unique identifier for the document. The id may be represented by either @root or @root plus @extension, so long as the resulting id is globally unique.

CDA provides id, setId, versionNumber, and relatedDocument elements to support succession management (document versioning).

The id element identifies the CDA document instance (the electronic file). It is independent of the setId and versionNumber elements.

1. SHALL contain exactly one [1..1] id (CONF:86-18466).
   1. This id MAY contain zero or one [0..1] @root (CONF:86-18467).
   2. This id MAY contain zero or one [0..1] @extension (CONF:86-18468).
2. SHALL contain exactly one [1..1] code (CONF:86-18433).
   1. This code SHALL contain exactly one [1..1] @code="51897-7" Healthcare Associated Infection Report (CONF:86-18434).
   2. This code SHALL contain exactly one [1..1] @codeSystem (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:86-27413).

The preferred title content for each report type is given with the constraints for each report type.

1. SHALL contain exactly one [1..1] title (CONF:86-18435).
2. SHALL contain exactly one [1..1] effectiveTime (CONF:86-18436).

CDA requires a confidentiality code that indicates the sensitivity of the document. All HAI submissions carry the same value of "normal". Note that this designation does not affect local policy on safeguarding confidentiality of patient-identifiable personal health information.

1. SHALL contain exactly one [1..1] confidentialityCode (CONF:86-18437).
   1. This confidentialityCode SHALL contain exactly one [1..1] @code="N" Normal (CodeSystem: HL7Confidentiality urn:oid:2.16.840.1.113883.5.25 STATIC) (CONF:86-18438).
2. SHALL contain exactly one [1..1] languageCode (CONF:86-18439).
   1. This languageCode SHALL contain exactly one [1..1] @code="en-US" (CONF:86-18440).
3. SHALL contain exactly one [1..1] setId (CONF:86-18441).
4. SHALL contain exactly one [1..1] versionNumber (CONF:86-18442).

CDA requires a recordTarget element that must contain a patientRole element. This is represented differently in single-person and population summary reports. See the templates for generic single-person and population summary reports for details of how to represent the patient or group subject.

1. SHALL contain at least one [1..\*] recordTarget (CONF:86-18472).

In a single-person report, the author may be software or may be a person in the role of infection control professional (ICP). In a population summary report, the author will be the software forming the message. The effect of the CDA Release 2.0 requirements is:  
An author element shall be present. The author element shall contain a time element that represents the time of authoring of the information, and an assignedAuthor element that represents the author of the information. The assignedAuthor element shall contain an id element.

When the report author is vendor software, it can record the Synthetic Data Set (SDS) Validation Id, or, if not participating in SDS, a software installation id. It can also record the vendor software name, the version and release of the software, and the vendor name. For further guidance, see the example at the end of this template.

1. SHALL contain at least one [1..\*] author (CONF:86-18473).

CDA requires that the document custodian be recorded. The NHSN is the custodian of NHSN HAI Reports.

1. SHALL contain exactly one [1..1] custodian (CONF:86-18443).
   1. This custodian SHALL contain exactly one [1..1] assignedCustodian (CONF:86-18444).
      1. This assignedCustodian SHALL contain exactly one [1..1] representedCustodianOrganization (CONF:86-18445).
         1. This representedCustodianOrganization SHALL contain exactly one [1..1] id (CONF:86-18446).
            1. This id SHALL contain exactly one [1..1] @root="2.16.840.1.114222.4.3.2.11" (CONF:86-18447).

CDA requires that a legalAuthenticator element be present if the document has been legally authenticated. Local policy may delegate the function of legal authentication to a device or system that generates the CDA document. In these cases, the legal authenticator must still be a person accepting responsibility for the document content, not the device or system. The effect of the CDA Release 2.0 requirements is:  
The legalAuthenticator element shall contain a time element that represents the time of authentication of the document, a signatureCode element where the value of @code is S, and an assignedEntity element that represents the authenticator of the document. The assignedEntity element shall contain an id element.  
HAI Reports are not signed reports and do not require a legalAuthenticator.

1. SHOULD contain zero or one [0..1] legalAuthenticator (CONF:86-18474).
2. MAY contain zero or more [0..\*] relatedDocument (CONF:86-18469).
   1. The relatedDocument, if present, SHALL contain exactly one [1..1] @typeCode="RPLC" replace (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:86-18470).
   2. The relatedDocument, if present, SHALL contain exactly one [1..1] parentDocument (CONF:86-28401).
      1. This parentDocument SHALL contain at least one [1..\*] id (CONF:86-28402).
         1. The value of id SHALL be populated with the ClinicalDocument/id of the document being replaced (CONF:86-28403).
   3. If versionNumber/@value is greater than 1, a relatedDocument element SHALL be present (CONF:86-18471).
3. SHALL contain exactly one [1..1] component (CONF:86-18448).
   1. This component SHALL contain exactly one [1..1] structuredBody (CONF:86-18449).
      1. This structuredBody SHALL contain at least one [1..\*] component (CONF:86-18475).
      2. The structuredBody element SHALL contain a component element for each section required by the particular report type. Additional sections may be present, but their content will not be processed by NHSN (CONF:86-18450).

Figure 1: Software Author Example

<author>

<!-- The time the document was authored -->

<time value="20080701" />

<assignedAuthor>

<!-- root=vendor OID; extension may be the Synthetic Data Set (SDS)

Validation ID assigned by NHSN AUR subject matter expert (SME);

if not participating in SDS, vendor may use a software ID -->

<id root="2.111.111.111.10008" extension="SDS validation ID" />

<assignedAuthoringDevice>

<!-- Optional-Vendor software name -->

<manufacturerModelName>vendor software name</manufacturerModelName>

<!-- Optional-version and release of the software-->

<softwareName>vendor software version</softwareName>

</assignedAuthoringDevice>

<!-- Optional-Vendor Name -->

<representedOrganization>

<name>vendor name</name>

</representedOrganization>

</assignedAuthor>

</author>

HAI Population Summary Report Generic Constraints

[ClinicalDocument: identifier urn:oid:2.16.840.1.113883.10.20.5.4.28 (open)]

Published as part of NHSN Healthcare Associated Infection (HAI) Reports Release 1 - US Realm

A Population Summary Report records summary data for a group, such as the patients in a particular ward, during a specified period. This report type differs in several ways from the HAI single-person reports.

These report types are used to record many different data sets. The basic structure of the body templates for this report type are:  
• A Summary Data Section:  
o A Summary Encounter records the location to which the data pertain.  
o Various Summary Data Observations record data as code-value pairs.

A population-summary report must conform to the Healthcare Associated Infection Report above. In addition:  
• The patient identifier (required by CDA) is recorded with a nullFlavor.  
• A participant element records that the subject of the report is a group.  
• A second participant element records the reporting facility. (The in-facility unit identifier and type to which the data pertain are recorded in the Summary Encounter Section of the document body.)  
• In the documentationOf/serviceEvent element,  
o The effectiveTime element records the first and last days of the period reported.  
o The code element records the type of summary data reported. This corresponds to the NHSN form type.  
The data set being reported is identified by a code in the CDA header; for example, the cdcNHSN concept “1887-9” identifies the data set “Summary data reporting Antimicrobial Usage”. The codes for these data sets are listed in value set NHSNPopulationSummaryReportTypeCode (2.16.840.1.114222.4.11.3595).

Note that a few data sets are stratified. For example, the NICU (Neonatal Intensive Care Unit) data set is stratified by birthweight; the Antimicrobial Usage data set is stratified by antimicrobial and by route of administration. The stratifying factor is recorded as a CDA element in the Summary Encounter or Summary Data Observation. For example, in an Antimicrobial Use report, the antimicrobial information is represented as a participant. The requirements for each data set are provided in the relevant Summary Data Observation.

Most of the concepts reported are defined for the NHSN protocol and are not expected to see widespread external use: the codes for these concepts come from the NHSN code system.  
Key encounter data:  
• Facility identifier is required. This represents the reporting facility; the location to which the data pertain, such as a unit, is recorded with the data in the Summary Encounter.  
• A code identifying the data set is required.  
• The period reported is required.

Note: The section on “Template Ids in this Guide” includes a containment table showing all the entries within each report type.

Table 3: HAI Population Summary Report Generic Constraints Constraints Overview

| XPath | Card. | Verb | Data Type | CONF# | Value |
| --- | --- | --- | --- | --- | --- |
| ClinicalDocument (identifier: urn:oid:2.16.840.1.113883.10.20.5.4.28) | | | | | |
| templateId | 1..1 | SHALL |  | [86-22431](#C_86-22431) |  |
| @root | 1..1 | SHALL |  | [86-22432](#C_86-22432) | 2.16.840.1.113883.10.20.5.4.28 |
| recordTarget | 1..1 | SHALL |  | [86-22433](#C_86-22433) |  |
| patientRole | 1..1 | SHALL |  | [86-22434](#C_86-22434) |  |
| id | 1..1 | SHALL |  | [86-22435](#C_86-22435) |  |
| @nullFlavor | 1..1 | SHALL |  | [86-22436](#C_86-22436) | NA |
| participant | 1..1 | SHALL |  | [86-22437](#C_86-22437) |  |
| @typeCode | 1..1 | SHALL |  | [86-22438](#C_86-22438) | urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = SBJ |
| @contextControlCode | 1..1 | SHALL | CS | [86-22439](#C_86-22439) | urn:oid:2.16.840.1.113883.5.1057 (HL7ContextControl) = OP |
| associatedEntity | 1..1 | SHALL |  | [86-22440](#C_86-22440) |  |
| @classCode | 1..1 | SHALL |  | [86-22441](#C_86-22441) | urn:oid:2.16.840.1.113883.5.41 (HL7EntityClass) = PRS |
| code | 1..1 | SHALL |  | [86-22442](#C_86-22442) |  |
| @code | 1..1 | SHALL |  | [86-22443](#C_86-22443) | urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 389109008 |
| participant | 1..1 | SHALL |  | [86-22444](#C_86-22444) |  |
| @typeCode | 1..1 | SHALL |  | [86-22445](#C_86-22445) | urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = LOC |
| associatedEntity | 1..1 | SHALL |  | [86-22447](#C_86-22447) |  |
| @classCode | 1..1 | SHALL |  | [86-22448](#C_86-22448) | urn:oid:2.16.840.1.113883.5.110 (HL7RoleClass) = SDLOC |
| id | 1..1 | SHALL |  | [86-22449](#C_86-22449) |  |
| @root | 1..1 | SHALL |  | [86-22450](#C_86-22450) |  |
| documentationOf | 1..1 | SHALL |  | [86-22451](#C_86-22451) |  |
| serviceEvent | 1..1 | SHALL |  | [86-22452](#C_86-22452) |  |
| @classCode | 1..1 | SHALL |  | [86-22453](#C_86-22453) | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = CASE |
| code | 1..1 | SHALL |  | [86-22454](#C_86-22454) | urn:oid:2.16.840.1.114222.4.11.3595 (NHSNPopulationSummaryReportTypeCode) |
| effectiveTime | 1..1 | SHALL |  | [86-22456](#C_86-22456) |  |
| low | 1..1 | SHALL |  | [86-22457](#C_86-22457) |  |
| high | 1..1 | SHALL |  | [86-22458](#C_86-22458) |  |

1. Conforms to [Healthcare Associated Infection Report](#D_Healthcare_Associated_Infection_Repor) template (identifier: urn:oid:2.16.840.1.113883.10.20.5.4.25).
2. SHALL contain exactly one [1..1] templateId (CONF:86-22431) such that it
   1. SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.5.4.28" (CONF:86-22432).
3. SHALL contain exactly one [1..1] recordTarget (CONF:86-22433).
   1. This recordTarget SHALL contain exactly one [1..1] patientRole (CONF:86-22434).
      1. This patientRole SHALL contain exactly one [1..1] id (CONF:86-22435).
         1. This id SHALL contain exactly one [1..1] @nullFlavor="NA" not applicable (CONF:86-22436).
4. SHALL contain exactly one [1..1] participant (CONF:86-22437) such that it
   1. SHALL contain exactly one [1..1] @typeCode="SBJ" Subject (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC) (CONF:86-22438).
   2. SHALL contain exactly one [1..1] @contextControlCode="OP" (CodeSystem: HL7ContextControl urn:oid:2.16.840.1.113883.5.1057 STATIC) (CONF:86-22439).
   3. SHALL contain exactly one [1..1] associatedEntity (CONF:86-22440).
      1. This associatedEntity SHALL contain exactly one [1..1] @classCode="PRS" Person (CodeSystem: HL7EntityClass urn:oid:2.16.840.1.113883.5.41 STATIC) (CONF:86-22441).
      2. This associatedEntity SHALL contain exactly one [1..1] code (CONF:86-22442).
         1. This code SHALL contain exactly one [1..1] @code="389109008" Group (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC) (CONF:86-22443).
5. SHALL contain exactly one [1..1] participant (CONF:86-22444) such that it
   1. SHALL contain exactly one [1..1] @typeCode="LOC" Location (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC) (CONF:86-22445).
   2. SHALL contain exactly one [1..1] associatedEntity (CONF:86-22447).
      1. This associatedEntity SHALL contain exactly one [1..1] @classCode="SDLOC" Service delivery location (CodeSystem: HL7RoleClass urn:oid:2.16.840.1.113883.5.110 STATIC) (CONF:86-22448).
      2. This associatedEntity SHALL contain exactly one [1..1] id (CONF:86-22449).

The value of @root must be the NHSN assigned Facility OID.

* + - 1. This id SHALL contain exactly one [1..1] @root (CONF:86-22450).

1. SHALL contain exactly one [1..1] documentationOf (CONF:86-22451).
   1. This documentationOf SHALL contain exactly one [1..1] serviceEvent (CONF:86-22452).
      1. This serviceEvent SHALL contain exactly one [1..1] @classCode="CASE" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC) (CONF:86-22453).
      2. This serviceEvent SHALL contain exactly one [1..1] code, which SHALL be selected from ValueSet [NHSNPopulationSummaryReportTypeCode](#NHSNPopulationSummaryReportTypeCode) urn:oid:2.16.840.1.114222.4.11.3595 DYNAMIC (CONF:86-22454).
      3. This serviceEvent SHALL contain exactly one [1..1] effectiveTime (CONF:86-22456).
         1. This effectiveTime SHALL contain exactly one [1..1] low (CONF:86-22457).
         2. This effectiveTime SHALL contain exactly one [1..1] high (CONF:86-22458).
2. The author SHALL represent the software forming the message (CONF:86-22459).

Table 4: NHSNPopulationSummaryReportTypeCode

|  |  |  |  |
| --- | --- | --- | --- |
| Value Set: NHSNPopulationSummaryReportTypeCode urn:oid:2.16.840.1.114222.4.11.3595  (Clinical Focus: NHSN surveillance reporting: This value set contains codes describing the type of population summary report.),(Data Element Scope: A code describing the population category associated with the data being reported.),(Inclusion Criteria: ),(Exclusion Criteria: )  This value set was imported on 9/16/2020 with a version of Latest.  Value Set Source: <https://vsac.nlm.nih.gov/valueset/2.16.840.1.114222.4.11.3595/expansion> | | | |
| Code | Code System | Code System OID | Print Name |
| 1657-6 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Summary data reporting outpatient procedure component events at a facility |
| 1879-6 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Summary data reporting catheter and ventilator use in a ICU/other |
| 1880-4 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Summary data reporting catheter and ventilator use in a SCA |
| 1881-2 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Summary data reporting catheter and ventilator use in a NICU |
| 1884-6 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Summary data reporting active surveillance testing (AST) |
| 1887-9 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Summary data reporting antimicrobial usage |
| 1891-1 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Summary data reporting MDRO and CDI LabID Event for LTCF |
| 2316-8 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Summary data reporting vascular access types for chronic hemodialysis patients |
| 2410-9 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Summary data reporting antimicrobial resistance patterns at a facility |
| 2543-7 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Hemovigilance module - monthly reporting denominator |
| ... | | | |

LTCF Monthly Summary Data for MDRO, CDI, UTI, and Prevention Process Measures (V2)

[ClinicalDocument: identifier urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.2:2023-02-01 (closed)]

Draft as part of NHSN Healthcare Associated Infection (HAI) Report for Long Term Care Facilities (LTCF), Release 1, STU 1.1 - US Realm

Table 5: LTCF Monthly Summary Data for MDRO, CDI, UTI, and Prevention Process Measures (V2) Contexts

| Contained By: | Contains: |
| --- | --- |
|  | [Report No Events Section](#S_Report_No_Events_Section) (optional)  [Summary Data Section LTCF (V2)](#S_Summary_Data_Section_LTCF_V2) (required) |

This report records the monthly aggregate data for Multi-drug Resistant Organisms (MDRO) and Clostridioides difficile infection (CDI). It includes summary data observations and should be completed even if 'no events’ were reported for the month. The summary data are not required if there is no monthly reporting plan for a given month.

Facility id is required and represents the reporting facility, the location to which the data pertain and its associated Monthly Summary Report information. The first and last day of the period (month) being reported are required.

This template represents the following forms:

* Denominators for LTCF [(CDC 57.142)](https://www.cdc.gov/nhsn/forms/57.142_DenominatorLTCF_BLANK.pdf)
* MDRO and CDI Monthly Monitoring for LTCF [(CDC 57.139)](https://www.cdc.gov/nhsn/forms/57.139_MDROMonthlyReporting_LTCF_BLANK.pdf)
* Prevention Process Measures Form for LTCF [(CDC 57.143)](https://www.cdc.gov/nhsn/forms/57.143_ProcessMeasureSummaryforLTCF_BLANK.pdf)

For further details on reporting healthcare-associated infections in long-term care facilities see the NHSN website (<https://www.cdc.gov/nhsn/>).

Table 6: LTCF Monthly Summary Data for MDRO, CDI, UTI, and Prevention Process Measures (V2) Constraints Overview

| XPath | Card. | Verb | Data Type | CONF# | Value |
| --- | --- | --- | --- | --- | --- |
| ClinicalDocument (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.2:2023-02-01) | | | | | |
| templateId | 1..1 | SHALL |  | [4544-31201](#C_4544-31201) |  |
| @root | 1..1 | SHALL |  | [4544-31202](#C_4544-31202) | 2.16.840.1.113883.10.20.5.1.1.2 |
| @extension | 1..1 | SHALL |  | [4544-31203](#C_4544-31203) | 2023-02-01 |
| title | 1..1 | SHALL |  | [4544-31248](#C_4544-31248) |  |
| participant | 1..1 | SHALL |  | [4544-31268](#C_4544-31268) |  |
| associatedEntity | 1..1 | SHALL |  | [4544-31269](#C_4544-31269) |  |
| id | 1..1 | SHALL |  | [4544-31273](#C_4544-31273) |  |
| @root | 1..1 | SHALL |  | [4544-31428](#C_4544-31428) |  |
| @extension | 1..1 | SHALL |  | [4544-31429](#C_4544-31429) | FACWIDEIN |
| participant | 1..1 | SHALL |  | [4544-31270](#C_4544-31270) |  |
| associatedEntity | 1..1 | SHALL |  | [4544-31271](#C_4544-31271) |  |
| code | 1..1 | SHALL |  | [4544-31272](#C_4544-31272) |  |
| @code | 1..1 | SHALL |  | [4544-31274](#C_4544-31274) | urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 389109008 |
| documentationOf | 1..1 | SHALL |  | [4544-31262](#C_4544-31262) |  |
| serviceEvent | 1..1 | SHALL |  | [4544-31263](#C_4544-31263) |  |
| code | 1..1 | SHALL |  | [4544-31391](#C_4544-31391) |  |
| @code | 1..1 | SHALL |  | [4544-31392](#C_4544-31392) | 1891-1 |
| @codeSystem | 1..1 | SHALL |  | [4544-31393](#C_4544-31393) | urn:oid:2.16.840.1.113883.6.277 (CDCNHSN) |
| effectiveTime | 1..1 | SHALL |  | [4544-31264](#C_4544-31264) |  |
| low | 1..1 | SHALL |  | [4544-31266](#C_4544-31266) |  |
| high | 1..1 | SHALL |  | [4544-31267](#C_4544-31267) |  |
| component | 1..1 | SHALL |  | [4544-31197](#C_4544-31197) |  |
| structuredBody | 1..1 | SHALL |  | [4544-31198](#C_4544-31198) |  |
| component | 1..1 | SHALL |  | [4544-31199](#C_4544-31199) |  |
| section | 1..1 | SHALL |  | [4544-31200](#C_4544-31200) | [Summary Data Section LTCF (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.2.3:2023-02-01](#S_Summary_Data_Section_LTCF_V2) |
| component | 0..1 | MAY |  | [4544-31245](#C_4544-31245) |  |
| section | 1..1 | SHALL |  | [4544-31246](#C_4544-31246) | [Report No Events Section (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.5.62:2018-04-01](#S_Report_No_Events_Section) |

1. Conforms to [HAI Population Summary Report Generic Constraints](#D_HAI_Population_Summary_Report_Generic) template (identifier: urn:oid:2.16.840.1.113883.10.20.5.4.28).
2. SHALL contain exactly one [1..1] templateId (CONF:4544-31201) such that it
   1. SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.5.1.1.2" (CONF:4544-31202).
   2. SHALL contain exactly one [1..1] @extension="2023-02-01" (CONF:4544-31203).

Preferred document title: "MDRO and CDI LabID Event Reporting Monthly Summary Data for LTCF"

1. SHALL contain exactly one [1..1] title (CONF:4544-31248).
2. SHALL contain exactly one [1..1] participant (CONF:4544-31268) such that it
   1. SHALL contain exactly one [1..1] associatedEntity (CONF:4544-31269).
      1. This associatedEntity SHALL contain exactly one [1..1] id (CONF:4544-31273).

The value of @root must be the NHSN assigned facility OID.

* + - 1. This id SHALL contain exactly one [1..1] @root (CONF:4544-31428).  
         Note: Facility ID
      2. This id SHALL contain exactly one [1..1] @extension="FACWIDEIN" (CONF:4544-31429).  
         Note: Location code

1. SHALL contain exactly one [1..1] participant (CONF:4544-31270) such that it
   1. SHALL contain exactly one [1..1] associatedEntity (CONF:4544-31271).
      1. This associatedEntity SHALL contain exactly one [1..1] code (CONF:4544-31272).
         1. This code SHALL contain exactly one [1..1] @code="389109008" Group (social concept) (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:4544-31274).
2. SHALL contain exactly one [1..1] documentationOf (CONF:4544-31262).
   1. This documentationOf SHALL contain exactly one [1..1] serviceEvent (CONF:4544-31263).
      1. This serviceEvent SHALL contain exactly one [1..1] code (CONF:4544-31391).
         1. This code SHALL contain exactly one [1..1] @code="1891-1" MDRO and CDI LabID Event Reporting Monthly Summary Data for LTCF (CONF:4544-31392).
         2. This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.277" (CodeSystem: CDCNHSN urn:oid:2.16.840.1.113883.6.277 STATIC) (CONF:4544-31393).
      2. This serviceEvent SHALL contain exactly one [1..1] effectiveTime (CONF:4544-31264).
         1. This effectiveTime SHALL contain exactly one [1..1] low (CONF:4544-31266).  
            Note: First day of the reporting month
         2. This effectiveTime SHALL contain exactly one [1..1] high (CONF:4544-31267).  
            Note: Last day in the reporting month
3. SHALL contain exactly one [1..1] component (CONF:4544-31197).
   1. This component SHALL contain exactly one [1..1] structuredBody (CONF:4544-31198).
      1. This structuredBody SHALL contain exactly one [1..1] component (CONF:4544-31199) such that it
         1. SHALL contain exactly one [1..1] [Summary Data Section LTCF (V2)](#S_Summary_Data_Section_LTCF_V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.2.3:2023-02-01) (CONF:4544-31200).
      2. This structuredBody MAY contain zero or one [0..1] component (CONF:4544-31245) such that it
         1. SHALL contain exactly one [1..1] [Report No Events Section](#S_Report_No_Events_Section) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.5.62:2018-04-01) (CONF:4544-31246).

Figure 2: LTCF Monthly Summary Data for MDRO, CDI, UTI, and Prevention Process Measures (V2) Example

<ClinicalDocument>

<!-- This is a population-summary report. -->

<realmCode code="US" />

<typeId root="2.16.840.1.113883.1.3" extension="POCD\_HD000040" />

<!-- [HAI Normative R1] Healthcare Associated Infection Report -->

<templateId root="2.16.840.1.113883.10.20.5.4.25" />

<!-- [HAI Normative R1] HAI Population Summary Report Generic Constraints -->

<templateId root="2.16.840.1.113883.10.20.5.4.28" />

<!-- [HAI LTCF R1D2] LTCF Monthly Summary Data for MDRO, CDI, UTI, and Prevention Process Measures (V2) -->

<templateId root="2.16.840.1.113883.10.20.5.1.1.2" extension="2023-02-01" />

<!-- Document ID (extension) is scoped by vendor/software -->

<id root="2.16.840.1.113883.3.117.1.1.5.2.1.1.2" extension="20202201" />

<code codeSystem="2.16.840.1.113883.6.1"

codeSystemName="LOINC" code="51897-7"

displayName="Healthcare Associated Infection Report" />

<title>LTCF Monthly Summary Data for MDRO, CDI, UTI, and Prevention Process Measures</title>

<!-- Document-creation date -->

<effectiveTime value="20190201" />

<confidentialityCode codeSystem="2.16.840.1.113883.5.25" code="N" />

<languageCode code="en-US" />

<setId root="2.16.840.1.113883.3.117.1.1.5.2.1.1.1" extension="33" />

<!-- the original -->

<versionNumber value="1" />

<recordTarget>

<patientRole>

<!-- This is a population summary report -->

<id nullFlavor="NA" />

</patientRole>

</recordTarget>

<!-- The author of a population summary report is the software forming the message. -->

<author>

...

</author>

<!-- The custodian of the CDA document is NHSN -->

<custodian>

...

</custodian>

<!-- Legal authenticator is scoped by facility -->

<legalAuthenticator>

...

</legalAuthenticator>

<!-- The location participant (facility) -->

<participant typeCode="LOC" contextControlCode="OP">

<associatedEntity classCode="SDLOC">

<!--root is ID of facility -->

<!-- extension is the location code 'FACWIDEIN' -->

<id root="2.16.840.1.113883.3.117.1.1.5.1.1" extension="FACWIDEIN"/>

</associatedEntity>

</participant>

<!-- The group participant in a population-summary report-->

<participant typeCode="SBJ" contextControlCode="OP">

<associatedEntity classCode="PRS">

<code codeSystem="2.16.840.1.113883.6.96"

code="389109008" displayName="group" />

</associatedEntity>

</participant>

<!-- The period reported -->

<documentationOf>

<serviceEvent classCode="CASE">

<code codeSystem="2.16.840.1.113883.6.277" codeSystemName="cdcNHSN"

code="1891-1"

displayName="Summary data reporting MDRO and CDI LabID Event Monthly Summary Data for LTCF" />

<effectiveTime>

<!-- the first day of the period reported -->

<low value="20190101" />

<!-- the last day of the period reported -->

<high value="20190131" />

</effectiveTime>

</serviceEvent>

</documentationOf>

<!-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Structured Body

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* -->

<component>

<structuredBody>

<!-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Summary Data Section LTCF (V2)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* -->

<component>

<section>

<!-- HAI Section Generic Constraints -->

<templateId root="2.16.840.1.113883.10.20.5.4.26" />

<!-- Summary Data Section LTCF (V2)-->

<templateId root="2.16.840.1.113883.10.20.5.1.2.3"

extension="2023-02-01" />

...

</section>

</component>

<!--

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Report No Events Section

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-->

<component>

<section>

<!-- [HAI Normative R1] HAI Section Generic Constraints -->

<templateId root="2.16.840.1.113883.10.20.5.4.26" />

<!-- [HAI R2D1] Report No Events Section -->

<templateId root="2.16.840.1.113883.10.20.5.5.62"

extension="2018-04-01" />

...

</section>

</component>

</structuredBody>

</component>

</ClinicalDocument>

HAI Single-Person Report Generic Constraints LTCF (V2)

[ClinicalDocument: identifier urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.3:2023-02-01 (open)]

Draft as part of NHSN Healthcare Associated Infection (HAI) Report for Long Term Care Facilities (LTCF), Release 1, STU 1.1 - US Realm

This template records the constraints for HAI LTCF single-person reports. It is used by all numerator reports covered by this guide.

A single-person report must conform to the Healthcare Associated Infection Report template. In addition, key data about the resident are recorded in the recordTarget element.

* A resident identifier representing the facility-assigned resident ID is required. Other identifiers for the person can also be present, such as a Medicare beneficiary identifier (id/@root = 2.16.840.1.113883.4.338), and resident ID (id/@root = the appropriate facility OID for resident ID).
* The resident name is optional; consult the NHSN reporting protocol and requirements.
* Resident gender and birthdate are required.
* Resident race is optional and multiple races can be recorded, to represent an unknown race, set nullFlavor="UNK", to represent "declined to respond", set nullFlavor="ASKU".
* Resident ethnicity is optional, to represent an unknown ethnicity, set nullFlavor="UNK", to represent "declined to respond", set nullFlavor="ASKU".

The report-specific requirements specify the encounter data to record for each single-person report type. These data always include an identifier for the reporting facility, and usually include the encounter type, the admission date or encounter date, and the facility unit identifier and type.

Note: The section on “Template Ids in this Guide” includes a containment table showing all the entries within each report type.

Table 7: HAI Single-Person Report Generic Constraints LTCF (V2) Constraints Overview

| XPath | Card. | Verb | Data Type | CONF# | Value |
| --- | --- | --- | --- | --- | --- |
| ClinicalDocument (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.3:2023-02-01) | | | | | |
| templateId | 1..1 | SHALL |  | [4544-31399](#C_4544-31399) |  |
| @root | 1..1 | SHALL |  | [4544-31406](#C_4544-31406) | 2.16.840.1.113883.10.20.5.1.1.3 |
| @extension | 1..1 | SHALL |  | [4544-31415](#C_4544-31415) | 2023-02-01 |
| recordTarget | 1..1 | SHALL |  | [4544-31400](#C_4544-31400) |  |
| patientRole | 1..1 | SHALL |  | [4544-31401](#C_4544-31401) |  |
| id | 1..\* | SHALL |  | [4544-31402](#C_4544-31402) |  |
| @root | 1..1 | SHALL |  | [4544-31407](#C_4544-31407) |  |
| @extension | 1..1 | SHALL |  | [4544-31408](#C_4544-31408) |  |
| patient | 1..1 | SHALL |  | [4544-31403](#C_4544-31403) |  |
| name | 0..1 | MAY |  | [4544-31409](#C_4544-31409) | US Realm Patient Name (PTN.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1 |
| administrativeGenderCode | 1..1 | SHALL |  | [4544-31404](#C_4544-31404) |  |
| @code | 1..1 | SHALL |  | [4544-31410](#C_4544-31410) | urn:oid:2.16.840.1.113883.1.11.1 (Administrative Gender (HL7 V3)) |
| birthTime | 1..1 | SHALL |  | [4544-31405](#C_4544-31405) |  |
| @value | 1..1 | SHALL |  | [4544-31411](#C_4544-31411) |  |
| raceCode | 0..1 | MAY |  | [4544-31412](#C_4544-31412) | urn:oid:2.16.840.1.114222.4.11.7232 (NHSNRaceCategory) |
| @nullFlavor | 0..1 | MAY |  | [4544-31417](#C_4544-31417) | urn:oid:2.16.840.1.113762.1.4.1021.102 (Unknown or refused to answer) |
| sdtc:raceCode | 0..\* | MAY |  | [4544-31416](#C_4544-31416) | urn:oid:2.16.840.1.114222.4.11.7232 (NHSNRaceCategory) |
| ethnicGroupCode | 0..1 | MAY |  | [4544-31413](#C_4544-31413) | urn:oid:2.16.840.1.114222.4.11.837 (Ethnicity) |
| @nullFlavor | 0..1 | MAY |  | [4544-31418](#C_4544-31418) | urn:oid:2.16.840.1.113762.1.4.1021.102 (Unknown or refused to answer) |

1. Conforms to [Healthcare Associated Infection Report](#D_Healthcare_Associated_Infection_Repor) template (identifier: urn:oid:2.16.840.1.113883.10.20.5.4.25).
2. SHALL contain exactly one [1..1] templateId (CONF:4544-31399) such that it
   1. SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.5.1.1.3" (CONF:4544-31406).
   2. SHALL contain exactly one [1..1] @extension="2023-02-01" (CONF:4544-31415).
3. SHALL contain exactly one [1..1] recordTarget (CONF:4544-31400).
   1. This recordTarget SHALL contain exactly one [1..1] patientRole (CONF:4544-31401).
      1. This patientRole SHALL contain at least one [1..\*] id (CONF:4544-31402).  
         Note: Resident ID, SSN, Medicare beneficiary ID, alternate IDs
         1. Such ids SHALL contain exactly one [1..1] @root (CONF:4544-31407).
         2. Such ids SHALL contain exactly one [1..1] @extension (CONF:4544-31408).
      2. This patientRole SHALL contain exactly one [1..1] patient (CONF:4544-31403) such that it
         1. MAY contain zero or one [0..1] US Realm Patient Name (PTN.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1) (CONF:4544-31409).
         2. SHALL contain exactly one [1..1] administrativeGenderCode (CONF:4544-31404).
            1. This administrativeGenderCode SHALL contain exactly one [1..1] @code, which SHALL be selected from ValueSet [Administrative Gender (HL7 V3)](#Administrative_Gender_HL7_V3) urn:oid:2.16.840.1.113883.1.11.1 DYNAMIC (CONF:4544-31410).
         3. SHALL contain exactly one [1..1] birthTime (CONF:4544-31405).
            1. This birthTime SHALL contain exactly one [1..1] @value (CONF:4544-31411).
         4. MAY contain zero or one [0..1] raceCode, which SHALL be selected from ValueSet [NHSNRaceCategory](#NHSNRaceCategory) urn:oid:2.16.840.1.114222.4.11.7232 DYNAMIC (CONF:4544-31412).

To represent unknown, set nullFlavor="UNK". To represent "declined to respond", set nullFlavor="ASKU".

* + - * 1. The raceCode, if present, MAY contain zero or one [0..1] @nullFlavor, which SHOULD be selected from ValueSet [Unknown or refused to answer](#Unknown_or_refused_to_answer) urn:oid:2.16.840.1.113762.1.4.1021.102 DYNAMIC (CONF:4544-31417).
      1. MAY contain zero or more [0..\*] sdtc:raceCode, which SHALL be selected from ValueSet [NHSNRaceCategory](#NHSNRaceCategory) urn:oid:2.16.840.1.114222.4.11.7232 DYNAMIC (CONF:4544-31416).
      2. MAY contain zero or one [0..1] ethnicGroupCode (ValueSet: [Ethnicity](#Ethnicity) urn:oid:2.16.840.1.114222.4.11.837 DYNAMIC) (CONF:4544-31413).

To represent unknown, set nullFlavor="UNK". To represent "declined to respond", set nullFlavor="ASKU".

* + - * 1. The ethnicGroupCode, if present, MAY contain zero or one [0..1] @nullFlavor, which SHOULD be selected from ValueSet [Unknown or refused to answer](#Unknown_or_refused_to_answer) urn:oid:2.16.840.1.113762.1.4.1021.102 DYNAMIC (CONF:4544-31418).

1. The author MAY be software or MAY be a person in the role of infection control professional (ICP) (CONF:4544-31414).

Table 8: Administrative Gender (HL7 V3)

|  |  |  |  |
| --- | --- | --- | --- |
| Value Set: Administrative Gender (HL7 V3) urn:oid:2.16.840.1.113883.1.11.1  (Clinical Focus: The gender of a person used for adminstrative purposes (as opposed to clinical gender)),(Data Element Scope: ),(Inclusion Criteria: All codes in the Hl7 V3 AdministrativeGender code system),(Exclusion Criteria: )  This value set was imported on 9/29/2020 with a version of Latest.  Value Set Source: <https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.1/expansion> | | | |
| Code | Code System | Code System OID | Print Name |
| F | Administrative Gender | urn:oid:2.16.840.1.113883.5.1 | Female |
| M | Administrative Gender | urn:oid:2.16.840.1.113883.5.1 | Male |
| UN | Administrative Gender | urn:oid:2.16.840.1.113883.5.1 | Undifferentiated |

Table 9: NHSNRaceCategory

|  |  |  |  |
| --- | --- | --- | --- |
| Value Set: NHSNRaceCategory urn:oid:2.16.840.1.114222.4.11.7232  (Clinical Focus: This value set contains codes describing race.),(Data Element Scope: A code classifying the person into a named category of humans sharing common history, traits, geographical origin or nationality. (source: HL7 V3 RIM).),(Inclusion Criteria: ),(Exclusion Criteria: )  This value set was imported on 9/16/2020 with a version of Latest.  Value Set Source: <https://vsac.nlm.nih.gov/valueset/2.16.840.1.114222.4.11.7232/expansion> | | | |
| Code | Code System | Code System OID | Print Name |
| 1002-5 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.238 | American Indian or Alaska Native |
| 2028-9 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.238 | Asian |
| 2054-5 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.238 | Black or African American |
| 2076-8 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.238 | Native Hawaiian or Other Pacific Islander |
| 2106-3 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.238 | White |

Table 10: Ethnicity

|  |  |  |  |
| --- | --- | --- | --- |
| Value Set: Ethnicity urn:oid:2.16.840.1.114222.4.11.837  (Clinical Focus: ),(Data Element Scope: ),(Inclusion Criteria: ),(Exclusion Criteria: )  This value set was imported on 10/14/2020 with a version of Latest.  Value Set Source: <https://vsac.nlm.nih.gov/valueset/2.16.840.1.114222.4.11.837/expansion> | | | |
| Code | Code System | Code System OID | Print Name |
| 2135-2 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.238 | Hispanic or Latino |
| 2186-5 | Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.238 | Not Hispanic or Latino |

Table 11: Unknown or refused to answer

|  |  |  |  |
| --- | --- | --- | --- |
| Value Set: Unknown or refused to answer urn:oid:2.16.840.1.113762.1.4.1021.102  (Clinical Focus: Codes used to represent unknown and refused to answer),(Data Element Scope: ),(Inclusion Criteria: ),(Exclusion Criteria: )  This value set was imported on 2/20/2023 with a version of Latest.  Value Set Source: <https://vsac.nlm.nih.gov/valueset/2.16.840.1.113762.1.4.1021.102/expansion> | | | |
| Code | Code System | Code System OID | Print Name |
| ASKU | HL7NullFlavor | urn:oid:2.16.840.1.113883.5.1008 | asked but unknown |
| UNK | HL7NullFlavor | urn:oid:2.16.840.1.113883.5.1008 | unknown |

Laboratory Identified MDRO or CDI Event Report for LTCF (V2)

[ClinicalDocument: identifier urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.1:2023-02-01 (closed)]

Draft as part of NHSN Healthcare Associated Infection (HAI) Report for Long Term Care Facilities (LTCF), Release 1, STU 1.1 - US Realm

Table 12: Laboratory Identified MDRO or CDI Event Report for LTCF (V2) Contexts

| Contained By: | Contains: |
| --- | --- |
|  | [NHSN Comment Section](#S_NHSN_Comment_Section) (optional)  [Findings Section in a Laboratory Identified Report LTCF](#S_Findings_Section_in_a_Laboratory_Iden) (required)  [Encounters Section in an LTCF Report](#S_Encounters_Section_in_an_LTCF_Report) (required) |

This report records the laboratory identification of a MDRO or CDI. These reports are submitted if the LTCF is monitoring the organism specified. Each report records a single event as indicated by the NHSN protocol.

Information regarding the resident's care location, type of primary service, and date of current admission are found in the header of this document.

This template represents the Laboratory-identified MDRO or CDI Event for LTCF form (CDC 57.138). It records the laboratory identification of key encounter data in the report such as:

* The date of the current admission to the facility location where the specimen was collected is required and is recorded in encompassingEncounter/effectiveTime.
* The date of specimen collection is recorded in effectiveTime in the Specimen Collection Procedure LTCF template.

Key Finding data in this report includes:

* Information on the type of organism, the body site from which it was collected, and the date in which it was collected.

For further details on reporting C. difficile Infection (CDI) and Multidrug Resistant Organism (MDRO) LabID events in long-term care facilities see the NHSN website (<https://www.cdc.gov/nhsn/>).

Table 13: Laboratory Identified MDRO or CDI Event Report for LTCF (V2) Constraints Overview

| XPath | Card. | Verb | Data Type | CONF# | Value |
| --- | --- | --- | --- | --- | --- |
| ClinicalDocument (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.1:2023-02-01) | | | | | |
| templateId | 1..1 | SHALL |  | [4544-30990](#C_4544-30990) |  |
| @root | 1..1 | SHALL |  | [4544-30998](#C_4544-30998) | 2.16.840.1.113883.10.20.5.1.1.1 |
| @extension | 1..1 | SHALL |  | [4544-30999](#C_4544-30999) | 2023-02-01 |
| title | 1..1 | SHALL |  | [4544-31247](#C_4544-31247) |  |
| componentOf | 1..1 | SHALL |  | [4544-30977](#C_4544-30977) |  |
| encompassingEncounter | 1..1 | SHALL |  | [4544-30978](#C_4544-30978) |  |
| effectiveTime | 1..1 | SHALL |  | [4544-30979](#C_4544-30979) |  |
| low | 1..1 | SHALL |  | [4544-31427](#C_4544-31427) |  |
| location | 1..1 | SHALL |  | [4544-30981](#C_4544-30981) |  |
| healthCareFacility | 1..1 | SHALL |  | [4544-30982](#C_4544-30982) |  |
| id | 1..1 | SHALL |  | [4544-30983](#C_4544-30983) |  |
| @root | 1..1 | SHALL |  | [4544-30996](#C_4544-30996) |  |
| @extension | 1..1 | SHALL |  | [4544-31360](#C_4544-31360) |  |
| code | 1..1 | SHALL |  | [4544-31361](#C_4544-31361) | urn:oid:2.16.840.1.113883.10.20.5.1.5.9.3 (NHSNPrimaryResidentServiceType) |
| component | 1..1 | SHALL |  | [4544-30984](#C_4544-30984) |  |
| structuredBody | 1..1 | SHALL |  | [4544-30985](#C_4544-30985) |  |
| component | 1..1 | SHALL |  | [4544-30986](#C_4544-30986) |  |
| section | 1..1 | SHALL |  | [4544-30987](#C_4544-30987) | [Findings Section in a Laboratory Identified Report LTCF (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.2.1:2019-08-01](#S_Findings_Section_in_a_Laboratory_Iden) |
| component | 1..1 | SHALL |  | [4544-30988](#C_4544-30988) |  |
| section | 1..1 | SHALL |  | [4544-30989](#C_4544-30989) | [Encounters Section in an LTCF Report (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.2.2:2019-08-01](#S_Encounters_Section_in_an_LTCF_Report) |
| component | 0..1 | MAY |  | [4544-31419](#C_4544-31419) |  |
| section | 1..1 | SHALL |  | [4544-31420](#C_4544-31420) | [NHSN Comment Section (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.5.61:2017-04-01](#S_NHSN_Comment_Section) |

1. Conforms to [HAI Single-Person Report Generic Constraints LTCF (V2)](#D_HAI_SinglePerson_Report_Gen_LTCF_V2) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.3:2023-02-01).
2. SHALL contain exactly one [1..1] templateId (CONF:4544-30990) such that it
   1. SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.5.1.1.1" (CONF:4544-30998).
   2. SHALL contain exactly one [1..1] @extension="2023-02-01" (CONF:4544-30999).

Laboratory-identified MDRO or CDI Event for LTCF

1. SHALL contain exactly one [1..1] title (CONF:4544-31247).
2. SHALL contain exactly one [1..1] componentOf (CONF:4544-30977).
   1. This componentOf SHALL contain exactly one [1..1] encompassingEncounter (CONF:4544-30978).
      1. This encompassingEncounter SHALL contain exactly one [1..1] effectiveTime (CONF:4544-30979).
         1. This effectiveTime SHALL contain exactly one [1..1] low (CONF:4544-31427).  
            Note: Date of Current Admission
      2. This encompassingEncounter SHALL contain exactly one [1..1] location (CONF:4544-30981).
         1. This location SHALL contain exactly one [1..1] healthCareFacility (CONF:4544-30982).
            1. This healthCareFacility SHALL contain exactly one [1..1] id (CONF:4544-30983).

The value of @root must be the NHSN assigned facility OID.

This id SHALL contain exactly one [1..1] @root (CONF:4544-30996).  
Note: Facility ID

The value of @extension must be a value registered with NHSN.

This id SHALL contain exactly one [1..1] @extension (CONF:4544-31360).  
Note: Resident Care Location

* + - * 1. This healthCareFacility SHALL contain exactly one [1..1] code, which SHALL be selected from ValueSet [NHSNPrimaryResidentServiceType](#NHSNPrimaryResidentServiceType) urn:oid:2.16.840.1.113883.10.20.5.1.5.9.3 DYNAMIC (CONF:4544-31361).  
           Note: Primary Resident Service Type

1. SHALL contain exactly one [1..1] component (CONF:4544-30984).
   1. This component SHALL contain exactly one [1..1] structuredBody (CONF:4544-30985).
      1. This structuredBody SHALL contain exactly one [1..1] component (CONF:4544-30986) such that it
         1. SHALL contain exactly one [1..1] [Findings Section in a Laboratory Identified Report LTCF](#S_Findings_Section_in_a_Laboratory_Iden) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.2.1:2019-08-01) (CONF:4544-30987).
      2. This structuredBody SHALL contain exactly one [1..1] component (CONF:4544-30988) such that it
         1. SHALL contain exactly one [1..1] [Encounters Section in an LTCF Report](#S_Encounters_Section_in_an_LTCF_Report) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.2.2:2019-08-01) (CONF:4544-30989).
      3. This structuredBody MAY contain zero or one [0..1] component (CONF:4544-31419) such that it
         1. SHALL contain exactly one [1..1] [NHSN Comment Section](#S_NHSN_Comment_Section) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.5.61:2017-04-01) (CONF:4544-31420).

Table 14: NHSNPrimaryResidentServiceType

|  |  |  |  |
| --- | --- | --- | --- |
| Value Set: NHSNPrimaryResidentServiceType urn:oid:2.16.840.1.113883.10.20.5.1.5.9.3  (Clinical Focus: Location where service was provided for reporting laboratory identification of MDRO or CDI in LTCF to NHSN),(Data Element Scope: Code identifying the type of service location in a health care facility.),(Inclusion Criteria: ),(Exclusion Criteria: )  This value set was imported on 9/16/2020 with a version of Latest.  Value Set Source: <https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.10.20.5.1.5.9.3/expansion> | | | |
| Code | Code System | Code System OID | Print Name |
| 1254-2 | HSLOC | urn:oid:2.16.840.1.113883.6.259 | Long Term Care Facility Inpatient Hospice Unit |
| 1255-9 | HSLOC | urn:oid:2.16.840.1.113883.6.259 | Long Term Care Facility Dementia Unit |
| 1256-7 | HSLOC | urn:oid:2.16.840.1.113883.6.259 | Long Term Care Facility Psychiatric Unit |
| 1257-5 | HSLOC | urn:oid:2.16.840.1.113883.6.259 | Long Term Care Facility Skilled Nursing-Short Term Rehabilitation Unit |
| 1258-3 | HSLOC | urn:oid:2.16.840.1.113883.6.259 | Long Term Care Facility General Nursing Unit |
| 1259-1 | HSLOC | urn:oid:2.16.840.1.113883.6.259 | Long Term Care Facility Ventilator Dependent Unit |
| 1260-9 | HSLOC | urn:oid:2.16.840.1.113883.6.259 | Long Term Care Facility Bariatric Unit |

Figure 3: Laboratory Identified MDRO or CDI Event Report LTCF (V2) Example

<ClinicalDocument>

<!-- This is a single-person report. -->

<realmCode code="US" />

<typeId root="2.16.840.1.113883.1.3" extension="POCD\_HD000040" />

<!-- [HAI Normative R1] Conformant to Healthcare Associated Infection Report -->

<templateId root="2.16.840.1.113883.10.20.5.4.25" />

<!-- [HAI LTCF R1STU2] Conformant to HAI Single-Person Report Generic Constraints LTCF (V2) -->

<templateId root="2.16.840.1.113883.10.20.5.1.1.3" extension="2023-02-01" />

<!-- [HAI LTCF R1D1] Conformant to Laboratory Identified MDRO or CDI Event Report for LTCF (V2) -->

<templateId root="2.16.840.1.113883.10.20.5.1.1.1" extension="2023-02-01" />

<!-- Document ID (extension) is scoped by vendor/software -->

<id root="2.16.840.1.113883.3.117.1.1.5.2.1.1.2" extension="20202201" />

<code codeSystem="2.16.840.1.113883.6.1"

codeSystemName="LOINC"

code="51897-7"

displayName="Healthcare Associated Infection Report" />

<title>Laboratory-identified MDRO or CDI Event for LTCF</title>

<effectiveTime value="20190129" />

<confidentialityCode codeSystem="2.16.840.1.113883.5.25" code="N" />

<languageCode code="en-US" />

<setId root="2.16.840.1.113883.3.117.1.1.5.2.1.1.1" extension="31" />

<!-- the original -->

<versionNumber value="1" />

<recordTarget>

<patientRole>

<!-- Resident Facility ID - scoped by facility -->

<id root="2.16.840.1.113883.3.117.1.1.5.1.1.1" extension="123456" />

<!-- Resident Medicare number -->

<id root="2.16.840.1.113883.4.338" extension="111111111Z" />

<patient>

<name>

<family>Nuclear</family>

<given>Ned</given>

<given>Middle</given>

</name>

<administrativeGenderCode codeSystem="2.16.840.1.113883.5.1" code="M" />

<birthTime value="19541125" />

<!-- To represent an unknown raceCode, set nullFlavor="UNK".

To represent "declined to respond", set nullFlavor="ASKU".

See commented out example below -->

<!--<raceCode nullFlavor="ASKU "/>-->

<raceCode code="2106-3"

displayName="White"

codeSystem="2.16.840.1.113883.6.238"

codeSystemName="Race &amp; Ethnicity - CDC" />

<!-- Added ability to record multiple races -->

<sdtc:raceCode code="1002-5"

displayName="American Indian/Alaska Native"

codeSystem="2.16.840.1.113883.6.238"

codeSystemName="Race &amp; Ethnicity - CDC" />

<!-- To represent an unknown ethnicGroupCode, set nullFlavor="UNK".

To represent "declined to respond", set nullFlavor="ASKU".

See commented out example below -->

<!--<ethnicGroupCode nullFlavor="UNK" />-->

<ethnicGroupCode code="2186-5"

displayName="Not Hispanic or Latino"

codeSystem="2.16.840.1.113883.6.238"

codeSystemName="Race &amp; Ethnicity - CDC" />

</patient>

</patientRole>

</recordTarget>

<!-- Author/authenticator may be software or may be

someone in the role of "infection control professional".

This author is scoped by facility. -->

<author>

<time value="20190201" />

<assignedAuthor>

<id root="2.16.840.1.113883.3.117.1.1.5.1.1.2" extension="anAuthorID" />

</assignedAuthor>

</author>

<!-- The custodian of the CDA document is NHSN -->

<custodian>

<assignedCustodian>

<representedCustodianOrganization>

<id root="2.16.840.1.114222.4.3.2.11" />

</representedCustodianOrganization>

</assignedCustodian>

</custodian>

<!-- legal authenticator is scoped by facility -->

<legalAuthenticator>

<time value="20190201" />

<signatureCode code="S" />

<assignedEntity>

<id root="2.16.840.1.113883.3.117.1.1.5.1.1.2"

extension="aLegalAuthenticatorID" />

</assignedEntity>

</legalAuthenticator>

<componentOf>

<encompassingEncounter>

<effectiveTime>

<!-- Date of Current Admission to Facility -->

<low value="20190115" />

</effectiveTime>

<location>

<healthCareFacility>

<!-- root is the NHSN assigned facility OID/'Facility ID' -->

<!-- extension must be a value registered with NHSN/'Resident Care Location' -->

<id root="2.16.840.1.113883.3.117.1.1.5.1.1" extension="1A" />

<!-- Primary Resident Service Type -->

<code codeSystem="2.16.840.1.113883.6.277"

codeSystemName="cdcNHSN" code="1255-9"

displayName="Long Term Care Facility Dementia Unit" />

</healthCareFacility>

</location>

</encompassingEncounter>

</componentOf>

<!-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Structured Body

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* -->

<component>

<structuredBody>

<!-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Encounters Section in a LTCF Report

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* -->

<component>

<section>

<!-- [HAI Normative R1]HAI Section Generic Constraints -->

<templateId root="2.16.840.1.113883.10.20.5.4.26" />

<!-- [HAI LTCF R1D1] Encounters Section in an LTCF Report -->

<templateId root="2.16.840.1.113883.10.20.5.1.2.2" extension="2019-08-01" />

...

</section>

</component>

<!-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Findings Section in a Laboratory Identified Report LTCF

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* -->

<component>

<section>

<!-- [HAI Normative R1]HAI Section Generic Constraints -->

<templateId root="2.16.840.1.113883.10.20.5.4.26" />

<!-- [HAI LTCF R1D1] Findings Section in a Laboratory Identified Report LTCF -->

<templateId root="2.16.840.1.113883.10.20.5.1.2.1" extension="2019-08-01" />

...

</section>

</component>

</structuredBody>

</component>

</ClinicalDocument>

# Section-Level Templates

HAI Section Generic Constraints

[section: identifier urn:oid:2.16.840.1.113883.10.20.5.4.26 (closed)]

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This template records the constraints that apply to all sections specified in the NHSN HAI Implementation Guide.

Table 15: HAI Section Generic Constraints Constraints Overview

| XPath | Card. | Verb | Data Type | CONF# | Value |
| --- | --- | --- | --- | --- | --- |
| section (identifier: urn:oid:2.16.840.1.113883.10.20.5.4.26) | | | | | |
| templateId | 1..1 | SHALL |  | [86-21958](#C_86-21958) |  |
| @root | 1..1 | SHALL |  | [86-21959](#C_86-21959) | 2.16.840.1.113883.10.20.5.4.26 |
| code | 1..1 | SHALL |  | [86-21953](#C_86-21953) |  |
| @code | 1..1 | SHALL |  | [86-21954](#C_86-21954) | urn:oid:2.16.840.1.113883.6.1 (LOINC) |
| title | 1..1 | SHALL |  | [86-21955](#C_86-21955) |  |
| text | 1..1 | SHALL |  | [86-21956](#C_86-21956) |  |
| entry | 1..\* | SHALL |  | [86-21957](#C_86-21957) |  |

1. SHALL contain exactly one [1..1] templateId (CONF:86-21958) such that it
   1. SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.5.4.26" (CONF:86-21959).
2. SHALL contain exactly one [1..1] code (CONF:86-21953).
   1. This code SHALL contain exactly one [1..1] @code (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1 DYNAMIC) (CONF:86-21954).
3. SHALL contain exactly one [1..1] title (CONF:86-21955).
4. SHALL contain exactly one [1..1] text (CONF:86-21956).
5. SHALL contain at least one [1..\*] entry (CONF:86-21957).

Encounters Section in an LTCF Report

[section: identifier urn:hl7ii:2.16.840.1.113883.10.20.5.1.2.2:2019-08-01 (closed)]

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Table 16: Encounters Section in an LTCF Report Contexts

| Contained By: | Contains: |
| --- | --- |
| [Laboratory Identified MDRO or CDI Event Report for LTCF (V2)](#D_Laboratory_Identified_MDRO_or_CDI_V2) (required) | [First Admission Encounter in a Lab Identified Report LTCF](#E_First_Admission_Encounter_in_a_Lab_Id) (required)  [Transfer From Acute Care Facility to LTCF in Past Four Weeks](#E_Transfer_From_Acute_Care_Facility_to_) (required) |

This template contains entries representing the first admission date to the facility along with whether or not the resident was transferred from an acute care facility in the past four weeks.

Table 17: Encounters Section in an LTCF Report Constraints Overview

| XPath | Card. | Verb | Data Type | CONF# | Value |
| --- | --- | --- | --- | --- | --- |
| section (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.2.2:2019-08-01) | | | | | |
| templateId | 1..1 | SHALL |  | [4417-31091](#C_4417-31091) |  |
| @root | 1..1 | SHALL |  | [4417-31097](#C_4417-31097) | 2.16.840.1.113883.10.20.5.1.2.2 |
| @extension | 1..1 | SHALL |  | [4417-31098](#C_4417-31098) | 2019-08-01 |
| code | 1..1 | SHALL |  | [4417-31092](#C_4417-31092) |  |
| @code | 1..1 | SHALL |  | [4417-31099](#C_4417-31099) | 46240-8 |
| @codeSystem | 1..1 | SHALL |  | [4417-31100](#C_4417-31100) | urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1 |
| entry | 1..1 | SHALL |  | [4417-31089](#C_4417-31089) |  |
| encounter | 1..1 | SHALL |  | [4417-31090](#C_4417-31090) | [First Admission Encounter in a Lab Identified Report LTCF (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.4:2019-08-01](#E_First_Admission_Encounter_in_a_Lab_Id) |
| entry | 1..1 | SHALL |  | [4417-31093](#C_4417-31093) |  |
| observation | 1..1 | SHALL |  | [4417-31394](#C_4417-31394) | [Transfer From Acute Care Facility to LTCF in Past Four Weeks (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.5:2019-08-01](#E_Transfer_From_Acute_Care_Facility_to_) |

1. Conforms to [HAI Section Generic Constraints](#S_HAI_Section_Generic_Constraints) template (identifier: urn:oid:2.16.840.1.113883.10.20.5.4.26).
2. SHALL contain exactly one [1..1] templateId (CONF:4417-31091) such that it
   1. SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.5.1.2.2" (CONF:4417-31097).
   2. SHALL contain exactly one [1..1] @extension="2019-08-01" (CONF:4417-31098).
3. SHALL contain exactly one [1..1] code (CONF:4417-31092).
   1. This code SHALL contain exactly one [1..1] @code="46240-8" History of Encounters (CONF:4417-31099).
   2. This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:4417-31100).
4. SHALL contain exactly one [1..1] entry (CONF:4417-31089) such that it
   1. SHALL contain exactly one [1..1] [First Admission Encounter in a Lab Identified Report LTCF](#E_First_Admission_Encounter_in_a_Lab_Id) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.4:2019-08-01) (CONF:4417-31090).
5. SHALL contain exactly one [1..1] entry (CONF:4417-31093) such that it
   1. SHALL contain exactly one [1..1] [Transfer From Acute Care Facility to LTCF in Past Four Weeks](#E_Transfer_From_Acute_Care_Facility_to_) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.5:2019-08-01) (CONF:4417-31394).

Figure 4: Encounters Section in an LTCF Report Example

<section>

<!-- [HAI Normative R1]HAI Section Generic Constraints -->

<templateId root="2.16.840.1.113883.10.20.5.4.26" />

<!-- [HAI LTCF R1D1] Encounters Section in an LTCF Report -->

<templateId root="2.16.840.1.113883.10.20.5.1.2.2" extension="2019-08-01" />

<code code="46240-8" codeSystem="2.16.840.1.113883.6.1"

displayName="History of Encounters" />

<title>Encounters</title>

<text>

...

</text>

<entry typeCode="DRIV">

<encounter classCode="ENC" moodCode="EVN">

<!-- [C-CDA R2.1] Encounter Activity (V3) -->

<templateId root="2.16.840.1.113883.10.20.22.4.49" extension="2015-08-01" />

<!-- [HAI LTCF R1D1] First Admission Encounter in a Lab Identified Report LTCF -->

<templateId root="2.16.840.1.113883.10.20.5.1.3.4"

extension="2019-08-01" />

...

</encounter>

</entry>

<!-- The Resident has been transferred from an acute facility

in the past 4 weeks? = TRUE-->

<entry typeCode="DRIV">

<observation classCode="OBS" moodCode="EVN">

<!-- [HAI LTCF R1D1] Transfer From Acute Care Facility to LTCF in Past Four Weeks -->

<templateId root="2.16.840.1.113883.10.20.5.1.3.5"

extension="2019-08-01" />

...

</observation>

</entry>

</section>

Findings Section in a Laboratory Identified Report LTCF

[section: identifier urn:hl7ii:2.16.840.1.113883.10.20.5.1.2.1:2019-08-01 (closed)]

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Table 18: Findings Section in a Laboratory Identified Report LTCF Contexts

| Contained By: | Contains: |
| --- | --- |
| [Laboratory Identified MDRO or CDI Event Report for LTCF (V2)](#D_Laboratory_Identified_MDRO_or_CDI_V2) (required) | [Pathogen Identified Observation in a Lab Identified Report LTCF](#E_Pathogen_Identified_Observation_in_a_) (required) |

This template records a laboratory-identified microorganism. It records one microorganism (if more were identified, each is recorded in a separate report), and details about the specimen collection.

Table 19: Findings Section in a Laboratory Identified Report LTCF Constraints Overview

| XPath | Card. | Verb | Data Type | CONF# | Value |
| --- | --- | --- | --- | --- | --- |
| section (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.2.1:2019-08-01) | | | | | |
| templateId | 1..1 | SHALL |  | [4417-31065](#C_4417-31065) |  |
| @root | 1..1 | SHALL |  | [4417-31067](#C_4417-31067) | 2.16.840.1.113883.10.20.5.1.2.1 |
| @extension | 1..1 | SHALL |  | [4417-31068](#C_4417-31068) | 2019-08-01 |
| code | 1..1 | SHALL |  | [4417-31066](#C_4417-31066) |  |
| @code | 1..1 | SHALL |  | [4417-31069](#C_4417-31069) | 18769-0 |
| @codeSystem | 1..1 | SHALL |  | [4417-31070](#C_4417-31070) | urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1 |
| entry | 1..1 | SHALL |  | [4417-31063](#C_4417-31063) |  |
| observation | 1..1 | SHALL |  | [4417-31064](#C_4417-31064) | [Pathogen Identified Observation in a Lab Identified Report LTCF (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.3:2019-08-01](#E_Pathogen_Identified_Observation_in_a_) |

1. Conforms to [HAI Section Generic Constraints](#S_HAI_Section_Generic_Constraints) template (identifier: urn:oid:2.16.840.1.113883.10.20.5.4.26).
2. SHALL contain exactly one [1..1] templateId (CONF:4417-31065) such that it
   1. SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.5.1.2.1" (CONF:4417-31067).
   2. SHALL contain exactly one [1..1] @extension="2019-08-01" (CONF:4417-31068).
3. SHALL contain exactly one [1..1] code (CONF:4417-31066).
   1. This code SHALL contain exactly one [1..1] @code="18769-0" Findings Section (CONF:4417-31069).
   2. This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:4417-31070).
4. SHALL contain exactly one [1..1] entry (CONF:4417-31063) such that it
   1. SHALL contain exactly one [1..1] [Pathogen Identified Observation in a Lab Identified Report LTCF](#E_Pathogen_Identified_Observation_in_a_) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.3:2019-08-01) (CONF:4417-31064).

Figure 5: Findings Section in an Laboratory Identified Report LTCF Example

<section>

<!-- [HAI Normative R1] HAI Section Generic Constraints -->

<templateId root="2.16.840.1.113883.10.20.5.4.26" />

<!-- [HAI LTCF R1D1] Findings Section in a Laboratory Identified

Report LTCF -->

<templateId root="2.16.840.1.113883.10.20.5.1.2.1"

extension="2019-08-01" />

<code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"

code="18769-0" displayName="Findings" />

<title>Lab-identified organism</title>

<text>...</text>

<entry typeCode="DRIV">

<observation classCode="OBS" moodCode="EVN">

<!-- [C-CDA R2.1] Result Observation -->

<templateId root="2.16.840.1.113883.10.20.22.4.2"

extension="2015-08-01"/>

<!-- [HAI LTCF R1D1] Pathogen Identified Observation in a Lab

Identified Report LTCF -->

LTCF -->

<templateId root="2.16.840.1.113883.10.20.5.1.3.3"

extension="2019-08-01"/>

...

</observation>

</entry>

</section>

NHSN Comment Section

[section: identifier urn:hl7ii:2.16.840.1.113883.10.20.5.5.61:2017-04-01 (closed)]

Published as part of NHSN Healthcare Associated Infection (HAI) Reports Release 3, STU 2 - US Realm

Table 20: NHSN Comment Section Contexts

| Contained By: | Contains: |
| --- | --- |
| [Laboratory Identified MDRO or CDI Event Report for LTCF (V2)](#D_Laboratory_Identified_MDRO_or_CDI_V2) (optional) | [NHSN Comment](#E_NHSN_Comment) (required) |

The NHSN Comment Section contains the NHSN Comment template. This section is not specific to any one report and contains comments that are relevant to the whole report (it is not specific to any section of a report).

Table 21: NHSN Comment Section Constraints Overview

| XPath | Card. | Verb | Data Type | CONF# | Value |
| --- | --- | --- | --- | --- | --- |
| section (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.5.61:2017-04-01) | | | | | |
| templateId | 1..1 | SHALL |  | [3311-172](#C_3311-172) |  |
| @root | 1..1 | SHALL |  | [3311-180](#C_3311-180) | 2.16.840.1.113883.10.20.5.5.61 |
| @extension | 1..1 | SHALL |  | [3311-181](#C_3311-181) | 2017-04-01 |
| code | 1..1 | SHALL |  | [3311-173](#C_3311-173) |  |
| @code | 1..1 | SHALL |  | [3311-182](#C_3311-182) | 86468-6 |
| @codeSystem | 1..1 | SHALL |  | [3311-183](#C_3311-183) | urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1 |
| entry | 1..1 | SHALL |  | [3311-179](#C_3311-179) |  |
| act | 1..1 | SHALL |  | [3311-184](#C_3311-184) | [NHSN Comment (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.6.243:2017-04-01](#E_NHSN_Comment) |

1. Conforms to [HAI Section Generic Constraints](#S_HAI_Section_Generic_Constraints) template (identifier: urn:oid:2.16.840.1.113883.10.20.5.4.26).
2. SHALL contain exactly one [1..1] templateId (CONF:3311-172) such that it
   1. SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.5.5.61" (CONF:3311-180).
   2. SHALL contain exactly one [1..1] @extension="2017-04-01" (CONF:3311-181).
3. SHALL contain exactly one [1..1] code (CONF:3311-173).
   1. This code SHALL contain exactly one [1..1] @code="86468-6" Report Comment Section (CONF:3311-182).
   2. This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3311-183).
4. SHALL contain exactly one [1..1] entry (CONF:3311-179) such that it
   1. SHALL contain exactly one [1..1] [NHSN Comment](#E_NHSN_Comment) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.6.243:2017-04-01) (CONF:3311-184).

Figure 6: NHSN Comment Section Example

<section>

<!-- HAI Section Generic Constraints -->

<templateId root="2.16.840.1.113883.10.20.5.4.26" />

<!-- [HAI R3D2] NHSN Comment Section -->

<templateId root="2.16.840.1.113883.10.20.5.5.61" extension="2017-04-01" />

<code code="86468-6"

displayName="Report comment section"

codeSystem="2.16.840.1.113883.6.1"

codeSystemName="LOINC" />

<title>Comment</title>

<text>...</text>

<entry typeCode="DRIV">

<act classCode="ACT" moodCode="EVN">

<!-- [HAI R3D2] Comment -->

<templateId root="2.16.840.1.113883.10.20.5.6.243" extension="2017-04-01" />

...

</act>

</entry>

</section>

Report No Events Section

[section: identifier urn:hl7ii:2.16.840.1.113883.10.20.5.5.62:2018-04-01 (closed)]

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Table 22: Report No Events Section Contexts

| Contained By: | Contains: |
| --- | --- |
| [LTCF Monthly Summary Data for MDRO, CDI, UTI, and Prevention Process Measures (V2)](#D_LTCF_Monthly_Summary_Data_for_MDRO_CD) (optional) | [Report No Events](#E_Report_No_Events) (required) |

The Report No Events Section contains the Report No Events template. This section is available for use in any report. If this section is present in a report it must contain at least one entry.

Table 23: Report No Events Section Constraints Overview

| XPath | Card. | Verb | Data Type | CONF# | Value |
| --- | --- | --- | --- | --- | --- |
| section (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.5.62:2018-04-01) | | | | | |
| templateId | 1..1 | SHALL |  | [3357-30604](#C_3357-30604) |  |
| @root | 1..1 | SHALL |  | [3357-30608](#C_3357-30608) | 2.16.840.1.113883.10.20.5.5.62 |
| @extension | 1..1 | SHALL |  | [3357-30609](#C_3357-30609) | 2018-04-01 |
| code | 1..1 | SHALL |  | [3357-30605](#C_3357-30605) |  |
| @code | 1..1 | SHALL |  | [3357-30610](#C_3357-30610) | 90252-8 |
| @codeSystem | 1..1 | SHALL |  | [3357-30611](#C_3357-30611) | urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1 |
| entry | 1..\* | SHALL |  | [3357-30606](#C_3357-30606) |  |
| act | 1..1 | SHALL |  | [3357-30910](#C_3357-30910) | [Report No Events (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.6.249:2018-04-01](#E_Report_No_Events) |

1. Conforms to [HAI Section Generic Constraints](#S_HAI_Section_Generic_Constraints) template (identifier: urn:oid:2.16.840.1.113883.10.20.5.4.26).
2. SHALL contain exactly one [1..1] templateId (CONF:3357-30604) such that it
   1. SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.5.5.62" (CONF:3357-30608).
   2. SHALL contain exactly one [1..1] @extension="2018-04-01" (CONF:3357-30609).
3. SHALL contain exactly one [1..1] code (CONF:3357-30605).
   1. This code SHALL contain exactly one [1..1] @code="90252-8" Report No Events section (CONF:3357-30610).
   2. This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3357-30611).
4. SHALL contain at least one [1..\*] entry (CONF:3357-30606) such that it
   1. SHALL contain exactly one [1..1] [Report No Events](#E_Report_No_Events) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.6.249:2018-04-01) (CONF:3357-30910).

Figure 7: Report No Events Section Example

<section>

<!-- HAI Section Generic Constraints -->

<templateId root="2.16.840.1.113883.10.20.5.4.26" />

<!-- [HAI R3D3] Report No Events Section -->

<templateId root="2.16.840.1.113883.10.20.5.5.62" extension="2018-04-01" />

<code codeSystem="2.16.840.1.113883.6.1"

codeSystemName="LOINC"

code="90252-8"

displayName="Report No Events Section" />

<title>Report No Events</title>

<text>

<table>

<tbody>

<tr>

<td>Report no infection surveillance events - Methicillin-resistant Staphylococcus aureus</td>

</tr>

</tbody>

</table>

</text>

<entry typeCode="DRIV">

<act classCode="ACT" moodCode="EVN">

<!-- [HAI R3D3] Report No Events-->

<templateId root="2.16.840.1.113883.10.20.5.6.249" extension="2018" />

...

</act>

</entry>

...

</section>

Summary Data Section LTCF (V2)

[section: identifier urn:hl7ii:2.16.840.1.113883.10.20.5.1.2.3:2023-02-01 (closed)]

Draft as part of NHSN Healthcare Associated Infection (HAI) Report for Long Term Care Facilities (LTCF), Release 1, STU 1.1 - US Realm

Table 24: Summary Data Section LTCF (V2) Contexts

| Contained By: | Contains: |
| --- | --- |
| [LTCF Monthly Summary Data for MDRO, CDI, UTI, and Prevention Process Measures (V2)](#D_LTCF_Monthly_Summary_Data_for_MDRO_CD) (required) | [Summary Encounter LTCF (V2)](#E_Summary_Encounter_LTCF_V2) (required) |

This template is used in some LTCF population summary reports. The specific counts to be reported in the section vary by report topic, but the section itself conveys the same kind of information wherever used, therefore, the section is represented by the same LOINC section code whatever the data reported.

Table 25: Summary Data Section LTCF (V2) Constraints Overview

| XPath | Card. | Verb | Data Type | CONF# | Value |
| --- | --- | --- | --- | --- | --- |
| section (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.2.3:2023-02-01) | | | | | |
| templateId | 1..1 | SHALL |  | [4544-31187](#C_4544-31187) |  |
| @root | 1..1 | SHALL |  | [4544-31193](#C_4544-31193) | 2.16.840.1.113883.10.20.5.1.2.3 |
| @extension | 1..1 | SHALL |  | [4544-31194](#C_4544-31194) | 2023-02-01 |
| code | 1..1 | SHALL |  | [4544-31188](#C_4544-31188) |  |
| @code | 1..1 | SHALL |  | [4544-31195](#C_4544-31195) | 51900-9 |
| @codeSystem | 1..1 | SHALL |  | [4544-31196](#C_4544-31196) | urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1 |
| entry | 1..1 | SHALL |  | [4544-31191](#C_4544-31191) |  |
| encounter | 1..1 | SHALL |  | [4544-31352](#C_4544-31352) | [Summary Encounter LTCF (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.15:2023-02-01](#E_Summary_Encounter_LTCF_V2) |

1. Conforms to [HAI Section Generic Constraints](#S_HAI_Section_Generic_Constraints) template (identifier: urn:oid:2.16.840.1.113883.10.20.5.4.26).
2. SHALL contain exactly one [1..1] templateId (CONF:4544-31187) such that it
   1. SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.5.1.2.3" (CONF:4544-31193).
   2. SHALL contain exactly one [1..1] @extension="2023-02-01" (CONF:4544-31194).
3. SHALL contain exactly one [1..1] code (CONF:4544-31188).
   1. This code SHALL contain exactly one [1..1] @code="51900-9" Summary Data Section (CONF:4544-31195).
   2. This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:4544-31196).
4. SHALL contain exactly one [1..1] entry (CONF:4544-31191) such that it
   1. SHALL contain exactly one [1..1] [Summary Encounter LTCF (V2)](#E_Summary_Encounter_LTCF_V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.15:2023-02-01) (CONF:4544-31352).

Figure 8: Summary Data Section LTCF (V2) Example

<section>

<!-- [HAI Normative R1] HAI Section Generic Constraints -->

<templateId root="2.16.840.1.113883.10.20.5.4.26" />

<!-- [HAI LTCF R1D1.1] Summary Data Section LTCF (V2) -->

<templateId root="2.16.840.1.113883.10.20.5.1.2.3" extension="2023-02-01" />

<code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" code="51900-9"

displayName="Summary Section" />

<title>Summary Data</title>

<text>...</text>

<entry typeCode="DRIV">

<encounter classCode="ENC" moodCode="EVN">

<!-- Summary Encounter LTCF [R1D1] (V2) -->

<templateId root="2.16.840.1.113883.10.20.5.1.3.15" extension="2023-02-01"

/>

...

</encounter>

</entry>

</section>

# Entry-Level Templates

Antibiotic Treatment at Time of Transfer

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.12:2019-08-01 (closed)]

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Table 26: Antibiotic Treatment at Time of Transfer Contexts

| Contained By: | Contains: |
| --- | --- |
| [Transfer From Acute Care Facility to LTCF in Past Four Weeks](#E_Transfer_From_Acute_Care_Facility_to_) (optional) |  |

This observation records whether the resident was on antibiotic therapy for the reported pathogen at the time of transfer to the LTCF.

NOTE: If the resident was NOT transferred from an acute care facility in the past 4 weeks, this template SHALL NOT be present.

Table 27: Antibiotic Treatment at Time of Transfer Constraints Overview

| XPath | Card. | Verb | Data Type | CONF# | Value |
| --- | --- | --- | --- | --- | --- |
| observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.12:2019-08-01) | | | | | |
| @classCode | 1..1 | SHALL |  | [4417-31227](#C_4417-31227) | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS |
| @moodCode | 1..1 | SHALL |  | [4417-31228](#C_4417-31228) | urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN |
| templateId | 1..1 | SHALL |  | [4417-31235](#C_4417-31235) |  |
| @root | 1..1 | SHALL |  | [4417-31236](#C_4417-31236) | 2.16.840.1.113883.10.20.5.1.3.12 |
| @extension | 1..1 | SHALL |  | [4417-31237](#C_4417-31237) | 2019-08-01 |
| code | 1..1 | SHALL |  | [4417-31224](#C_4417-31224) |  |
| @code | 1..1 | SHALL |  | [4417-31230](#C_4417-31230) | 1375-5 |
| @codeSystem | 1..1 | SHALL |  | [4417-31388](#C_4417-31388) | urn:oid:2.16.840.1.113883.6.277 (CDCNHSN) = 2.16.840.1.113883.6.277 |
| statusCode | 1..1 | SHALL |  | [4417-31225](#C_4417-31225) |  |
| @code | 1..1 | SHALL |  | [4417-31231](#C_4417-31231) | urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed |
| value | 1..1 | SHALL | BL | [4417-31226](#C_4417-31226) |  |

1. SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC) (CONF:4417-31227).
2. SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC) (CONF:4417-31228).
3. SHALL contain exactly one [1..1] templateId (CONF:4417-31235) such that it
   1. SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.5.1.3.12" (CONF:4417-31236).
   2. SHALL contain exactly one [1..1] @extension="2019-08-01" (CONF:4417-31237).
4. SHALL contain exactly one [1..1] code (CONF:4417-31224).
   1. This code SHALL contain exactly one [1..1] @code="1375-5" Resident on antibiotic therapy for this specific organism at the time of transfer (CONF:4417-31230).
   2. This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.277" (CodeSystem: CDCNHSN urn:oid:2.16.840.1.113883.6.277 STATIC) (CONF:4417-31388).
5. SHALL contain exactly one [1..1] statusCode (CONF:4417-31225).
   1. This statusCode SHALL contain exactly one [1..1] @code="completed" Completed (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:4417-31231).
6. SHALL contain exactly one [1..1] value with @xsi:type="BL" (CONF:4417-31226).  
   Note: Resident was on antibiotic therapy for this specific organism type at the time of transfer to your facility

Figure 9: Antibiotic Treatment at Time of Transfer Example

<observation classCode="OBS" moodCode="EVN">

<!-- [HAI LTCF R1D1] Antibiotic Treatment at Time of Transfer -->

<templateId root="2.16.840.1.113883.10.20.5.1.3.12" extension="2019-08-01" />

<code code="1375-5"

displayName="Resident on antibiotic therapy for this specific organism

at the time of transfer"

codeSystem="2.16.840.1.113883.6.277" codeSystemName="cdcNHSN" />

<statusCode code="completed" />

<!-- Resident was on antibiotic therapy for this organism at the time of transfer -->

<!-- set value="true" if this resident was on antibiotic therapy for this

organism at the time of transfer. Set value="false" if this resident was

not on antibiotic therapy for this organism at the time of transfer -->

<value xsi:type="BL" value="true" />

</observation>

First Admission Encounter in a Lab Identified Report LTCF

[encounter: identifier urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.4:2019-08-01 (closed)]

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Table 28: First Admission Encounter in a Lab Identified Report LTCF Contexts

| Contained By: | Contains: |
| --- | --- |
| [Encounters Section in an LTCF Report](#S_Encounters_Section_in_an_LTCF_Report) (required) |  |

This template records the date of first admission to the facility. This is the date the resident first entered the facility. This date remains the same even if the resident leaves the facility (for example, transfers to another facility) for short periods of time (less than 30 consecutive days). If the resident leaves the facility and is away for 30 or more consecutive days, the date of first admission should be updated to the date of return to the facility

Table 29: First Admission Encounter in a Lab Identified Report LTCF Constraints Overview

| XPath | Card. | Verb | Data Type | CONF# | Value |
| --- | --- | --- | --- | --- | --- |
| encounter (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.4:2019-08-01) | | | | | |
| @classCode | 1..1 | SHALL |  | [4417-31083](#C_4417-31083) | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ENC |
| @moodCode | 1..1 | SHALL |  | [4417-31084](#C_4417-31084) | urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN |
| templateId | 1..1 | SHALL |  | [4417-31077](#C_4417-31077) |  |
| @root | 1..1 | SHALL |  | [4417-31086](#C_4417-31086) | 2.16.840.1.113883.10.20.22.4.49 |
| templateId | 1..1 | SHALL |  | [4417-31424](#C_4417-31424) |  |
| @root | 1..1 | SHALL |  | [4417-31425](#C_4417-31425) | 2.16.840.1.113883.10.20.5.1.3.4 |
| @extension | 1..1 | SHALL |  | [4417-31426](#C_4417-31426) | 2019-08-01 |
| id | 1..1 | SHALL |  | [4417-31072](#C_4417-31072) |  |
| @nullFlavor | 1..1 | SHALL |  | [4417-31078](#C_4417-31078) | NA |
| code | 1..1 | SHALL |  | [4417-31073](#C_4417-31073) |  |
| @code | 1..1 | SHALL |  | [4417-31079](#C_4417-31079) | 1373-0 |
| @codeSystem | 1..1 | SHALL |  | [4417-31395](#C_4417-31395) | urn:oid:2.16.840.1.113883.6.277 (CDCNHSN) = 2.16.840.1.113883.6.277 |
| effectiveTime | 1..1 | SHALL |  | [4417-31074](#C_4417-31074) |  |
| low | 1..1 | SHALL |  | [4417-31088](#C_4417-31088) |  |

1. Conforms to Encounter Activities template (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.49).
2. SHALL contain exactly one [1..1] @classCode="ENC" Encounter (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC) (CONF:4417-31083).
3. SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC) (CONF:4417-31084).
4. SHALL contain exactly one [1..1] templateId (CONF:4417-31077) such that it
   1. SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.22.4.49" (CONF:4417-31086).
5. SHALL contain exactly one [1..1] templateId (CONF:4417-31424) such that it
   1. SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.5.1.3.4" (CONF:4417-31425).
   2. SHALL contain exactly one [1..1] @extension="2019-08-01" (CONF:4417-31426).
6. SHALL contain exactly one [1..1] id (CONF:4417-31072) such that it
   1. SHALL contain exactly one [1..1] @nullFlavor="NA" (CONF:4417-31078).
7. SHALL contain exactly one [1..1] code (CONF:4417-31073).
   1. This code SHALL contain exactly one [1..1] @code="1373-0" Date first admitted to facility (CONF:4417-31079).
   2. This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.277" (CodeSystem: CDCNHSN urn:oid:2.16.840.1.113883.6.277) (CONF:4417-31395).
8. SHALL contain exactly one [1..1] effectiveTime (CONF:4417-31074).
   1. This effectiveTime SHALL contain exactly one [1..1] low (CONF:4417-31088).  
      Note: Date first admitted to facility

Figure 10: First Admission Encounter in a Lab Identified Report LTCF Example

<entry typeCode="DRIV">

<encounter classCode="ENC" moodCode="EVN">

<!-- [C-CDA R2.1] Encounter Activity (V3) -->

<templateId root="2.16.840.1.113883.10.20.22.4.49" />

<!-- [HAI LTCF R1D1] First Admission Encounter in a Lab Identified Report LTCF-->

<templateId root="2.16.840.1.113883.10.20.5.1.3.4"

extension="2019-08-01" />

<id nullFlavor="NA" />

<code code="1373-0" displayName="Date first admitted to facility"

codeSystem="2.16.840.1.113883.6.277" codeSystemName="cdcNHSN" />

<effectiveTime>

<!-- Date of first admission is defined as the date the resident

first entered the facility within the past 30 days.

This date remains the same even if the resident leaves the

facility (for example transfers to another facility) for

short periods of time (less than 30 days). If the resident

leaves the facility and is away for 30 or more consecutive days,

the date of first admission should be updated to the date of

return to the facility. -->

<low value="20190101" />

</effectiveTime>

</encounter>

</entry>

NHSN Comment

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.5.6.243:2017-04-01 (closed)]

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Table 30: NHSN Comment Contexts

| Contained By: | Contains: |
| --- | --- |
| [NHSN Comment Section](#S_NHSN_Comment_Section) (required) |  |

A comment is free text information of less than 2000 characters. A comment can contain information that is relevant to the whole report (it is not specific to any section of a report).

Table 31: NHSN Comment Constraints Overview

| XPath | Card. | Verb | Data Type | CONF# | Value |
| --- | --- | --- | --- | --- | --- |
| act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.6.243:2017-04-01) | | | | | |
| @classCode | 1..1 | SHALL |  | [3311-87](#C_3311-87) | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT |
| @moodCode | 1..1 | SHALL |  | [3311-88](#C_3311-88) | urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN |
| templateId | 1..1 | SHALL |  | [3311-79](#C_3311-79) |  |
| @root | 1..1 | SHALL |  | [3311-89](#C_3311-89) | 2.16.840.1.113883.10.20.5.6.243 |
| @extension | 1..1 | SHALL |  | [3311-92](#C_3311-92) | 2017-04-01 |
| code | 1..1 | SHALL |  | [3311-80](#C_3311-80) |  |
| @code | 1..1 | SHALL |  | [3311-90](#C_3311-90) | 86467-8 |
| @codeSystem | 1..1 | SHALL |  | [3311-91](#C_3311-91) | urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1 |
| text | 1..1 | SHALL |  | [3311-81](#C_3311-81) |  |

1. SHALL contain exactly one [1..1] @classCode="ACT" Act (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC) (CONF:3311-87).
2. SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC) (CONF:3311-88).
3. SHALL contain exactly one [1..1] templateId (CONF:3311-79) such that it
   1. SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.5.6.243" (CONF:3311-89).
   2. SHALL contain exactly one [1..1] @extension="2017-04-01" (CONF:3311-92).
4. SHALL contain exactly one [1..1] code (CONF:3311-80).
   1. This code SHALL contain exactly one [1..1] @code="86467-8" Report comment Narrative (CONF:3311-90).
   2. This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3311-91).
5. SHALL contain exactly one [1..1] text (CONF:3311-81).
   1. The length of the free text comment SHALL be less than 2000 characters (CONF:3311-93).

Figure 11: NHSN Comment Example

<act classCode="ACT" moodCode="EVN">

<!-- [HAI R3D2] NHSN Comment -->

<templateId root="2.16.840.1.113883.10.20.5.6.243" extension="2017-04-01" />

<code code="86467-8"

displayName="Report comment Narrative"

codeSystem="2.16.840.1.113883.6.1"

codeSystemName="LOINC" />

<!-- Less than 2000 characters -->

<text>NHSN text comment that is less than 2000 characters.</text>

</act>

Pathogen Identified Observation in a Lab Identified Report LTCF

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.3:2019-08-01 (closed)]

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Table 32: Pathogen Identified Observation in a Lab Identified Report LTCF Contexts

| Contained By: | Contains: |
| --- | --- |
| [Findings Section in a Laboratory Identified Report LTCF](#S_Findings_Section_in_a_Laboratory_Iden) (required) | [Specimen Collection Procedure in a Lab Identified Report LTCF](#E_Specimen_Collection_Procedure_in_a_La) (required) |

This template records the laboratory-identified microorganism type. The specific organism type is recorded in value.

Table 33: Pathogen Identified Observation in a Lab Identified Report LTCF Constraints Overview

| XPath | Card. | Verb | Data Type | CONF# | Value |
| --- | --- | --- | --- | --- | --- |
| observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.3:2019-08-01) | | | | | |
| @classCode | 1..1 | SHALL |  | [4417-31053](#C_4417-31053) | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS |
| @moodCode | 1..1 | SHALL |  | [4417-31054](#C_4417-31054) | urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN |
| templateId | 1..1 | SHALL |  | [4417-31046](#C_4417-31046) |  |
| @root | 1..1 | SHALL |  | [4417-31058](#C_4417-31058) | 2.16.840.1.113883.10.20.22.4.2 |
| templateId | 1..1 | SHALL |  | [4417-31421](#C_4417-31421) |  |
| @root | 1..1 | SHALL |  | [4417-31422](#C_4417-31422) | 2.16.840.1.113883.10.20.5.1.3.3 |
| @extension | 1..1 | SHALL |  | [4417-31423](#C_4417-31423) | 2019-08-01 |
| id | 1..1 | SHALL |  | [4417-31043](#C_4417-31043) |  |
| @nullFlavor | 1..1 | SHALL |  | [4417-31052](#C_4417-31052) | NA |
| code | 1..1 | SHALL |  | [4417-31040](#C_4417-31040) |  |
| @code | 1..1 | SHALL |  | [4417-31048](#C_4417-31048) | 41852-5 |
| @codeSystem | 1..1 | SHALL |  | [4417-31049](#C_4417-31049) | urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1 |
| statusCode | 1..1 | SHALL |  | [4417-31041](#C_4417-31041) |  |
| @code | 1..1 | SHALL |  | [4417-31050](#C_4417-31050) | urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed |
| effectiveTime | 1..1 | SHALL |  | [4417-31056](#C_4417-31056) |  |
| value | 1..1 | SHALL | CD | [4417-31055](#C_4417-31055) | urn:oid:2.16.840.1.114222.4.11.3194 (NHSNSignificantPathogenCode) |
| entryRelationship | 1..1 | SHALL |  | [4417-31038](#C_4417-31038) |  |
| @typeCode | 1..1 | SHALL |  | [4417-31047](#C_4417-31047) | urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = COMP |
| procedure | 1..1 | SHALL |  | [4417-31039](#C_4417-31039) | [Specimen Collection Procedure in a Lab Identified Report LTCF (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.2:2019-08-01](#E_Specimen_Collection_Procedure_in_a_La) |

1. Conforms to Result Observation template (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.2).
2. SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC) (CONF:4417-31053).
3. SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC) (CONF:4417-31054).
4. SHALL contain exactly one [1..1] templateId (CONF:4417-31046) such that it
   1. SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.22.4.2" (CONF:4417-31058).
5. SHALL contain exactly one [1..1] templateId (CONF:4417-31421) such that it
   1. SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.5.1.3.3" (CONF:4417-31422).
   2. SHALL contain exactly one [1..1] @extension="2019-08-01" (CONF:4417-31423).
6. SHALL contain exactly one [1..1] id (CONF:4417-31043).
   1. This id SHALL contain exactly one [1..1] @nullFlavor="NA" (CONF:4417-31052).
7. SHALL contain exactly one [1..1] code (CONF:4417-31040).
   1. This code SHALL contain exactly one [1..1] @code="41852-5" Microorganism identified (CONF:4417-31048).
   2. This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:4417-31049).
8. SHALL contain exactly one [1..1] statusCode (CONF:4417-31041).
   1. This statusCode SHALL contain exactly one [1..1] @code="completed" Completed (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:4417-31050).
9. SHALL contain exactly one [1..1] effectiveTime (CONF:4417-31056).
10. SHALL contain exactly one [1..1] value with @xsi:type="CD", where the code SHALL be selected from ValueSet [NHSNSignificantPathogenCode](#NHSNSignificantPathogenCode) urn:oid:2.16.840.1.114222.4.11.3194 DYNAMIC (CONF:4417-31055).  
    Note: Specific Organism Type
11. SHALL contain exactly one [1..1] entryRelationship (CONF:4417-31038) such that it
    1. SHALL contain exactly one [1..1] @typeCode="COMP" Has component (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4417-31047).
    2. SHALL contain exactly one [1..1] [Specimen Collection Procedure in a Lab Identified Report LTCF](#E_Specimen_Collection_Procedure_in_a_La) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.2:2019-08-01) (CONF:4417-31039).

Table 34: NHSNSignificantPathogenCode

|  |  |  |  |
| --- | --- | --- | --- |
| Value Set: NHSNSignificantPathogenCode urn:oid:2.16.840.1.114222.4.11.3194  (Clinical Focus: NHSN surveillance reporting: This value set contains codes describing the significant pathogen identified.),(Data Element Scope: A coded observation value representing the type of significant pathogen.),(Inclusion Criteria: ),(Exclusion Criteria: )  This value set was imported on 4/12/2022 with a version of Latest.  Value Set Source: <https://vsac.nlm.nih.gov/valueset/2.16.840.1.114222.4.11.3194/expansion> | | | |
| Code | Code System | Code System OID | Print Name |
| 113727004 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Vancomycin resistant Enterococcus (organism) |
| 115329001 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Methicillin resistant Staphylococcus aureus (organism) |
| 2010-7 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | MDR-Acinetobacter |
| 2016-4 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | CephR-Klebsiella |
| 2017-2 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | CRE-Klebsiella |
| 2018-0 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | CRE-E. coli |
| 2019-8 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | CRE-Enterobacter |
| 417943000 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Methicillin susceptible Staphylococcus aureus (organism) |
| 5933001 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Clostridioides difficile (organism) |

Figure 12: Pathogen Identified Observation in a Lab Identified Report LTCF Example

<entry typeCode="DRIV">

<observation classCode="OBS" moodCode="EVN">

<!-- [C-CDA R1.1] Result Observation -->

<templateId root="2.16.840.1.113883.10.20.22.4.2" />

<!-- [HAI LTCF R1D1] Pathogen Identified Observation in a

Lab Identified Report LTCF -->

<templateId root="2.16.840.1.113883.10.20.5.1.3.3"

extension="2019-08-01" />

<id nullFlavor="NA" />

<code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"

code="41852-5" displayName="Microorganism Identified" />

<statusCode code="completed" />

<effectiveTime nullFlavor="NA" />

<!-- Specific Organism Type -->

<value xsi:type="CD" codeSystem="2.16.840.1.113883.6.96"

codeSystemName="SNOMED CT" code="5933001"

displayName="Clostridioides difficile (organism)" />

<!-- Specimen collection procedure contains specimen collection encounter -->

<entryRelationship typeCode="COMP">

<procedure classCode="PROC" moodCode="EVN">

<!-- Specimen Collection Procedure in a Lab Identified Report LTCF -->

<templateId root="2.16.840.1.113883.10.20.5.1.3.2"

extension="2019-08-01" />

...

</procedure>

</entryRelationship>

</observation>

</entry>

Report No Events

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.5.6.249:2018-04-01 (closed)]

Published as part of NHSN Healthcare Associated Infection (HAI) Reports Release 3, STU 3 - US Realm

Table 35: Report No Events Contexts

| Contained By: | Contains: |
| --- | --- |
| [Report No Events Section](#S_Report_No_Events_Section) (required) |  |

This template represents the statement that there are no events to report for a particular type of event.

Table 36: Report No Events Constraints Overview

| XPath | Card. | Verb | Data Type | CONF# | Value |
| --- | --- | --- | --- | --- | --- |
| act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.6.249:2018-04-01) | | | | | |
| @classCode | 1..1 | SHALL |  | [3357-30599](#C_3357-30599) | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT |
| @moodCode | 1..1 | SHALL |  | [3357-30600](#C_3357-30600) | urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN |
| templateId | 1..1 | SHALL |  | [3357-28468](#C_3357-28468) |  |
| @root | 1..1 | SHALL |  | [3357-28470](#C_3357-28470) | 2.16.840.1.113883.10.20.5.6.249 |
| @extension | 1..1 | SHALL |  | [3357-28471](#C_3357-28471) | 2018-04-01 |
| code | 1..1 | SHALL |  | [3357-28469](#C_3357-28469) |  |

1. SHALL contain exactly one [1..1] @classCode="ACT" Act (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3357-30599).
2. SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3357-30600).
3. SHALL contain exactly one [1..1] templateId (CONF:3357-28468) such that it
   1. SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.5.6.249" (CONF:3357-28470).
   2. SHALL contain exactly one [1..1] @extension="2018-04-01" (CONF:3357-28471).
4. SHALL contain exactly one [1..1] code (CONF:3357-28469).
   1. If this is a Neonatal Intensive Care Unit (NICU) Summary Report then the code SHALL be selected from value set [NHSNReportNoEventsNICU urn:oid:2.16.840.1.113883.10.20.5.9.19](#NHSNReportNoEventsNICU)DYNAMIC (CONF:3357-30905).
   2. If this is an Intensive Care Unit (ICU) Summary Report then the code SHALL be selected from value set [NHSNReportNoEventsICU urn:oid:2.16.840.1.113883.10.20.5.9.18](#NHSNReportNoEventsICU)DYNAMIC (CONF:3357-30906).
   3. If this is a Vascular Access Type Report (VAT) Summary Report then the code SHALL be selected from value set [NHSNReportNoEventsDialysis urn:oid:2.16.840.1.113883.10.20.5.9.22](#NHSNReportNoEventsDialysis)DYNAMIC (CONF:3357-30907).
   4. If this is a Prevention Process and Outcome Measures (POM) Summary Report then the code SHALL be selected from value set [NHSNReportNoEventsMDRO urn:oid:2.16.840.1.113883.10.20.5.9.21](#NHSNReportNoEventsMDRO)DYNAMIC (CONF:3357-30908).
   5. If this is a Specialty Care Area (SCA) Summary Report then the code SHALL be selected from value set [NHSNReportNoEventsSCA urn:oid:2.16.840.1.113883.10.20.5.9.20](#NHSNReportNoEventsSCA)DYNAMIC (CONF:3357-30909).
   6. If this is an Outpatient Procedure Component Denominator for Same Day Outcome Measures Report then the code SHALL be selected from value set [NHSNReportNoEventsOPCSameDayOutcomeMeasures urn:oid:2.16.840.1.113883.10.20.5.9.33](#NHSNReportNoEventsOPCSameDayOutcomeMeas)DYNAMIC (CONF:3357-30913).
   7. If this is an Antimicrobial Resistance Option (ARO) Summary Report then the code SHALL be selected from value set [NHSNReportNoEventsAR urn:oid:2.16.840.1.113883.10.20.5.9.35](#NHSNReportNoEventsAR)DYNAMIC (CONF:3357-30914).
   8. If this is a LTCF Monthly Summary Data for MDRO, CDI, UTI, and Prevention Process Measures report then the code SHALL be selected from ValueSet [NHSNReportNoEventsMDROLTCF (urn:oid:2.16.840.1.113883.10.20.5.1.9.1)](#NHSNReportNoEventsMDROLTCF)DYNAMIC (CONF:3357-30915).

Table 37: NHSNReportNoEventsNICU

|  |  |  |  |
| --- | --- | --- | --- |
| Value Set: NHSNReportNoEventsNICU urn:oid:2.16.840.1.113883.10.20.5.9.19  (Clinical Focus: NHSN surveillance reporting: indicators for reporting no events with denominators for neonatal intensive care unit (NICU)),(Data Element Scope: Code identifying that no event of interest occurred.),(Inclusion Criteria: ),(Exclusion Criteria: )  This value set was imported on 9/16/2020 with a version of Latest.  Value Set Source: <https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.10.20.5.9.19/expansion> | | | |
| Code | Code System | Code System OID | Print Name |
| 1313-6 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: NICU: PedVAE: birth weight under 750 grams |
| 1314-4 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: NICU: PedVAE: birth weight 751-1000 grams |
| 1316-9 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: NICU: PedVAE: birth weight 1001-1500 grams |
| 1317-7 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: NICU: PedVAE: birth weight 1501-2500 grams |
| 1318-5 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: NICU: PedVAE: birth weight over 2500 grams |
| 1319-3 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: NICU: PedVAE: Extremely preterm (<28 weeks) |
| 1330-0 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: NICU: PedVAE: Very preterm (28 to <32 weeks) |
| 1331-8 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: NICU: PedVAE: Moderate to late preterm (32 to <37 weeks) |
| 1332-6 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: NICU: PedVAE: Term (>=37 weeks) |
| 3014-8 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: NICU: CLABSI: under 750 grams |
| ... | | | |

Table 38: NHSNReportNoEventsICU

|  |  |  |  |
| --- | --- | --- | --- |
| Value Set: NHSNReportNoEventsICU urn:oid:2.16.840.1.113883.10.20.5.9.18  (Clinical Focus: NHSN surveillance reporting: indicators for reporting no events with denominators for intensive care unit),(Data Element Scope: Code identifying that no event of interest occurred.),(Inclusion Criteria: ),(Exclusion Criteria: )  This value set was imported on 9/16/2020 with a version of Latest.  Value Set Source: <https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.10.20.5.9.18/expansion> | | | |
| Code | Code System | Code System OID | Print Name |
| 1338-3 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: ICU: PedVAE |
| 3010-6 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: ICU: CLABSI |
| 3011-4 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: ICU: CAUTI |
| 3012-2 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: ICU: VAE |
| 3013-0 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: ICU: PedVAP |

Table 39: NHSNReportNoEventsDialysis

|  |  |  |  |
| --- | --- | --- | --- |
| Value Set: NHSNReportNoEventsDialysis urn:oid:2.16.840.1.113883.10.20.5.9.22  (Clinical Focus: NHSN surveillance reporting: indicators for reporting no events with denominators for dialysis),(Data Element Scope: Code identifying that no event of interest occurred.),(Inclusion Criteria: ),(Exclusion Criteria: )  This value set was imported on 9/16/2020 with a version of Latest.  Value Set Source: <https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.10.20.5.9.22/expansion> | | | |
| Code | Code System | Code System OID | Print Name |
| 3052-8 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: Dialysis: intravenous antimicrobial start |
| 3053-6 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: Dialysis: positive blood culture |
| 3054-4 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: Dialysis: pus, redness, or increased swelling at vascular access site |

Table 40: NHSNReportNoEventsMDRO

|  |  |  |  |
| --- | --- | --- | --- |
| Value Set: NHSNReportNoEventsMDRO urn:oid:2.16.840.1.113883.10.20.5.9.21  (Clinical Focus: NHSN surveillance reporting: indicators for reporting no events with denominators for LabID Event),(Data Element Scope: Code identifying that no event of interest occurred.),(Inclusion Criteria: ),(Exclusion Criteria: )  This value set was imported on 9/16/2020 with a version of Latest.  Value Set Source: <https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.10.20.5.9.21/expansion> | | | |
| Code | Code System | Code System OID | Print Name |
| 1306-0 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: Infection Surveillance: MSSA |
| 1307-8 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: LabID Event (All specimens): MSSA |
| 1308-6 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: LabID Event (Blood specimens only): MSSA |
| 3029-6 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: Infection Surveillance: MRSA |
| 3030-4 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: LabID Event (All specimens): MRSA |
| 3031-2 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: LabID Event (Blood specimens only): MRSA |
| 3032-0 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: Infection Surveillance: VRE |
| 3033-8 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: LabID Event (All specimens): VRE |
| 3034-6 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: LabID Event (Blood specimens only): VRE |
| 3035-3 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: Infection Surveillance: CephR Klebsiella |
| ... | | | |

Table 41: NHSNReportNoEventsSCA

|  |  |  |  |
| --- | --- | --- | --- |
| Value Set: NHSNReportNoEventsSCA urn:oid:2.16.840.1.113883.10.20.5.9.20  (Clinical Focus: NHSN surveillance reporting: indicators for reporting no events with denominators for specialty care area / oncology),(Data Element Scope: Code identifying that no event of interest occurred.),(Inclusion Criteria: ),(Exclusion Criteria: )  This value set was imported on 9/16/2020 with a version of Latest.  Value Set Source: <https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.10.20.5.9.20/expansion> | | | |
| Code | Code System | Code System OID | Print Name |
| 1339-1 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: SCA: PedVAE |
| 3024-7 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: SCA: TCLAB |
| 3025-4 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: SCA: PCLAB |
| 3026-2 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: SCA: CAUTI |
| 3027-0 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: SCA: VAE |
| 3028-8 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: SCA: PedVAP |

Table 42: NHSNReportNoEventsOPCSameDayOutcomeMeasures

|  |  |  |  |
| --- | --- | --- | --- |
| Value Set: NHSNReportNoEventsOPCSameDayOutcomeMeasures urn:oid:2.16.840.1.113883.10.20.5.9.33  (Clinical Focus: NHSN surveillance reporting: indicators for reporting no events with denominators for Outpatient Procedure Component Same Day Outcome Measures),(Data Element Scope: Code identifying that no event of interest occurred.),(Inclusion Criteria: ),(Exclusion Criteria: )  This value set was imported on 9/16/2020 with a version of Latest.  Value Set Source: <https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.10.20.5.9.33/expansion> | | | |
| Code | Code System | Code System OID | Print Name |
| 1340-9 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | No same day outcome measures (events) reported this month |

Table 43: NHSNReportNoEventsAR

|  |  |  |  |
| --- | --- | --- | --- |
| Value Set: NHSNReportNoEventsAR urn:oid:2.16.840.1.113883.10.20.5.9.35  (Clinical Focus: NHSN surveillance reporting: indicator for reporting no events with denominators for antimicrobial resistance),(Data Element Scope: Code identifying that no event of interest occurred.),(Inclusion Criteria: ),(Exclusion Criteria: )  This value set was imported on 9/16/2020 with a version of Latest.  Value Set Source: <https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.10.20.5.9.35/expansion> | | | |
| Code | Code System | Code System OID | Print Name |
| 1341-7 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: Antimicrobial Resistance (AR) |

Table 44: NHSNReportNoEventsMDROLTCF

|  |  |  |  |
| --- | --- | --- | --- |
| Value Set: NHSNReportNoEventsMDROLTCF urn:oid:2.16.840.1.113883.10.20.5.1.9.1  (Clinical Focus: NHSN surveillance reporting: indicators for reporting no events with denominators for LTCF),(Data Element Scope: Code identifying that no event of interest occurred.),(Inclusion Criteria: ),(Exclusion Criteria: )  This value set was imported on 2/21/2023 with a version of Latest.  Value Set Source: <https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.10.20.5.1.9.1/expansion> | | | |
| Code | Code System | Code System OID | Print Name |
| 3051-0 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: LabID Event (All specimens): C. difficile |
| 3036-1 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: LabID Event (All specimens): CephR Klebsiella |
| 3039-5 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: LabID Event (All specimens): CRE-E. coli |
| 3042-9 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: LabID Event (All specimens): CRE-Enterobacter |
| 3045-2 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: LabID Event (All specimens): CRE-Klebsiella |
| 3048-6 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: LabID Event (All specimens): MDR-Acinetobacter |
| 3030-4 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: LabID Event (All specimens): MRSA |
| 1307-8 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: LabID Event (All specimens): MSSA |
| 3033-8 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: LabID Event (All specimens): VRE |
| 1342-5 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Report No Events: UTI Event |

Figure 13: Report No Events Example

<act classCode="ACT" moodCode="EVN">

<!-- [HAI R3D3] Report No Events -->

<templateId root="2.16.840.1.113883.10.20.5.6.249" extension="2018-04-01" />

<code code="3029-6"

displayName="Report no infection surveillance events - Methicillin-resistant Staphylococcus aureus"

codeSystem="2.16.840.1.113883.6.277"

codeSystemName="cdcNHSN" />

</act>

Specimen Collection Procedure in a Lab Identified Report LTCF

[procedure: identifier urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.2:2019-08-01 (closed)]

Published as part of NHSN Healthcare Associated Infection (HAI) Report for Long Term Care Facilities (LTCF), Release 1, STU 1 - US Realm

Table 45: Specimen Collection Procedure in a Lab Identified Report LTCF Contexts

| Contained By: | Contains: |
| --- | --- |
| [Pathogen Identified Observation in a Lab Identified Report LTCF](#E_Pathogen_Identified_Observation_in_a_) (required) |  |

This template represents the specimen collection procedure and records the date the specimen was collected and the specimen type.

Table 46: Specimen Collection Procedure in a Lab Identified Report LTCF Constraints Overview

| XPath | Card. | Verb | Data Type | CONF# | Value |
| --- | --- | --- | --- | --- | --- |
| procedure (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.2:2019-08-01) | | | | | |
| @classCode | 1..1 | SHALL |  | [4417-31031](#C_4417-31031) | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = PROC |
| @moodCode | 1..1 | SHALL |  | [4417-31032](#C_4417-31032) | urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN |
| templateId | 1..1 | SHALL |  | [4417-31060](#C_4417-31060) |  |
| @root | 1..1 | SHALL |  | [4417-31061](#C_4417-31061) | 2.16.840.1.113883.10.20.5.1.3.2 |
| @extension | 1..1 | SHALL |  | [4417-31062](#C_4417-31062) | 2019-08-01 |
| code | 1..1 | SHALL |  | [4417-31396](#C_4417-31396) |  |
| @code | 1..1 | SHALL |  | [4417-31397](#C_4417-31397) | urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 17636008 |
| effectiveTime | 1..1 | SHALL |  | [4417-31368](#C_4417-31368) |  |
| low | 1..1 | SHALL |  | [4417-31369](#C_4417-31369) |  |
| participant | 1..1 | SHALL |  | [4417-31024](#C_4417-31024) |  |
| @typeCode | 1..1 | SHALL |  | [4417-31033](#C_4417-31033) | urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = PRD |
| participantRole | 1..1 | SHALL |  | [4417-31025](#C_4417-31025) |  |
| @classCode | 1..1 | SHALL |  | [4417-31034](#C_4417-31034) | urn:oid:2.16.840.1.113883.5.110 (HL7RoleClass) = SPEC |
| playingEntity | 1..1 | SHALL |  | [4417-31026](#C_4417-31026) |  |
| code | 1..1 | SHALL |  | [4417-31027](#C_4417-31027) | urn:oid:2.16.840.1.114222.4.11.3249 (NHSNSpecimenTypeCode) |
| @nullFlavor | 0..1 | MAY |  | [4417-31239](#C_4417-31239) | urn:oid:2.16.840.1.113883.5.1008 (HL7NullFlavor) = UNK |

1. SHALL contain exactly one [1..1] @classCode="PROC" Procedure (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC) (CONF:4417-31031).
2. SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC) (CONF:4417-31032).
3. SHALL contain exactly one [1..1] templateId (CONF:4417-31060) such that it
   1. SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.5.1.3.2" (CONF:4417-31061).
   2. SHALL contain exactly one [1..1] @extension="2019-08-01" (CONF:4417-31062).
4. SHALL contain exactly one [1..1] code (CONF:4417-31396).
   1. This code SHALL contain exactly one [1..1] @code="17636008" Specimen collection (procedure) (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:4417-31397).
5. SHALL contain exactly one [1..1] effectiveTime (CONF:4417-31368).
   1. This effectiveTime SHALL contain exactly one [1..1] low (CONF:4417-31369).  
      Note: Date specimen collected
6. SHALL contain exactly one [1..1] participant (CONF:4417-31024).
   1. This participant SHALL contain exactly one [1..1] @typeCode="PRD" Product (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC) (CONF:4417-31033).
   2. This participant SHALL contain exactly one [1..1] participantRole (CONF:4417-31025).
      1. This participantRole SHALL contain exactly one [1..1] @classCode="SPEC" Specimen (CodeSystem: HL7RoleClass urn:oid:2.16.840.1.113883.5.110 STATIC) (CONF:4417-31034).
      2. This participantRole SHALL contain exactly one [1..1] playingEntity (CONF:4417-31026).

To record a specimen type, @code SHALL be present.

* + - 1. This playingEntity SHALL contain exactly one [1..1] code, which SHALL be selected from ValueSet [NHSNSpecimenTypeCode](#NHSNSpecimenTypeCode) urn:oid:2.16.840.1.114222.4.11.3249 DYNAMIC (CONF:4417-31027).  
         Note: Specimen type
         1. This code MAY contain zero or one [0..1] @nullFlavor="UNK" Unknown (CodeSystem: HL7NullFlavor urn:oid:2.16.840.1.113883.5.1008) (CONF:4417-31239).

Table 47: NHSNSpecimenTypeCode

|  |  |  |  |
| --- | --- | --- | --- |
| Value Set: NHSNSpecimenTypeCode urn:oid:2.16.840.1.114222.4.11.3249  (Clinical Focus: NHSN surveillance reporting: This value set contains codes describing the type of specimen.),(Data Element Scope: A code identifying the type of entity playing the role of specimen. A code identifying the type of specimen.),(Inclusion Criteria: ),(Exclusion Criteria: )  This value set was imported on 9/16/2020 with a version of Latest.  Value Set Source: <https://vsac.nlm.nih.gov/valueset/2.16.840.1.114222.4.11.3249/expansion> | | | |
| Code | Code System | Code System OID | Print Name |
| 110893002 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Cutaneous cytologic material (specimen) |
| 110894008 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Mammary cytologic material (specimen) |
| 110896005 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Subcutaneous cytologic material (specimen) |
| 110903005 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Nasal cytologic material (specimen) |
| 110926003 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Gallbladder cytologic material (specimen) |
| 110931001 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Penis cytologic material (specimen) |
| 110933003 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Prostate cytologic material (specimen) |
| 110935005 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Testis cytologic material (specimen) |
| 110937002 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Seminal vesicle cytologic material (specimen) |
| 110939004 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Vas deferens cytologic material (specimen) |
| ... | | | |

Figure 14: Specimen Collection Procedure in a Lab Identified Report LTCF Example

<procedure classCode="PROC" moodCode="EVN">

<!-- [HAI LTCF R1D1] Specimen Collection Procedure in a Lab Identified Report LTCF -->

<templateId root="2.16.840.1.113883.10.20.5.1.3.2" extension="2019-08-01" />

<code code="17636008" codeSystem="2.16.840.1.113883.6.96" />

<!-- Date specimen collected -->

<effectiveTime value="20190119" />

<!-- Specimen type -->

<participant typeCode="PRD">

<participantRole classCode="SPEC">

<playingEntity>

<!-- Specimen Source/type -->

<code codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"

code="119339001" displayName="stool specimen"> </code>

</playingEntity>

</participantRole>

</participant>

</procedure>

Summary Data Observation LTCF (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.14:2023-02-01 (closed)]

Draft as part of NHSN Healthcare Associated Infection (HAI) Report for Long Term Care Facilities (LTCF), Release 1, STU 1.1 - US Realm

Table 48: Summary Data Observation LTCF (V2) Contexts

| Contained By: | Contains: |
| --- | --- |
| [Summary Encounter LTCF (V2)](#E_Summary_Encounter_LTCF_V2) (required) |  |

This template represents the number of days, residents, episodes, or events reported as summary data in some LTCF population-summary reports. The documentationOf/serviceEvent/code in the header identifies the intended content of the report. For example, cdcNHSN code 1891-1 indicates that the data content is "MDRO and CDI LabID Event Reporting Monthly Summary Data for LTCF". NHSN protocol specifies which data to report for each type of content. The data required by NHSN for most types of content, at time of publication, are shown in the table below.

Most Summary Data Observations are a simple code-value pair. The code element identifies the datum being reported, and the value element records a number of days, residents, episodes, or events. For example, cdcNHSN code 1369-8 indicates that the data content is "Number of Resident days".

The table of codes for a particular report indicate what data are required at time of publication for the NHSN protocol. Accordingly, the Summary Encounter will contain the same number of Summary Data Observations as codes in the table.

Table 49: Summary Data Observation LTCF (V2) Constraints Overview

| XPath | Card. | Verb | Data Type | CONF# | Value |
| --- | --- | --- | --- | --- | --- |
| observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.14:2023-02-01) | | | | | |
| @classCode | 1..1 | SHALL |  | [4544-31324](#C_4544-31324) | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS |
| @moodCode | 1..1 | SHALL |  | [4544-31325](#C_4544-31325) | urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN |
| templateId | 1..1 | SHALL |  | [4544-31320](#C_4544-31320) |  |
| @root | 1..1 | SHALL |  | [4544-31326](#C_4544-31326) | 2.16.840.1.113883.10.20.5.1.3.14 |
| @extension | 1..1 | SHALL |  | [4544-31336](#C_4544-31336) | 2023-02-01 |
| code | 1..1 | SHALL |  | [4544-31321](#C_4544-31321) |  |
| statusCode | 1..1 | SHALL |  | [4544-31322](#C_4544-31322) |  |
| @code | 1..1 | SHALL |  | [4544-31334](#C_4544-31334) | urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed |
| value | 1..1 | SHALL |  | [4544-31323](#C_4544-31323) |  |

1. SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:4544-31324).
2. SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:4544-31325).
3. SHALL contain exactly one [1..1] templateId (CONF:4544-31320) such that it
   1. SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.5.1.3.14" (CONF:4544-31326).
   2. SHALL contain exactly one [1..1] @extension="2023-02-01" (CONF:4544-31336).
4. SHALL contain exactly one [1..1] code (CONF:4544-31321).
   1. If this is a MDRO and CDI Monthly Summary Data Report, NHSN protocol requires, at the time of publication, the code shall be selected from [Codes for MDRO and CDI Summary Data LTCF (2.16.840.1.113883.10.20.5.1.5.9.2)](#Codes_for_MDRO_and_CDI_Summary_Data_LTC) (CONF:4544-31332).
   2. If this is a MDRO and CDI Monthly Summary Data Report, NHSN protocol requires, at the time of publication, the code shall be selected from [Codes for Denominators for Long Term Care Locations LTCF (2.16.840.1.113883.10.20.5.1.5.9.4)](#Codes_for_Denominators_for_Long_Term_Ca) (CONF:4544-31430).
   3. If this is a MDRO and CDI Monthly Summary Data Report, NHSN protocol requires, at the time of publication, the code shall be selected from [Codes for Prevention Process Measures LTCF (2.16.840.1.113883.10.20.5.1.5.9.5)](#Codes_for_Prevention_Process_Measures_L) (CONF:4544-31431).
5. SHALL contain exactly one [1..1] statusCode (CONF:4544-31322).
   1. This statusCode SHALL contain exactly one [1..1] @code="completed" Completed (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:4544-31334).
6. SHALL contain exactly one [1..1] value (CONF:4544-31323).
   1. If the observation reports a number of days, the value of value/xsi:type SHALL be PQ and the value of value/@unit SHALL be d. If the observation reports a number of residents, episodes, or events the value of value/@xsi:type SHALL be INT. If the value is a code, the value of value/@xsi:type SHALL be CD (CONF:4544-31335).

Table 50: Codes for MDRO and CDI Summary Data LTCF

|  |  |  |  |
| --- | --- | --- | --- |
| Value Set: Codes for MDRO and CDI Summary Data LTCF urn:oid:2.16.840.1.113883.10.20.5.1.5.9.2  (Clinical Focus: NHSN surveillance reporting: monthly reporting denominators for LTCF),(Data Element Scope: Code identifying the type of observation.),(Inclusion Criteria: ),(Exclusion Criteria: )  This value set was imported on 9/16/2020 with a version of Latest.  Value Set Source: <https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.10.20.5.1.5.9.2/expansion> | | | |
| Code | Code System | Code System OID | Print Name |
| 1369-8 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Resident days |
| 1370-6 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Resident admissions |
| 1371-4 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Number of admissions on C. difficile treatment |
| 1372-2 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Number of C. difficile treatment starts |

Table 51: Codes for Denominators for Long Term Care Locations LTCF

|  |  |  |  |
| --- | --- | --- | --- |
| Value Set: Codes for Denominators for Long Term Care Locations LTCF urn:oid:2.16.840.1.113883.10.20.5.1.5.9.4  NHSN surveillance reporting: monthly reporting denominators for long term care locations (LTCF)  Value Set Source: <https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.10.20.5.1.5.9.4/expansion> | | | |
| Code | Code System | Code System OID | Print Name |
| 1343-3 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | New antibiotic starts for UTI indication |
| 1344-1 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Number of urine cultures ordered |
| 1853-1 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Number of urinary catheter days |
| 1345-8 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Total resident days |

Table 52: Codes for Prevention Process Measures LTCF

|  |  |  |  |
| --- | --- | --- | --- |
| Value Set: Codes for Prevention Process Measures LTCF urn:oid:2.16.840.1.113883.10.20.5.1.5.9.5  Clinical Focus Clinical FocusNHSN surveillance reporting: monthly reporting prevention process measures (LTCF).  Value Set Source: <https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.10.20.5.1.5.9.5/expansion> | | | |
| Code | Code System | Code System OID | Print Name |
| 1866-3 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Number of observations in which hand hygiene was indicated |
| 1865-5 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Number of observations in which hand hygiene was performed |
| 1866-3 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Number of observations in which the use of gown and gloves was indicated |
| 1867-1 | CDCNHSN | urn:oid:2.16.840.1.113883.6.277 | Number of observations in which gown and gloves were used |

Figure 15: Summary Data Observation LTCF (V2) Example

<observation classCode="OBS" moodCode="EVN">

<!-- [HAI LTCF R1D1.1] Summary Data Observation LTCF (V2) -->

<templateId root="2.16.840.1.113883.10.20.5.1.3.14" extension="2023-02-01" />

<code codeSystem="2.16.840.1.113883.6.277" codeSystemName="cdcNHSN" code="1369-8"

displayName="Resident days" />

<statusCode code="completed" />

<value xsi:type="PQ" unit="d" value="100" />

</observation>

Summary Encounter LTCF (V2)

[encounter: identifier urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.15:2023-02-01 (closed)]

Draft as part of NHSN Healthcare Associated Infection (HAI) Report for Long Term Care Facilities (LTCF), Release 1, STU 1.1 - US Realm

Table 53: Summary Encounter LTCF (V2) Contexts

| Contained By: | Contains: |
| --- | --- |
| [Summary Data Section LTCF (V2)](#S_Summary_Data_Section_LTCF_V2) (required) | [Summary Data Observation LTCF (V2)](#E_Summary_Data_Observation_LTCF_V2) (required) |

This template records a set of summary data for a population in the defined NHSN protocol. Each datum is recorded as a Summary Data Observation LTCF. The table of codes for a particular report indicate what data are required at time of publication for the NHSN protocol. Accordingly, the Summary Encounter LTCF will contain the same number of Summary Data Observation LTCFs as codes in the table. A participant element records the location to which the data pertains. It has three parts: a location id, a location type code, and a scoping entity. The location id has the form <id root=”…” extension=”…”/> representing a location such as ward 9W, or <id root=”…”/> representing the whole facility (i.e., FACWIDEIN).

Table 54: Summary Encounter LTCF (V2) Constraints Overview

| XPath | Card. | Verb | Data Type | CONF# | Value |
| --- | --- | --- | --- | --- | --- |
| encounter (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.15:2023-02-01) | | | | | |
| @classCode | 1..1 | SHALL |  | [4544-31342](#C_4544-31342) | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ENC |
| @moodCode | 1..1 | SHALL |  | [4544-31343](#C_4544-31343) | urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN |
| templateId | 1..1 | SHALL |  | [4544-31337](#C_4544-31337) |  |
| @root | 1..1 | SHALL |  | [4544-31344](#C_4544-31344) | 2.16.840.1.113883.10.20.5.1.3.15 |
| @extension | 1..1 | SHALL |  | [4544-31351](#C_4544-31351) | 2023-02-01 |
| participant | 1..1 | SHALL |  | [4544-31338](#C_4544-31338) |  |
| @typeCode | 1..1 | SHALL |  | [4544-31345](#C_4544-31345) | urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = LOC |
| participantRole | 1..1 | SHALL |  | [4544-31339](#C_4544-31339) |  |
| @classCode | 1..1 | SHALL |  | [4544-31346](#C_4544-31346) | urn:oid:2.16.840.1.113883.5.41 (HL7EntityClass) = SDLOC |
| id | 1..1 | SHALL |  | [4544-31362](#C_4544-31362) |  |
| @root | 1..1 | SHALL |  | [4544-31363](#C_4544-31363) |  |
| @extension | 1..1 | SHALL |  | [4544-31364](#C_4544-31364) |  |
| entryRelationship | 1..\* | SHALL |  | [4544-31340](#C_4544-31340) |  |
| @typeCode | 1..1 | SHALL |  | [4544-31350](#C_4544-31350) | urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = COMP |
| observation | 1..1 | SHALL |  | [4544-31341](#C_4544-31341) | [Summary Data Observation LTCF (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.14:2023-02-01](#E_Summary_Data_Observation_LTCF_V2) |

1. SHALL contain exactly one [1..1] @classCode="ENC" Encounter (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC) (CONF:4544-31342).
2. SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC) (CONF:4544-31343).
3. SHALL contain exactly one [1..1] templateId (CONF:4544-31337) such that it
   1. SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.5.1.3.15" (CONF:4544-31344).
   2. SHALL contain exactly one [1..1] @extension="2023-02-01" (CONF:4544-31351).
4. SHALL contain exactly one [1..1] participant (CONF:4544-31338) such that it
   1. SHALL contain exactly one [1..1] @typeCode="LOC" Location (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC) (CONF:4544-31345).
   2. SHALL contain exactly one [1..1] participantRole (CONF:4544-31339).
      1. This participantRole SHALL contain exactly one [1..1] @classCode="SDLOC" Service Delivery Location (CodeSystem: HL7EntityClass urn:oid:2.16.840.1.113883.5.41 STATIC) (CONF:4544-31346).
      2. This participantRole SHALL contain exactly one [1..1] id (CONF:4544-31362).

The value of @root must be the NHSN assigned Facility OID.

* + - 1. This id SHALL contain exactly one [1..1] @root (CONF:4544-31363).  
         Note: Facility ID #

The value of @extension must be a value registered with NHSN

* + - 1. This id SHALL contain exactly one [1..1] @extension (CONF:4544-31364).  
         Note: Location Code=FACWIDEIN

1. SHALL contain at least one [1..\*] entryRelationship (CONF:4544-31340) such that it
   1. SHALL contain exactly one [1..1] @typeCode="COMP" Has component (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:4544-31350).
   2. SHALL contain exactly one [1..1] [Summary Data Observation LTCF (V2)](#E_Summary_Data_Observation_LTCF_V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.14:2023-02-01) (CONF:4544-31341).

Figure 16: Summary Encounter LTCF Example

<entry typeCode="DRIV">

<encounter classCode="ENC" moodCode="EVN">

<!-- [HAI LTCF R1D1.1] Summary Encounter LTCF (V2) -->

<templateId root="2.16.840.1.113883.10.20.5.1.3.15" extension="2023-02-01" />

<!-- the location id and type -->

<participant typeCode="LOC">

<participantRole classCode="SDLOC">

<!-- In-facility locations, FACWIDEIN,require the root with an extension and code element. -->

<id root="2.16.840.1.113883.3.117.1.1.5.1.1" extension="FACWIDEIN" />

<code codeSystem="2.16.840.1.113883.6.259"

codeSystemName="HL7 HealthCareServiceLocation" code="1250-0"

displayName="Facility-Wide Inpatient (FACWIDEIN)" />

</participantRole>

</participant>

<!-- Total number of Resident Days -->

<entryRelationship typeCode="COMP">

...

</entryRelationship>

<!-- Number of Resident admissions -->

<entryRelationship typeCode="COMP">

...

</entryRelationship>

<!-- Number of Resident admissions on C. diff Treatment -->

<entryRelationship typeCode="COMP">

...

</entryRelationship>

<!-- number of C. diff Treatment starts -->

<entryRelationship typeCode="COMP">

...

</entryRelationship>

</encounter>

</entry>

Transfer From Acute Care Facility to LTCF in Past Four Weeks

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.5:2019-08-01 (closed)]

Published as part of NHSN Healthcare Associated Infection (HAI) Report for Long Term Care Facilities (LTCF), Release 1, STU 1 - US Realm

Table 55: Transfer From Acute Care Facility to LTCF in Past Four Weeks Contexts

| Contained By: | Contains: |
| --- | --- |
| [Encounters Section in an LTCF Report](#S_Encounters_Section_in_an_LTCF_Report) (required) | [Antibiotic Treatment at Time of Transfer](#E_Antibiotic_Treatment_at_Time_of_Trans) (optional) |

This observation records whether the resident was transferred from an acute care facility to the LTCF in the four weeks prior to the positive specimen collection date.

If the resident was transferred from an acute facility in the past four weeks, set value='true', effectiveTime/low to the date of transfer, and include the contained template Antibiotic Treatment at Time of Transfer to LTCF.

If the resident was not transferred from an acute facility in the past four weeks, set the value='false', effectiveTime/@nullFlavor="NA". NOTE: If the resident was transferred from an acute care facility in the last four weeks, the template SHALL contain 'Antibiotic Treatment at Time of Transfer’. If the resident was not transferred from an acute care facility in the past four weeks, the optional contained template 'Antibiotic Therapy Treatment at Time of Transfer’ SHALL NOT be present.

Table 56: Transfer From Acute Care Facility to LTCF in Past Four Weeks Constraints Overview

| XPath | Card. | Verb | Data Type | CONF# | Value |
| --- | --- | --- | --- | --- | --- |
| observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.5:2019-08-01) | | | | | |
| @classCode | 1..1 | SHALL |  | [4417-31376](#C_4417-31376) | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS |
| @moodCode | 1..1 | SHALL |  | [4417-31377](#C_4417-31377) | urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN |
| templateId | 1..1 | SHALL |  | [4417-31372](#C_4417-31372) |  |
| @root | 1..1 | SHALL |  | [4417-31378](#C_4417-31378) | 2.16.840.1.113883.10.20.5.1.3.5 |
| @extension | 1..1 | SHALL |  | [4417-31379](#C_4417-31379) | 2019-08-01 |
| code | 1..1 | SHALL |  | [4417-31370](#C_4417-31370) |  |
| @code | 1..1 | SHALL |  | [4417-31373](#C_4417-31373) | 1374-8 |
| @codeSystem | 1..1 | SHALL |  | [4417-31386](#C_4417-31386) | urn:oid:2.16.840.1.113883.6.277 (CDCNHSN) |
| statusCode | 1..1 | SHALL |  | [4417-31371](#C_4417-31371) |  |
| @code | 1..1 | SHALL |  | [4417-31374](#C_4417-31374) | urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed |
| effectiveTime | 1..1 | SHALL |  | [4417-31380](#C_4417-31380) |  |
| @nullFlavor | 0..1 | MAY |  | [4417-31416](#C_4417-31416) | urn:oid:2.16.840.1.113883.5.1008 (HL7NullFlavor) = NA |
| low | 0..1 | SHOULD |  | [4417-31390](#C_4417-31390) |  |
| value | 1..1 | SHALL | BL | [4417-31375](#C_4417-31375) |  |
| entryRelationship | 0..1 | MAY |  | [4417-31381](#C_4417-31381) |  |
| observation | 1..1 | SHALL |  | [4417-31382](#C_4417-31382) | [Antibiotic Treatment at Time of Transfer (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.12:2019-08-01](#E_Antibiotic_Treatment_at_Time_of_Trans) |

1. SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC) (CONF:4417-31376).
2. SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC) (CONF:4417-31377).
3. SHALL contain exactly one [1..1] templateId (CONF:4417-31372) such that it
   1. SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.5.1.3.5" (CONF:4417-31378).
   2. SHALL contain exactly one [1..1] @extension="2019-08-01" (CONF:4417-31379).
4. SHALL contain exactly one [1..1] code (CONF:4417-31370).
   1. This code SHALL contain exactly one [1..1] @code="1374-8" Resident transferred from acute care facility in past 4 weeks (CONF:4417-31373).
   2. This code SHALL contain exactly one [1..1] @codeSystem (CodeSystem: CDCNHSN urn:oid:2.16.840.1.113883.6.277) (CONF:4417-31386).
5. SHALL contain exactly one [1..1] statusCode (CONF:4417-31371).
   1. This statusCode SHALL contain exactly one [1..1] @code="completed" Completed (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:4417-31374).

If the resident was not transferred from an acute facility in the past four weeks, set the effectiveTime/@nullFlavor to NA.  
If the resident was transferred from an acute facility in the past four weeks, set effectiveTime/low to the date of transfer.

1. SHALL contain exactly one [1..1] effectiveTime (CONF:4417-31380).
   1. This effectiveTime MAY contain zero or one [0..1] @nullFlavor="NA" Not Applicable (CodeSystem: HL7NullFlavor urn:oid:2.16.840.1.113883.5.1008) (CONF:4417-31416).
   2. This effectiveTime SHOULD contain zero or one [0..1] low (CONF:4417-31390).  
      Note: Date of last transfer from acute care to your facility
2. SHALL contain exactly one [1..1] value with @xsi:type="BL" (CONF:4417-31375).  
   Note: Has resident been transferred from an acute care facility in the past 4 weeks?

If the resident was transferred from an acute facility in the past four weeks, the contained template Antibiotic Treatment at Time of Transfer in a Lab Identified Report LTCF SHALL be included.

1. MAY contain zero or one [0..1] entryRelationship (CONF:4417-31381).
   1. The entryRelationship, if present, SHALL contain exactly one [1..1] [Antibiotic Treatment at Time of Transfer](#E_Antibiotic_Treatment_at_Time_of_Trans) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.12:2019-08-01) (CONF:4417-31382).

Figure 17: Transfer From Acute Care Facility to LTCF in Past Four Weeks = TRUE Example

<observation classCode="OBS" moodCode="EVN">

<!-- [HAI LTCF R1D1] Transfer From Acute Care Facility to LTCF in Past Four Weeks -->

<templateId root="2.16.840.1.113883.10.20.5.1.3.5"

extension="2019-08-01" />

<code code="1374-8"

displayName="Resident transferred from acute care facility in past 4 weeks"

codeSystem="2.16.840.1.113883.6.277" codeSystemName="cdcNHSN" />

<statusCode code="completed" />

<!-- Date of transfer from acute care to LTCF -->

<effectiveTime>

<low value="20190125" />

</effectiveTime>

<value xsi:type="BL" value="true"/>

<entryRelationship typeCode="REFR">

<!-- Resident on antibiotic therapy for this specific organism at the time of transfer -->

<observation classCode="OBS" moodCode="EVN">

<!-- [HAI LTCF R1D1] Antibiotic Treatment at Time of Transfer --> <templateId root="2.16.840.1.113883.10.20.5.1.3.12"

...

</observation>

</entryRelationship>

</observation>

Figure 18: Transfer From Acute Care Facility to LTCF in Past Four Weeks= FALSE Example

<!-- The Resident has not been transferred from an acute facility in

the past 4 weeks? Value = FALSE -->

<observation classCode="OBS" moodCode="EVN">

<!-- [HAI LTCF R1D1] Transfer From Acute Care Facility to LTCF in

Past Four Weeks -->

<templateId root="2.16.840.1.113883.10.20.5.1.3.5"

extension="2019-08-01" />

<code code="1374-8"

displayName="Resident transferred from acute care facility

in past 4 weeks"

codeSystem="2.16.840.1.113883.6.277" codeSystemName="cdcNHSN" />

<statusCode code="completed" />

<!-- Date of transfer from acute care to LTCF is NA because

there was no transfer -->

<effectiveTime nullFlavor="NA" />

<!-- The resident was not transferred from acute care in the

past 4 weeks -->

<value xsi:type="BL" value="false"/>

</observation>

# Template Ids in This Guide

Table 57: Template List

| Template Title | Template Type | templateId |
| --- | --- | --- |
| [HAI Population Summary Report Generic Constraints](#D_HAI_Population_Summary_Report_Generic) | document | urn:oid:2.16.840.1.113883.10.20.5.4.28 |
| [HAI Single-Person Report Generic Constraints LTCF (V2)](#D_HAI_SinglePerson_Report_Gen_LTCF_V2) | document | urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.3:2023-02-01 |
| [Healthcare Associated Infection Report](#D_Healthcare_Associated_Infection_Repor) | document | urn:oid:2.16.840.1.113883.10.20.5.4.25 |
| [Laboratory Identified MDRO or CDI Event Report for LTCF (V2)](#D_Laboratory_Identified_MDRO_or_CDI_V2) | document | urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.1:2023-02-01 |
| [LTCF Monthly Summary Data for MDRO, CDI, UTI, and Prevention Process Measures (V2)](#D_LTCF_Monthly_Summary_Data_for_MDRO_CD) | document | urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.2:2023-02-01 |
| [Encounters Section in an LTCF Report](#S_Encounters_Section_in_an_LTCF_Report) | section | urn:hl7ii:2.16.840.1.113883.10.20.5.1.2.2:2019-08-01 |
| [Findings Section in a Laboratory Identified Report LTCF](#S_Findings_Section_in_a_Laboratory_Iden) | section | urn:hl7ii:2.16.840.1.113883.10.20.5.1.2.1:2019-08-01 |
| [HAI Section Generic Constraints](#S_HAI_Section_Generic_Constraints) | section | urn:oid:2.16.840.1.113883.10.20.5.4.26 |
| [NHSN Comment Section](#S_NHSN_Comment_Section) | section | urn:hl7ii:2.16.840.1.113883.10.20.5.5.61:2017-04-01 |
| [Report No Events Section](#S_Report_No_Events_Section) | section | urn:hl7ii:2.16.840.1.113883.10.20.5.5.62:2018-04-01 |
| [Summary Data Section LTCF (V2)](#S_Summary_Data_Section_LTCF_V2) | section | urn:hl7ii:2.16.840.1.113883.10.20.5.1.2.3:2023-02-01 |
| [Antibiotic Treatment at Time of Transfer](#E_Antibiotic_Treatment_at_Time_of_Trans) | entry | urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.12:2019-08-01 |
| [First Admission Encounter in a Lab Identified Report LTCF](#E_First_Admission_Encounter_in_a_Lab_Id) | entry | urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.4:2019-08-01 |
| [NHSN Comment](#E_NHSN_Comment) | entry | urn:hl7ii:2.16.840.1.113883.10.20.5.6.243:2017-04-01 |
| [Pathogen Identified Observation in a Lab Identified Report LTCF](#E_Pathogen_Identified_Observation_in_a_) | entry | urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.3:2019-08-01 |
| [Report No Events](#E_Report_No_Events) | entry | urn:hl7ii:2.16.840.1.113883.10.20.5.6.249:2018-04-01 |
| [Specimen Collection Procedure in a Lab Identified Report LTCF](#E_Specimen_Collection_Procedure_in_a_La) | entry | urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.2:2019-08-01 |
| [Summary Data Observation LTCF (V2)](#E_Summary_Data_Observation_LTCF_V2) | entry | urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.14:2023-02-01 |
| [Summary Encounter LTCF (V2)](#E_Summary_Encounter_LTCF_V2) | entry | urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.15:2023-02-01 |
| [Transfer From Acute Care Facility to LTCF in Past Four Weeks](#E_Transfer_From_Acute_Care_Facility_to_) | entry | urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.5:2019-08-01 |

Table 58: Template Containments

| Template Title | Template Type | templateId |
| --- | --- | --- |
| [HAI Population Summary Report Generic Constraints](#D_HAI_Population_Summary_Report_Generic) | document | urn:oid:2.16.840.1.113883.10.20.5.4.28 |
| [HAI Single-Person Report Generic Constraints LTCF (V2)](#D_HAI_SinglePerson_Report_Gen_LTCF_V2) | document | urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.3:2023-02-01 |
| [Healthcare Associated Infection Report](#D_Healthcare_Associated_Infection_Repor) | document | urn:oid:2.16.840.1.113883.10.20.5.4.25 |
| [Laboratory Identified MDRO or CDI Event Report for LTCF (V2)](#D_Laboratory_Identified_MDRO_or_CDI_V2) | document | urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.1:2023-02-01 |
| [NHSN Comment Section](#S_NHSN_Comment_Section) | section | urn:hl7ii:2.16.840.1.113883.10.20.5.5.61:2017-04-01 |
| [NHSN Comment](#E_NHSN_Comment) | entry | urn:hl7ii:2.16.840.1.113883.10.20.5.6.243:2017-04-01 |
| [Findings Section in a Laboratory Identified Report LTCF](#S_Findings_Section_in_a_Laboratory_Iden) | section | urn:hl7ii:2.16.840.1.113883.10.20.5.1.2.1:2019-08-01 |
| [Pathogen Identified Observation in a Lab Identified Report LTCF](#E_Pathogen_Identified_Observation_in_a_) | entry | urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.3:2019-08-01 |
| [Specimen Collection Procedure in a Lab Identified Report LTCF](#E_Specimen_Collection_Procedure_in_a_La) | entry | urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.2:2019-08-01 |
| [Encounters Section in an LTCF Report](#S_Encounters_Section_in_an_LTCF_Report) | section | urn:hl7ii:2.16.840.1.113883.10.20.5.1.2.2:2019-08-01 |
| [First Admission Encounter in a Lab Identified Report LTCF](#E_First_Admission_Encounter_in_a_Lab_Id) | entry | urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.4:2019-08-01 |
| [Transfer From Acute Care Facility to LTCF in Past Four Weeks](#E_Transfer_From_Acute_Care_Facility_to_) | entry | urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.5:2019-08-01 |
| [Antibiotic Treatment at Time of Transfer](#E_Antibiotic_Treatment_at_Time_of_Trans) | entry | urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.12:2019-08-01 |
| [LTCF Monthly Summary Data for MDRO, CDI, UTI, and Prevention Process Measures (V2)](#D_LTCF_Monthly_Summary_Data_for_MDRO_CD) | document | urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.2:2023-02-01 |
| [Report No Events Section](#S_Report_No_Events_Section) | section | urn:hl7ii:2.16.840.1.113883.10.20.5.5.62:2018-04-01 |
| [Report No Events](#E_Report_No_Events) | entry | urn:hl7ii:2.16.840.1.113883.10.20.5.6.249:2018-04-01 |
| [Summary Data Section LTCF (V2)](#S_Summary_Data_Section_LTCF_V2) | section | urn:hl7ii:2.16.840.1.113883.10.20.5.1.2.3:2023-02-01 |
| [Summary Encounter LTCF (V2)](#E_Summary_Encounter_LTCF_V2) | entry | urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.15:2023-02-01 |
| [Summary Data Observation LTCF (V2)](#E_Summary_Data_Observation_LTCF_V2) | entry | urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.14:2023-02-01 |
| [HAI Section Generic Constraints](#S_HAI_Section_Generic_Constraints) | section | urn:oid:2.16.840.1.113883.10.20.5.4.26 |

# Value Sets In This Guide

Table 59: Value Sets

| Name | OID | URL |
| --- | --- | --- |
| [Administrative Gender (HL7 V3)](#Administrative_Gender_HL7_V3) | urn:oid:2.16.840.1.113883.1.11.1 | <https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.1/expansion> |
| [Codes for Denominators for Long Term Care Locations LTCF](#Codes_for_Denominators_for_Long_Term_Ca) | urn:oid:2.16.840.1.113883.10.20.5.1.5.9.4 | <https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.10.20.5.1.5.9.4/expansion> |
| [Codes for MDRO and CDI Summary Data LTCF](#Codes_for_MDRO_and_CDI_Summary_Data_LTC) | urn:oid:2.16.840.1.113883.10.20.5.1.5.9.2 | <https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.10.20.5.1.5.9.2/expansion> |
| [Codes for Prevention Process Measures LTCF](#Codes_for_Prevention_Process_Measures_L) | urn:oid:2.16.840.1.113883.10.20.5.1.5.9.5 | <https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.10.20.5.1.5.9.5/expansion> |
| [Ethnicity](#Ethnicity) | urn:oid:2.16.840.1.114222.4.11.837 | <https://vsac.nlm.nih.gov/valueset/2.16.840.1.114222.4.11.837/expansion> |
| [NHSNPopulationSummaryReportTypeCode](#NHSNPopulationSummaryReportTypeCode) | urn:oid:2.16.840.1.114222.4.11.3595 | <https://vsac.nlm.nih.gov/valueset/2.16.840.1.114222.4.11.3595/expansion> |
| [NHSNPrimaryResidentServiceType](#NHSNPrimaryResidentServiceType) | urn:oid:2.16.840.1.113883.10.20.5.1.5.9.3 | <https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.10.20.5.1.5.9.3/expansion> |
| [NHSNRaceCategory](#NHSNRaceCategory) | urn:oid:2.16.840.1.114222.4.11.7232 | <https://vsac.nlm.nih.gov/valueset/2.16.840.1.114222.4.11.7232/expansion> |
| [NHSNReportNoEventsAR](#NHSNReportNoEventsAR) | urn:oid:2.16.840.1.113883.10.20.5.9.35 | <https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.10.20.5.9.35/expansion> |
| [NHSNReportNoEventsDialysis](#NHSNReportNoEventsDialysis) | urn:oid:2.16.840.1.113883.10.20.5.9.22 | <https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.10.20.5.9.22/expansion> |
| [NHSNReportNoEventsICU](#NHSNReportNoEventsICU) | urn:oid:2.16.840.1.113883.10.20.5.9.18 | <https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.10.20.5.9.18/expansion> |
| [NHSNReportNoEventsMDRO](#NHSNReportNoEventsMDRO) | urn:oid:2.16.840.1.113883.10.20.5.9.21 | <https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.10.20.5.9.21/expansion> |
| [NHSNReportNoEventsMDROLTCF](#NHSNReportNoEventsMDROLTCF) | urn:oid:2.16.840.1.113883.10.20.5.1.9.1 | <https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.10.20.5.1.9.1/expansion> |
| [NHSNReportNoEventsNICU](#NHSNReportNoEventsNICU) | urn:oid:2.16.840.1.113883.10.20.5.9.19 | <https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.10.20.5.9.19/expansion> |
| [NHSNReportNoEventsOPCSameDayOutcomeMeasures](#NHSNReportNoEventsOPCSameDayOutcomeMeas) | urn:oid:2.16.840.1.113883.10.20.5.9.33 | <https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.10.20.5.9.33/expansion> |
| [NHSNReportNoEventsSCA](#NHSNReportNoEventsSCA) | urn:oid:2.16.840.1.113883.10.20.5.9.20 | <https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.10.20.5.9.20/expansion> |
| [NHSNSignificantPathogenCode](#NHSNSignificantPathogenCode) | urn:oid:2.16.840.1.114222.4.11.3194 | <https://vsac.nlm.nih.gov/valueset/2.16.840.1.114222.4.11.3194/expansion> |
| [NHSNSpecimenTypeCode](#NHSNSpecimenTypeCode) | urn:oid:2.16.840.1.114222.4.11.3249 | <https://vsac.nlm.nih.gov/valueset/2.16.840.1.114222.4.11.3249/expansion> |
| [Unknown or refused to answer](#Unknown_or_refused_to_answer) | urn:oid:2.16.840.1.113762.1.4.1021.102 | <https://vsac.nlm.nih.gov/valueset/2.16.840.1.113762.1.4.1021.102/expansion> |

# Code Systems in This Guide

Table 60: Code Systems

| Name | OID |
| --- | --- |
| Administrative Gender | urn:oid:2.16.840.1.113883.5.1 |
| CDCNHSN | urn:oid:2.16.840.1.113883.6.277 |
| CPT | urn:oid:2.16.840.1.113883.6.12 |
| Healthcare Provider Taxonomy (HIPAA) | urn:oid:2.16.840.1.113883.6.101 |
| HL7ActClass | urn:oid:2.16.840.1.113883.5.6 |
| HL7ActCode | urn:oid:2.16.840.1.113883.5.4 |
| HL7ActMood | urn:oid:2.16.840.1.113883.5.1001 |
| HL7ActRelationshipType | urn:oid:2.16.840.1.113883.5.1002 |
| HL7ActStatus | urn:oid:2.16.840.1.113883.5.14 |
| HL7Confidentiality | urn:oid:2.16.840.1.113883.5.25 |
| HL7ContextControl | urn:oid:2.16.840.1.113883.5.1057 |
| HL7EntityClass | urn:oid:2.16.840.1.113883.5.41 |
| HL7NullFlavor | urn:oid:2.16.840.1.113883.5.1008 |
| HL7ParticipationType | urn:oid:2.16.840.1.113883.5.90 |
| HL7RoleClass | urn:oid:2.16.840.1.113883.5.110 |
| HSLOC | urn:oid:2.16.840.1.113883.6.259 |
| LOINC | urn:oid:2.16.840.1.113883.6.1 |
| ObservationInterpretation | urn:oid:2.16.840.1.113883.5.83 |
| Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.238 |
| RxNorm | urn:oid:2.16.840.1.113883.6.88 |
| SNOMED CT | urn:oid:2.16.840.1.113883.6.96 |
| UCUM | urn:oid:2.16.840.1.113883.6.8 |

# Changes from Previous Version

HAI Single-Person Report Generic Constraints LTCF (V2)

[HAI Single-Person Report Generic Constraints LTCF (V2) (urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.3:2023-02-01)](#D_HAI_SinglePerson_Report_Gen_LTCF_V2)

| Change | Old | New |
| --- | --- | --- |
| Status | Published | Draft |
| Name | HAI Single-Person Report Generic Constraints LTCF | HAI Single-Person Report Generic Constraints LTCF (V2) |
| Oid | urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.3:2019-08-01 | urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.3:2023-02-01 |
| Description | This template records the constraints for HAI LTCF single-person reports. It is used by all numerator reports covered by this guide.  A single-person report must conform to the Healthcare Associated Infection Report template. In addition, key data about the resident are recorded in the recordTarget element.   • A resident identifier representing the facility-assigned resident ID is required. Other identifiers for the person can also be present, such as a Medicare beneficiary identifier (id/@root = 2.16.840.1.113883.4.338), and resident ID (id/@root = the appropriate facility OID for resident ID).  • The resident name is optional; consult the NHSN reporting protocol and requirements.  • Resident gender and birthdate are required. The report-specific requirements specify the encounter data to record for each single-person report type. These data always include an identifier for the reporting facility, and usually include the encounter type, the admission date or encounter date, and the facility unit identifier and type.   Note: The section on “Template Ids in this Guide” includes a containment table showing all the entries within each report type. | This template records the constraints for HAI LTCF single-person reports. It is used by all numerator reports covered by this guide.  A single-person report must conform to the Healthcare Associated Infection Report template. In addition, key data about the resident are recorded in the recordTarget element.  \* A resident identifier representing the facility-assigned resident ID is required. Other identifiers for the person can also be present, such as a Medicare beneficiary identifier (id/@root = 2.16.840.1.113883.4.338), and resident ID (id/@root = the appropriate facility OID for resident ID). \* The resident name is optional; consult the NHSN reporting protocol and requirements. \* Resident gender and birthdate are required. \* Resident race is optional and multiple races can be recorded, to represent an unknown race, set nullFlavor="UNK", to represent "declined to respond", set nullFlavor="ASKU". \* Resident ethnicity is optional, to represent an unknown ethnicity, set nullFlavor="UNK", to represent "declined to respond", set nullFlavor="ASKU".   The report-specific requirements specify the encounter data to record for each single-person report type. These data always include an identifier for the reporting facility, and usually include the encounter type, the admission date or encounter date, and the facility unit identifier and type.   Note: The section on “Template Ids in this Guide” includes a containment table showing all the entries within each report type. |
| CONF #: 4544-31416 Added |  | MAY contain zero or more [0..\*] sdtc:raceCode, which SHALL be selected from ValueSet NHSNRaceCategory urn:oid:2.16.840.1.114222.4.11.7232 DYNAMIC (CONF:4544-31416). |
| CONF #: 4544-31417 Added |  | To represent unknown, set nullFlavor="UNK". To represent "declined to respond", set nullFlavor="ASKU".  The raceCode, if present, MAY contain zero or one [0..1] @nullFlavor, which SHOULD be selected from ValueSet Unknown or refused to answer urn:oid:2.16.840.1.113762.1.4.1021.102 DYNAMIC (CONF:4544-31417). |
| CONF #: 4544-31418 Added |  | To represent unknown, set nullFlavor="UNK". To represent "declined to respond", set nullFlavor="ASKU".  The ethnicGroupCode, if present, MAY contain zero or one [0..1] @nullFlavor, which SHOULD be selected from ValueSet Unknown or refused to answer urn:oid:2.16.840.1.113762.1.4.1021.102 DYNAMIC (CONF:4544-31418). |
| CONF #: 4544-31415 Modified | SHALL contain exactly one [1..1] @extension="2019-08-01" (CONF:4417-31415). | SHALL contain exactly one [1..1] @extension="2023-02-01" (CONF:4544-31415). |

Laboratory Identified MDRO or CDI Event Report for LTCF (V2)

[Laboratory Identified MDRO or CDI Event Report for LTCF (V2) (urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.1:2023-02-01)](#D_Laboratory_Identified_MDRO_or_CDI_V2)

| Change | Old | New |
| --- | --- | --- |
| Status | Published | Draft |
| Name | Laboratory Identified MDRO or CDI Event Report for LTCF | Laboratory Identified MDRO or CDI Event Report for LTCF (V2) |
| Oid | urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.1:2019-08-01 | urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.1:2023-02-01 |
| Description | This report records the laboratory identification of a MDRO or CDI. These reports are submitted if the LTCF is monitoring the organism specified. Each report records a single event as indicated by the NHSN protocol.   Information regarding the resident's care location, type of primary service, and date of current admission are found in the header of this document.   This template represents the Laboratory-identified MDRO or CDI Event for LTCF form (CDC 57.138). It records the laboratory identification of key encounter data in the report such as: • The date of the current admission to the facility location where the specimen was collected is required and is recorded in encompassingEncounter/effectiveTime. • The date of specimen collection is recorded in effectiveTime in the Specimen Collection Procedure LTCF template.  Key Finding data in this report includes: • Information on the type of organism, the body site from which it was collected, and the date in which it was collected.   For further details on reporting C. difficile Infection (CDI) and Multidrug Resistant Organism (MDRO) LabID events in long-term care facilities see the NHSN website (https://www.cdc.gov/nhsn/). | This report records the laboratory identification of a MDRO or CDI. These reports are submitted if the LTCF is monitoring the organism specified. Each report records a single event as indicated by the NHSN protocol.   Information regarding the resident's care location, type of primary service, and date of current admission are found in the header of this document.   This template represents the Laboratory-identified MDRO or CDI Event for LTCF form (CDC 57.138). It records the laboratory identification of key encounter data in the report such as: \* The date of the current admission to the facility location where the specimen was collected is required and is recorded in encompassingEncounter/effectiveTime. \* The date of specimen collection is recorded in effectiveTime in the Specimen Collection Procedure LTCF template.  Key Finding data in this report includes: \* Information on the type of organism, the body site from which it was collected, and the date in which it was collected.   For further details on reporting C. difficile Infection (CDI) and Multidrug Resistant Organism (MDRO) LabID events in long-term care facilities see the NHSN website (https://www.cdc.gov/nhsn/). |
| Implied Template | HAI Single-Person Report Generic Constraints LTCF (urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.3:2019-08-01) | HAI Single-Person Report Generic Constraints LTCF (V2) (urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.3:2023-02-01) |
| CONF #: 4544-31419 Added |  | This structuredBody MAY contain zero or one [0..1] component (CONF:4544-31419) such that it |
| CONF #: 4544-31420 Added |  | SHALL contain exactly one [1..1] section (CONF:4544-31420). |
| CONF #: 4417-31417 Removed | This structuredBody MAY contain zero or one [0..1] component (CONF:4417-31417) such that it |  |
| CONF #: 4417-31418 Removed | SHALL contain exactly one [1..1] section (CONF:4417-31418). |  |
| CONF #: 4544-30999 Modified | SHALL contain exactly one [1..1] @extension="2019-08-01" (CONF:4417-30999). | SHALL contain exactly one [1..1] @extension="2023-02-01" (CONF:4544-30999). |

LTCF Monthly Summary Data for MDRO, CDI, UTI, and Prevention Process Measures (V2)

[LTCF Monthly Summary Data for MDRO, CDI, UTI, and Prevention Process Measures (V2) (urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.2:2023-02-01)](#D_LTCF_Monthly_Summary_Data_for_MDRO_CD)

| Change | Old | New |
| --- | --- | --- |
| Status | Published | Draft |
| Name | MDRO and CDI LabID Event Reporting Monthly Summary Data for LTCF | LTCF Monthly Summary Data for MDRO, CDI, UTI, and Prevention Process Measures (V2) |
| Oid | urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.2:2019-08-01 | urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.2:2023-02-01 |
| Description | This report records the monthly aggregate data for Multi-drug Resistant Organisms (MDRO) and Clostridioides difficile infection (CDI). It includes summary data observations and should be completed even if 'no events’ were reported for the month. The summary data are not required if there is no monthly reporting plan for a given month.   Facility id is required and represents the reporting facility, the location to which the data pertain and its associated Monthly Summary Report information. The first and last day of the period (month) being reported are required.  This template represents the MDRO and CDI LabID Event Reporting Monthly Summary Data for LTCF form (CDC 57.139). It records the monthly aggregate for the data sets listed in Value set NHSNPopulationSummaryReportTypeCode (2.16.840.1.114222.4.11.3595).   For further details on reporting healthcare-associated infections in long-term care facilities see the NHSN website (https://www.cdc.gov/nhsn/). The concepts reported in this document-type are defined for the NHSN "LabID Event Protocol for LTCF" and the corresponding data collection form. | This report records the monthly aggregate data for Multi-drug Resistant Organisms (MDRO) and Clostridioides difficile infection (CDI). It includes summary data observations and should be completed even if 'no events’ were reported for the month. The summary data are not required if there is no monthly reporting plan for a given month.   Facility id is required and represents the reporting facility, the location to which the data pertain and its associated Monthly Summary Report information. The first and last day of the period (month) being reported are required.  This template represents the following forms: \* Denominators for LTCF [(CDC 57.142)](https://www.cdc.gov/nhsn/forms/57.142\_DenominatorLTCF\_BLANK.pdf) \* MDRO and CDI Monthly Monitoring for LTCF [(CDC 57.139)](https://www.cdc.gov/nhsn/forms/57.139\_MDROMonthlyReporting\_LTCF\_BLANK.pdf) \* Prevention Process Measures Form for LTCF [(CDC 57.143)](https://www.cdc.gov/nhsn/forms/57.143\_ProcessMeasureSummaryforLTCF\_BLANK.pdf)  For further details on reporting healthcare-associated infections in long-term care facilities see the NHSN website (https://www.cdc.gov/nhsn/). |
| CONF #: 4544-31428 Added |  | The value of @root must be the NHSN assigned facility OID.  This id SHALL contain exactly one [1..1] @root (CONF:4544-31428).  Note: Facility ID |
| CONF #: 4544-31429 Added |  | This id SHALL contain exactly one [1..1] @extension="FACWIDEIN" (CONF:4544-31429).  Note: Location code |
| CONF #: 4417-31419 Removed | The value of @root must be the NHSN assigned facility OID.  This id SHALL contain exactly one [1..1] @root (CONF:4417-31419).  Note: Facility ID |  |
| CONF #: 4417-31420 Removed | This id SHALL contain exactly one [1..1] @extension="FACWIDEIN" (CONF:4417-31420).  Note: Location code |  |
| CONF #: 4544-31203 Modified | SHALL contain exactly one [1..1] @extension="2019-08-01" (CONF:4417-31203). | SHALL contain exactly one [1..1] @extension="2023-02-01" (CONF:4544-31203). |

Summary Data Observation LTCF (V2)

[Summary Data Observation LTCF (V2) (urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.14:2023-02-01)](#E_Summary_Data_Observation_LTCF_V2)

| Change | Old | New |
| --- | --- | --- |
| Status | Published | Draft |
| Name | Summary Data Observation LTCF | Summary Data Observation LTCF (V2) |
| Oid | urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.14:2019-08-01 | urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.14:2023-02-01 |
| CONF #: 4544-31430 Added |  | If this is a MDRO and CDI Monthly Summary Data Report, NHSN protocol requires, at the time of publication, the code shall be selected from [Codes for Denominators for Long Term Care Locations LTCF (2.16.840.1.113883.10.20.5.1.5.9.4)](#Codes\_for\_Denominators\_for\_Long\_Term\_Ca) (CONF:4544-31430). |
| CONF #: 4544-31431 Added |  | If this is a MDRO and CDI Monthly Summary Data Report, NHSN protocol requires, at the time of publication, the code shall be selected from [Codes for Prevention Process Measures LTCF (2.16.840.1.113883.10.20.5.1.5.9.5)](#Codes\_for\_Prevention\_Process\_Measures\_L) (CONF:4544-31431). |
| CONF #: 4544-31332 Modified | If this is a MDRO and CDI Monthly Summary Data Report, NHSN protocol requires, at the time of publication, the code shall be selected from Codes for MDRO and CDI Summary Data LTCF (2.16.840.1.113883.10.20.5.1.5.9.2) (CONF:4417-31332). | If this is a MDRO and CDI Monthly Summary Data Report, NHSN protocol requires, at the time of publication, the code shall be selected from [Codes for MDRO and CDI Summary Data LTCF (2.16.840.1.113883.10.20.5.1.5.9.2)](#Codes\_for\_MDRO\_and\_CDI\_Summary\_Data\_LTC) (CONF:4544-31332). |
| CONF #: 4544-31336 Modified | SHALL contain exactly one [1..1] @extension="2019-08-01" (CONF:4417-31336). | SHALL contain exactly one [1..1] @extension="2023-02-01" (CONF:4544-31336). |

Summary Encounter LTCF (V2)

[Summary Encounter LTCF (V2) (urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.15:2023-02-01)](#E_Summary_Encounter_LTCF_V2)

| Change | Old | New |
| --- | --- | --- |
| Status | Published | Draft |
| Name | Summary Encounter LTCF | Summary Encounter LTCF (V2) |
| Oid | urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.15:2019-08-01 | urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.15:2023-02-01 |
| CONF #: 4544-31351 Modified | SHALL contain exactly one [1..1] @extension="2019-08-01" (CONF:4417-31351). | SHALL contain exactly one [1..1] @extension="2023-02-01" (CONF:4544-31351). |

Summary Data Section LTCF (V2)

[Summary Data Section LTCF (V2) (urn:hl7ii:2.16.840.1.113883.10.20.5.1.2.3:2023-02-01)](#S_Summary_Data_Section_LTCF_V2)

| Change | Old | New |
| --- | --- | --- |
| Status | Published | Draft |
| Name | Summary Data Section LTCF | Summary Data Section LTCF (V2) |
| Oid | urn:hl7ii:2.16.840.1.113883.10.20.5.1.2.3:2019-08-01 | urn:hl7ii:2.16.840.1.113883.10.20.5.1.2.3:2023-02-01 |
| CONF #: 4544-31194 Modified | SHALL contain exactly one [1..1] @extension="2019-08-01" (CONF:4417-31194). | SHALL contain exactly one [1..1] @extension="2023-02-01" (CONF:4544-31194). |