



HL7 CDA® R2 Implementation Guide:
National Healthcare Safety Network (NHSN) Healthcare
Associated Infection (HAI) Reports for Long Term Care
Facilities,
Release 1, STU 2
(US Realm)

HL7 STU Ballot

Volume 2—Templates and Supporting

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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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1 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 urn:oid:2.16.840.1.113883.10.20.5.4.28	N/A	N/A
HAI Single-Person Report Generic Constraints LTCF (V4) urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.3:2024-05-01	NHSN Social History Section (V3)	N/A
Healthcare Associated Infection Report 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 (V4) urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.1:2024-05-01	Findings Section in a Laboratory Identified Report LTCF Encounters Section in an LTCF Report	NHSN Comment Section
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	Summary Data Section LTCF (V2)	Report No Events Section

1.1 Healthcare Associated Infection Report

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

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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	
@code	1..1	SHALL	CD	86-18432	US
typeId	1..1	SHALL		86-18463	
@root	1..1	SHALL		86-18464	2.16.840.1.113883.1.3
@extension	1..1	SHALL		86-18465	POCD_HD000040
templateId	1..1	SHALL		86-18460	
@root	1..1	SHALL		86-18461	2.16.840.1.113883.10.20.5.4.25
@extension	0..0	SHALL NOT		86-18462	
id	1..1	SHALL		86-18466	
@root	0..1	MAY		86-18467	
@extension	0..1	MAY		86-18468	
code	1..1	SHALL		86-18433	
@code	1..1	SHALL		86-18434	51897-7
@codeSystem	1..1	SHALL		86-27413	urn:oid:2.16.840.1.113883.6.1 (LOINC)
title	1..1	SHALL		86-18435	
effectiveTime	1..1	SHALL		86-18436	
confidentialityCode	1..1	SHALL		86-18437	
@code	1..1	SHALL	CD	86-18438	urn:oid:2.16.840.1.113883.5.25 (HL7Confidentiality) = N
languageCode	1..1	SHALL		86-18439	
@code	1..1	SHALL		86-18440	en-US
setId	1..1	SHALL		86-18441	
versionNumber	1..1	SHALL		86-18442	
recordTarget	1..*	SHALL		86-18472	
author	1..*	SHALL		86-18473	
custodian	1..1	SHALL		86-18443	
assignedCustodian	1..1	SHALL		86-18444	
representedCustodianOrganization	1..1	SHALL		86-18445	
id	1..1	SHALL		86-18446	
@root	1..1	SHALL		86-18447	2.16.840.1.114222.4.3.2.11
legalAuthenticator	0..1	SHOULD		86-18474	
relatedDocument	0..*	MAY		86-18469	
@typeCode	1..1	SHALL		86-18470	urn:oid:2.16.840.1.113883.5.1

XPath	Card.	Verb	Data Type	CONF#	Value
					002 (HL7ActRelationshipType) = RPLC
parentDocument	1..1	SHALL		86-28401	
id	1..*	SHALL		86-28402	
component	1..1	SHALL		86-18448	
structuredBody	1..1	SHALL		86-18449	
component	1..*	SHALL		86-18475	

1. **SHALL** contain exactly one [1..1] **realmCode** (CONF:86-18431).
 - a. This realmCode **SHALL** contain exactly one [1..1] **@code**="US" (CONF:86-18432).
2. **SHALL** contain exactly one [1..1] **typeId** (CONF:86-18463).
 - a. This typeId **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.1.3" (CONF:86-18464).
 - b. 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
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.5.4.25" (CONF:86-18461).
 - b. **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.

4. **SHALL** contain exactly one [1..1] **id** (CONF:86-18466).
 - a. This id **MAY** contain zero or one [0..1] **@root** (CONF:86-18467).
 - b. This id **MAY** contain zero or one [0..1] **@extension** (CONF:86-18468).
5. **SHALL** contain exactly one [1..1] **code** (CONF:86-18433).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="51897-7" Healthcare Associated Infection Report (CONF:86-18434).
 - b. 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.

6. **SHALL** contain exactly one [1..1] **title** (CONF:86-18435).
7. **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.

8. **SHALL** contain exactly one [1..1] **confidentialityCode** (CONF:86-18437).
 - a. 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).
9. **SHALL** contain exactly one [1..1] **languageCode** (CONF:86-18439).
 - a. This languageCode **SHALL** contain exactly one [1..1] @code="en-US" (CONF:86-18440).
10. **SHALL** contain exactly one [1..1] **setId** (CONF:86-18441).
11. **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.

12. **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.

13. **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.

14. **SHALL** contain exactly one [1..1] **custodian** (CONF:86-18443).
 - a. This custodian **SHALL** contain exactly one [1..1] **assignedCustodian** (CONF:86-18444).
 - i. 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).
 - a. 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.

15. **SHOULD** contain zero or one [0..1] **legalAuthenticator** (CONF:86-18474).

16. **MAY** contain zero or more [0..*] **relatedDocument** (CONF:86-18469).

- a. 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).
- b. The relatedDocument, if present, **SHALL** contain exactly one [1..1] **parentDocument** (CONF:86-28401).
 - i. 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).
- c. If versionNumber/@value is greater than 1, a relatedDocument element **SHALL** be present (CONF:86-18471).

17. **SHALL** contain exactly one [1..1] **component** (CONF:86-18448).

- a. This component **SHALL** contain exactly one [1..1] **structuredBody** (CONF:86-18449).
 - i. This structuredBody **SHALL** contain at least one [1..*] **component** (CONF:86-18475).
 - ii. 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>
```

1.1.1.1 HAI Population Summary Report Generic Constraints

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

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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:
 - A Summary Encounter records the location to which the data pertain.
 - 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,
 - The effectiveTime element records the first and last days of the period reported.
 - 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	
@root	1..1	SHALL		86-22432	2.16.840.1.113883.10.20.5.4.28
recordTarget	1..1	SHALL		86-22433	
patientRole	1..1	SHALL		86-22434	
id	1..1	SHALL		86-22435	
@nullFlavor	1..1	SHALL		86-22436	NA
participant	1..1	SHALL		86-22437	
@typeCode	1..1	SHALL		86-22438	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = SBJ
@contextControlCode	1..1	SHALL	CS	86-22439	urn:oid:2.16.840.1.113883.5.1057 (HL7ContextControl) = OP
associatedEntity	1..1	SHALL		86-22440	
@classCode	1..1	SHALL		86-22441	urn:oid:2.16.840.1.113883.5.41 (HL7EntityClass) = PRS
code	1..1	SHALL		86-22442	
@code	1..1	SHALL		86-22443	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 389109008
participant	1..1	SHALL		86-22444	
@typeCode	1..1	SHALL		86-22445	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = LOC
associatedEntity	1..1	SHALL		86-22447	
@classCode	1..1	SHALL		86-22448	urn:oid:2.16.840.1.113883.5.110 (HL7RoleClass) = SDLOC
id	1..1	SHALL		86-22449	
@root	1..1	SHALL		86-22450	
documentationOf	1..1	SHALL		86-22451	
serviceEvent	1..1	SHALL		86-22452	
@classCode	1..1	SHALL		86-22453	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = CASE
code	1..1	SHALL		86-22454	urn:oid:2.16.840.1.114222.4.11.3595 (NHSNPopulationSummaryReportTypeCode)
effectiveTime	1..1	SHALL		86-22456	
low	1..1	SHALL		86-22457	
high	1..1	SHALL		86-22458	

1. Conforms to [Healthcare Associated Infection Report](#) 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
 - a. **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).
 - a. This recordTarget **SHALL** contain exactly one [1..1] **patientRole** (CONF:86-22434).
 - i. 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
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="SBJ" Subject (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 **STATIC**) (CONF:86-22438).
 - b. **SHALL** contain exactly one [1..1] **@contextControlCode**="OP" (CodeSystem: HL7ContextControl urn:oid:2.16.840.1.113883.5.1057 **STATIC**) (CONF:86-22439).
 - c. **SHALL** contain exactly one [1..1] **associatedEntity** (CONF:86-22440).
 - i. 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).
 - ii. 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
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="LOC" Location (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 **STATIC**) (CONF:86-22445).
 - b. **SHALL** contain exactly one [1..1] **associatedEntity** (CONF:86-22447).
 - i. 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).
 - ii. 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).
6. **SHALL** contain exactly one [1..1] **documentationOf** (CONF:86-22451).
 - a. This documentationOf **SHALL** contain exactly one [1..1] **serviceEvent** (CONF:86-22452).
 - i. 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).

- ii. This serviceEvent **SHALL** contain exactly one [1..1] **code**, which **SHALL** be selected from ValueSet [NHSNPopulationSummaryReportTypeCode](#) urn:oid:2.16.840.1.114222.4.11.3595 **DYNAMIC** (CONF:86-22454).
 - iii. 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).
7. 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
...			

1.1.2 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)]

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

Contained By:	Contains:
	Report No Events Section (optional) 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 [\(CDC 57.142\)](#)
- MDRO and CDI Monthly Monitoring for LTCF [\(CDC 57.139\)](#)
- Prevention Process Measures Form for LTCF [\(CDC 57.143\)](#)

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	
@root	1..1	SHALL		4544-31202	2.16.840.1.113883.10.20.5.1.1.2
@extension	1..1	SHALL		4544-31203	2023-02-01
title	1..1	SHALL		4544-31248	
participant	1..1	SHALL		4544-31268	
associatedEntity	1..1	SHALL		4544-31269	
id	1..1	SHALL		4544-31273	
@root	1..1	SHALL		4544-31428	
@extension	1..1	SHALL		4544-31429	FACWIDEIN
participant	1..1	SHALL		4544-31270	
associatedEntity	1..1	SHALL		4544-31271	
code	1..1	SHALL		4544-31272	
@code	1..1	SHALL		4544-31274	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 389109008
documentationOf	1..1	SHALL		4544-31262	
serviceEvent	1..1	SHALL		4544-31263	
code	1..1	SHALL		4544-31391	
@code	1..1	SHALL		4544-31392	1891-1
@codeSystem	1..1	SHALL		4544-31393	urn:oid:2.16.840.1.113883.6.277 (CDCNHSN) = 2.16.840.1.113883.6.277
effectiveTime	1..1	SHALL		4544-31264	
low	1..1	SHALL		4544-31266	
high	1..1	SHALL		4544-	

XPath	Card.	Verb	Data Type	CONF#	Value
				31267	
component	1..1	SHALL		4544-31197	
structuredBody	1..1	SHALL		4544-31198	
component	1..1	SHALL		4544-31199	
section	1..1	SHALL		4544-31200	Summary Data Section LTCF (V2) (identifier: urn:hl7ii:2.16.840.1.113883.1.0.20.5.1.2.3:2023-02-01
component	0..1	MAY		4544-31245	
section	1..1	SHALL		4544-31246	Report No Events Section (identifier: urn:hl7ii:2.16.840.1.113883.1.0.20.5.5.62:2018-04-01

1. Conforms to [HAI Population Summary Report Generic Constraints](#) 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
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.5.1.1.2" (CONF:4544-31202).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2023-02-01" (CONF:4544-31203).
- Preferred document title: "LTCF Monthly Summary Data for MDRO, CDI, UTI, and Prevention Process Measures"
3. **SHALL** contain exactly one [1..1] **title** (CONF:4544-31248).
 4. **SHALL** contain exactly one [1..1] **participant** (CONF:4544-31268) such that it
 - a. **SHALL** contain exactly one [1..1] **associatedEntity** (CONF:4544-31269).
 - i. 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
5. **SHALL** contain exactly one [1..1] **participant** (CONF:4544-31270) such that it
 - a. **SHALL** contain exactly one [1..1] **associatedEntity** (CONF:4544-31271).
 - i. 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).
6. **SHALL** contain exactly one [1..1] **documentationOf** (CONF:4544-31262).
 - a. This documentationOf **SHALL** contain exactly one [1..1] **serviceEvent** (CONF:4544-31263).
 - i. 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).
 - ii. 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
7. **SHALL** contain exactly one [1..1] **component** (CONF:4544-31197).
 - a. This component **SHALL** contain exactly one [1..1] **structuredBody** (CONF:4544-31198).
 - i. 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) (identifier:
urn:hl7ii:2.16.840.1.113883.10.20.5.1.2.3:2023-02-01)
(CONF:4544-31200).
 - ii. 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 (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>
```

1.1.3 HAI Single-Person Report Generic Constraints LTCF (V4)

[ClinicalDocument: identifier urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.3:2024-05-01 (open)]

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Table 7: HAI Single-Person Report Generic Constraints LTCF (V4) Contexts

Contained By:	Contains:
	NHSN Social History Section (V3) (required)

NOTE TO BALLOT COMMENTERS

Interpreter Used by Patient This Encounter concept: two alternate modeling approaches have been included in this IG – we would like feedback on the suitability/desirability of each approach:

- This approach: encompassingEncounter/sdtc:specialArrangementCode
- See "Note to Ballot Commenters" in Volume 1 of the IG.
- See [Interpreter Used by Patient This Encounter Observation](#) for an alternate approach to modeling this concept.
- Pros of this approach: aligns with FHIR [Encounter.specialArrangement](#).
- Cons of this approach: requires an extension to be approved by the Structured Document WG and added to the SDTC CDA Schema.

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 required 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 required and multiple races can be recorded, 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.

The encompassingEncounter includes whether or not an interpreter was used based on the presence of sdhc:specialArrangementCode.

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

Table 8: HAI Single-Person Report Generic Constraints LTCF (V4) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
ClinicalDocument (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.3:2024-05-01)					
templateId	1..1	SHALL		5555-31399	
@root	1..1	SHALL		5555-31406	2.16.840.1.113883.10.20.5.1.1.3
@extension	1..1	SHALL		5555-31415	2024-05-01
recordTarget	1..1	SHALL		5555-31400	
patientRole	1..1	SHALL		5555-31401	
id	1..*	SHALL		5555-31402	
@root	1..1	SHALL		5555-31407	
@extension	1..1	SHALL		5555-31408	
patient	1..1	SHALL		5555-31403	
name	0..1	MAY		5555-31409	US Realm Patient Name (PTN.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1)
administrativeGenderCode	1..1	SHALL		5555-31404	
@code	1..1	SHALL		5555-31410	urn:oid:2.16.840.1.113883.1.1.1.1 (Administrative Gender (HL7 V3))
birthTime	1..1	SHALL		5555-31405	
@value	1..1	SHALL		5555-31411	
raceCode	1..1	SHALL		5555-31412	urn:oid:2.16.840.1.114222.4.1.1.7232 (NHSNRaceCategory)
@nullFlavor	0..1	MAY		5555-31417	urn:oid:2.16.840.1.113762.1.4.1021.102 (Unknown or refused to answer)
sdtc:raceCode	0..*	MAY		5555-31416	urn:oid:2.16.840.1.113883.1.1.1.14914 (Race Value Set)
ethnicGroupCode	1..1	SHALL		5555-31413	urn:oid:2.16.840.1.114222.4.1.1.837 (Ethnicity)
@nullFlavor	0..1	MAY		5555-31418	urn:oid:2.16.840.1.113762.1.4.1021.102 (Unknown or refused to answer)

XPath	Card.	Verb	Data Type	CONF#	Value
sdte:ethnicGroupCode	0..*	MAY		5555-31419	urn:oid:2.16.840.1.114222.4.11.877 (Detailed Ethnicity)
languageCommunication	1..*	SHALL		5555-31424	
languageCode	1..1	SHALL		5555-31425	urn:oid:2.16.840.1.113883.1.11.11526 (Language)
preferenceInd	0..1	SHOULD		5555-31428	
componentOf	1..1	SHALL		5555-31429	
encompassingEncounter	1..1	SHALL		5555-31430	
component	1..1	SHALL		5555-31420	
structuredBody	1..1	SHALL		5555-31421	
component	1..*	SHALL		5555-31422	
section	1..1	SHALL		5555-31423	NHSN Social History Section (V3) (identifier: urn:hl7ii:2.16.840.1.113883.1.0.20.5.5.81:2024-05-01)

1. Conforms to [Healthcare Associated Infection Report](#) template (identifier: urn:oid:2.16.840.1.113883.10.20.5.4.25).
2. **SHALL** contain exactly one [1..1] **templateId** (CONF:5555-31399) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.5.1.1.3" (CONF:5555-31406).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2024-05-01" (CONF:5555-31415).
3. **SHALL** contain exactly one [1..1] **recordTarget** (CONF:5555-31400).
 - a. This recordTarget **SHALL** contain exactly one [1..1] **patientRole** (CONF:5555-31401).
 - i. This patientRole **SHALL** contain at least one [1..*] **id** (CONF:5555-31402).
Note: Resident ID, SSN, Medicare beneficiary ID, alternate IDs
 1. Such ids **SHALL** contain exactly one [1..1] **@root** (CONF:5555-31407).
 2. Such ids **SHALL** contain exactly one [1..1] **@extension** (CONF:5555-31408).
 - ii. This patientRole **SHALL** contain exactly one [1..1] **patient** (CONF:5555-31403).
 1. This patient **MAY** contain zero or one [0..1] US Realm Patient Name (PTN.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1) (CONF:5555-31409).
 2. This patient **SHALL** contain exactly one [1..1] **administrativeGenderCode** (CONF:5555-31404).

- a. This administrativeGenderCode **SHALL** contain exactly one [1..1] @code, which **SHALL** be selected from ValueSet [Administrative Gender \(HL7 V3\)](#) urn:oid:2.16.840.1.113883.1.11.1 **DYNAMIC** (CONF:5555-31410).
- 3. This patient **SHALL** contain exactly one [1..1] birthTime (CONF:5555-31405).
 - a. This birthTime **SHALL** contain exactly one [1..1] @value (CONF:5555-31411).
- 4. This patient **SHALL** contain exactly one [1..1] raceCode, which **SHALL** be selected from ValueSet [NHSN Race Category](#) urn:oid:2.16.840.1.114222.4.11.7232 **DYNAMIC** (CONF:5555-31412).

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

- a. This raceCode **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:5555-31417).
- 5. This patient **MAY** contain zero or more [0..*] sdtc:raceCode, which **SHALL** be selected from ValueSet [Race Value Set](#) urn:oid:2.16.840.1.113883.1.11.14914 **DYNAMIC** (CONF:5555-31416).
- 6. This patient **SHALL** contain exactly one [1..1] ethnicGroupCode (ValueSet: [Ethnicity](#) urn:oid:2.16.840.1.114222.4.11.837 **DYNAMIC**) (CONF:5555-31413).

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

- a. This ethnicGroupCode **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:5555-31418).
- 7. This patient **MAY** contain zero or more [0..*] sdtc:ethnicGroupCode, which **SHALL** be selected from ValueSet [Detailed Ethnicity](#) urn:oid:2.16.840.1.114222.4.11.877 **DYNAMIC** (CONF:5555-31419).
- 8. This patient **SHALL** contain at least one [1..*] languageCommunication (CONF:5555-31424).
 - a. Such languageCommunications **SHALL** contain exactly one [1..1] languageCode, which **SHALL** be selected from ValueSet [Language](#) urn:oid:2.16.840.1.113883.1.11.11526 **DYNAMIC** (CONF:5555-31425).

- b. Such languageCommunications **SHOULD** contain zero or one [0..1] **preferenceInd** (CONF:5555-31428).
- 4. **SHALL** contain exactly one [1..1] **componentOf** (CONF:5555-31429).

If sdtc:specialArrangementCode is present and @code="int" then an interpreter was used in this encounter, if sdtc:specialArrangementCode is not present (or is present but @code!="int" then an interpreter was not used in this encounter.

- a. This componentOf **SHALL** contain exactly one [1..1] **encompassingEncounter** (CONF:5555-31430).
 - i. This encompassingEncounter **MAY** contain one or more [0..1] sdtc:specialArrangementCode (CONF:5555-31433).
 - 1. This sdtc:specialArrangementCode **SHALL** contain exactly one [1..1] @code="int" interpreter (CONF:5555-31436).
 - 2. This sdtc:specialArrangementCode **SHALL** contain exactly one [1..1] @codeSystem="2.16.840.1.113883.4.642.1.1090" (CodeSystem: Special arrangements urn:oid:2.16.840.1.113883.4.642.1.1090 STATIC) (CONF:5555-31437).
- 5. **SHALL** contain exactly one [1..1] **component** (CONF:5555-31420).
 - a. This component **SHALL** contain exactly one [1..1] **structuredBody** (CONF:5555-31421).
 - i. This structuredBody **SHALL** contain at least one [1..*] **component** (CONF:5555-31422) such that it
 - 1. **SHALL** contain exactly one [1..1] [NHSN Social History Section \(V3\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.5.81:2024-05-01) (CONF:5555-31423).
- 6. The author **MAY** be software or **MAY** be a person in the role of infection control professional (ICP) (CONF:5555-31414).

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: 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 administrative 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 12: 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

Table 13: Race Value Set

Value Set: Race Value Set urn:oid:2.16.840.1.113883.1.11.14914 (Clinical Focus: All concepts that can describe a person's "race" as defined by the United States Bureau of Census),(Data Element Scope: Personal Demographic information, can be multiple.),(Inclusion Criteria: All descendant concepts from the concept "1000-9 Race", excluding that root concept, as derived from the Race and Ethnicity - CDC code system.),(Exclusion Criteria: Concepts that are not a descendant of "Race", therefore, no concepts descendant from "2133-7 Ethnicity". Also the root concept "Race".) This value set was imported on 6/29/2019 with a version of 20190522. Value Set Source: https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.14914/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
1004-1	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	American Indian
1006-6	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Abenaki
1008-2	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Algonquian
1010-8	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Apache
1011-6	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Chiricahua
1012-4	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Fort Sill Apache
1013-2	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Jicarilla Apache
1014-0	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Lipan Apache
1015-7	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Mescalero Apache
...			

Table 14: Detailed Ethnicity

<p>Value Set: Detailed Ethnicity urn:oid:2.16.840.1.114222.4.11.877</p> <p>(Clinical Focus: All concepts that can describe a person's "ethnicity" as defined by the United States Bureau of Census. This includes the US Office of Management and Budget (OMB) two top-level ethnicity categories, plus all the more detailed descendant ethnicity concepts used by the US Bureau of Census.),(Data Element Scope: Personal Demographic information, can be multiple.),(Inclusion Criteria: All descendant concepts from the concept "2133-7 Ethnicity", excluding that root concept, as derived from the Race and Ethnicity - CDC code system.),(Exclusion Criteria: Concepts that are not a descendant of "2133-7 Ethnicity", therefore, no concepts descendant from "1000-9 Race". Also the root concept "Ethnicity".)</p> <p>This value set was imported on 1/23/2023 with a version of Latest.</p> <p>Value Set Source: https://vsac.nlm.nih.gov/valueset/2.16.840.1.114222.4.11.877/expansion</p>			
Code	Code System	Code System OID	Print Name
2137-8	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Spaniard
2138-6	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Andalusian
2139-4	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Asturian
2140-2	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Castillian
2141-0	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Catalonian
2142-8	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Belearic Islander
2143-6	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Gallego
2144-4	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Valencian
2145-1	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Canarian
2146-9	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Spanish Basque
...			

Table 15: Language

Value Set: Language urn:oid:2.16.840.1.113883.1.11.11526 A value set of codes defined by Internet RFC 5646. Use 2 character code if one exists. Use 3 character code if a 2 character code does not exist. Including type = region is allowed See http://www.iana.org/assignments/language-subtag-registry/language-subtag-registry Value Set Source: http://www.loc.gov/standards/iso639-2/php/code_list.php			
Code	Code System	Code System OID	Print Name
aa	Language	urn:oid:2.16.840.1.113883.6.12 1	Afar
ab	Language	urn:oid:2.16.840.1.113883.6.12 1	Abkhazian
ace	Language	urn:oid:2.16.840.1.113883.6.12 1	Achinese
ach	Language	urn:oid:2.16.840.1.113883.6.12 1	Acoli
ada	Language	urn:oid:2.16.840.1.113883.6.12 1	Adangme
ady	Language	urn:oid:2.16.840.1.113883.6.12 1	Adyghe; Adygei
ae	Language	urn:oid:2.16.840.1.113883.6.12 1	Avestan
af	Language	urn:oid:2.16.840.1.113883.6.12 1	Afrikaans
afa	Language	urn:oid:2.16.840.1.113883.6.12 1	Afro-Asiatic (Other)
afh	Language	urn:oid:2.16.840.1.113883.6.12 1	Afrihili
...			

1.1.4 Laboratory Identified MDRO or CDI Event Report for LTCF (V4)

[ClinicalDocument: identifier urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.1:2024-05-01 (closed)]

Draft as part of NHSN Healthcare Associated Infection (HAI) Report for Long Term Care Facilities (LTCF), Release 1, STU 2 - US Realm

Table 16: Laboratory Identified MDRO or CDI Event Report for LTCF (V4) Contexts

Contained By:	Contains:
	NHSN Comment Section (optional) Findings Section in a Laboratory Identified Report LTCF (required) 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 17: Laboratory Identified MDRO or CDI Event Report for LTCF (V4) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
ClinicalDocument (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.1:2024-05-01)					
templateId	1..1	SHALL		5555-30990	
@root	1..1	SHALL		5555-30998	2.16.840.1.113883.10.20.5.1.1.1
@extension	1..1	SHALL		5555-30999	2024-05-01
title	1..1	SHALL		5555-31247	
componentOf	1..1	SHALL		5555-30977	
encompassingEncounter	1..1	SHALL		5555-30978	
effectiveTime	1..1	SHALL		5555-30979	
low	1..1	SHALL		5555-31440	
location	1..1	SHALL		5555-30981	
healthCareFacility	1..1	SHALL		5555-30982	
id	1..1	SHALL		5555-30983	
@root	1..1	SHALL		5555-30996	
@extension	1..1	SHALL		5555-31360	
code	1..1	SHALL		5555-31361	urn:oid:2.16.840.1.113883.10.20.5.1.5.9.3 (NHSNPrimaryResidentService Type)
component	1..1	SHALL		5555-30984	
structuredBody	1..1	SHALL		5555-30985	
component	1..1	SHALL		5555-30986	
section	1..1	SHALL		5555-30987	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)
component	1..1	SHALL		5555-30988	

XPath	Card.	Verb	Data Type	CONF#	Value
section	1..1	SHALL		5555-30989	Encounters Section in an LTCF Report (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.2.2:2019-08-01)
component	0..1	MAY		5555-31438	
section	1..1	SHALL		5555-31439	NHSN Comment Section (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.5.61:2017-04-01)

1. Conforms to [HAI Single-Person Report Generic Constraints LTCF \(V4\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.3:2024-05-01).
2. **SHALL** contain exactly one [1..1] **templateId** (CONF:5555-30990) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.5.1.1.1" (CONF:5555-30998).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2024-05-01" (CONF:5555-30999).

Laboratory-identified MDRO or CDI Event for LTCF

3. **SHALL** contain exactly one [1..1] **title** (CONF:5555-31247).
4. **SHALL** contain exactly one [1..1] **componentOf** (CONF:5555-30977).
 - a. This componentOf **SHALL** contain exactly one [1..1] **encompassingEncounter** (CONF:5555-30978).
 - i. This encompassingEncounter **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:5555-30979).
 1. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:5555-31440).
Note: Date of Current Admission
 - ii. This encompassingEncounter **SHALL** contain exactly one [1..1] **location** (CONF:5555-30981).
 1. This location **SHALL** contain exactly one [1..1] **healthCareFacility** (CONF:5555-30982).
 - a. This healthCareFacility **SHALL** contain exactly one [1..1] **id** (CONF:5555-30983).

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

- i. This id **SHALL** contain exactly one [1..1] **@root** (CONF:5555-30996).
Note: Facility ID

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

- ii. This id **SHALL** contain exactly one [1..1] **@extension** (CONF:5555-31360).
Note: Resident Care Location

- b. This healthCareFacility **SHALL** contain exactly one [1..1] **code**, which **SHALL** be selected from ValueSet [NHSNPrimaryResidentServiceType](#) urn:oid:2.16.840.1.113883.10.20.5.1.5.9.3 **DYNAMIC** (CONF:5555-31361).
Note: Primary Resident Service Type
- 5. **SHALL** contain exactly one [1..1] **component** (CONF:5555-30984).
 - a. This component **SHALL** contain exactly one [1..1] **structuredBody** (CONF:5555-30985).
 - i. This structuredBody **SHALL** contain exactly one [1..1] **component** (CONF:5555-30986) such that it
 - 1. **SHALL** contain exactly one [1..1] [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) (CONF:5555-30987).
 - ii. This structuredBody **SHALL** contain exactly one [1..1] **component** (CONF:5555-30988) such that it
 - 1. **SHALL** contain exactly one [1..1] [Encounters Section in an LTCF Report](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.2.2:2019-08-01) (CONF:5555-30989).
 - iii. This structuredBody **MAY** contain zero or one [0..1] **component** (CONF:5555-31438) such that it
 - 1. **SHALL** contain exactly one [1..1] [NHSN Comment Section](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.5.61:2017-04-01) (CONF:5555-31439).

Table 18: 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 (V4) Example

```
<ClinicalDocument>
  <realmCode code="US" />
  <typeId extension="POCD_HD000040" root="2.16.840.1.113883.1.3" />
  <!-- [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
(V4) -->
  <templateId extension="2024-05-01" root="2.16.840.1.113883.10.20.5.1.1.3" />
  <!-- [HAI LTCF R1D2] Conformant to Laboratory Identified MDRO or CDI Event Report for
LTCF (V4) -->
  <templateId extension="2024-05-01" root="2.16.840.1.113883.10.20.5.1.1.1" />
  <!-- Document ID (extension) is scoped by vendor/software -->
  <id extension="20202201" root="2.16.840.1.113883.3.117.1.1.5.2.1.1.2" />
  <code code="51897-7"
    codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC"
    displayName="Healthcare Associated Infection Report" />
  <title>Laboratory-identified MDRO or CDI Event for LTCF</title>
  <effectiveTime value="20230129" />
  <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25" />
  <languageCode code="en-US" />
  <setId extension="31" root="2.16.840.1.113883.3.117.1.1.5.2.1.1.1" />
  <!-- the original -->
  <versionNumber value="1" />
  <recordTarget>
    <patientRole>
      <!-- Resident Facility ID - scoped by facility -->
      <id extension="123456" root="2.16.840.1.113883.3.117.1.1.5.1.1.1" />
      <!-- Resident Medicare number -->
      <id extension="1111111112" root="2.16.840.1.113883.4.338" />
      <patient>
        <name>
          <family>Nuclear</family>
          <given>Ned</given>
          <given>Middle</given>
        </name>
        <administrativeGenderCode code="M" codeSystem="2.16.840.1.113883.5.1" />
        <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"
          codeSystem="2.16.840.1.113883.6.238"
          codeSystemName="Race & Ethnicity - CDC"
          displayName="White" />
        <!-- Added ability to record multiple races -->
        <sdtc:raceCode code="1002-5"
          codeSystem="2.16.840.1.113883.6.238"
          codeSystemName="Race & Ethnicity - CDC"
          displayName="American Indian/Alaska Native" />
        <!-- 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="2135-2"
            codeSystem="2.16.840.1.113883.6.238"
            codeSystemName="Race & Ethnicity - CDC"
            displayName="Hispanic or Latino" />
        <!-- Added ability to record multiple ethnicities -->
        <sdtc:ethnicGroupCode code="2156-8"
            codeSystem="2.16.840.1.113883.6.238"
            codeSystemName="Race & Ethnicity - CDC"
            displayName="Costa Rican" />
        <languageCommunication>
            <languageCode code="en" />
            <preferenceInd value="true" />
        </languageCommunication>
    </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="20230201" />
    <assignedAuthor>
        <id extension="anAuthorID" root="2.16.840.1.113883.3.117.1.1.5.1.1.2" />
    </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="20230201" />
    <signatureCode code="S" />
    <assignedEntity>
        <id extension="aLegalAuthenticatorID"
root="2.16.840.1.113883.3.117.1.1.5.1.1.2" />
    </assignedEntity>
</legalAuthenticator>
<componentOf>
    <encompassingEncounter>
        <effectiveTime>
            <!-- Date of Current Admission to Facility -->
            <low value="20230115" />
        </effectiveTime>
        <location>
            <healthCareFacility>
                <!-- root is the NHSN assigned facility OID/'Facility ID' -->
                <!-- extension must be a value registered with NHSN/'Resident Care
Location' -->
                <id extension="1A" root="2.16.840.1.113883.3.117.1.1.5.1.1" />
                <!-- Primary Resident Service Type -->
                <code code="1255-9"
                    codeSystem="2.16.840.1.113883.6.277"

```

```

        codeSystemName="cdcNHSN"
        displayName="Long Term Care Facility Dementia Unit" />
    </healthCareFacility>
</location>
<!-- If sdtc:specialArrangementCode is present and @code="int" then an
interpreter was used in this encounter,
        if sdtc:specialArrangementCode is not present (or is present but
@code!="int"
        then an interpreter was not used in this encounter -->
    <sdtc:specialArrangementCode code="int"
        codeSystem="2.16.840.1.113883.4.642.1.1090"
        codeSystemName="Special arrangements"
        displayName="Interpreter" />
    </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 extension="2019-08-01"
root="2.16.840.1.113883.10.20.5.1.2.2" />
                <code code="46240-8" codeSystem="2.16.840.1.113883.6.1"
displayName="History of Encounters" />
                <title>Encounters</title>
                ...
            </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 extension="2019-08-01"
root="2.16.840.1.113883.10.20.5.1.2.1" />
                <code code="18769-0" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Findings" />
                <title>Lab-identified organism</title>
                ....
            </section>
        </component>
        <!--
*****
NHSN Social History Section (V3)

```

```

*****
-->
<component>
  <section>
    <templateId root="2.16.840.1.113883.10.20.5.4.26" />
    <!-- [HAI R4D3] NHSN Social History Section (V3) -->
    <templateId extension="2024-05-01"
root="2.16.840.1.113883.10.20.5.5.81" />
    <code code="29762-2" codeSystem="2.16.840.1.113883.6.1"
displayName="Social History" />
    <title>NHSN Social History Section (V3)</title>
    ...
  </section>
</component>
</structuredBody>
</component>
</ClinicalDocument>

```

2 SECTION-LEVEL TEMPLATES

2.1 HAI Section Generic Constraints

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

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Release 1 - US Realm

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

Table 19: 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	
@root	1..1	SHALL		86-21959	2.16.840.1.113883.10.20.5.4.26
code	1..1	SHALL		86-21953	
@code	1..1	SHALL		86-21954	urn:oid:2.16.840.1.113883.6.1 (LOINC)
title	1..1	SHALL		86-21955	
text	1..1	SHALL		86-21956	
entry	1..*	SHALL		86-21957	

1. **SHALL** contain exactly one [1..1] **templateId** (CONF:86-21958) such that it
 - a. **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).
 - a. 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).

2.1.1 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 20: Encounters Section in an LTCF Report Contexts

Contained By:	Contains:
Laboratory Identified MDRO or CDI Event Report for LTCF (V4) (required)	First Admission Encounter in a Lab Identified Report LTCF (required) Transfer From Acute Care Facility to LTCF in Past Four Weeks (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 21: 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	
@root	1..1	SHALL		4417-31097	2.16.840.1.113883.10.20.5.1.2.2
@extension	1..1	SHALL		4417-31098	2019-08-01
code	1..1	SHALL		4417-31092	
@code	1..1	SHALL		4417-31099	46240-8
@codeSystem	1..1	SHALL		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	
encounter	1..1	SHALL		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)
entry	1..1	SHALL		4417-31093	
observation	1..1	SHALL		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)

1. Conforms to [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
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.5.1.2.2" (CONF:4417-31097).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2019-08-01" (CONF:4417-31098).
3. **SHALL** contain exactly one [1..1] **code** (CONF:4417-31092).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="46240-8" History of Encounters (CONF:4417-31099).
 - b. 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

- a. **SHALL** contain exactly one [1..1] 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) (CONF:4417-31090).
5. **SHALL** contain exactly one [1..1] **entry** (CONF:4417-31093) such that it
 - a. **SHALL** contain exactly one [1..1] 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) (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>

```


2.1.2 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 22: Findings Section in a Laboratory Identified Report LTCF Contexts

Contained By:	Contains:
Laboratory Identified MDRO or CDI Event Report for LTCF (V4) (required)	Pathogen Identified Observation in a Lab Identified Report LTCF (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 23: 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	
@root	1..1	SHALL		4417-31067	2.16.840.1.113883.10.20.5.1.2.1
@extension	1..1	SHALL		4417-31068	2019-08-01
code	1..1	SHALL		4417-31066	
@code	1..1	SHALL		4417-31069	18769-0
@codeSystem	1..1	SHALL		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	
observation	1..1	SHALL		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)

1. Conforms to [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
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.5.1.2.1" (CONF:4417-31067).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2019-08-01" (CONF:4417-31068).

3. **SHALL** contain exactly one [1..1] **code** (CONF:4417-31066).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="18769-0" Findings Section (CONF:4417-31069).
 - b. 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
 - a. **SHALL** contain exactly one [1..1] [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) (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>

```

2.1.3 NHSN Comment Section

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

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Table 24: NHSN Comment Section Contexts

Contained By:	Contains:
Laboratory Identified MDRO or CDI Event Report for LTCF (V4) (optional)	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 25: 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	
@root	1..1	SHALL		3311-180	2.16.840.1.113883.10.20.5.5.61
@extension	1..1	SHALL		3311-181	2017-04-01
code	1..1	SHALL		3311-173	
@code	1..1	SHALL		3311-182	86468-6
@codeSystem	1..1	SHALL		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	
act	1..1	SHALL		3311-184	NHSN Comment (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.6.243:2017-04-01)

1. Conforms to [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
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.5.5.61" (CONF:3311-180).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3311-181).
3. **SHALL** contain exactly one [1..1] **code** (CONF:3311-173).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="86468-6" Report Comment Section (CONF:3311-182).

- b. 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
 - a. **SHALL** contain exactly one [1..1] [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>
```

2.1.4 NHSN Social History Section (V3)

[section: identifier urn:hl7ii:2.16.840.1.113883.10.20.5.5.81:2024-05-01
(open)]

Draft as part of NHSN Healthcare Associated Infection Reports Release 4, STU
3 - US Realm

Table 26: NHSN Social History Section (V3) Contexts

Contained By:	Contains:
HAI Single-Person Report Generic Constraints LTCF [V4] (required)	Birth Sex Observation (required) Gender Identity Observation [V4] (required) Interpreter Required by Patient Observation (required) Interpreter Used by Patient This Encounter Observation (required)

This section contains social history templates Birth Sex, Gender Identity, and templates dealing with the use of a language interpreter.

Table 27: NHSN Social History Section (V3) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
section (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.5.81:2024-05-01)					
templateId	1..1	SHALL		5554-3	
@root	1..1	SHALL		5554-17	2.16.840.1.113883.10.20.5.5.81
@extension	1..1	SHALL		5554-18	2024-05-01
code	1..1	SHALL		5554-4	
@code	1..1	SHALL		5554-19	29762-2
@codeSystem	1..1	SHALL		5554-20	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
entry	1..1	SHALL		5554-9	
observation	1..1	SHALL		5554-10	Birth Sex Observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.200:2016-06-01)
entry	1..*	SHALL		5554-11	
observation	1..1	SHALL		5554-12	Gender Identity Observation (V4) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.34.3.45:2023-05-01)
entry	1..1	SHALL		5554-31057	
observation	1..1	SHALL		5554-31058	Interpreter Required by Patient Observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.6.300:2024-05-01)
entry	1..1	SHALL		5554-31077	
observation	1..1	SHALL		5554-31078	Interpreter Used by Patient This Encounter Observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.6.301:2024-05-01)

1. Conforms to [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:5554-3) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.5.5.81" (CONF:5554-17).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2024-05-01" (CONF:5554-18).
3. **SHALL** contain exactly one [1..1] **code** (CONF:5554-4).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="29762-2" Social History (CONF:5554-19).

- b. 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:5554-20).
- 4. **SHALL** contain exactly one [1..1] **entry** (CONF:5554-9) such that it
 - a. **SHALL** contain exactly one [1..1] Birth Sex Observation (identifier:
urn:hl7ii:2.16.840.1.113883.10.20.22.4.200:2016-06-01) (CONF:5554-10).
- 5. **SHALL** contain at least one [1..*] **entry** (CONF:5554-11) such that it
 - a. **SHALL** contain exactly one [1..1] Gender Identity Observation (V4)
(identifier: urn:hl7ii:2.16.840.1.113883.10.20.34.3.45:2023-05-01)
(CONF:5554-12).
- 6. **SHALL** contain exactly one [1..1] **entry** (CONF:5554-31057) such that it
 - a. **SHALL** contain exactly one [1..1] Interpreter Required by Patient
Observation (identifier:
urn:hl7ii:2.16.840.1.113883.10.20.5.6.300:2024-05-01) (CONF:5554-
31058).
- 7. **SHALL** contain exactly one [1..1] **entry** (CONF:5554-31077) such that it
 - a. **SHALL** contain exactly one [1..1] Interpreter Used by Patient This Encounter
Observation (identifier:
urn:hl7ii:2.16.840.1.113883.10.20.5.6.301:2024-05-01) (CONF:5554-
31078).

Figure 7: NHSN Social History Section (V3) Example

```
<section>
  <templateId root="2.16.840.1.113883.10.20.5.4.26" />
  <!-- [HAI R4D3] NHSN Social History Section (V3) -->
  <templateId extension="2024-05-01" root="2.16.840.1.113883.10.20.5.5.81" />
  <code code="29762-2" codeSystem="2.16.840.1.113883.6.1" displayName="Social History" />
  <title>NHSN Social History Section (V2)</title>
  <text>
    ...
  </text>
  <entry>
    <!-- Gender Identity Observation -->
    <observation classCode="OBS" moodCode="EVN">
      <!-- [C-CDA R2.1] Social History Observation (V4) -->
      <templateId extension="2022-06-01" root="2.16.840.1.113883.10.20.22.4.38" />
      <!-- [C-CDA CG] Gender Identity Observation (V4) -->
      <templateId extension="2023-05-01" root="2.16.840.1.113883.10.20.34.3.45" />
      ...
    </observation>
  </entry>
  <entry>
    <!-- Birth Sex Observation -->
    <observation classCode="OBS" moodCode="EVN">
      <!-- [C-CDA 2.1] Birth Sex Observation -->
      <templateId extension="2016-06-01" root="2.16.840.1.113883.10.20.22.4.200" />
      ...
    </observation>
  </entry>
  <!-- Interpreter Required by Patient Observation -->
  <entry typeCode="DRIV">
    <observation classCode="OBS" moodCode="EVN" negationInd="false">
      <!-- [C-CDA R1.1] Problem Observation -->
      <templateId root="2.16.840.1.113883.10.20.22.4.4" />
      <!-- [HAI R4STU3] Interpreter Required by Patient Observation -->
      <templateId extension="2024-05-01" root="2.16.840.1.113883.10.20.5.6.300" />
      ...
    </observation>
  </entry>
  <!-- Interpreter Used by Patient This Encounter Observation -->
  <entry typeCode="DRIV">
    <observation classCode="OBS" moodCode="EVN" negationInd="false">
      <!-- [C-CDA R1.1] Problem Observation -->
      <templateId root="2.16.840.1.113883.10.20.22.4.4" />
      <!-- [HAI R4STU3] Interpreter Used by Patient This Encounter Observation -->
      <templateId extension="2024-05-01" root="2.16.840.1.113883.10.20.5.6.301" />
      ...
    </observation>
  </entry>
</section>
```

2.1.5 Report No Events Section

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

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

Table 28: Report No Events Section Contexts

Contained By:	Contains:
LTCF Monthly Summary Data for MDRO, CDI, UTI, and Prevention Process Measures (V2) (optional)	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 29: 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	
@root	1..1	SHALL		3357-30608	2.16.840.1.113883.10.20.5.5.62
@extension	1..1	SHALL		3357-30609	2018-04-01
code	1..1	SHALL		3357-30605	
@code	1..1	SHALL		3357-30610	90252-8
@codeSystem	1..1	SHALL		3357-30611	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
entry	1..*	SHALL		3357-30606	
act	1..1	SHALL		3357-30910	Report No Events (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.6.249:2018-04-01)

1. Conforms to [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
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.5.5.62" (CONF:3357-30608).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2018-04-01" (CONF:3357-30609).
3. **SHALL** contain exactly one [1..1] **code** (CONF:3357-30605).

- a. This code **SHALL** contain exactly one [1..1] **@code="90252-8"** Report No Events section (CONF:3357-30610).
- b. 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
 - a. **SHALL** contain exactly one [1..1] **Report No Events** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.6.249:2018-04-01) (CONF:3357-30910).

Figure 8: 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>
```

2.1.6 Summary Data Section LTCF (V2)

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

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

Table 30: Summary Data Section LTCF (V2) Contexts

Contained By:	Contains:
LTCF Monthly Summary Data for MDRO, CDI, UTI, and Prevention Process Measures (V2) (required)	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 31: 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	
@root	1..1	SHALL		4544-31193	2.16.840.1.113883.10.20.5.1.2.3
@extension	1..1	SHALL		4544-31194	2023-02-01
code	1..1	SHALL		4544-31188	
@code	1..1	SHALL		4544-31195	51900-9
@codeSystem	1..1	SHALL		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	
encounter	1..1	SHALL		4544-31352	Summary Encounter LTCF (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.15:2023-02-01)

1. Conforms to [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
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.5.1.2.3" (CONF:4544-31193).

- b. **SHALL** contain exactly one [1..1] **@extension**="2023-02-01" (CONF:4544-31194).
3. **SHALL** contain exactly one [1..1] **code** (CONF:4544-31188).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="51900-9" Summary Data Section (CONF:4544-31195).
 - b. 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
 - a. **SHALL** contain exactly one [1..1] Summary Encounter LTCF (V2) (identifier: urn:h17ii:2.16.840.1.113883.10.20.5.1.3.15:2023-02-01) (CONF:4544-31352).

Figure 9: 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>

```

3 ENTRY-LEVEL TEMPLATES

3.1 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)]

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

Table 32: Antibiotic Treatment at Time of Transfer Contexts

Contained By:	Contains:
Transfer From Acute Care Facility to LTCF in Past Four Weeks (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 33: 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	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		4417-31228	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		4417-31235	
@root	1..1	SHALL		4417-31236	2.16.840.1.113883.10.20.5.1.3.12
@extension	1..1	SHALL		4417-31237	2019-08-01
code	1..1	SHALL		4417-31224	
@code	1..1	SHALL		4417-31230	1375-5
@codeSystem	1..1	SHALL		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	
@code	1..1	SHALL		4417-31231	urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed
value	1..1	SHALL	BL	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
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.5.1.3.12" (CONF:4417-31236).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2019-08-01" (CONF:4417-31237).
4. **SHALL** contain exactly one [1..1] **code** (CONF:4417-31224).
 - a. 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).
 - b. 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).

- a. 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 10: 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>
```

3.2 Birth Sex Observation

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.200:2016-06-01 (open)]

Published as part of C-CDA 2.1 Companion Guide

Table 34: Birth Sex Observation Contexts

Contained By:	Contains:
NHSN Social History Section [V3] (required)	

This observation represents the sex of the patient at birth. It is the sex that is entered on the person's birth certificate at time of birth.

This observation is not appropriate for recording patient gender (administrativeGender).

Table 35: Birth Sex Observation Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.200:2016-06-01)					
@classCode	1..1	SHALL		3250-18230	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		3250-18231	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3250-18232	
@root	1..1	SHALL		3250-18233	2.16.840.1.113883.10.20.22.4.200
@extension	1..1	SHALL		3250-32949	2016-06-01
code	1..1	SHALL		3250-18234	
@code	1..1	SHALL		3250-18235	76689-9
@codeSystem	1..1	SHALL		3250-21163	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
statusCode	1..1	SHALL		3250-18124	
@code	1..1	SHALL		3250-18125	urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed
value	1..1	SHALL	CD	3250-32947	urn:oid:2.16.840.1.113762.1.4.1 (ONC Administrative Sex)

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:3250-18230).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:3250-18231).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:3250-18232) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.200" (CONF:3250-18233).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2016-06-01" (CONF:3250-32949).
4. **SHALL** contain exactly one [1..1] **code** (CONF:3250-18234).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="76689-9" Sex Assigned At Birth (CONF:3250-18235).
 - b. 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 **STATIC**) (CONF:3250-21163).
5. **SHALL** contain exactly one [1..1] **statusCode** (CONF:3250-18124).

- a. This statusCode **SHALL** contain exactly one [1..1] @code="completed" Completed (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14 **STATIC**) (CONF:3250-18125).
6. **SHALL** contain exactly one [1..1] value with @xsi:type="CD", where the code **SHALL** be selected from ValueSet ONC Administrative Sex urn:oid:2.16.840.1.113762.1.4.1 **STATIC** 2016-06-01 (CONF:3250-32947).
 - a. If value/@code not from value set ONC Administrative Sex urn:oid:2.16.840.1.113762.1.4.1 **STATIC** 2016-06-01, then value/@nullFlavor **SHALL** be "UNK" (CONF:3250-32948).

Table 36: ONC Administrative Sex

Value Set: ONC Administrative Sex urn:oid:2.16.840.1.113762.1.4.1 (Clinical Focus: Gender identity restricted to only Male and Female used in administrative situations requiring a restriction to these two categories.),(Data Element Scope: Gender),(Inclusion Criteria: Male and Female only.),(Exclusion Criteria: Any gender identity that is not male or female.) This value set was imported on 10/17/2019 with a version of 20190425. Value Set Source: https://vsac.nlm.nih.gov/valueset/2.16.840.1.113762.1.4.1/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

Figure 11: Birth Sex Example

```

<observation classCode="OBS" moodCode="EVN">
  <!-- New templateId for Birth Sex -->
  <!-- Not asserting conformance to Social History Observation due to different vocab. -->
  >
  <templateId root="2.16.840.1.113883.10.20.22.4.200" extension="2016-06-01"/>
  <code code="76689-9" codeSystem="2.16.840.1.113883.6.1"
    displayName="Sex Assigned At Birth"/>
  <text>
    <reference value="#BSex_Narrative1"/>
  </text>
  <statusCode code="completed"/>
  <!-- effectiveTime if present should match birthTime -->
  <!-- Request name change to QRDA value set (2.16.840.1.113762.1.4.1) - ONC Birth Sex - -->
  <value xsi:type="CD" codeSystem="2.16.840.1.113883.5.1"
codeSystemName="AdministrativeGender"
    code="F" displayName="Female">
    <originalText>
      <reference value="#BSex_value"/>
    </originalText>
  </value>
  <author>
    ...
  </author>
</observation>

```


3.3 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)]

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

Table 37: First Admission Encounter in a Lab Identified Report LTCF Contexts

Contained By:	Contains:
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 38: 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	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ENC
@moodCode	1..1	SHALL		4417-31084	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		4417-31077	
@root	1..1	SHALL		4417-31086	2.16.840.1.113883.10.20.22.4.49
templateId	1..1	SHALL		4417-31424	
@root	1..1	SHALL		4417-31425	2.16.840.1.113883.10.20.5.1.3.4
@extension	1..1	SHALL		4417-31426	2019-08-01
id	1..1	SHALL		4417-31072	
@nullFlavor	1..1	SHALL		4417-31078	NA
code	1..1	SHALL		4417-31073	
@code	1..1	SHALL		4417-31079	1373-0
@codeSystem	1..1	SHALL		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	
low	1..1	SHALL		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
 - a. **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
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.5.1.3.4" (CONF:4417-31425).

- b. **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
 - a. **SHALL** contain exactly one [1..1] **@nullFlavor**="NA" (CONF:4417-31078).
7. **SHALL** contain exactly one [1..1] **code** (CONF:4417-31073).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="1373-0" Date first admitted to facility (CONF:4417-31079).
 - b. 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).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:4417-31088).
Note: Date first admitted to facility

Figure 12: 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>
```

3.4 Gender Identity Observation (V4)

[observation: identifier urn:h17ii:2.16.840.1.113883.10.20.34.3.45:2023-05-01 (open)]

Published as part of C-CDA 2.1 Companion Guide V4

Table 39: Gender Identity Observation (V4) Contexts

Contained By:	Contains:
NHSN Social History Section (V3) (required)	

This observation represents the gender identity of the patient, defined as:

"One's basic sense of being male, female, or other gender (for example, transgender or gender queer). Gender identity can be congruent or incongruent with one's sex assigned at birth based on the appearance of external genitalia." (Advancing Effective Communication, Cultural Competence, and Patient- and Family-Centered Care for the Lesbian, Gay, Bisexual, and Transgender (LGBT) Community—A Field Guide, The Joint Commission (2011).)

This template follows the guidelines from the HL7 Gender Harmony project. This template is based on C-CDA Social History Observation template.

This observation is not appropriate for recording patient gender (administrativeGender) or birth sex.

Table 40: Gender Identity Observation (V4) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.34.3.45:2023-05-01)					
@classCode	1..1	SHALL		4537-1230	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		4537-1231	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		4537-1221	
@root	1..1	SHALL		4537-1225	2.16.840.1.113883.10.20.34.3.45
@extension	1..1	SHALL		4537-1226	2023-05-01
code	1..1	SHALL		4537-1222	
@code	1..1	SHALL		4537-1227	76691-5
@codeSystem	1..1	SHALL		4537-1228	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
statusCode	1..1	SHALL		4537-33067	
@code	1..1	SHALL		4537-33069	urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed
effectiveTime	1..1	SHALL		4537-33068	
low	1..1	SHALL		4537-33070	
high	0..1	MAY		4537-33071	
value	1..1	SHALL	CD	4537-1223	urn:oid:2.16.840.1.113762.1.4.1021.101 (Gender Identity USCDI core)
@nullFlavor	0..1	MAY		4537-1232	urn:oid:2.16.840.1.113762.1.4.1114.17 (Asked but Unknown and Other)

1. Conforms to Social History Observation (V4) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.38:2022-06-01).
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:4537-1230).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:4537-1231).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:4537-1221) such that it

- a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.34.3.45" (CONF:4537-1225).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2023-05-01" (CONF:4537-1226).
- 5. **SHALL** contain exactly one [1..1] **code** (CONF:4537-1222).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="76691-5" Gender identity (CONF:4537-1227).
 - b. 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 **STATIC**) (CONF:4537-1228).
- 6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:4537-33067).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**="completed" (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:4537-33069).
- 7. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:4537-33068).

The effectiveTime represents the relevant time of the observation. A patient's "gender identity" may change and using effectiveTime/low and effectiveTime/high defines the time during which the patient had identified as specified.

- a. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:4537-33070).
 - b. This effectiveTime **MAY** contain zero or one [0..1] **high** (CONF:4537-33071).
- 8. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD", where the code **SHALL** be selected from ValueSet [Gender Identity USCDI core](#) urn:oid:2.16.840.1.113762.1.4.1021.101 **DYNAMIC** (CONF:4537-1223).

To represent additional Gender Identities, set nullFlavor="OTH". To represent "choose not to disclose", set nullFlavor="ASKU".

- a. This value **MAY** contain zero or one [0..1] **@nullFlavor**, which **SHOULD** be selected from ValueSet [Asked but Unknown and Other](#) urn:oid:2.16.840.1.113762.1.4.1114.17 **DYNAMIC** (CONF:4537-1232).

Table 41: Gender Identity USCDI core

Value Set: Gender Identity USCDI core urn:oid:2.16.840.1.113762.1.4.1021.101 (Clinical Focus: Concepts that are used to describe a person's socially acknowledged gender that are used, at a minimum, in the USA. This is the gender they identify as. These are not concepts used to describe a person's sexual orientation (who they are attracted to).),(Data Element Scope: gender identity),(Inclusion Criteria: Concepts that can represent a type of gender that as used in the USA. This is not restricted to male and female.),(Exclusion Criteria: Concepts that are improper to use in the USA for gender identity. Concepts used to describe a person's sexual orientation. Concepts that are used to represent when data is absent or not represented in the provided list.) This value set was imported on 6/17/2022 with a version of Latest. Value Set Source: https://vsac.nlm.nih.gov/valueset/2.16.840.1.113762.1.4.1021.101/expansion			
Code	Code System	Code System OID	Print Name
407376001	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Male-to-female transsexual (finding)
407377005	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Female-to-male transsexual (finding)
44613100012 4102	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Identifies as non-conforming gender (finding)
44614100012 4107	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Identifies as female gender (finding)
44615100012 4109	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Identifies as male gender (finding)

Table 42: Asked but Unknown and Other

Value Set: Asked but Unknown and Other urn:oid:2.16.840.1.113762.1.4.1114.17 (Clinical Focus: Data absent reasons specific for representing only asked but unknown and other),(Data Element Scope: any data representation that supports inclusion of data absent reasons),(Inclusion Criteria: Asked but no answer known and Other meant to mean data not available for selection),(Exclusion Criteria: all other codes) This value set was imported on 6/17/2022 with a version of Latest. Value Set Source: https://vsac.nlm.nih.gov/valueset/2.16.840.1.113762.1.4.1114.17/expansion			
Code	Code System	Code System OID	Print Name
ASKU	HL7NullFlavor	urn:oid:2.16.840.1.113883.5.10 08	asked but unknown
OTH	HL7NullFlavor	urn:oid:2.16.840.1.113883.5.10 08	other

Figure 13: Gender Identity Observation Example

```
<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.22.4.38" extension="2022-06-01"/>
  <!-- Gender Identity Observation -->
  <templateId root="2.16.840.1.113883.10.20.34.3.45" extension="2023-05-01" />
  <id root="5501b49a-32ea-4c78-9c31-3dbe782871b7" />
  <code code="76691-5"
    displayName="Gender identity"
    codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC" />
  <statusCode code="completed" />
  <effectiveTime>
    <low value="20180703" />
  </effectiveTime>
  <value xsi:type="CD" code="446141000124107"
    displayName="Identifies as female gender (finding)"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT" />
</observation>
```

3.5 Interpreter Required by Patient Observation

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.5.6.300:2024-05-01 (closed)]

Draft as part of NHSN Healthcare Associated Infection Reports Release 4, STU 3 - US Realm

Table 43: Interpreter Required by Patient Observation Contexts

Contained By:	Contains:
NHSN Social History Section (V3) (required)	

This observation records whether the patient needs or wants an interpreter to communicate with a doctor or health care staff.

If the person needs an interpreter, set the value of @negationInd to false. If the person does not need an interpreter, set the value of @negationInd to true.

Table 44: Interpreter Required by Patient Observation Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.6.300:2024-05-01)					
@classCode	1..1	SHALL		5554-31054	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		5554-31055	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
@negationInd	1..1	SHALL		5554-31056	
templateId	1..1	SHALL		5554-31039	
@root	1..1	SHALL		5554-31045	2.16.840.1.113883.10.20.22.4.4
templateId	1..1	SHALL		5554-31044	
@root	1..1	SHALL		5554-31052	2.16.840.1.113883.10.20.5.6.300
@extension	1..1	SHALL		5554-31053	2024-05-01
id	1..1	SHALL		5554-31040	
@nullFlavor	1..1	SHALL		5554-31046	NA
code	1..1	SHALL		5554-31041	
@code	1..1	SHALL		5554-31047	ASSERTION
@codeSystem	1..1	SHALL		5554-31048	urn:oid:2.16.840.1.113883.5.4 (HL7ActCode) = 2.16.840.1.113883.5.4
statusCode	1..1	SHALL		5554-31042	
@code	1..1	SHALL		5554-31049	urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed
value	1..1	SHALL	CD	5554-31043	
@code	1..1	SHALL	CS	5554-31050	54588-9
@codeSystem	1..1	SHALL		5554-31051	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1

1. Conforms to Problem Observation template (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.4).

2. **SHALL** contain exactly one [1..1] **@classCode="OBS"** Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:5554-31054).
3. **SHALL** contain exactly one [1..1] **@moodCode="EVN"** Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:5554-31055).

If the person needs an interpreter, set the value of **@negationInd** to false. If the person does not need an interpreter, set the value of **@negationInd** to true.

4. **SHALL** contain exactly one [1..1] **@negationInd** (CONF:5554-31056).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:5554-31039) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.10.20.22.4.4"** (CONF:5554-31045).
6. **SHALL** contain exactly one [1..1] **templateId** (CONF:5554-31044) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.10.20.5.6.300"** (CONF:5554-31052).
 - b. **SHALL** contain exactly one [1..1] **@extension="2024-05-01"** (CONF:5554-31053).
7. **SHALL** contain exactly one [1..1] **id** (CONF:5554-31040).
 - a. This **id** **SHALL** contain exactly one [1..1] **@nullFlavor="NA"** (CONF:5554-31046).
8. **SHALL** contain exactly one [1..1] **code** (CONF:5554-31041).
 - a. This **code** **SHALL** contain exactly one [1..1] **@code="ASSERTION"** Assertion (CONF:5554-31047).
 - b. This **code** **SHALL** contain exactly one [1..1] **@codeSystem="2.16.840.1.113883.5.4"** (CodeSystem: HL7ActCode urn:oid:2.16.840.1.113883.5.4) (CONF:5554-31048).
9. **SHALL** contain exactly one [1..1] **statusCode** (CONF:5554-31042).
 - a. This **statusCode** **SHALL** contain exactly one [1..1] **@code="completed"** Completed (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14 **STATIC**) (CONF:5554-31049).
10. **SHALL** contain exactly one [1..1] **value** with **@xsi:type="CD"** (CONF:5554-31043).
 - a. This **value** **SHALL** contain exactly one [1..1] **@code="54588-9"** Interpreter needed (CONF:5554-31050).
 - b. This **value** **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:5554-31051).

Figure 14: Interpreter Required by Patient Observation Example

```
<!-- This observation records whether the patient needs or wants an interpreter to
communicate with a doctor or health care staff.
If the person needs an interpreter, set the value of @negationInd to false.
If the person does not need an interpreter, set the value of @negationInd to true. -->
<observation classCode="OBS" moodCode="EVN" negationInd="false">
  <!-- [C-CDA R1.1] Problem Observation -->
  <templateId root="2.16.840.1.113883.10.20.22.4.4" />
  <!-- [HAI R4STU3] Interpreter Required by Patient Observation -->
  <templateId root="2.16.840.1.113883.10.20.5.6.300" extension="2024-05-01" />
  <id nullFlavor="NA" />
  <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" />
  <statusCode code="completed" />
  <value xsi:type="CD" code="54588-9"
    codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC"
    displayName="Interpreter needed" />
</observation>
```

3.6 Interpreter Used by Patient This Encounter Observation

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.5.6.301:2024-05-01
(closed)]

Draft as part of NHSN Healthcare Associated Infection Reports Release 4, STU
3 - US Realm

Table 45: Interpreter Used by Patient This Encounter Observation Contexts

Contained By:	Contains:
NHSN Social History Section (V3) (required)	

NOTE TO BALLOT COMMENTERS

Interpreter Used by Patient This Encounter concept: two alternate modeling approaches have been included in this IG – we would like feedback on the suitability/desirability of each approach:

- See "Note to Ballot Commenters" in Volume 1 of the IG.
- See encompassingEncounter/sdtc:specialArrangementCode in the [HAI Single-Person Report Generic Constraints LTCF \(V4\)](#) template for an alternate approach to modeling this concept.
- Pros of this approach: ability to assert that an interpreter was not used in this encounter.
- Cons of this approach: does not align with FHIR [Encounter.specialArrangement](#).

This observation records whether the patient used an interpreter to communicate with a doctor or health care staff in this encounter.

If the person did use an interpreter, set the value of @negationInd to false. If the person did not use an interpreter, set the value of @negationInd to true.

Table 46: Interpreter Used by Patient This Encounter Observation Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.6.301:2024-05-01)					
@classCode	1..1	SHALL		5554-31074	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		5554-31075	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
@negationInd	1..1	SHALL		5554-31076	
templateId	1..1	SHALL		5554-31059	
@root	1..1	SHALL		5554-31065	2.16.840.1.113883.10.20.22.4.4
templateId	1..1	SHALL		5554-31064	
@root	1..1	SHALL		5554-31072	2.16.840.1.113883.10.20.5.6.301
@extension	1..1	SHALL		5554-31073	2024-05-01
id	1..1	SHALL		5554-31060	
@nullFlavor	1..1	SHALL		5554-31066	NA
code	1..1	SHALL		5554-31061	
@code	1..1	SHALL		5554-31067	ASSERTION
@codeSystem	1..1	SHALL		5554-31068	urn:oid:2.16.840.1.113883.5.4 (HL7ActCode) = 2.16.840.1.113883.5.4
statusCode	1..1	SHALL		5554-31062	
@code	1..1	SHALL		5554-31069	urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed
value	1..1	SHALL	CD	5554-31063	
@code	1..1	SHALL	CS	5554-31070	314431000
@codeSystem	1..1	SHALL		5554-31071	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 2.16.840.1.113883.6.96

1. Conforms to Problem Observation template (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.4).

2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:5554-31074).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:5554-31075).

If the person did use an interpreter, set the value of **@negationInd** to false. If the person did not use an interpreter, set the value of **@negationInd** to true.

4. **SHALL** contain exactly one [1..1] **@negationInd** (CONF:5554-31076).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:5554-31059) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.4" (CONF:5554-31065).
6. **SHALL** contain exactly one [1..1] **templateId** (CONF:5554-31064) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.5.6.301" (CONF:5554-31072).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2024-05-01" (CONF:5554-31073).
7. **SHALL** contain exactly one [1..1] **id** (CONF:5554-31060).
 - a. This **id** **SHALL** contain exactly one [1..1] **@nullFlavor**="NA" (CONF:5554-31066).
8. **SHALL** contain exactly one [1..1] **code** (CONF:5554-31061).
 - a. This **code** **SHALL** contain exactly one [1..1] **@code**="ASSERTION" Assertion (CONF:5554-31067).
 - b. This **code** **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.5.4" (CodeSystem: HL7ActCode urn:oid:2.16.840.1.113883.5.4) (CONF:5554-31068).
9. **SHALL** contain exactly one [1..1] **statusCode** (CONF:5554-31062).
 - a. This **statusCode** **SHALL** contain exactly one [1..1] **@code**="completed" Completed (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14 **STATIC**) (CONF:5554-31069).
10. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:5554-31063).
 - a. This **value** **SHALL** contain exactly one [1..1] **@code**="314431000" Interpreter present (finding) (CONF:5554-31070).
 - b. This **value** **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.96" (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:5554-31071).

Figure 15: Interpreter Used by Patient This Encounter Observation Example

```
<!-- This observation records whether the patient used an interpreter to communicate
with a doctor or health care staff in this encounter.
If the person did use an interpreter, set the value of @negationInd to false.
If the person did not use an interpreter, set the value of @negationInd to true. -->
<observation classCode="OBS" moodCode="EVN" negationInd="false">
  <!-- [C-CDA R1.1] Problem Observation -->
  <templateId root="2.16.840.1.113883.10.20.22.4.4" />
  <!-- [HAI R4STU3] Interpreter Used by Patient This Encounter Observation -->
  <templateId extension="2024-05-01" root="2.16.840.1.113883.10.20.5.6.301" />
  <id nullFlavor="NA" />
  <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" />
  <statusCode code="completed" />
  <value xsi:type="CD" code="314431000"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT"
    displayName="Interpreter present (finding)" />
</observation>
```

3.7 NHSN Comment

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

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

Table 47: NHSN Comment Contexts

Contained By:	Contains:
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 48: 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	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		3311-88	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3311-79	
@root	1..1	SHALL		3311-89	2.16.840.1.113883.10.20.5.6.243
@extension	1..1	SHALL		3311-92	2017-04-01
code	1..1	SHALL		3311-80	
@code	1..1	SHALL		3311-90	86467-8
@codeSystem	1..1	SHALL		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	

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
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.5.6.243" (CONF:3311-89).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2017-04-01" (CONF:3311-92).
4. **SHALL** contain exactly one [1..1] **code** (CONF:3311-80).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="86467-8" Report comment Narrative (CONF:3311-90).
 - b. 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).
 - a. The length of the free text comment **SHALL** be less than 2000 characters (CONF:3311-93).

Figure 16: 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>
```

3.8 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)]

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

Table 49: Pathogen Identified Observation in a Lab Identified Report LTCF Contexts

Contained By:	Contains:
Findings Section in a Laboratory Identified Report LTCF (required)	Specimen Collection Procedure in a Lab Identified Report LTCF (required)

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

Table 50: 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	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		4417-31054	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		4417-31046	
@root	1..1	SHALL		4417-31058	2.16.840.1.113883.10.20.22.4.2
templateId	1..1	SHALL		4417-31421	
@root	1..1	SHALL		4417-31422	2.16.840.1.113883.10.20.5.1.3.3
@extension	1..1	SHALL		4417-31423	2019-08-01
id	1..1	SHALL		4417-31043	
@nullFlavor	1..1	SHALL		4417-31052	NA
code	1..1	SHALL		4417-31040	
@code	1..1	SHALL		4417-31048	41852-5
@codeSystem	1..1	SHALL		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	
@code	1..1	SHALL		4417-31050	urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed
effectiveTime	1..1	SHALL		4417-31056	
value	1..1	SHALL	CD	4417-31055	urn:oid:2.16.840.1.114222.4.11.3194 (NHSNSignificantPathogenCode)
entryRelationship	1..1	SHALL		4417-31038	
@typeCode	1..1	SHALL		4417-31047	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = COMP
procedure	1..1	SHALL		4417-31039	Specimen Collection Procedure in a Lab Identified Report LTCF (identifier: urn:hl7ii:2.16.840.1.113883.1

XPath	Card.	Verb	Data Type	CONF#	Value
					0.20.5.1.3.2:2019-08-01

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
 - a. **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
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.5.1.3.3"
(CONF:4417-31422).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2019-08-01" (CONF:4417-31423).
6. **SHALL** contain exactly one [1..1] **id** (CONF:4417-31043).
 - a. This id **SHALL** contain exactly one [1..1] **@nullFlavor**="NA" (CONF:4417-31052).
7. **SHALL** contain exactly one [1..1] **code** (CONF:4417-31040).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="41852-5" Microorganism
identified (CONF:4417-31048).
 - b. 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).
 - a. 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](#)
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
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="COMP" Has component (CodeSystem:
HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:4417-
31047).
 - b. **SHALL** contain exactly one [1..1] [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) (CONF:4417-
31039).

Table 51: 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 17: 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>
```

3.9 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 52: Report No Events Contexts

Contained By:	Contains:
Report No Events Section (required)	

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

Table 53: 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	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		3357-30600	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		3357-28468	
@root	1..1	SHALL		3357-28470	2.16.840.1.113883.10.20.5.6.249
@extension	1..1	SHALL		3357-28471	2018-04-01
code	1..1	SHALL		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
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.5.6.249" (CONF:3357-28470).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2018-04-01" (CONF:3357-28471).
4. **SHALL** contain exactly one [1..1] **code** (CONF:3357-28469).
 - a. If this is a Neonatal Intensive Care Unit (NICU) Summary Report then the code **SHALL** be selected from value set [NHSNReportNoEventsNICU urn:oid:2.16.840.1.113883.10.20.5.9.19DYNAMIC](#) (CONF:3357-30905).
 - b. If this is an Intensive Care Unit (ICU) Summary Report then the code **SHALL** be selected from value set [NHSNReportNoEventsICU urn:oid:2.16.840.1.113883.10.20.5.9.18DYNAMIC](#) (CONF:3357-30906).
 - c. If this is a Vascular Access Type Report (VAT) Summary Report then the code **SHALL** be selected from value set [NHSNReportNoEventsDialysis urn:oid:2.16.840.1.113883.10.20.5.9.22DYNAMIC](#) (CONF:3357-30907).
 - d. If this is a Prevention Process and Outcome Measures (POM) Summary Report then the code **SHALL** be selected from value set [NHSNReportNoEventsMDRO urn:oid:2.16.840.1.113883.10.20.5.9.21DYNAMIC](#) (CONF:3357-30908).
 - e. If this is a Specialty Care Area (SCA) Summary Report then the code **SHALL** be selected from value set [NHSNReportNoEventsSCA urn:oid:2.16.840.1.113883.10.20.5.9.20DYNAMIC](#) (CONF:3357-30909).
 - f. 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:2.16.840.1.113883.10.20.5.9.33DYNAMIC](#) (CONF:3357-30913).

- g. 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](#)**DYNAMIC** (CONF:3357-30914).
- h. 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](#)
[\(urn:oid:2.16.840.1.113883.10.20.5.1.9.1\)](#)**DYNAMIC** (CONF:3357-30915).

Table 54: 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 55: 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 56: 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 57: 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 58: 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 59: 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 60: NHSNReportNoEventsAR

<p>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:)</p> <p>This value set was imported on 9/16/2020 with a version of Latest.</p> <p>Value Set Source: https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.10.20.5.9.35/expansion</p>			
Code	Code System	Code System OID	Print Name
1341-7	CDCNHSN	urn:oid:2.16.840.1.113883.6.27 7	Report No Events: Antimicrobial Resistance (AR)

Table 61: 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 18: 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>
```

3.10 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)]

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Long Term Care Facilities (LTCF), Release 1, STU 1 - US Realm

Table 62: Specimen Collection Procedure in a Lab Identified Report LTCF Contexts

Contained By:	Contains:
Pathogen Identified Observation in a Lab Identified Report LTCF (required)	

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

Table 63: 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	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = PROC
@moodCode	1..1	SHALL		4417-31032	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		4417-31060	
@root	1..1	SHALL		4417-31061	2.16.840.1.113883.10.20.5.1.3.2
@extension	1..1	SHALL		4417-31062	2019-08-01
code	1..1	SHALL		4417-31396	
@code	1..1	SHALL		4417-31397	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 17636008
effectiveTime	1..1	SHALL		4417-31368	
low	1..1	SHALL		4417-31369	
participant	1..1	SHALL		4417-31024	
@typeCode	1..1	SHALL		4417-31033	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = PRD
participantRole	1..1	SHALL		4417-31025	
@classCode	1..1	SHALL		4417-31034	urn:oid:2.16.840.1.113883.5.110 (HL7RoleClass) = SPEC
playingEntity	1..1	SHALL		4417-31026	
code	1..1	SHALL		4417-31027	urn:oid:2.16.840.1.114222.4.11.3249 (NHSNSpecimenTypeCode)
@nullFlavor	0..1	MAY		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
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.5.1.3.2" (CONF:4417-31061).

- b. **SHALL** contain exactly one [1..1] **@extension**="2019-08-01" (CONF:4417-31062).
- 4. **SHALL** contain exactly one [1..1] **code** (CONF:4417-31396).
 - a. 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).
 - a. 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).
 - a. 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).
 - b. This participant **SHALL** contain exactly one [1..1] **participantRole** (CONF:4417-31025).
 - i. 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).
 - ii. 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](#) urn:oid:2.16.840.1.114222.4.11.3249 **DYNAMIC** (CONF:4417-31027).

Note: Specimen type

- a. 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 64: 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 19: 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>
    <low value="20190119" />
  </effectiveTime>
  <!-- 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>
```

3.11 Summary Data Observation LTCF (V2)

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

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Table 65: Summary Data Observation LTCF (V2) Contexts

Contained By:	Contains:
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 66: 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	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		4544-31325	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		4544-31320	
@root	1..1	SHALL		4544-31326	2.16.840.1.113883.10.20.5.1.3.14
@extension	1..1	SHALL		4544-31336	2023-02-01
code	1..1	SHALL		4544-31321	
statusCode	1..1	SHALL		4544-31322	
@code	1..1	SHALL		4544-31334	urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed
value	1..1	SHALL		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
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.5.1.3.14" (CONF:4544-31326).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2023-02-01" (CONF:4544-31336).
4. **SHALL** contain exactly one [1..1] **code** (CONF:4544-31321).
 - a. 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:4544-31332).
 - b. 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 \(2.16.840.1.113883.10.20.5.1.5.9.4\)](#) (CONF:4544-31430).
 - c. 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 \(2.16.840.1.113883.10.20.5.1.5.9.5\)](#) (CONF:4544-31431).
5. **SHALL** contain exactly one [1..1] **statusCode** (CONF:4544-31322).

- a. 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).
 - a. 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 67: 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 68: 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 69: 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 20: Summary Data Observation LTCF (V2) Example

<pre><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></pre>
--

3.12 Summary Encounter LTCF (V2)

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

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Table 70: Summary Encounter LTCF (V2) Contexts

Contained By:	Contains:
Summary Data Section LTCF (V2) (required)	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 71: 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	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ENC
@moodCode	1..1	SHALL		4544-31343	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		4544-31337	
@root	1..1	SHALL		4544-31344	2.16.840.1.113883.10.20.5.1.3.15
@extension	1..1	SHALL		4544-31351	2023-02-01
participant	1..1	SHALL		4544-31338	
@typeCode	1..1	SHALL		4544-31345	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = LOC
participantRole	1..1	SHALL		4544-31339	
@classCode	1..1	SHALL		4544-31346	urn:oid:2.16.840.1.113883.5.41 (HL7EntityClass) = SDLOC
id	1..1	SHALL		4544-31362	
@root	1..1	SHALL		4544-31363	
@extension	1..1	SHALL		4544-31364	
entryRelationship	1..*	SHALL		4544-31340	
@typeCode	1..1	SHALL		4544-31350	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = COMP
observation	1..1	SHALL		4544-31341	Summary Data Observation LTCF (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.14:2023-02-01)

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
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.5.1.3.15" (CONF:4544-31344).
 - b. **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
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="LOC" Location (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 **STATIC**) (CONF:4544-31345).
 - b. **SHALL** contain exactly one [1..1] **participantRole** (CONF:4544-31339).
 - i. 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).
 - ii. 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

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

5. **SHALL** contain at least one [1..*] **entryRelationship** (CONF:4544-31340) such that it
 - a. **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).
 - b. **SHALL** contain exactly one [1..1] [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 21: 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>
```

3.13 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)]

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Table 72: Transfer From Acute Care Facility to LTCF in Past Four Weeks Contexts

Contained By:	Contains:
Encounters Section in an LTCF Report (required)	Antibiotic Treatment at Time of Transfer (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 73: 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	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		4417-31377	urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN
templateId	1..1	SHALL		4417-31372	
@root	1..1	SHALL		4417-31378	2.16.840.1.113883.10.20.5.1.3.5
@extension	1..1	SHALL		4417-31379	2019-08-01
code	1..1	SHALL		4417-31370	
@code	1..1	SHALL		4417-31373	1374-8
@codeSystem	1..1	SHALL		4417-31386	urn:oid:2.16.840.1.113883.6.277 (CDCNHSN)
statusCode	1..1	SHALL		4417-31371	
@code	1..1	SHALL		4417-31374	urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed
effectiveTime	1..1	SHALL		4417-31380	
@nullFlavor	0..1	MAY		4417-31416	urn:oid:2.16.840.1.113883.5.1008 (HL7NullFlavor) = NA
low	0..1	SHOULD		4417-31390	
value	1..1	SHALL	BL	4417-31375	
entryRelationship	0..1	MAY		4417-31381	
observation	1..1	SHALL		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)

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
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.5.1.3.5" (CONF:4417-31378).

- b. **SHALL** contain exactly one [1..1] **@extension**="2019-08-01" (CONF:4417-31379).
- 4. **SHALL** contain exactly one [1..1] **code** (CONF:4417-31370).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="1374-8" Resident transferred from acute care facility in past 4 weeks (CONF:4417-31373).
 - b. 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).
 - a. 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.

- 6. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:4417-31380).
 - a. 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).
 - b. This effectiveTime **SHOULD** contain zero or one [0..1] **low** (CONF:4417-31390).
Note: Date of last transfer from acute care to your facility
- 7. **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.

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

Figure 22: 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 23: 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>
```

4 TEMPLATE IDS IN THIS GUIDE

Table 74: Template List

Template Title	Template Type	templateId
HAI Population Summary Report Generic Constraints	document	urn:oid:2.16.840.1.113883.10.20.5.4.28
HAI Single-Person Report Generic Constraints LTCF (V4)	document	urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.3:2024-05-01
Healthcare Associated Infection Report	document	urn:oid:2.16.840.1.113883.10.20.5.4.25
Laboratory Identified MDRO or CDI Event Report for LTCF (V4)	document	urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.1:2024-05-01
LTCF Monthly Summary Data for MDRO, CDI, UTI, and Prevention Process Measures (V2)	document	urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.2:2023-02-01
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	section	urn:hl7ii:2.16.840.1.113883.10.20.5.1.2.1:2019-08-01
HAI Section Generic Constraints	section	urn:oid:2.16.840.1.113883.10.20.5.4.26
NHSN Comment Section	section	urn:hl7ii:2.16.840.1.113883.10.20.5.5.61:2017-04-01
NHSN Social History Section (V3)	section	urn:hl7ii:2.16.840.1.113883.10.20.5.5.81:2024-05-01
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)	section	urn:hl7ii:2.16.840.1.113883.10.20.5.1.2.3:2023-02-01
Antibiotic Treatment at Time of Transfer	entry	urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.12:2019-08-01
Birth Sex Observation	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.200:2016-06-01
First Admission Encounter in a Lab Identified Report LTCF	entry	urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.4:2019-08-01
Gender Identity Observation (V4)	entry	urn:hl7ii:2.16.840.1.113883.10.20.34.3.45:2023-05-01
Interpreter Required by Patient Observation	entry	urn:hl7ii:2.16.840.1.113883.10.20.5.6.300:2024-05-01
Interpreter Used by Patient This Encounter Observation	entry	urn:hl7ii:2.16.840.1.113883.10.20.5.6.301:2024-05-01
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	entry	urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.3:2019-08-01

Template Title	Template Type	templateId
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	entry	urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.2:2019-08-01
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)	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	entry	urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.5:2019-08-01

Table 75: Template Containments

Template Title	Template Type	templateId
HAI Population Summary Report Generic Constraints	document	urn:oid:2.16.840.1.113883.10.20.5.4.28
HAI Single-Person Report Generic Constraints LTCF (V4)	document	urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.3:2024-05-01
NHSN Social History Section (V3)	section	urn:hl7ii:2.16.840.1.113883.10.20.5.5.81:2024-05-01
Birth Sex Observation	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.200:2016-06-01
Gender Identity Observation (V4)	entry	urn:hl7ii:2.16.840.1.113883.10.20.34.3.45:2023-05-01
Interpreter Required by Patient Observation	entry	urn:hl7ii:2.16.840.1.113883.10.20.5.6.300:2024-05-01
Interpreter Used by Patient This Encounter Observation	entry	urn:hl7ii:2.16.840.1.113883.10.20.5.6.301:2024-05-01
Healthcare Associated Infection Report	document	urn:oid:2.16.840.1.113883.10.20.5.4.25
Laboratory Identified MDRO or CDI Event Report for LTCF (V4)	document	urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.1:2024-05-01
NHSN Comment Section	section	urn:hl7ii:2.16.840.1.113883.10.20.5.5.61:2017-04-01
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	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	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	entry	urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.2:2019-08-01
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	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	entry	urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.5:2019-08-01
Antibiotic Treatment at Time of Transfer	entry	urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.12:2019-08-01
LTCF Monthly Summary Data for MDRO, CDI, UTL, and Prevention Process Measures (V2)	document	urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.2:2023-02-01
Report No Events Section	section	urn:hl7ii:2.16.840.1.113883.10.20.5.5.62:2018-04-01
Report No Events	entry	urn:hl7ii:2.16.840.1.113883.10.20.5.6.249:2018-04-01

Template Title	Template Type	templateId
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)	entry	urn:hl7ii:2.16.840.1.113883.10.20.5.1.3.15:2023-02-01
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	section	urn:oid:2.16.840.1.113883.10.20.5.4.26

5 VALUE SETS IN THIS GUIDE

Table 76: Value Sets

Name	OID	URL
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
Asked but Unknown and Other	urn:oid:2.16.840.1.113762.1.4.1114.17	https://vsac.nlm.nih.gov/valueset/2.16.840.1.113762.1.4.1114.17/expansion
Codes for Denominators for Long Term Care Locations LTCF	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	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	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
Detailed Ethnicity	urn:oid:2.16.840.1.114222.4.11.877	https://vsac.nlm.nih.gov/valueset/2.16.840.1.114222.4.11.877/expansion
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
Gender Identity USCDI core	urn:oid:2.16.840.1.113762.1.4.1021.101	https://vsac.nlm.nih.gov/valueset/2.16.840.1.113762.1.4.1021.101/expansion
Language	urn:oid:2.16.840.1.113883.1.11.11526	http://www.loc.gov/standards/iso639-2/php/code_list.php
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	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	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	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	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	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

Name	OID	URL
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	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	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	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	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	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	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
ONC Administrative Sex	urn:oid:2.16.840.1.113762.1.4.1	https://vsac.nlm.nih.gov/valueset/2.16.840.1.113762.1.4.1/expansion
Race Value Set	urn:oid:2.16.840.1.113883.1.11.14914	https://vsac.nlm.nih.gov/valueset/2.16.840.1.113883.1.11.14914/expansion
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

6 CODE SYSTEMS IN THIS GUIDE

Table 77: 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
HL7AddressUse	urn:oid:2.16.840.1.113883.5.1119
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
HL7LanguageAbilityMode	urn:oid:2.16.840.1.113883.5.60
HL7LanguageAbilityProficiency	urn:oid:2.16.840.1.113883.5.61
HL7MaritalStatus	urn:oid:2.16.840.1.113883.5.2
HL7NullFlavor	urn:oid:2.16.840.1.113883.5.1008
HL7ParticipationFunction	urn:oid:2.16.840.1.113883.5.88
HL7ParticipationSignature	urn:oid:2.16.840.1.113883.5.89
HL7ParticipationType	urn:oid:2.16.840.1.113883.5.90
HL7ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076
HL7RoleClass	urn:oid:2.16.840.1.113883.5.110
HL7RoleCode	urn:oid:2.16.840.1.113883.5.111
HSLOC	urn:oid:2.16.840.1.113883.6.259
ICD-10-CM	urn:oid:2.16.840.1.113883.6.90
Insurance Type Code	urn:oid:2.16.840.1.113883.3.88.12.3221.5.2
ISO 3166 Part 1 Country Codes, 2nd Edition, Alpha-2	urn:oid:1.0.3166.1.2.2
Language	urn:oid:2.16.840.1.113883.6.121
LOINC	urn:oid:2.16.840.1.113883.6.1
Media Type	urn:oid:2.16.840.1.113883.5.79
MedicationDispense Status Codes	urn:oid:2.16.840.1.113883.4.642.4.1313
ObservationInterpretation	urn:oid:2.16.840.1.113883.5.83
ProvenanceParticipantType	urn:oid:2.16.840.1.113883.4.642.4.1131
Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238

Name	OID
RxNorm	urn:oid:2.16.840.1.113883.6.88
SNOMED CT	urn:oid:2.16.840.1.113883.6.96
Source of Payment Typology (PHDSC)	urn:oid:2.16.840.1.113883.3.221.5
TribalEntityUS	urn:oid:2.16.840.1.113883.5.140
UCUM	urn:oid:1.3.6.1.4.1.12009.10.3.1
UCUM	urn:oid:2.16.840.1.113883.6.8

7 CHANGES FROM PREVIOUS VERSION

7.1 HAI Single-Person Report Generic Constraints LTCF (V4)

HAI Single-Person Report Generic Constraints LTCF (V4)

(urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.3:2024-05-01)

Change	Old	New
Status	Published	Draft
Name	HAI Single-Person Report Generic Constraints LTCF (V3)	HAI Single-Person Report Generic Constraints LTCF (V4)
Oid	urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.3:2023-12-01	urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.3:2024-05-01
Description	<p>This template records the constraints for HAI LTCF single-person reports. It is used by all numerator reports covered by this guide.</p> <p>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.</p> <p>* 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).</p> <p>* The resident name is optional; consult the NHSN reporting protocol and requirements.</p> <p>* Resident gender and birthdate are required.</p> <p>* Resident race is required and multiple races can be recorded, to represent an unknown race, set nullFlavor="UNK", to represent "declined to respond", set nullFlavor="ASKU".</p> <p>* Resident ethnicity is required and multiple races can be recorded, to represent an unknown ethnicity, set nullFlavor="UNK", to represent "declined to respond", set nullFlavor="ASKU".</p>	<p>**NOTE TO BALLOT COMMENTERS**</p> <p>**Interpreter Used by Patient This Encounter concept**: two alternate modeling approaches have been included in this IG – we would like feedback on the suitability/desirability of each approach:</p> <p>* This approach: encompassingEncounter/sdtc:specialArrangementCode</p> <p>* See "Note to Ballot Commenters" in Volume 1 of the IG.</p> <p>* See [Interpreter Used by Patient This Encounter Observation](#E_Interpreter_Used_by_Patient_This_Enco) for an alternate approach to modeling this concept.</p> <p>* Pros of this approach: aligns with FHIR [Encounter.specialArrangement](http://hl7.org/fhir/R5/encounter-definitions.html#Encounter.specialArrangement).</p> <p>* Cons of this approach: requires an extension to be approved by the Structured Document WG and added to the SDTC CDA Schema.</p> <p>This template records the constraints for HAI LTCF single-person reports. It is used by all numerator reports covered by this guide.</p>

Change	Old	New
	<p>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.</p> <p>Note: The section on “Template Ids in this Guide” includes a containment table showing all the entries within each report type.</p>	<p>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.</p> <p>* 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).</p> <p>* The resident name is optional; consult the NHSN reporting protocol and requirements.</p> <p>* Resident gender and birthdate are required.</p> <p>* Resident race is required and multiple races can be recorded, to represent an unknown race, set nullFlavor="UNK", to represent "declined to respond", set nullFlavor="ASKU".</p> <p>* Resident ethnicity is required and multiple races can be recorded, to represent an unknown ethnicity, set nullFlavor="UNK", to represent "declined to respond", set nullFlavor="ASKU".</p> <p>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.</p> <p>The encompassingEncounter includes whether or not an interpreter was used based on the presence of sdct:specialArrangementCode.</p> <p>Note: The section on “Template Ids</p>

Change	Old	New
		in this Guide” includes a containment table showing all the entries within each report type.
CONF #: 5555-31424 Added		This patient SHALL contain at least one [1..*] languageCommunication (CONF:5555-31424).
CONF #: 5555-31425 Added		Such languageCommunications SHALL contain exactly one [1..1] languageCode, which SHALL be selected from ValueSet Language urn:oid:2.16.840.1.113883.1.11.11526 DYNAMIC (CONF:5555-31425).
CONF #: 5555-31428 Added		Such languageCommunications SHOULD contain zero or one [0..1] preferenceInd (CONF:5555-31428).
CONF #: 5555-31429 Added		SHALL contain exactly one [1..1] componentOf (CONF:5555-31429).
CONF #: 5555-31430 Added		If sdtc:specialArrangementCode is present and @code="int" then an interpreter was used in this encounter, if sdtc:specialArrangementCode is not present (or is present but @code!="int" then an interpreter was not used in this encounter. This componentOf SHALL contain exactly one [1..1] encompassingEncounter (CONF:5555-31430).
CONF #: 5555-31433 Added		This encompassingEncounter MAY contain one or more [0..1] sdtc:specialArrangementCode (CONF:5555-31433).
CONF #: 5555-31436 Added		This sdtc:specialArrangementCode SHALL contain exactly one [1..1] @code="int" interpreter (CONF:5555-31436).
CONF #: 5555-31437 Added		This sdtc:specialArrangementCode SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.4.642.1.1090" (CodeSystem: Special arrangements urn:oid:2.16.840.1.113883.4.642.1.1090 STATIC) (CONF:5555-31437).
CONF #: 5555-31415 Modified	SHALL contain exactly one [1..1] @extension="2023-12-01" (CONF:5552-31415).	SHALL contain exactly one [1..1] @extension="2024-05-01" (CONF:5555-31415).

7.2 Laboratory Identified MDRO or CDI Event Report for LTCF (V4)

Laboratory Identified MDRO or CDI Event Report for LTCF (V4)

(urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.1:2024-05-01)

Change	Old	New
Status	Published	Draft
Name	Laboratory Identified MDRO or CDI Event Report for LTCF (V3)	Laboratory Identified MDRO or CDI Event Report for LTCF (V4)
Oid	urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.1:2023-12-01	urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.1:2024-05-01
Implied Template	HAI Single-Person Report Generic Constraints LTCF (V3) (urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.3:2023-12-01)	HAI Single-Person Report Generic Constraints LTCF (V4) (urn:hl7ii:2.16.840.1.113883.10.20.5.1.1.3:2024-05-01)
CONF #: 5555-31438 Added		This structuredBody MAY contain zero or one [0..1] component (CONF:5555-31438) such that it
CONF #: 5555-31439 Added		SHALL contain exactly one [1..1] section (CONF:5555-31439).
CONF #: 5555-31440 Added		This effectiveTime SHALL contain exactly one [1..1] low (CONF:5555-31440). Note: Date of Current Admission
CONF #: 5552-31424 Removed	This structuredBody MAY contain zero or one [0..1] component (CONF:5552-31424) such that it	
CONF #: 5552-31425 Removed	SHALL contain exactly one [1..1] section (CONF:5552-31425).	
CONF #: 5552-31427 Removed	This effectiveTime SHALL contain exactly one [1..1] low (CONF:5552-31427). Note: Date of Current Admission	
CONF #: 5555-30999 Modified	SHALL contain exactly one [1..1] @extension="2023-12-01" (CONF:5552-30999).	SHALL contain exactly one [1..1] @extension="2024-05-01" (CONF:5555-30999).