Periodontal Attachment IG

November 12

Table of Contents

1 document 4

1.1 Periodontal Claim Attachment Document 4

1.2 US Realm Header (V3) 7

1.2.1 Properties 17

2 section 42

2.1 Periodontal Exam Section 42

2.2 Periodontal Narrative Section 44

3 entry 46

3.1 Frenum Involvement Observation 46

3.2 Gingival Attachment Observation 47

3.3 Gingival Probing Depth Observation 49

3.4 Gingival Probing Site Bleeding Observation 50

3.5 Gingival Probing Site Concern Act 52

3.6 Gingival Probing Site Identification Observation 55

3.7 Gingival Recession Observation 57

3.8 Gingival Tooth Concern Act 58

3.9 Oral Hygiene Acceptability Observation 61

3.10 Presence of Orthodontic Treatment Observation 63

3.11 Presence of Restorative Treatment Observation 64

3.12 Tooth Furcation Grade Observation 66

3.13 Tooth Furcation Observation 67

3.14 Tooth Identification Observation 69

3.15 Tooth Mobility Observation 71

3.16 Tooth Previously Extracted Observation 72

4 unspecified 74

4.1 US Realm Address (AD.US.FIELDED) 74

4.2 US Realm Date and Time (DT.US.FIELDED) 75

4.3 US Realm Date and Time (DTM.US.FIELDED) 76

4.4 US Realm Person Name (PN.US.FIELDED) 77

5 Template Ids in This Guide 78

6 Value Sets In This Guide 82

7 Code Systems in This Guide 96

Table of Figures

Figure 1: US Realm Header (V3) Example 30

Figure 2: recordTarget Example 31

Figure 3: author Example 33

Figure 4: dateEnterer Example 33

Figure 5: Assigned Health Care Provider informant Example 34

Figure 6: Personal Relation informant Example 34

Figure 7: custodian Example 35

Figure 8: informationRecipient Example 35

Figure 9: Digital signature Example 35

Figure 10: legalAuthenticator Example 36

Figure 11: authenticator Example 37

Figure 12: Supporting Person participant Example 38

Figure 13: inFulfillmentOf Example 38

Figure 14: performer Example 39

Figure 15: documentationOf Example 40

Figure 16: authorization Example 41

Figure 17: US Realm Address Example 75

Figure 18: US Realm Date and Time Example 76

Table of Tables

Table 1: Periodontal Claim Attachment Document Contexts 7

Table 2: Periodontal Claim Attachment Document Constraints Overview 8

Table 3: US Realm Header (V3) Contexts 10

Table 4: US Realm Header (V3) Constraints Overview 12

Table 5: Periodontal Exam Section Contexts 45

Table 6: Periodontal Exam Section Constraints Overview 46

Table 7: Periodontal Narrative Section Contexts 47

Table 8: Periodontal Narrative Section Constraints Overview 48

Table 9: Frenum Involvement Observation Contexts 49

Table 10: Frenum Involvement Observation Constraints Overview 49

Table 11: Gingival Attachment Observation Contexts 50

Table 12: Gingival Attachment Observation Constraints Overview 51

Table 13: Gingival Probing Depth Observation Contexts 52

Table 14: Gingival Probing Depth Observation Constraints Overview 52

Table 15: Gingival Probing Site Bleeding Observation Contexts 53

Table 16: Gingival Probing Site Bleeding Observation Constraints Overview 54

Table 17: Gingival Probing Site Concern Act Contexts 55

Table 18: Gingival Probing Site Concern Act Constraints Overview 56

Table 19: Gingival Probing Site Identification Observation Contexts 58

Table 20: Gingival Probing Site Identification Observation Constraints Overview 59

Table 21: Gingival Recession Observation Contexts 60

Table 22: Gingival Recession Observation Constraints Overview 60

Table 23: Gingival Tooth Concern Act Contexts 61

Table 24: Gingival Tooth Concern Act Constraints Overview 62

Table 25: Oral Hygiene Acceptability Observation Contexts 64

Table 26: Oral Hygiene Acceptability Observation Constraints Overview 65

Table 27: Presence of Orthodontic Treatment Observation Contexts 66

Table 28: Presence of Orthodontic Treatment Observation Constraints Overview 66

Table 29: Presence of Restorative Treatment Observation Contexts 67

Table 30: Presence of Restorative Treatment Observation Constraints Overview 68

Table 31: Tooth Furcation Grade Observation Contexts 69

Table 32: Tooth Furcation Grade Observation Constraints Overview 69

Table 33: Tooth Furcation Observation Contexts 70

Table 34: Tooth Furcation Observation Constraints Overview 71

Table 35: Tooth Identification Observation Contexts 72

Table 36: Tooth Identification Observation Constraints Overview 73

Table 37: Tooth Mobility Observation Contexts 74

Table 38: Tooth Mobility Observation Constraints Overview 74

Table 39: Tooth Previously Extracted Observation Contexts 75

Table 40: Tooth Previously Extracted Observation Constraints Overview 76

Table 41: US Realm Address (AD.US.FIELDED) Contexts 77

Table 42: US Realm Address (AD.US.FIELDED) Constraints Overview 77

Table 43: US Realm Date and Time (DT.US.FIELDED) Contexts 78

Table 44: US Realm Date and Time (DT.US.FIELDED) Constraints Overview 78

Table 45: US Realm Date and Time (DTM.US.FIELDED) Contexts 79

Table 46: US Realm Date and Time (DTM.US.FIELDED) Constraints Overview 79

Table 47: US Realm Person Name (PN.US.FIELDED) Contexts 80

Table 48: US Realm Person Name (PN.US.FIELDED) Constraints Overview 80

Table 49: Template List 81

Table 50: Template Containments 83

Table 51: Race 85

Table 52: HL7 BasicConfidentialityKind 85

Table 53: Language 85

Table 54: Telecom Use (US Realm Header) 85

Table 55: Administrative Gender (HL7 V3) 86

Table 56: Marital Status 86

Table 57: Religious Affiliation 86

Table 58: Race Category Excluding Nulls 86

Table 59: Ethnicity 86

Table 60: Personal And Legal Relationship Role Type 87

Table 61: Country 87

Table 62: PostalCode 87

Table 63: LanguageAbilityMode 87

Table 64: LanguageAbilityProficiency 87

Table 65: Detailed Ethnicity 88

Table 66: Healthcare Provider Taxonomy (HIPAA) 88

Table 67: INDRoleclassCodes 88

Table 68: x\_ServiceEventPerformer 88

Table 69: ParticipationFunction 89

Table 70: Dental Frenum Region 89

Table 71: Gingival Attachment 90

Table 72: Gingival Pocket Depth 91

Table 73: Dental Periodontal Probing Position 91

Table 74: Gingival Recession 92

Table 75: Dental Tooth Furcation Grade Glickman Classification 92

Table 76: Dental Tooth Furcation Site 93

Table 77: Dental Universal Numbering System 94

Table 78: Dental Tooth Mobility Miller Classification 97

Table 79: PostalAddressUse 97

Table 80: StateValueSet 98

Table 81: Code Systems 99

# document

Periodontal Claim Attachment Document

[ClinicalDocument: identifier urn:oid:2.16.840.1.113883.10.20.38.1.2 (open)]

Draft as part of Periodontal Attachment IG

Table 1: Periodontal Claim Attachment Document Contexts

| Contained By: | Contains: |
| --- | --- |
|  | [Periodontal Exam Section](#S_Periodontal_Exam_Section)[Periodontal Narrative Section](#S_Periodontal_Narrative_Section)[US Realm Date and Time (DT.US.FIELDED)](#U_US_Realm_Date_and_Time_DTUSFIELDED) |

Document for providing supporting clinical information to substantiate a claim to a payer related to periodontal care.

Table 2: Periodontal Claim Attachment Document Constraints Overview

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| XPath | Card. | Verb | Data Type | CONF# | Value |
| ClinicalDocument (identifier: urn:oid:2.16.840.1.113883.10.20.38.1.2) |
|  templateId | 1..1 | SHALL |  | [3282-365](#C_3282-365) |  |
|  @root | 1..1 | SHALL |  | [3282-375](#C_3282-375) | 2.16.840.1.113883.10.20.38.1.2 |
|  code | 1..1 | SHALL |  | [3282-366](#C_3282-366) |  |
|  @code | 1..1 | SHALL |  | [3282-376](#C_3282-376) | urn:oid:2.16.840.1.113883.6.1 (LOINC) = 74030-8 |
|  participant | 0..\* | SHOULD |  | [3282-383](#C_3282-383) |  |
|  @typeCode | 1..1 | SHALL |  | [3282-386](#C_3282-386) | urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = CALLBK |
|  associatedEntity | 1..1 | SHALL |  | [3282-384](#C_3282-384) |  |
|  @classCode | 1..1 | SHALL |  | [3282-387](#C_3282-387) | urn:oid:2.16.840.1.113883.5.110 (HL7RoleClass) = ASSIGNED |
|  id | 1..\* | SHALL |  | [3282-388](#C_3282-388) |  |
|  addr | 0..\* | SHOULD |  | [3282-389](#C_3282-389) |  |
|  telecom | 1..\* | SHALL |  | [3282-390](#C_3282-390) |  |
|  associatedPerson | 1..1 | SHALL |  | [3282-385](#C_3282-385) |  |
|  name | 1..\* | SHALL |  | [3282-391](#C_3282-391) |  |
|  scopingOrganization | 0..1 | MAY |  | [3282-392](#C_3282-392) |  |
|  componentOf | 1..1 | SHALL |  | [3282-367](#C_3282-367) |  |
|  encompassingEncounter | 1..1 | SHALL |  | [3282-368](#C_3282-368) |  |
|  id | 1..\* | SHALL |  | [3282-377](#C_3282-377) |  |
|  effectiveTime | 1..1 | SHALL |  | [3282-378](#C_3282-378) | [US Realm Date and Time (DT.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.3](#U_US_Realm_Date_and_Time_DTUSFIELDED) |
|  responsibleParty | 0..1 | MAY |  | [3282-369](#C_3282-369) |  |
|  assignedEntity | 1..1 | SHALL |  | [3282-379](#C_3282-379) |  |
|  encounterParticipant | 0..\* | MAY |  | [3282-370](#C_3282-370) |  |
|  assignedEntity | 1..1 | SHALL |  | [3282-380](#C_3282-380) |  |
|  component | 1..1 | SHALL |  | [3282-371](#C_3282-371) |  |
|  structuredBody | 1..1 | SHALL |  | [3282-372](#C_3282-372) |  |
|  component | 1..1 | SHALL |  | [3282-373](#C_3282-373) |  |
|  section | 1..1 | SHALL |  | [3282-381](#C_3282-381) | [Periodontal Narrative Section (identifier: urn:oid:2.16.840.1.113883.10.20.38.2.1](#S_Periodontal_Narrative_Section) |
|  component | 1..1 | SHALL |  | [3282-374](#C_3282-374) |  |
|  section | 1..1 | SHALL |  | [3282-382](#C_3282-382) | [Periodontal Exam Section (identifier: urn:oid:2.16.840.1.113883.10.20.38.2.2](#S_Periodontal_Exam_Section) |

1. Conforms to [US Realm Header (V3)](#D_US_Realm_Header_V3) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.1.1:2015-08-01).
2. SHALL contain exactly one [1..1] templateId (CONF:3282-365).
	1. This templateId SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.38.1.2" (CONF:3282-375).
3. SHALL contain exactly one [1..1] code (CONF:3282-366).
	1. This code SHALL contain exactly one [1..1] @code="74030-8" Periodontal service attachment (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3282-376).
4. SHOULD contain zero or more [0..\*] participant (CONF:3282-383).
	1. The participant, if present, SHALL contain exactly one [1..1] @typeCode="CALLBK" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:3282-386).
	2. The participant, if present, SHALL contain exactly one [1..1] associatedEntity (CONF:3282-384).
		1. This associatedEntity SHALL contain exactly one [1..1] @classCode="ASSIGNED" (CodeSystem: HL7RoleClass urn:oid:2.16.840.1.113883.5.110) (CONF:3282-387).
		2. This associatedEntity SHALL contain at least one [1..\*] id (CONF:3282-388).
		3. This associatedEntity SHOULD contain zero or more [0..\*] addr (CONF:3282-389).
		4. This associatedEntity SHALL contain at least one [1..\*] telecom (CONF:3282-390).
		5. This associatedEntity SHALL contain exactly one [1..1] associatedPerson (CONF:3282-385).
			1. This associatedPerson SHALL contain at least one [1..\*] name (CONF:3282-391).
		6. This associatedEntity MAY contain zero or one [0..1] scopingOrganization (CONF:3282-392).
5. SHALL contain exactly one [1..1] componentOf (CONF:3282-367).
	1. This componentOf SHALL contain exactly one [1..1] encompassingEncounter (CONF:3282-368).
		1. This encompassingEncounter SHALL contain at least one [1..\*] id (CONF:3282-377).
		2. This encompassingEncounter SHALL contain exactly one [1..1] [US Realm Date and Time (DT.US.FIELDED)](#U_US_Realm_Date_and_Time_DTUSFIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.3) (CONF:3282-378).
		3. This encompassingEncounter MAY contain zero or one [0..1] responsibleParty (CONF:3282-369).
			1. The responsibleParty, if present, SHALL contain exactly one [1..1] assignedEntity (CONF:3282-379).
		4. This encompassingEncounter MAY contain zero or more [0..\*] encounterParticipant (CONF:3282-370).
			1. The encounterParticipant, if present, SHALL contain exactly one [1..1] assignedEntity (CONF:3282-380).
6. SHALL contain exactly one [1..1] component (CONF:3282-371).
	1. This component SHALL contain exactly one [1..1] structuredBody (CONF:3282-372).
		1. This structuredBody SHALL contain exactly one [1..1] component (CONF:3282-373).
			1. This component SHALL contain exactly one [1..1] [Periodontal Narrative Section](#S_Periodontal_Narrative_Section) (identifier: urn:oid:2.16.840.1.113883.10.20.38.2.1) (CONF:3282-381).
		2. This structuredBody SHALL contain exactly one [1..1] component (CONF:3282-374).
			1. This component SHALL contain exactly one [1..1] [Periodontal Exam Section](#S_Periodontal_Exam_Section) (identifier: urn:oid:2.16.840.1.113883.10.20.38.2.2) (CONF:3282-382).

US Realm Header (V3)

[ClinicalDocument: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.1.1:2015-08-01 (open)]

Published as part of Consolidated CDA Templates for Clinical Notes (US Realm) DSTU R2.1

Table 3: US Realm Header (V3) Contexts

| Contained By: | Contains: |
| --- | --- |
|  | [US Realm Address (AD.US.FIELDED)](#U_US_Realm_Address_ADUSFIELDED)[US Realm Date and Time (DTM.US.FIELDED)](#U_US_Realm_Date_and_Time_DTMUSFIELDED)[US Realm Person Name (PN.US.FIELDED)](#U_US_Realm_Person_Name_PNUSFIELDED) |

This template defines constraints that represent common administrative and demographic concepts for US Realm CDA documents. Further specification, such as ClinicalDocument/code, are provided in document templates that conform to this template.

Table 4: US Realm Header (V3) Constraints Overview

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| XPath | Card. | Verb | Data Type | CONF# | Value |
| ClinicalDocument (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.1.1:2015-08-01) |
|  realmCode | 1..1 | SHALL |  | [1198-16791](#C_1198-16791) | US |
|  typeId | 1..1 | SHALL |  | [1198-5361](#C_1198-5361) |  |
|  @root | 1..1 | SHALL |  | [1198-5250](#C_1198-5250) | 2.16.840.1.113883.1.3 |
|  @extension | 1..1 | SHALL |  | [1198-5251](#C_1198-5251) | POCD\_HD000040 |
|  templateId | 1..1 | SHALL |  | [1198-5252](#C_1198-5252) |  |
|  @root | 1..1 | SHALL |  | [1198-10036](#C_1198-10036) | 2.16.840.1.113883.10.20.22.1.1 |
|  @extension | 1..1 | SHALL |  | [1198-32503](#C_1198-32503) | 2015-08-01 |
|  id | 1..1 | SHALL |  | [1198-5363](#C_1198-5363) |  |
|  code | 1..1 | SHALL |  | [1198-5253](#C_1198-5253) |  |
|  title | 1..1 | SHALL |  | [1198-5254](#C_1198-5254) |  |
|  effectiveTime | 1..1 | SHALL |  | [1198-5256](#C_1198-5256) | [US Realm Date and Time (DTM.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4](#U_US_Realm_Date_and_Time_DTMUSFIELDED) |
|  confidentialityCode | 1..1 | SHALL |  | [1198-5259](#C_1198-5259) | urn:oid:2.16.840.1.113883.1.11.16926 (HL7 BasicConfidentialityKind) |
|  languageCode | 1..1 | SHALL |  | [1198-5372](#C_1198-5372) | urn:oid:2.16.840.1.113883.1.11.11526 (Language) |
|  setId | 0..1 | MAY |  | [1198-5261](#C_1198-5261) |  |
|  versionNumber | 0..1 | MAY |  | [1198-5264](#C_1198-5264) |  |
|  recordTarget | 1..\* | SHALL |  | [1198-5266](#C_1198-5266) |  |
|  patientRole | 1..1 | SHALL |  | [1198-5267](#C_1198-5267) |  |
|  id | 1..\* | SHALL |  | [1198-5268](#C_1198-5268) |  |
|  addr | 1..\* | SHALL |  | [1198-5271](#C_1198-5271) | [US Realm Address (AD.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2](#U_US_Realm_Address_ADUSFIELDED) |
|  telecom | 1..\* | SHALL |  | [1198-5280](#C_1198-5280) |  |
|  @use | 0..1 | SHOULD |  | [1198-5375](#C_1198-5375) | urn:oid:2.16.840.1.113883.11.20.9.20 (Telecom Use (US Realm Header)) |
|  patient | 1..1 | SHALL |  | [1198-5283](#C_1198-5283) |  |
|  name | 1..\* | SHALL |  | [1198-5284](#C_1198-5284) | [US Realm Person Name (PN.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1](#U_US_Realm_Person_Name_PNUSFIELDED) |
|  administrativeGenderCode | 1..1 | SHALL |  | [1198-6394](#C_1198-6394) | urn:oid:2.16.840.1.113883.1.11.1 (Administrative Gender (HL7 V3)) |
|  birthTime | 1..1 | SHALL |  | [1198-5298](#C_1198-5298) |  |
|  maritalStatusCode | 0..1 | SHOULD |  | [1198-5303](#C_1198-5303) | urn:oid:2.16.840.1.113883.1.11.12212 (Marital Status) |
|  religiousAffiliationCode | 0..1 | MAY |  | [1198-5317](#C_1198-5317) | urn:oid:2.16.840.1.113883.1.11.19185 (Religious Affiliation) |
|  raceCode | 1..1 | SHALL |  | [1198-5322](#C_1198-5322) | urn:oid:2.16.840.1.113883.3.2074.1.1.3 (Race Category Excluding Nulls) |
|  sdtc:raceCode | 0..\* | MAY |  | [1198-7263](#C_1198-7263) | urn:oid:2.16.840.1.113883.1.11.14914 (Race) |
|  ethnicGroupCode | 1..1 | SHALL |  | [1198-5323](#C_1198-5323) | urn:oid:2.16.840.1.114222.4.11.837 (Ethnicity) |
|  sdtc:ethnicGroupCode | 0..\* | MAY |  | [1198-32901](#C_1198-32901) | urn:oid:2.16.840.1.114222.4.11.877 (Detailed Ethnicity) |
|  guardian | 0..\* | MAY |  | [1198-5325](#C_1198-5325) |  |
|  code | 0..1 | SHOULD |  | [1198-5326](#C_1198-5326) | urn:oid:2.16.840.1.113883.11.20.12.1 (Personal And Legal Relationship Role Type) |
|  addr | 0..\* | SHOULD |  | [1198-5359](#C_1198-5359) | [US Realm Address (AD.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2](#U_US_Realm_Address_ADUSFIELDED) |
|  telecom | 0..\* | SHOULD |  | [1198-5382](#C_1198-5382) |  |
|  @use | 0..1 | SHOULD |  | [1198-7993](#C_1198-7993) | urn:oid:2.16.840.1.113883.11.20.9.20 (Telecom Use (US Realm Header)) |
|  guardianPerson | 1..1 | SHALL |  | [1198-5385](#C_1198-5385) |  |
|  name | 1..\* | SHALL |  | [1198-5386](#C_1198-5386) | [US Realm Person Name (PN.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1](#U_US_Realm_Person_Name_PNUSFIELDED) |
|  birthplace | 0..1 | MAY |  | [1198-5395](#C_1198-5395) |  |
|  place | 1..1 | SHALL |  | [1198-5396](#C_1198-5396) |  |
|  addr | 1..1 | SHALL |  | [1198-5397](#C_1198-5397) |  |
|  country | 0..1 | SHOULD |  | [1198-5404](#C_1198-5404) | urn:oid:2.16.840.1.113883.3.88.12.80.63 (Country) |
|  postalCode | 0..1 | MAY |  | [1198-5403](#C_1198-5403) | urn:oid:2.16.840.1.113883.3.88.12.80.2 (PostalCode) |
|  languageCommunication | 0..\* | SHOULD |  | [1198-5406](#C_1198-5406) |  |
|  languageCode | 1..1 | SHALL |  | [1198-5407](#C_1198-5407) | urn:oid:2.16.840.1.113883.1.11.11526 (Language) |
|  modeCode | 0..1 | MAY |  | [1198-5409](#C_1198-5409) | urn:oid:2.16.840.1.113883.1.11.12249 (LanguageAbilityMode) |
|  proficiencyLevelCode | 0..1 | SHOULD |  | [1198-9965](#C_1198-9965) | urn:oid:2.16.840.1.113883.1.11.12199 (LanguageAbilityProficiency) |
|  preferenceInd | 0..1 | SHOULD |  | [1198-5414](#C_1198-5414) |  |
|  providerOrganization | 0..1 | MAY |  | [1198-5416](#C_1198-5416) |  |
|  id | 1..\* | SHALL |  | [1198-5417](#C_1198-5417) |  |
|  @root | 0..1 | SHOULD |  | [1198-16820](#C_1198-16820) | 2.16.840.1.113883.4.6 |
|  name | 1..\* | SHALL |  | [1198-5419](#C_1198-5419) |  |
|  telecom | 1..\* | SHALL |  | [1198-5420](#C_1198-5420) |  |
|  @use | 0..1 | SHOULD |  | [1198-7994](#C_1198-7994) | urn:oid:2.16.840.1.113883.11.20.9.20 (Telecom Use (US Realm Header)) |
|  addr | 1..\* | SHALL |  | [1198-5422](#C_1198-5422) | [US Realm Address (AD.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2](#U_US_Realm_Address_ADUSFIELDED) |
|  author | 1..\* | SHALL |  | [1198-5444](#C_1198-5444) |  |
|  time | 1..1 | SHALL |  | [1198-5445](#C_1198-5445) | [US Realm Date and Time (DTM.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4](#U_US_Realm_Date_and_Time_DTMUSFIELDED) |
|  assignedAuthor | 1..1 | SHALL |  | [1198-5448](#C_1198-5448) |  |
|  id | 1..\* | SHALL |  | [1198-5449](#C_1198-5449) |  |
|  id | 0..1 | SHOULD |  | [1198-32882](#C_1198-32882) |  |
|  @nullFlavor | 0..1 | MAY |  | [1198-32883](#C_1198-32883) | urn:oid:2.16.840.1.113883.5.1008 (HL7NullFlavor) = UNK |
|  @root | 1..1 | SHALL |  | [1198-32884](#C_1198-32884) | 2.16.840.1.113883.4.6 |
|  @extension | 0..1 | SHOULD |  | [1198-32885](#C_1198-32885) |  |
|  code | 0..1 | SHOULD |  | [1198-16787](#C_1198-16787) |  |
|  @code | 1..1 | SHALL |  | [1198-16788](#C_1198-16788) | urn:oid:2.16.840.1.114222.4.11.1066 (Healthcare Provider Taxonomy (HIPAA)) |
|  addr | 1..\* | SHALL |  | [1198-5452](#C_1198-5452) | [US Realm Address (AD.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2](#U_US_Realm_Address_ADUSFIELDED) |
|  telecom | 1..\* | SHALL |  | [1198-5428](#C_1198-5428) |  |
|  @use | 0..1 | SHOULD |  | [1198-7995](#C_1198-7995) | urn:oid:2.16.840.1.113883.11.20.9.20 (Telecom Use (US Realm Header)) |
|  assignedPerson | 0..1 | SHOULD |  | [1198-5430](#C_1198-5430) |  |
|  name | 1..\* | SHALL |  | [1198-16789](#C_1198-16789) | [US Realm Person Name (PN.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1](#U_US_Realm_Person_Name_PNUSFIELDED) |
|  assignedAuthoringDevice | 0..1 | SHOULD |  | [1198-16783](#C_1198-16783) |  |
|  manufacturerModelName | 1..1 | SHALL |  | [1198-16784](#C_1198-16784) |  |
|  softwareName | 1..1 | SHALL |  | [1198-16785](#C_1198-16785) |  |
|  dataEnterer | 0..1 | MAY |  | [1198-5441](#C_1198-5441) |  |
|  assignedEntity | 1..1 | SHALL |  | [1198-5442](#C_1198-5442) |  |
|  id | 1..\* | SHALL |  | [1198-5443](#C_1198-5443) |  |
|  @root | 0..1 | SHOULD |  | [1198-16821](#C_1198-16821) | 2.16.840.1.113883.4.6 |
|  code | 0..1 | MAY |  | [1198-32173](#C_1198-32173) | urn:oid:2.16.840.1.114222.4.11.1066 (Healthcare Provider Taxonomy (HIPAA)) |
|  addr | 1..\* | SHALL |  | [1198-5460](#C_1198-5460) | [US Realm Address (AD.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2](#U_US_Realm_Address_ADUSFIELDED) |
|  telecom | 1..\* | SHALL |  | [1198-5466](#C_1198-5466) |  |
|  @use | 0..1 | SHOULD |  | [1198-7996](#C_1198-7996) | urn:oid:2.16.840.1.113883.11.20.9.20 (Telecom Use (US Realm Header)) |
|  assignedPerson | 1..1 | SHALL |  | [1198-5469](#C_1198-5469) |  |
|  name | 1..\* | SHALL |  | [1198-5470](#C_1198-5470) | [US Realm Person Name (PN.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1](#U_US_Realm_Person_Name_PNUSFIELDED) |
|  informant | 0..\* | MAY |  | [1198-8001](#C_1198-8001) |  |
|  assignedEntity | 1..1 | SHALL |  | [1198-8002](#C_1198-8002) |  |
|  id | 1..\* | SHALL |  | [1198-9945](#C_1198-9945) |  |
|  code | 0..1 | MAY |  | [1198-32174](#C_1198-32174) | urn:oid:2.16.840.1.114222.4.11.1066 (Healthcare Provider Taxonomy (HIPAA)) |
|  addr | 1..\* | SHALL |  | [1198-8220](#C_1198-8220) | [US Realm Address (AD.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2](#U_US_Realm_Address_ADUSFIELDED) |
|  assignedPerson | 1..1 | SHALL |  | [1198-8221](#C_1198-8221) |  |
|  name | 1..\* | SHALL |  | [1198-8222](#C_1198-8222) | [US Realm Person Name (PN.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1](#U_US_Realm_Person_Name_PNUSFIELDED) |
|  informant | 0..\* | MAY |  | [1198-31355](#C_1198-31355) |  |
|  relatedEntity | 1..1 | SHALL |  | [1198-31356](#C_1198-31356) |  |
|  custodian | 1..1 | SHALL |  | [1198-5519](#C_1198-5519) |  |
|  assignedCustodian | 1..1 | SHALL |  | [1198-5520](#C_1198-5520) |  |
|  representedCustodianOrganization | 1..1 | SHALL |  | [1198-5521](#C_1198-5521) |  |
|  id | 1..\* | SHALL |  | [1198-5522](#C_1198-5522) |  |
|  @root | 0..1 | SHOULD |  | [1198-16822](#C_1198-16822) | 2.16.840.1.113883.4.6 |
|  name | 1..1 | SHALL |  | [1198-5524](#C_1198-5524) |  |
|  telecom | 1..1 | SHALL |  | [1198-5525](#C_1198-5525) |  |
|  @use | 0..1 | SHOULD |  | [1198-7998](#C_1198-7998) | urn:oid:2.16.840.1.113883.11.20.9.20 (Telecom Use (US Realm Header)) |
|  addr | 1..1 | SHALL |  | [1198-5559](#C_1198-5559) | [US Realm Address (AD.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2](#U_US_Realm_Address_ADUSFIELDED) |
|  informationRecipient | 0..\* | MAY |  | [1198-5565](#C_1198-5565) |  |
|  intendedRecipient | 1..1 | SHALL |  | [1198-5566](#C_1198-5566) |  |
|  id | 0..\* | MAY |  | [1198-32399](#C_1198-32399) |  |
|  informationRecipient | 0..1 | MAY |  | [1198-5567](#C_1198-5567) |  |
|  name | 1..\* | SHALL |  | [1198-5568](#C_1198-5568) | [US Realm Person Name (PN.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1](#U_US_Realm_Person_Name_PNUSFIELDED) |
|  receivedOrganization | 0..1 | MAY |  | [1198-5577](#C_1198-5577) |  |
|  name | 1..1 | SHALL |  | [1198-5578](#C_1198-5578) |  |
|  legalAuthenticator | 0..1 | SHOULD |  | [1198-5579](#C_1198-5579) |  |
|  time | 1..1 | SHALL |  | [1198-5580](#C_1198-5580) | [US Realm Date and Time (DTM.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4](#U_US_Realm_Date_and_Time_DTMUSFIELDED) |
|  signatureCode | 1..1 | SHALL |  | [1198-5583](#C_1198-5583) |  |
|  @code | 1..1 | SHALL |  | [1198-5584](#C_1198-5584) | urn:oid:2.16.840.1.113883.5.89 (HL7ParticipationSignature) = S |
|  sdtc:signatureText | 0..1 | MAY |  | [1198-30810](#C_1198-30810) |  |
|  assignedEntity | 1..1 | SHALL |  | [1198-5585](#C_1198-5585) |  |
|  id | 1..\* | SHALL |  | [1198-5586](#C_1198-5586) |  |
|  @root | 0..1 | MAY |  | [1198-16823](#C_1198-16823) | 2.16.840.1.113883.4.6 |
|  code | 0..1 | MAY |  | [1198-17000](#C_1198-17000) | urn:oid:2.16.840.1.114222.4.11.1066 (Healthcare Provider Taxonomy (HIPAA)) |
|  addr | 1..\* | SHALL |  | [1198-5589](#C_1198-5589) | [US Realm Address (AD.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2](#U_US_Realm_Address_ADUSFIELDED) |
|  telecom | 1..\* | SHALL |  | [1198-5595](#C_1198-5595) |  |
|  @use | 0..1 | SHOULD |  | [1198-7999](#C_1198-7999) | urn:oid:2.16.840.1.113883.11.20.9.20 (Telecom Use (US Realm Header)) |
|  assignedPerson | 1..1 | SHALL |  | [1198-5597](#C_1198-5597) |  |
|  name | 1..\* | SHALL |  | [1198-5598](#C_1198-5598) | [US Realm Person Name (PN.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1](#U_US_Realm_Person_Name_PNUSFIELDED) |
|  authenticator | 0..\* | MAY |  | [1198-5607](#C_1198-5607) |  |
|  time | 1..1 | SHALL |  | [1198-5608](#C_1198-5608) | [US Realm Date and Time (DTM.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4](#U_US_Realm_Date_and_Time_DTMUSFIELDED) |
|  signatureCode | 1..1 | SHALL |  | [1198-5610](#C_1198-5610) |  |
|  @code | 1..1 | SHALL |  | [1198-5611](#C_1198-5611) | urn:oid:2.16.840.1.113883.5.89 (HL7ParticipationSignature) = S |
|  sdtc:signatureText | 0..1 | MAY |  | [1198-30811](#C_1198-30811) |  |
|  assignedEntity | 1..1 | SHALL |  | [1198-5612](#C_1198-5612) |  |
|  id | 1..\* | SHALL |  | [1198-5613](#C_1198-5613) |  |
|  @root | 0..1 | SHOULD |  | [1198-16824](#C_1198-16824) | 2.16.840.1.113883.4.6 |
|  code | 0..1 | MAY |  | [1198-16825](#C_1198-16825) |  |
|  @code | 0..1 | MAY |  | [1198-16826](#C_1198-16826) | urn:oid:2.16.840.1.114222.4.11.1066 (Healthcare Provider Taxonomy (HIPAA)) |
|  addr | 1..\* | SHALL |  | [1198-5616](#C_1198-5616) | [US Realm Address (AD.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2](#U_US_Realm_Address_ADUSFIELDED) |
|  telecom | 1..\* | SHALL |  | [1198-5622](#C_1198-5622) |  |
|  @use | 0..1 | SHOULD |  | [1198-8000](#C_1198-8000) | urn:oid:2.16.840.1.113883.11.20.9.20 (Telecom Use (US Realm Header)) |
|  assignedPerson | 1..1 | SHALL |  | [1198-5624](#C_1198-5624) |  |
|  name | 1..\* | SHALL |  | [1198-5625](#C_1198-5625) | [US Realm Person Name (PN.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1](#U_US_Realm_Person_Name_PNUSFIELDED) |
|  participant | 0..\* | MAY |  | [1198-10003](#C_1198-10003) |  |
|  time | 0..1 | MAY |  | [1198-10004](#C_1198-10004) |  |
|  inFulfillmentOf | 0..\* | MAY |  | [1198-9952](#C_1198-9952) |  |
|  order | 1..1 | SHALL |  | [1198-9953](#C_1198-9953) |  |
|  id | 1..\* | SHALL |  | [1198-9954](#C_1198-9954) |  |
|  documentationOf | 0..\* | MAY |  | [1198-14835](#C_1198-14835) |  |
|  serviceEvent | 1..1 | SHALL |  | [1198-14836](#C_1198-14836) |  |
|  effectiveTime | 1..1 | SHALL |  | [1198-14837](#C_1198-14837) |  |
|  low | 1..1 | SHALL |  | [1198-14838](#C_1198-14838) |  |
|  performer | 0..\* | SHOULD |  | [1198-14839](#C_1198-14839) |  |
|  @typeCode | 1..1 | SHALL |  | [1198-14840](#C_1198-14840) | urn:oid:2.16.840.1.113883.1.11.19601 (x\_ServiceEventPerformer) |
|  functionCode | 0..1 | MAY |  | [1198-16818](#C_1198-16818) |  |
|  @code | 0..1 | SHOULD |  | [1198-32889](#C_1198-32889) | urn:oid:2.16.840.1.113883.1.11.10267 (ParticipationFunction) |
|  assignedEntity | 1..1 | SHALL |  | [1198-14841](#C_1198-14841) |  |
|  id | 1..\* | SHALL |  | [1198-14846](#C_1198-14846) |  |
|  @root | 0..1 | SHOULD |  | [1198-14847](#C_1198-14847) | 2.16.840.1.113883.4.6 |
|  code | 0..1 | SHOULD |  | [1198-14842](#C_1198-14842) | urn:oid:2.16.840.1.114222.4.11.1066 (Healthcare Provider Taxonomy (HIPAA)) |
|  authorization | 0..\* | MAY |  | [1198-16792](#C_1198-16792) |  |
|  consent | 1..1 | SHALL |  | [1198-16793](#C_1198-16793) |  |
|  id | 0..\* | MAY |  | [1198-16794](#C_1198-16794) |  |
|  code | 0..1 | MAY |  | [1198-16795](#C_1198-16795) |  |
|  statusCode | 1..1 | SHALL |  | [1198-16797](#C_1198-16797) |  |
|  @code | 1..1 | SHALL |  | [1198-16798](#C_1198-16798) | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = completed |
|  componentOf | 0..1 | MAY |  | [1198-9955](#C_1198-9955) |  |
|  encompassingEncounter | 1..1 | SHALL |  | [1198-9956](#C_1198-9956) |  |
|  id | 1..\* | SHALL |  | [1198-9959](#C_1198-9959) |  |
|  effectiveTime | 1..1 | SHALL |  | [1198-9958](#C_1198-9958) |  |

Properties

realmCode

1. SHALL contain exactly one [1..1] realmCode="US" (CONF:1198-16791).
2. SHALL contain exactly one [1..1] typeId (CONF:1198-5361).
	1. This typeId SHALL contain exactly one [1..1] @root="2.16.840.1.113883.1.3" (CONF:1198-5250).
	2. This typeId SHALL contain exactly one [1..1] @extension="POCD\_HD000040" (CONF:1198-5251).
3. SHALL contain exactly one [1..1] templateId (CONF:1198-5252) such that it
	1. SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.22.1.1" (CONF:1198-10036).
	2. SHALL contain exactly one [1..1] @extension="2015-08-01" (CONF:1198-32503).
4. SHALL contain exactly one [1..1] id (CONF:1198-5363).
	1. This id **SHALL** be a globally unique identifier for the document (CONF:1198-9991).
5. SHALL contain exactly one [1..1] code (CONF:1198-5253).
	1. This code **SHALL** specify the particular kind of document (e.g., History and Physical, Discharge Summary, Progress Note) (CONF:1198-9992).
6. SHALL contain exactly one [1..1] title (CONF:1198-5254).
Note: The title can either be a locally defined name or the displayName corresponding to clinicalDocument/code
7. SHALL contain exactly one [1..1] [US Realm Date and Time (DTM.US.FIELDED)](#U_US_Realm_Date_and_Time_DTMUSFIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4) (CONF:1198-5256).
8. SHALL contain exactly one [1..1] confidentialityCode, which SHOULD be selected from ValueSet [HL7 BasicConfidentialityKind](#HL7_BasicConfidentialityKind) urn:oid:2.16.840.1.113883.1.11.16926 STATIC (CONF:1198-5259).
9. SHALL contain exactly one [1..1] languageCode, which SHALL be selected from ValueSet [Language](#Language) urn:oid:2.16.840.1.113883.1.11.11526 DYNAMIC (CONF:1198-5372).
10. MAY contain zero or one [0..1] setId (CONF:1198-5261).
	1. If  setId is present versionNumber **SHALL** be present (CONF:1198-6380).
11. MAY contain zero or one [0..1] versionNumber (CONF:1198-5264).
	1. If versionNumber is present setId **SHALL** be present (CONF:1198-6387).

recordTarget

The recordTarget records the administrative and demographic data of the patient whose health information is described by the clinical document; each recordTarget must contain at least one patientRole element

1. SHALL contain at least one [1..\*] recordTarget (CONF:1198-5266).
	1. Such recordTargets SHALL contain exactly one [1..1] patientRole (CONF:1198-5267).
		1. This patientRole SHALL contain at least one [1..\*] id (CONF:1198-5268).
		2. This patientRole SHALL contain at least one [1..\*] [US Realm Address (AD.US.FIELDED)](#U_US_Realm_Address_ADUSFIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:1198-5271).
		3. This patientRole SHALL contain at least one [1..\*] telecom (CONF:1198-5280).
			1. Such telecoms SHOULD contain zero or one [0..1] @use, which SHALL be selected from ValueSet [Telecom Use (US Realm Header)](#Telecom_Use_US_Realm_Header) urn:oid:2.16.840.1.113883.11.20.9.20 DYNAMIC (CONF:1198-5375).
		4. This patientRole SHALL contain exactly one [1..1] patient (CONF:1198-5283).
			1. This patient SHALL contain at least one [1..\*] [US Realm Person Name (PN.US.FIELDED)](#U_US_Realm_Person_Name_PNUSFIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:1198-5284).
			2. This patient SHALL contain exactly one [1..1] administrativeGenderCode, which SHALL be selected from ValueSet [Administrative Gender (HL7 V3)](#Administrative_Gender_HL7_V3) urn:oid:2.16.840.1.113883.1.11.1 DYNAMIC (CONF:1198-6394).
			3. This patient SHALL contain exactly one [1..1] birthTime (CONF:1198-5298).
				1. **SHALL** be precise to year (CONF:1198-5299).
				2. **SHOULD** be precise to day (CONF:1198-5300).

For cases where information about newborn's time of birth needs to be captured.

* + - * 1. **MAY** be precise to the minute (CONF:1198-32418).
			1. This patient SHOULD contain zero or one [0..1] maritalStatusCode, which SHALL be selected from ValueSet [Marital Status](#Marital_Status) urn:oid:2.16.840.1.113883.1.11.12212 DYNAMIC (CONF:1198-5303).
			2. This patient MAY contain zero or one [0..1] religiousAffiliationCode, which SHALL be selected from ValueSet [Religious Affiliation](#Religious_Affiliation) urn:oid:2.16.840.1.113883.1.11.19185 DYNAMIC (CONF:1198-5317).
			3. This patient SHALL contain exactly one [1..1] raceCode, which SHALL be selected from ValueSet [Race Category Excluding Nulls](#Race_Category_Excluding_Nulls) urn:oid:2.16.840.1.113883.3.2074.1.1.3 DYNAMIC (CONF:1198-5322).
			4. This patient MAY contain zero or more [0..\*] sdtc:raceCode, which SHALL be selected from ValueSet [Race](#Race) urn:oid:2.16.840.1.113883.1.11.14914 DYNAMIC (CONF:1198-7263).
			Note: The sdtc:raceCode is only used to record additional values when the patient has indicated multiple races or additional race detail beyond the five categories required for Meaningful Use Stage 2. The prefix sdtc: SHALL be bound to the namespace “urn:hl7-org:sdtc”. The use of the namespace provides a necessary extension to CDA R2 for the use of the additional raceCode elements.
				1. If sdtc:raceCode is present, then the patient **SHALL** contain [1..1] raceCode (CONF:1198-31347).
			5. This patient SHALL contain exactly one [1..1] ethnicGroupCode, which SHALL be selected from ValueSet [Ethnicity](#Ethnicity) urn:oid:2.16.840.1.114222.4.11.837 DYNAMIC (CONF:1198-5323).
			6. This patient MAY contain zero or more [0..\*] sdtc:ethnicGroupCode, which SHALL be selected from ValueSet [Detailed Ethnicity](#Detailed_Ethnicity) urn:oid:2.16.840.1.114222.4.11.877 DYNAMIC (CONF:1198-32901).
			7. This patient MAY contain zero or more [0..\*] guardian (CONF:1198-5325).
				1. The guardian, if present, SHOULD contain zero or one [0..1] code, which SHALL be selected from ValueSet [Personal And Legal Relationship Role Type](#Personal_And_Legal_Relationship_Role_Ty) urn:oid:2.16.840.1.113883.11.20.12.1 DYNAMIC (CONF:1198-5326).
				2. The guardian, if present, SHOULD contain zero or more [0..\*] [US Realm Address (AD.US.FIELDED)](#U_US_Realm_Address_ADUSFIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:1198-5359).
				3. The guardian, if present, SHOULD contain zero or more [0..\*] telecom (CONF:1198-5382).

The telecom, if present, SHOULD contain zero or one [0..1] @use, which SHALL be selected from ValueSet [Telecom Use (US Realm Header)](#Telecom_Use_US_Realm_Header) urn:oid:2.16.840.1.113883.11.20.9.20 DYNAMIC (CONF:1198-7993).

* + - * 1. The guardian, if present, SHALL contain exactly one [1..1] guardianPerson (CONF:1198-5385).

This guardianPerson SHALL contain at least one [1..\*] [US Realm Person Name (PN.US.FIELDED)](#U_US_Realm_Person_Name_PNUSFIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:1198-5386).

* + - 1. This patient MAY contain zero or one [0..1] birthplace (CONF:1198-5395).
				1. The birthplace, if present, SHALL contain exactly one [1..1] place (CONF:1198-5396).

This place SHALL contain exactly one [1..1] addr (CONF:1198-5397).

This addr SHOULD contain zero or one [0..1] country, which SHALL be selected from ValueSet [Country](#Country) urn:oid:2.16.840.1.113883.3.88.12.80.63 DYNAMIC (CONF:1198-5404).

This addr MAY contain zero or one [0..1] postalCode, which SHALL be selected from ValueSet [PostalCode](#PostalCode) urn:oid:2.16.840.1.113883.3.88.12.80.2 DYNAMIC (CONF:1198-5403).

If country is US, this addr **SHALL** contain exactly one [1..1] state, which **SHALL** be selected from ValueSet StateValueSet 2.16.840.1.113883.3.88.12.80.1 **DYNAMIC** (CONF:1198-5402).
Note: A nullFlavor of ' UNK' may be used if the state is unknown.

* + - 1. This patient SHOULD contain zero or more [0..\*] languageCommunication (CONF:1198-5406).
				1. The languageCommunication, if present, SHALL contain exactly one [1..1] languageCode, which SHALL be selected from ValueSet [Language](#Language) urn:oid:2.16.840.1.113883.1.11.11526 DYNAMIC (CONF:1198-5407).
				2. The languageCommunication, if present, MAY contain zero or one [0..1] modeCode, which SHALL be selected from ValueSet [LanguageAbilityMode](#LanguageAbilityMode) urn:oid:2.16.840.1.113883.1.11.12249 DYNAMIC (CONF:1198-5409).
				3. The languageCommunication, if present, SHOULD contain zero or one [0..1] proficiencyLevelCode, which SHALL be selected from ValueSet [LanguageAbilityProficiency](#LanguageAbilityProficiency) urn:oid:2.16.840.1.113883.1.11.12199 DYNAMIC (CONF:1198-9965).
				4. The languageCommunication, if present, SHOULD contain zero or one [0..1] preferenceInd (CONF:1198-5414).
		1. This patientRole MAY contain zero or one [0..1] providerOrganization (CONF:1198-5416).
			1. The providerOrganization, if present, SHALL contain at least one [1..\*] id (CONF:1198-5417).
				1. Such ids SHOULD contain zero or one [0..1] @root="2.16.840.1.113883.4.6" National Provider Identifier (CONF:1198-16820).
			2. The providerOrganization, if present, SHALL contain at least one [1..\*] name (CONF:1198-5419).
			3. The providerOrganization, if present, SHALL contain at least one [1..\*] telecom (CONF:1198-5420).
				1. Such telecoms SHOULD contain zero or one [0..1] @use, which SHALL be selected from ValueSet [Telecom Use (US Realm Header)](#Telecom_Use_US_Realm_Header) urn:oid:2.16.840.1.113883.11.20.9.20 DYNAMIC (CONF:1198-7994).
			4. The providerOrganization, if present, SHALL contain at least one [1..\*] [US Realm Address (AD.US.FIELDED)](#U_US_Realm_Address_ADUSFIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:1198-5422).

author

The author element represents the creator of the clinical document.  The author may be a device or a person.

1. SHALL contain at least one [1..\*] author (CONF:1198-5444).
	1. Such authors SHALL contain exactly one [1..1] [US Realm Date and Time (DTM.US.FIELDED)](#U_US_Realm_Date_and_Time_DTMUSFIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4) (CONF:1198-5445).
	2. Such authors SHALL contain exactly one [1..1] assignedAuthor (CONF:1198-5448).
		1. This assignedAuthor SHALL contain at least one [1..\*] id (CONF:1198-5449).

If this assignedAuthor is an assignedPerson

* + 1. This assignedAuthor SHOULD contain zero or one [0..1] id (CONF:1198-32882) such that it

If id with @root="2.16.840.1.113883.4.6" National Provider Identifier is unknown then

* + - 1. MAY contain zero or one [0..1] @nullFlavor="UNK" Unknown (CodeSystem: HL7NullFlavor urn:oid:2.16.840.1.113883.5.1008) (CONF:1198-32883).
			2. SHALL contain exactly one [1..1] @root="2.16.840.1.113883.4.6" National Provider Identifier (CONF:1198-32884).
			3. SHOULD contain zero or one [0..1] @extension (CONF:1198-32885).

Only if this assignedAuthor is an assignedPerson should the assignedAuthor contain a code.

* + 1. This assignedAuthor SHOULD contain zero or one [0..1] code (CONF:1198-16787).
			1. The code, if present, SHALL contain exactly one [1..1] @code, which SHOULD be selected from ValueSet [Healthcare Provider Taxonomy (HIPAA)](#Healthcare_Provider_Taxonomy_HIPAA) urn:oid:2.16.840.1.114222.4.11.1066 DYNAMIC (CONF:1198-16788).
		2. This assignedAuthor SHALL contain at least one [1..\*] [US Realm Address (AD.US.FIELDED)](#U_US_Realm_Address_ADUSFIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:1198-5452).
		3. This assignedAuthor SHALL contain at least one [1..\*] telecom (CONF:1198-5428).
			1. Such telecoms SHOULD contain zero or one [0..1] @use, which SHALL be selected from ValueSet [Telecom Use (US Realm Header)](#Telecom_Use_US_Realm_Header) urn:oid:2.16.840.1.113883.11.20.9.20 DYNAMIC (CONF:1198-7995).
		4. This assignedAuthor SHOULD contain zero or one [0..1] assignedPerson (CONF:1198-5430).
			1. The assignedPerson, if present, SHALL contain at least one [1..\*] [US Realm Person Name (PN.US.FIELDED)](#U_US_Realm_Person_Name_PNUSFIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:1198-16789).
		5. This assignedAuthor SHOULD contain zero or one [0..1] assignedAuthoringDevice (CONF:1198-16783).
			1. The assignedAuthoringDevice, if present, SHALL contain exactly one [1..1] manufacturerModelName (CONF:1198-16784).
			2. The assignedAuthoringDevice, if present, SHALL contain exactly one [1..1] softwareName (CONF:1198-16785).
		6. There **SHALL** be exactly one assignedAuthor/assignedPerson or exactly one assignedAuthor/assignedAuthoringDevice (CONF:1198-16790).

dataEnterer

The dataEnterer element represents the person who transferred the content, written or dictated, into the clinical document. To clarify, an author provides the content found within the header or body of a document, subject to their own interpretation; a dataEnterer adds an author's information to the electronic system.

1. MAY contain zero or one [0..1] dataEnterer (CONF:1198-5441).
	1. The dataEnterer, if present, SHALL contain exactly one [1..1] assignedEntity (CONF:1198-5442).
		1. This assignedEntity SHALL contain at least one [1..\*] id (CONF:1198-5443).
			1. Such ids SHOULD contain zero or one [0..1] @root="2.16.840.1.113883.4.6" National Provider Identifier (CONF:1198-16821).
		2. This assignedEntity MAY contain zero or one [0..1] code, which SHOULD be selected from ValueSet [Healthcare Provider Taxonomy (HIPAA)](#Healthcare_Provider_Taxonomy_HIPAA) urn:oid:2.16.840.1.114222.4.11.1066 DYNAMIC (CONF:1198-32173).
		3. This assignedEntity SHALL contain at least one [1..\*] [US Realm Address (AD.US.FIELDED)](#U_US_Realm_Address_ADUSFIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:1198-5460).
		4. This assignedEntity SHALL contain at least one [1..\*] telecom (CONF:1198-5466).
			1. Such telecoms SHOULD contain zero or one [0..1] @use, which SHALL be selected from ValueSet [Telecom Use (US Realm Header)](#Telecom_Use_US_Realm_Header) urn:oid:2.16.840.1.113883.11.20.9.20 DYNAMIC (CONF:1198-7996).
		5. This assignedEntity SHALL contain exactly one [1..1] assignedPerson (CONF:1198-5469).
			1. This assignedPerson SHALL contain at least one [1..\*] [US Realm Person Name (PN.US.FIELDED)](#U_US_Realm_Person_Name_PNUSFIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:1198-5470).

informant

The informant element describes an information source for any content within the clinical document. This informant is constrained for use when the source of information is an assigned health care provider for the patient.

1. MAY contain zero or more [0..\*] informant (CONF:1198-8001) such that it
	1. SHALL contain exactly one [1..1] assignedEntity (CONF:1198-8002).
		1. This assignedEntity SHALL contain at least one [1..\*] id (CONF:1198-9945).
			1. If assignedEntity/id is a provider then this id, **SHOULD** include zero or one [0..1] id where id/@root ="2.16.840.1.113883.4.6" National Provider Identifier (CONF:1198-9946).
		2. This assignedEntity MAY contain zero or one [0..1] code, which SHOULD be selected from ValueSet [Healthcare Provider Taxonomy (HIPAA)](#Healthcare_Provider_Taxonomy_HIPAA) urn:oid:2.16.840.1.114222.4.11.1066 DYNAMIC (CONF:1198-32174).
		3. This assignedEntity SHALL contain at least one [1..\*] [US Realm Address (AD.US.FIELDED)](#U_US_Realm_Address_ADUSFIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:1198-8220).
		4. This assignedEntity SHALL contain exactly one [1..1] assignedPerson (CONF:1198-8221).
			1. This assignedPerson SHALL contain at least one [1..\*] [US Realm Person Name (PN.US.FIELDED)](#U_US_Realm_Person_Name_PNUSFIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:1198-8222).

informant

The informant element describes an information source (who is not a provider) for any content within the clinical document. This informant would be used when the source of information has a personal relationship with the patient or is the patient.

1. MAY contain zero or more [0..\*] informant (CONF:1198-31355) such that it
	1. SHALL contain exactly one [1..1] relatedEntity (CONF:1198-31356).

custodian

The custodian element represents the organization that is in charge of maintaining and is entrusted with the care of the document.

There is only one custodian per CDA document. Allowing that a CDA document may not represent the original form of the authenticated document, the custodian represents the steward of the original source document. The custodian may be the document originator, a health information exchange, or other responsible party.

1. SHALL contain exactly one [1..1] custodian (CONF:1198-5519).
	1. This custodian SHALL contain exactly one [1..1] assignedCustodian (CONF:1198-5520).
		1. This assignedCustodian SHALL contain exactly one [1..1] representedCustodianOrganization (CONF:1198-5521).
			1. This representedCustodianOrganization SHALL contain at least one [1..\*] id (CONF:1198-5522).
				1. Such ids SHOULD contain zero or one [0..1] @root="2.16.840.1.113883.4.6" National Provider Identifier (CONF:1198-16822).
			2. This representedCustodianOrganization SHALL contain exactly one [1..1] name (CONF:1198-5524).
			3. This representedCustodianOrganization SHALL contain exactly one [1..1] telecom (CONF:1198-5525).
				1. This telecom SHOULD contain zero or one [0..1] @use, which SHALL be selected from ValueSet [Telecom Use (US Realm Header)](#Telecom_Use_US_Realm_Header) urn:oid:2.16.840.1.113883.11.20.9.20 DYNAMIC (CONF:1198-7998).
			4. This representedCustodianOrganization SHALL contain exactly one [1..1] [US Realm Address (AD.US.FIELDED)](#U_US_Realm_Address_ADUSFIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:1198-5559).

informationRecipient

The informationRecipient element records the intended recipient of the information at the time the document was created. In cases where the intended recipient of the document is the patient's health chart, set the receivedOrganization to the scoping organization for that chart.

1. MAY contain zero or more [0..\*] informationRecipient (CONF:1198-5565).
	1. The informationRecipient, if present, SHALL contain exactly one [1..1] intendedRecipient (CONF:1198-5566).
		1. This intendedRecipient MAY contain zero or more [0..\*] id (CONF:1198-32399).
		2. This intendedRecipient MAY contain zero or one [0..1] informationRecipient (CONF:1198-5567).
			1. The informationRecipient, if present, SHALL contain at least one [1..\*] [US Realm Person Name (PN.US.FIELDED)](#U_US_Realm_Person_Name_PNUSFIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:1198-5568).
		3. This intendedRecipient MAY contain zero or one [0..1] receivedOrganization (CONF:1198-5577).
			1. The receivedOrganization, if present, SHALL contain exactly one [1..1] name (CONF:1198-5578).

legalAuthenticator

The legalAuthenticator identifies the single person legally responsible for the document and must be present if the document has been legally authenticated. A clinical document that does not contain this element has not been legally authenticated.

The act of legal authentication requires a certain privilege be granted to the legal authenticator depending upon local policy. Based on local practice, clinical documents may be released before legal authentication.

All clinical documents have the potential for legal authentication, given the appropriate credentials.

Local policies MAY choose to delegate the function of legal authentication to a device or system that generates the clinical document. In these cases, the legal authenticator is a person accepting responsibility for the document, not the generating device or system.

Note that the legal authenticator, if present, must be a person.

1. SHOULD contain zero or one [0..1] legalAuthenticator (CONF:1198-5579).
	1. The legalAuthenticator, if present, SHALL contain exactly one [1..1] [US Realm Date and Time (DTM.US.FIELDED)](#U_US_Realm_Date_and_Time_DTMUSFIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4) (CONF:1198-5580).
	2. The legalAuthenticator, if present, SHALL contain exactly one [1..1] signatureCode (CONF:1198-5583).
		1. This signatureCode SHALL contain exactly one [1..1] @code="S" (CodeSystem: HL7ParticipationSignature urn:oid:2.16.840.1.113883.5.89 STATIC) (CONF:1198-5584).

sdtc:signatureText

The sdtc:signatureText extension provides a location in CDA for a textual or multimedia depiction of the signature by which the participant endorses and accepts responsibility for his or her participation in the Act as specified in the Participation.typeCode. Details of what goes in the field are described in the HL7 CDA Digital Signature Standard balloted in Fall 2013.

* 1. The legalAuthenticator, if present, MAY contain zero or one [0..1] sdtc:signatureText (CONF:1198-30810).
	Note: The signature can be represented either inline or by reference according to the ED data type. Typical cases for CDA are:
	1) Electronic signature: this attribute can represent virtually any electronic signature scheme.
	2) Digital signature: this attribute can represent digital signatures by reference to a signature data block that is constructed in accordance to a digital signature standard, such as XML-DSIG, PKCS#7, PGP, etc.
	2. The legalAuthenticator, if present, SHALL contain exactly one [1..1] assignedEntity (CONF:1198-5585).
		1. This assignedEntity SHALL contain at least one [1..\*] id (CONF:1198-5586).
			1. Such ids MAY contain zero or one [0..1] @root="2.16.840.1.113883.4.6" National Provider Identifier (CONF:1198-16823).
		2. This assignedEntity MAY contain zero or one [0..1] code, which SHOULD be selected from ValueSet [Healthcare Provider Taxonomy (HIPAA)](#Healthcare_Provider_Taxonomy_HIPAA) urn:oid:2.16.840.1.114222.4.11.1066 DYNAMIC (CONF:1198-17000).
		3. This assignedEntity SHALL contain at least one [1..\*] [US Realm Address (AD.US.FIELDED)](#U_US_Realm_Address_ADUSFIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:1198-5589).
		4. This assignedEntity SHALL contain at least one [1..\*] telecom (CONF:1198-5595).
			1. Such telecoms SHOULD contain zero or one [0..1] @use, which SHALL be selected from ValueSet [Telecom Use (US Realm Header)](#Telecom_Use_US_Realm_Header) urn:oid:2.16.840.1.113883.11.20.9.20 DYNAMIC (CONF:1198-7999).
		5. This assignedEntity SHALL contain exactly one [1..1] assignedPerson (CONF:1198-5597).
			1. This assignedPerson SHALL contain at least one [1..\*] [US Realm Person Name (PN.US.FIELDED)](#U_US_Realm_Person_Name_PNUSFIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:1198-5598).

authenticator

The authenticator identifies a participant or participants who attest to the accuracy of the information in the document.

1. MAY contain zero or more [0..\*] authenticator (CONF:1198-5607) such that it
	1. SHALL contain exactly one [1..1] [US Realm Date and Time (DTM.US.FIELDED)](#U_US_Realm_Date_and_Time_DTMUSFIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4) (CONF:1198-5608).
	2. SHALL contain exactly one [1..1] signatureCode (CONF:1198-5610).
		1. This signatureCode SHALL contain exactly one [1..1] @code="S" (CodeSystem: HL7ParticipationSignature urn:oid:2.16.840.1.113883.5.89 STATIC) (CONF:1198-5611).

The sdtc:signatureText extension provides a location in CDA for a textual or multimedia depiction of the signature by which the participant endorses and accepts responsibility for his or her participation in the Act as specified in the Participation.typeCode. Details of what goes in the field are described in the HL7 CDA Digital Signature Standard balloted in Fall of 2013.

* 1. MAY contain zero or one [0..1] sdtc:signatureText (CONF:1198-30811).
	Note: The signature can be represented either inline or by reference according to the ED data type. Typical cases for CDA are:
	1) Electronic signature: this attribute can represent virtually any electronic signature scheme.
	2) Digital signature: this attribute can represent digital signatures by reference to a signature data block that is constructed in accordance to a digital signature standard, such as XML-DSIG, PKCS#7, PGP, etc.
	2. SHALL contain exactly one [1..1] assignedEntity (CONF:1198-5612).
		1. This assignedEntity SHALL contain at least one [1..\*] id (CONF:1198-5613).
			1. Such ids SHOULD contain zero or one [0..1] @root="2.16.840.1.113883.4.6" National Provider Identifier  (CONF:1198-16824).
		2. This assignedEntity MAY contain zero or one [0..1] code (CONF:1198-16825).
			1. The code, if present, MAY contain zero or one [0..1] @code, which SHOULD be selected from ValueSet [Healthcare Provider Taxonomy (HIPAA)](#Healthcare_Provider_Taxonomy_HIPAA) urn:oid:2.16.840.1.114222.4.11.1066 STATIC (CONF:1198-16826).
		3. This assignedEntity SHALL contain at least one [1..\*] [US Realm Address (AD.US.FIELDED)](#U_US_Realm_Address_ADUSFIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:1198-5616).
		4. This assignedEntity SHALL contain at least one [1..\*] telecom (CONF:1198-5622).
			1. Such telecoms SHOULD contain zero or one [0..1] @use, which SHALL be selected from ValueSet [Telecom Use (US Realm Header)](#Telecom_Use_US_Realm_Header) urn:oid:2.16.840.1.113883.11.20.9.20 DYNAMIC (CONF:1198-8000).
		5. This assignedEntity SHALL contain exactly one [1..1] assignedPerson (CONF:1198-5624).
			1. This assignedPerson SHALL contain at least one [1..\*] [US Realm Person Name (PN.US.FIELDED)](#U_US_Realm_Person_Name_PNUSFIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:1198-5625).

participant

The participant element identifies supporting entities, including parents, relatives, caregivers, insurance policyholders, guarantors, and others related in some way to the patient.

A supporting person or organization is an individual or an organization with a relationship to the patient. A supporting person who is playing multiple roles would be recorded in multiple participants (e.g., emergency contact and next-of-kin).

1. MAY contain zero or more [0..\*] participant (CONF:1198-10003) such that it
	1. MAY contain zero or one [0..1] time (CONF:1198-10004).
	2. **SHALL** contain associatedEntity/associatedPerson **AND/OR** associatedEntity/scopingOrganization (CONF:1198-10006).
	3. When participant/@typeCode is **IND**, associatedEntity/@classCode **SHOULD** be selected from ValueSet 2.16.840.1.113883.11.20.9.33 INDRoleclassCodes **STATIC 2011-09-30** (CONF:1198-10007).

inFulfillmentOf

The inFulfillmentOf element represents orders that are fulfilled by this document such as a radiologists’ report of an x-ray.

1. MAY contain zero or more [0..\*] inFulfillmentOf (CONF:1198-9952).
	1. The inFulfillmentOf, if present, SHALL contain exactly one [1..1] order (CONF:1198-9953).
		1. This order SHALL contain at least one [1..\*] id (CONF:1198-9954).

documentationOf

1. MAY contain zero or more [0..\*] documentationOf (CONF:1198-14835).

A serviceEvent represents the main act being documented, such as a colonoscopy or a cardiac stress study. In a provision of healthcare serviceEvent, the care providers, PCP, or other longitudinal providers, are recorded within the serviceEvent. If the document is about a single encounter, the providers associated can be recorded in the componentOf/encompassingEncounter template.

* 1. The documentationOf, if present, SHALL contain exactly one [1..1] serviceEvent (CONF:1198-14836).
		1. This serviceEvent SHALL contain exactly one [1..1] effectiveTime (CONF:1198-14837).
			1. This effectiveTime SHALL contain exactly one [1..1] low (CONF:1198-14838).

performer

The performer participant represents clinicians who actually and principally carry out the serviceEvent. In a transfer of care this represents the healthcare providers involved in the current or pertinent historical care of the patient. Preferably, the patient’s key healthcare care team members would be listed, particularly their primary physician and any active consulting physicians, therapists, and counselors.

* + 1. This serviceEvent SHOULD contain zero or more [0..\*] performer (CONF:1198-14839).
			1. The performer, if present, SHALL contain exactly one [1..1] @typeCode, which SHALL be selected from ValueSet [x\_ServiceEventPerformer](#x_ServiceEventPerformer) urn:oid:2.16.840.1.113883.1.11.19601 STATIC (CONF:1198-14840).
			2. The performer, if present, MAY contain zero or one [0..1] functionCode (CONF:1198-16818).
				1. The functionCode, if present, SHOULD contain zero or one [0..1] @code, which SHOULD be selected from ValueSet [ParticipationFunction](#ParticipationFunction) urn:oid:2.16.840.1.113883.1.11.10267 STATIC (CONF:1198-32889).
			3. The performer, if present, SHALL contain exactly one [1..1] assignedEntity (CONF:1198-14841).
				1. This assignedEntity SHALL contain at least one [1..\*] id (CONF:1198-14846).

Such ids SHOULD contain zero or one [0..1] @root="2.16.840.1.113883.4.6" National Provider Identifier (CONF:1198-14847).

* + - * 1. This assignedEntity SHOULD contain zero or one [0..1] code, which SHOULD be selected from ValueSet [Healthcare Provider Taxonomy (HIPAA)](#Healthcare_Provider_Taxonomy_HIPAA) urn:oid:2.16.840.1.114222.4.11.1066 DYNAMIC (CONF:1198-14842).

authorization

The authorization element represents information about the patient’s consent.

The type of consent is conveyed in consent/code. Consents in the header have been finalized (consent/statusCode must equal Completed) and should be on file. This specification does not address how 'Privacy Consent' is represented, but does not preclude the inclusion of ‘Privacy Consent’.

The authorization consent is used for referring to consents that are documented elsewhere in the EHR or medical record for a health condition and/or treatment that is described in the CDA document.

1. MAY contain zero or more [0..\*] authorization (CONF:1198-16792) such that it
	1. SHALL contain exactly one [1..1] consent (CONF:1198-16793).
		1. This consent MAY contain zero or more [0..\*] id (CONF:1198-16794).
		2. This consent MAY contain zero or one [0..1] code (CONF:1198-16795).
		Note: The type of consent (e.g., a consent to perform the related serviceEvent) is conveyed in consent/code.
		3. This consent SHALL contain exactly one [1..1] statusCode (CONF:1198-16797).
			1. This statusCode SHALL contain exactly one [1..1] @code="completed" Completed (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1198-16798).

componentOf

The encompassing encounter represents the setting of the clinical encounter during which the document act(s) or ServiceEvent(s) occurred. In order to represent providers associated with a specific encounter, they are recorded within the encompassingEncounter as participants. In a CCD, the encompassingEncounter may be used when documenting a specific encounter and its participants. All relevant encounters in a CCD may be listed in the encounters section.

1. MAY contain zero or one [0..1] componentOf (CONF:1198-9955).
	1. The componentOf, if present, SHALL contain exactly one [1..1] encompassingEncounter (CONF:1198-9956).
		1. This encompassingEncounter SHALL contain at least one [1..\*] id (CONF:1198-9959).
		2. This encompassingEncounter SHALL contain exactly one [1..1] effectiveTime (CONF:1198-9958).

Figure 1: US Realm Header (V3) Example

<ClinicalDocument>

 <realmCode code="US" />

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

 <!-- CCD template -->

 <templateId root="2.16.840.1.113883.10.20.22.1.1" extension="2015-08-01" />

 <!-- Globally unique identifier for the document -->

 <id extension="TT988" root="2.16.840.1.113883.19.5.99999.1" />

 <code code="34133-9" displayName="Summarization of Episode Note" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" />

 <!-- Title of the document -->

 <title>Patient Chart Summary</title>

 <effectiveTime value="201209151030-0800" />

 <confidentialityCode code="N" displayName="normal" codeSystem="2.16.840.1.113883.5.25" codeSystemName="Confidentiality" />

 <languageCode code="en-US" />

 <setId extension="sTT988" root="2.16.840.1.113883.19.5.99999.19" />

 <!-- Version of the document -->

 <versionNumber value="1" />

 . . .

</ClinicalDocument>

Figure 2: recordTarget Example

<recordTarget>

 <patientRole>

 <id extension="444-22-2222" root="2.16.840.1.113883.4.1" />

 <!-- Example Social Security Number using the actual SSN OID. -->

 <addr use="HP">

 <!-- HP is "primary home" from codeSystem 2.16.840.1.113883.5.1119 -->

 <streetAddressLine>2222 Home Street</streetAddressLine>

 <city>Beaverton</city>

 <state>OR</state>

 <postalCode>97867</postalCode>

 <country>US</country>

 <!-- US is "United States" from ISO 3166-1 Country Codes: 1.0.3166.1 -->

 </addr>

 <telecom value="tel:+1(555)555-2003" use="HP" />

 <!-- HP is "primary home" from HL7 AddressUse 2.16.840.1.113883.5.1119 -->

 <patient>

 <!-- The first name element represents what the patient is known as -->

 <name use="L">

 <given>Eve</given>

 <!-- The "SP" is "Spouse" from

 HL7 Code System EntityNamePartQualifier 2.16.840.1.113883.5.43 -->

 <family qualifier="SP">Betterhalf</family>

 </name>

 <!-- The second name element represents another name

 associated with the patient -->

 <name>

 <given>Eve</given>

 <!-- The "BR" is "Birth" from

 HL7 Code System EntityNamePartQualifier 2.16.840.1.113883.5.43 -->

 <family qualifier="BR">Everywoman</family>

 </name>

 <administrativeGenderCode code="F" displayName="Female" codeSystem="2.16.840.1.113883.5.1" codeSystemName="AdministrativeGender" />

 <!-- Date of birth need only be precise to the day -->

 <birthTime value="19750501" />

 <maritalStatusCode code="M" displayName="Married" codeSystem="2.16.840.1.113883.5.2" codeSystemName="MaritalStatusCode" />

 <religiousAffiliationCode code="1013" displayName="Christian (non-Catholic, non-specific)" codeSystem="2.16.840.1.113883.5.1076" codeSystemName="HL7 Religious Affiliation" />

 <!-- CDC Race and Ethnicity code set contains the five minimum

 race and ethnicity categories defined by OMB Standards -->

 <raceCode code="2106-3" displayName="White" codeSystem="2.16.840.1.113883.6.238" codeSystemName="Race & Ethnicity - CDC" />

 <!-- The raceCode extension is only used if raceCode is valued -->

 <sdtc:raceCode code="2076-8" displayName="Hawaiian or Other Pacific Islander" codeSystem="2.16.840.1.113883.6.238" codeSystemName="Race & Ethnicity - CDC" />

 <ethnicGroupCode code="2186-5" displayName="Not Hispanic or Latino" codeSystem="2.16.840.1.113883.6.238" codeSystemName="Race & Ethnicity - CDC" />

 <guardian>

 <code code="POWATT" displayName="Power of Attorney" codeSystem="2.16.840.1.113883.1.11.19830" codeSystemName="ResponsibleParty" />

 <addr use="HP">

 <streetAddressLine>2222 Home Street</streetAddressLine>

 <city>Beaverton</city>

 <state>OR</state>

 <postalCode>97867</postalCode>

 <country>US</country>

 </addr>

 <telecom value="tel:+1(555)555-2008" use="MC" />

 <guardianPerson>

 <name>

 <given>Boris</given>

 <given qualifier="CL">Bo</given>

 <family>Betterhalf</family>

 </name>

 </guardianPerson>

 </guardian>

 <birthplace>

 <place>

 <addr>

 <streetAddressLine>4444 Home Street</streetAddressLine>

 <city>Beaverton</city>

 <state>OR</state>

 <postalCode>97867</postalCode>

 <country>US</country>

 </addr>

 </place>

 </birthplace>

 <languageCommunication>

 <languageCode code="eng" />

 <!-- "eng" is ISO 639-2 alpha-3 code for "English" -->

 <modeCode code="ESP" displayName="Expressed spoken" codeSystem="2.16.840.1.113883.5.60" codeSystemName="LanguageAbilityMode" />

 <proficiencyLevelCode code="G" displayName="Good" codeSystem="2.16.840.1.113883.5.61" codeSystemName="LanguageAbilityProficiency" />

 <!-- Patient's preferred language -->

 <preferenceInd value="true" />

 </languageCommunication>

 </patient>

 <providerOrganization>

 <id extension="219BX" root="1.1.1.1.1.1.1.1.2" />

 <name>The DoctorsTogether Physician Group</name>

 <telecom use="WP" value="tel: +(555)-555-5000" />

 <addr>

 <streetAddressLine>1007 Health Drive</streetAddressLine>

 <city>Portland</city>

 <state>OR</state>

 <postalCode>99123</postalCode>

 <country>US</country>

 </addr>

 </providerOrganization>

 </patientRole>

</recordTarget>

Figure 3: author Example

<author>

 <time value="201209151030-0800" />

 <assignedAuthor>

 <id extension="5555555555" root="2.16.840.1.113883.4.6" />

 <code code="163W00000X" displayName="Registered nurse" codeSystem="2.16.840.1.113883.5.53" codeSystemName="Health Care Provider Taxonomy" />

 <addr>

 <streetAddressLine>1004 Healthcare Drive </streetAddressLine>

 <city>Portland</city>

 <state>OR</state>

 <postalCode>99123</postalCode>

 <country>US</country>

 </addr>

 <telecom use="WP" value="tel:+1(555)555-1004" />

 <assignedPerson>

 <name>

 <given>Patricia</given>

 <given qualifier="CL">Patty</given>

 <family>Primary</family>

 <suffix qualifier="AC">M.D.</suffix>

 </name>

 </assignedPerson>

 </assignedAuthor>

</author>

Figure 4: dateEnterer Example

<dataEnterer>

 <assignedEntity>

 <id extension="333777777" root="2.16.840.1.113883.4.6" />

 <addr>

 <streetAddressLine>1007 Healthcare Drive</streetAddressLine>

 <city>Portland</city>

 <state>OR</state>

 <postalCode>99123</postalCode>

 <country>US</country>

 </addr>

 <telecom use="WP" value="tel:+1(555)555-1050" />

 <assignedPerson>

 <name>

 <given>Ellen</given>

 <family>Enter</family>

 </name>

 </assignedPerson>

 </assignedEntity>

</dataEnterer>

Figure 5: Assigned Health Care Provider informant Example

<informant>

 <assignedEntity>

 <id extension="888888888" root="1.1.1.1.1.1.1.3" />

 <addr>

 <streetAddressLine>1007 Healthcare Drive</streetAddressLine>

 <city>Portland</city>

 <state>OR</state>

 <postalCode>99123</postalCode>

 <country>US</country>

 </addr>

 <telecom use="WP" value="tel:+1(555)555-1003" />

 <assignedPerson>

 <name>

 <given>Harold</given>

 <family>Hippocrates</family>

 <suffix qualifier="AC">M.D.</suffix>

 </name>

 </assignedPerson>

 <representedOrganization>

 <name>The DoctorsApart Physician Group</name>

 </representedOrganization>

 </assignedEntity>

</informant>

Figure 6: Personal Relation informant Example

<informant>

 <relatedEntity classCode="PRS">

 <!-- classCode "PRS" represents a person with personal relationship with the patient -->

 <code code="SPS" displayName="SPOUSE" codeSystem="2.16.840.1.113883.1.11.19563" codeSystemName="Personal Relationship Role Type Value Set" />

 <relatedPerson>

 <name>

 <given>Boris</given>

 <given qualifier="CL">Bo</given>

 <family>Betterhalf</family>

 </name>

 </relatedPerson>

 </relatedEntity>

</informant>

Figure 7: custodian Example

<custodian>

 <assignedCustodian>

 <representedCustodianOrganization>

 <id extension="321CX" root="1.1.1.1.1.1.1.1.3" />

 <name>Good Health HIE</name>

 <telecom use="WP" value="tel:+1(555)555-1009" />

 <addr use="WP">

 <streetAddressLine>1009 Healthcare Drive </streetAddressLine>

 <city>Portland</city>

 <state>OR</state>

 <postalCode>99123</postalCode>

 <country>US</country>

 </addr>

 </representedCustodianOrganization>

 </assignedCustodian>

</custodian>

Figure 8: informationRecipient Example

<informationRecipient>

 <intendedRecipient>

 <informationRecipient>

 <name>

 <given>Sara</given>

 <family>Specialize</family>

 <suffix qualifier="AC">M.D.</suffix>

 </name>

 </informationRecipient>

 <receivedOrganization>

 <name>The DoctorsApart Physician Group</name>

 </receivedOrganization>

 </intendedRecipient>

</informationRecipient>

Figure 9: Digital signature Example

<sdtc:signatureText mediaType="text/xml" representation="B64">omSJUEdmde9j44zmMiromSJUEdmde9j44zmMirdMDSsWdIJdksIJR3373jeu83

 6edjzMMIjdMDSsWdIJdksIJR3373jeu83MNYD83jmMdomSJUEdmde9j44zmMir

 ... MNYD83jmMdomSJUEdmde9j44zmMir6edjzMMIjdMDSsWdIJdksIJR3373jeu83

 4zmMir6edjzMMIjdMDSsWdIJdksIJR3373jeu83==</sdtc:signatureText>

Figure 10: legalAuthenticator Example

<legalAuthenticator>

 <time value="20120915223615-0800" />

 <signatureCode code="S" />

 <assignedEntity>

 <id extension="5555555555" root="2.16.840.1.113883.4.6" />

 <code code="207QA0505X" displayName="Adult Medicine" codeSystem="2.16.840.1.113883.5.53" codeSystemName="Health Care Provider Taxonomy" />

 <addr>

 <streetAddressLine>1004 Healthcare Drive </streetAddressLine>

 <city>Portland</city>

 <state>OR</state>

 <postalCode>99123</postalCode>

 <country>US</country>

 </addr>

 <telecom use="WP" value="tel:+1(555)555-1004" />

 <assignedPerson>

 <name>

 <given>Patricia</given>

 <given qualifier="CL">Patty</given>

 <family>Primary</family>

 <suffix qualifier="AC">M.D.</suffix>

 </name>

 </assignedPerson>

 </assignedEntity>

</legalAuthenticator>

Figure 11: authenticator Example

<authenticator>

 <time value="201209151030-0800" />

 <signatureCode code="S" />

 <assignedEntity>

 <id extension="5555555555" root="2.16.840.1.113883.4.6" />

 <code code="207QA0505X" displayName="Adult Medicine" codeSystem="2.16.840.1.113883.5.53" codeSystemName="Health Care Provider Taxonomy" />

 <addr>

 <streetAddressLine>1004 Healthcare Drive</streetAddressLine>

 <city>Portland</city>

 <state>OR</state>

 <postalCode>99123</postalCode>

 <country>US</country>

 </addr>

 <telecom use="WP" value="tel:+1(555)555-1004" />

 <assignedPerson>

 <name>

 <given>Patricia</given>

 <given qualifier="CL">Patty</given>

 <family>Primary</family>

 <suffix qualifier="AC">M.D.</suffix>

 </name>

 </assignedPerson>

 </assignedEntity>

</authenticator>

Figure 12: Supporting Person participant Example

<participant typeCode="IND">

 <!-- typeCode "IND" represents an individual -->

 <associatedEntity classCode="NOK">

 <!-- classCode "NOK" represents the patient's next of kin-->

 <addr use="HP">

 <streetAddressLine>2222 Home Street</streetAddressLine>

 <city>Beaverton</city>

 <state>OR</state>

 <postalCode>97867</postalCode>

 <country>US</country>

 </addr>

 <telecom value="tel:+1(555)555-2008" use="MC" />

 <associatedPerson>

 <name>

 <given>Boris</given>

 <given qualifier="CL">Bo</given>

 <family>Betterhalf</family>

 </name>

 </associatedPerson>

 </associatedEntity>

</participant>

<!-- Entities playing multiple roles are recorded in multiple participants -->

<participant typeCode="IND">

 <associatedEntity classCode="ECON">

 <!-- classCode "ECON" represents an emergency contact -->

 <addr use="HP">

 <streetAddressLine>2222 Home Street</streetAddressLine>

 <city>Beaverton</city>

 <state>OR</state>

 <postalCode>97867</postalCode>

 <country>US</country>

 </addr>

 <telecom value="tel:+1(555)555-2008" use="MC" />

 <associatedPerson>

 <name>

 <given>Boris</given>

 <given qualifier="CL">Bo</given>

 <family>Betterhalf</family>

 </name>

 </associatedPerson>

 </associatedEntity>

</participant>

Figure 13: inFulfillmentOf Example

<inFulfillmentOf typeCode="FLFS">

 <order classCode="ACT" moodCode="RQO">

 <id root="2.16.840.1.113883.6.96" extension="1298989898" />

 <code code="388975008" displayName="Weight Reduction Consultation" codeSystem="2.16.840.1.113883.6.96" codeSystemName="CPT4" />

 </order>

</inFulfillmentOf>

Figure 14: performer Example

<performer typeCode="PRF">

 <functionCode code="PCP"

 displayName="Primary Care Provider"

 codeSystem="2.16.840.1.113883.5.88"

 codeSystemName="ParticipationFunction">

 <originalText>Primary Care Provider</originalText>

 </functionCode>

 <assignedEntity>

 <id extension="5555555555" root="2.16.840.1.113883.4.6" />

 <code code="207QA0505X" displayName="Adult Medicine" codeSystem="2.16.840.1.113883.5.53" codeSystemName="Health Care Provider Taxonomy" />

 <addr>

 <streetAddressLine>1004 Healthcare Drive </streetAddressLine>

 <city>Portland</city>

 <state>OR</state>

 <postalCode>99123</postalCode>

 <country>US</country>

 </addr>

 <telecom use="WP" value="tel:+1(555)555-1004" />

 <assignedPerson>

 <name>

 <given>Patricia</given>

 <given qualifier="CL">Patty</given>

 <family>Primary</family>

 <suffix qualifier="AC">M.D.</suffix>

 </name>

 </assignedPerson>

 <representedOrganization>

 <id extension="219BX" root="1.1.1.1.1.1.1.1.2" />

 <name>The DoctorsTogether Physician Group</name>

 <telecom use="WP" value="tel: +(555)-555-5000" />

 <addr>

 <streetAddressLine>1004 Health Drive</streetAddressLine>

 <city>Portland</city>

 <state>OR</state>

 <postalCode>99123</postalCode>

 <country>US</country>

 </addr>

 </representedOrganization>

 </assignedEntity>

</performer>

Figure 15: documentationOf Example

<documentationOf>

 <serviceEvent classCode="PCPR">

 <!-- The effectiveTime reflects the provision of care summarized in the document.

 In this scenario, the provision of care summarized is the lifetime for the patient -->

 <effectiveTime>

 <low value="19750501" />

 <!-- The low value represents when the summarized provision of care began.

 In this scenario, the patient's date of birth -->

 <high value="20120915" />

 <!-- The high value represents when the summarized provision of care being ended.

 In this scenario, when chart summary was created -->

 </effectiveTime>

 <performer typeCode="PRF">

 <functionCode code="PCP"

 displayName="Primary Care Provider"

 codeSystem="2.16.840.1.113883.5.88"

 codeSystemName="ParticipationFunction">

 <originalText>Primary Care Provider</originalText>

 </functionCode>

 <assignedEntity>

 <id extension="5555555555" root="2.16.840.1.113883.4.6" />

 <code code="207QA0505X" displayName="Adult Medicine" codeSystem="2.16.840.1.113883.5.53" codeSystemName="Health Care Provider Taxonomy" />

 <addr>

 <streetAddressLine>1004 Healthcare Drive </streetAddressLine>

 <city>Portland</city>

 <state>OR</state>

 <postalCode>99123</postalCode>

 <country>US</country>

 </addr>

 <telecom use="WP" value="tel:+1(555)555-1004" />

 <assignedPerson>

 <name>

 <given>Patricia</given>

 <given qualifier="CL">Patty</given>

 <family>Primary</family>

 <suffix qualifier="AC">M.D.</suffix>

 </name>

 </assignedPerson>

 <representedOrganization>

 <id extension="219BX" root="1.1.1.1.1.1.1.1.2" />

 <name>The DoctorsTogether Physician Group</name>

 <telecom use="WP" value="tel: +(555)-555-5000" />

 <addr>

 <streetAddressLine>1004 Health Drive</streetAddressLine>

 <city>Portland</city>

 <state>OR</state>

 <postalCode>99123</postalCode>

 <country>US</country>

 </addr>

 </representedOrganization>

 </assignedEntity>

 </performer>

 </serviceEvent>

</documentationOf>

Figure 16: authorization Example

<authorization typeCode="AUTH">

 <consent classCode="CONS" moodCode="EVN">

 <id root="629deb70-5306-11df-9879-0800200c9a66" />

 <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" code="64293-4" displayName="Procedure consent" />

 <statusCode code="completed" />

 </consent>

</authorization>

# section

Periodontal Exam Section

[section: identifier urn:oid:2.16.840.1.113883.10.20.38.2.2 (open)]

Draft as part of Periodontal Attachment IG

Table 5: Periodontal Exam Section Contexts

| Contained By: | Contains: |
| --- | --- |
| [Periodontal Claim Attachment Document](#D_Periodontal_Claim_Attachment_Document) (required) | [Frenum Involvement Observation](#E_Frenum_Involvement_Observation)[Gingival Tooth Concern Act](#E_Gingival_Tooth_Concern_Act)[Oral Hygiene Acceptability Observation](#E_Oral_Hygiene_Acceptability_Observatio)[Presence of Orthodontic Treatment Observation](#E_Presence_of_Orthodontic_Treatment_Obs)[Presence of Restorative Treatment Observation](#E_Presence_of_Restorative_Treatment_Obs) |

This section captures the discrete observations captured as part of the Periodontal Exam that are relevant to the associated Claim.

Table 6: Periodontal Exam Section Constraints Overview

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| XPath | Card. | Verb | Data Type | CONF# | Value |
| section (identifier: urn:oid:2.16.840.1.113883.10.20.38.2.2) |
|  templateId | 1..1 | SHALL |  | [3282-342](#C_3282-342) |  |
|  @root | 1..1 | SHALL |  | [3282-349](#C_3282-349) | 2.16.840.1.113883.10.20.38.2.2 |
|  code | 1..1 | SHALL |  | [3282-343](#C_3282-343) |  |
|  @code | 1..1 | SHALL |  | [3282-350](#C_3282-350) | urn:oid:2.16.840.1.113883.6.1 (LOINC) = 32478-0 |
|  title | 1..1 | SHALL |  | [3282-351](#C_3282-351) |  |
|  text | 1..1 | SHALL |  | [3282-352](#C_3282-352) |  |
|  entry | 0..1 | MAY |  | [3282-344](#C_3282-344) |  |
|  observation | 1..1 | SHALL |  | [3282-353](#C_3282-353) | [Oral Hygiene Acceptability Observation (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.1](#E_Oral_Hygiene_Acceptability_Observatio) |
|  entry | 0..1 | MAY |  | [3282-345](#C_3282-345) |  |
|  observation | 1..1 | SHALL |  | [3282-354](#C_3282-354) | [Presence of Orthodontic Treatment Observation (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.2](#E_Presence_of_Orthodontic_Treatment_Obs) |
|  entry | 0..\* | MAY |  | [3282-346](#C_3282-346) |  |
|  act | 1..1 | SHALL |  | [3282-355](#C_3282-355) | [Gingival Tooth Concern Act (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.6](#E_Gingival_Tooth_Concern_Act) |
|  entry | 0..\* | MAY |  | [3282-347](#C_3282-347) |  |
|  observation | 1..1 | SHALL |  | [3282-356](#C_3282-356) | [Frenum Involvement Observation (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.4](#E_Frenum_Involvement_Observation) |
|  entry | 0..1 | MAY |  | [3282-348](#C_3282-348) |  |
|  observation | 1..1 | SHALL |  | [3282-357](#C_3282-357) | [Presence of Restorative Treatment Observation (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.3](#E_Presence_of_Restorative_Treatment_Obs) |

1. SHALL contain exactly one [1..1] templateId (CONF:3282-342).
	1. This templateId SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.38.2.2" (CONF:3282-349).
2. SHALL contain exactly one [1..1] code (CONF:3282-343).
	1. This code SHALL contain exactly one [1..1] @code="32478-0" Physical findings of Teeth and gum (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3282-350).
3. SHALL contain exactly one [1..1] title (CONF:3282-351).
4. SHALL contain exactly one [1..1] text (CONF:3282-352).
5. MAY contain zero or one [0..1] entry (CONF:3282-344).
	1. The entry, if present, SHALL contain exactly one [1..1] [Oral Hygiene Acceptability Observation](#E_Oral_Hygiene_Acceptability_Observatio) (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.1) (CONF:3282-353).
6. MAY contain zero or one [0..1] entry (CONF:3282-345).
	1. The entry, if present, SHALL contain exactly one [1..1] [Presence of Orthodontic Treatment Observation](#E_Presence_of_Orthodontic_Treatment_Obs) (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.2) (CONF:3282-354).
7. MAY contain zero or more [0..\*] entry (CONF:3282-346).
	1. The entry, if present, SHALL contain exactly one [1..1] [Gingival Tooth Concern Act](#E_Gingival_Tooth_Concern_Act) (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.6) (CONF:3282-355).
8. MAY contain zero or more [0..\*] entry (CONF:3282-347).
	1. The entry, if present, SHALL contain exactly one [1..1] [Frenum Involvement Observation](#E_Frenum_Involvement_Observation) (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.4) (CONF:3282-356).
9. MAY contain zero or one [0..1] entry (CONF:3282-348).
	1. The entry, if present, SHALL contain exactly one [1..1] [Presence of Restorative Treatment Observation](#E_Presence_of_Restorative_Treatment_Obs) (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.3) (CONF:3282-357).

Periodontal Narrative Section

[section: identifier urn:oid:2.16.840.1.113883.10.20.38.2.1 (open)]

Draft as part of Periodontal Attachment IG

Table 7: Periodontal Narrative Section Contexts

| Contained By: | Contains: |
| --- | --- |
| [Periodontal Claim Attachment Document](#D_Periodontal_Claim_Attachment_Document) (required) |  |

Free-text submission of up to 1000 characters from provider as required by the ADA 1079 guidance.

Table 8: Periodontal Narrative Section Constraints Overview

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| XPath | Card. | Verb | Data Type | CONF# | Value |
| section (identifier: urn:oid:2.16.840.1.113883.10.20.38.2.1) |
|  templateId | 1..1 | SHALL |  | [3282-1](#C_3282-1) |  |
|  @root | 1..1 | SHALL |  | [3282-3](#C_3282-3) | 2.16.840.1.113883.10.20.38.2.1 |
|  code | 1..1 | SHALL |  | [3282-2](#C_3282-2) |  |
|  @code | 1..1 | SHALL |  | [3282-4](#C_3282-4) | urn:oid:2.16.840.1.113883.6.1 (LOINC) = 74046-4 |
|  title | 1..1 | SHALL |  | [3282-6](#C_3282-6) |  |
|  text | 1..1 | SHALL |  | [3282-7](#C_3282-7) |  |

1. SHALL contain exactly one [1..1] templateId (CONF:3282-1).
	1. This templateId SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.38.2.1" (CONF:3282-3).
2. SHALL contain exactly one [1..1] code (CONF:3282-2).
	1. This code SHALL contain exactly one [1..1] @code="74046-4" Supplemental information about periodontal attachment (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3282-4).
3. SHALL contain exactly one [1..1] title (CONF:3282-6).
4. SHALL contain exactly one [1..1] text (CONF:3282-7).

# entry

Frenum Involvement Observation

[observation: identifier urn:oid:2.16.840.1.113883.10.20.38.3.4 (open)]

Draft as part of Periodontal Attachment IG

Table 9: Frenum Involvement Observation Contexts

| Contained By: | Contains: |
| --- | --- |
| [Periodontal Exam Section](#S_Periodontal_Exam_Section) (optional) |  |

Entry for capturing that a region of the patient's frenum is involved in the periodontal condition.

Table 10: Frenum Involvement Observation Constraints Overview

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| XPath | Card. | Verb | Data Type | CONF# | Value |
| observation (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.4) |
|  @classCode | 1..1 | SHALL |  | [3282-302](#C_3282-302) | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS |
|  @moodCode | 1..1 | SHALL |  | [3282-303](#C_3282-303) | urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN |
|  templateId | 1..1 | SHALL |  | [3282-298](#C_3282-298) |  |
|  @root | 1..1 | SHALL |  | [3282-304](#C_3282-304) | 2.16.840.1.113883.10.20.38.3.4 |
|  id | 1..\* | SHALL |  | [3282-305](#C_3282-305) |  |
|  code | 1..1 | SHALL |  | [3282-299](#C_3282-299) |  |
|  @code | 1..1 | SHALL |  | [3282-306](#C_3282-306) | urn:oid:2.16.840.1.113883.6.1 (LOINC) = 74049-8 |
|  statusCode | 1..1 | SHALL |  | [3282-300](#C_3282-300) |  |
|  @code | 1..1 | SHALL |  | [3282-307](#C_3282-307) | urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed |
|  value | 1..1 | SHALL | CD | [3282-301](#C_3282-301) |  |
|  @code | 1..1 | SHALL |  | [3282-308](#C_3282-308) | 2.16.840.1.113883.10.20.99.4.6 (Dental Frenum Region) |

1. SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3282-302).
2. SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3282-303).
3. SHALL contain exactly one [1..1] templateId (CONF:3282-298).
	1. This templateId SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.38.3.4" (CONF:3282-304).
4. SHALL contain at least one [1..\*] id (CONF:3282-305).
5. SHALL contain exactly one [1..1] code (CONF:3282-299).
	1. This code SHALL contain exactly one [1..1] @code="74049-8" Peridontal condition involves frenum (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3282-306).
6. SHALL contain exactly one [1..1] statusCode (CONF:3282-300).
	1. This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:3282-307).
7. SHALL contain exactly one [1..1] value with @xsi:type="CD" (CONF:3282-301).
	1. This value SHALL contain exactly one [1..1] @code, which SHALL be selected from ValueSet [Dental Frenum Region](#Dental_Frenum_Region) 2.16.840.1.113883.10.20.99.4.6 2016-11-11 (CONF:3282-308).

Gingival Attachment Observation

[observation: identifier urn:oid:2.16.840.1.113883.10.20.38.3.15 (open)]

Draft as part of Periodontal Attachment IG

Table 11: Gingival Attachment Observation Contexts

| Contained By: | Contains: |
| --- | --- |
| [Gingival Probing Site Concern Act](#E_Gingival_Probing_Site_Concern_Act) (optional) |  |

Tooth-specific, probing site-specific observation of level of attachment of the gingiva to the tooth

Table 12: Gingival Attachment Observation Constraints Overview

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| XPath | Card. | Verb | Data Type | CONF# | Value |
| observation (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.15) |
|  @classCode | 1..1 | SHALL |  | [3282-155](#C_3282-155) | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS |
|  @moodCode | 1..1 | SHALL |  | [3282-156](#C_3282-156) | urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN |
|  templateId | 1..1 | SHALL |  | [3282-152](#C_3282-152) |  |
|  @root | 1..1 | SHALL |  | [3282-157](#C_3282-157) | 2.16.840.1.113883.10.20.38.3.15 |
|  id | 1..\* | SHALL |  | [3282-158](#C_3282-158) |  |
|  code | 1..1 | SHALL |  | [3282-153](#C_3282-153) |  |
|  @code | 1..1 | SHALL |  | [3282-159](#C_3282-159) | urn:oid:2.16.840.1.113883.6.1 (LOINC) = 32912-8 |
|  statusCode | 1..1 | SHALL |  | [3282-154](#C_3282-154) |  |
|  @code | 1..1 | SHALL |  | [3282-160](#C_3282-160) | urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed |
|  value | 1..1 | SHALL | CD | [3282-161](#C_3282-161) |  |
|  @code | 1..1 | SHALL |  | [3282-162](#C_3282-162) | 2.16.840.1.113883.10.20.38.4.9 (Gingival Attachment) |

1. SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3282-155).
2. SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3282-156).
3. SHALL contain exactly one [1..1] templateId (CONF:3282-152).
	1. This templateId SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.38.3.15" (CONF:3282-157).
4. SHALL contain at least one [1..\*] id (CONF:3282-158).
5. SHALL contain exactly one [1..1] code (CONF:3282-153).
	1. This code SHALL contain exactly one [1..1] @code="32912-8" Attachment level [length] {tooth} {probe site} Calculated (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3282-159).
6. SHALL contain exactly one [1..1] statusCode (CONF:3282-154).
	1. This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:3282-160).
7. SHALL contain exactly one [1..1] value with @xsi:type="CD" (CONF:3282-161).
	1. This value SHALL contain exactly one [1..1] @code, which SHALL be selected from ValueSet [Gingival Attachment](#Gingival_Attachment) 2.16.840.1.113883.10.20.38.4.9 2016-11-11 (CONF:3282-162).

Gingival Probing Depth Observation

[observation: identifier urn:oid:2.16.840.1.113883.10.20.38.3.12 (open)]

Draft as part of Periodontal Attachment IG

Table 13: Gingival Probing Depth Observation Contexts

| Contained By: | Contains: |
| --- | --- |
| [Gingival Probing Site Concern Act](#E_Gingival_Probing_Site_Concern_Act) (optional) |  |

Entry for capturing the probing depth recorded at a given probing site for a given tooth as part of a periodontal exam.

Table 14: Gingival Probing Depth Observation Constraints Overview

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| XPath | Card. | Verb | Data Type | CONF# | Value |
| observation (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.12) |
|  @classCode | 1..1 | SHALL |  | [3282-188](#C_3282-188) | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS |
|  @moodCode | 1..1 | SHALL |  | [3282-189](#C_3282-189) | urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN |
|  templateId | 1..1 | SHALL |  | [3282-185](#C_3282-185) |  |
|  @root | 1..1 | SHALL |  | [3282-190](#C_3282-190) | 2.16.840.1.113883.10.20.38.3.12 |
|  id | 1..\* | SHALL |  | [3282-191](#C_3282-191) |  |
|  code | 1..1 | SHALL |  | [3282-186](#C_3282-186) |  |
|  @code | 1..1 | SHALL |  | [3282-192](#C_3282-192) | urn:oid:2.16.840.1.113883.6.1 (LOINC) = 32910-2 |
|  statusCode | 1..1 | SHALL |  | [3282-193](#C_3282-193) | urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed |
|  value | 1..1 | SHALL | CD | [3282-187](#C_3282-187) |  |
|  @code | 1..1 | SHALL |  | [3282-194](#C_3282-194) | 2.16.840.1.113883.10.20.99.4.1 (Gingival Pocket Depth) |

1. SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3282-188).
2. SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3282-189).
3. SHALL contain exactly one [1..1] templateId (CONF:3282-185).
	1. This templateId SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.38.3.12" (CONF:3282-190).
4. SHALL contain at least one [1..\*] id (CONF:3282-191).
5. SHALL contain exactly one [1..1] code (CONF:3282-186).
	1. This code SHALL contain exactly one [1..1] @code="32910-2" Probing depth {Tooth}.{probe site} Measured (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3282-192).
6. SHALL contain exactly one [1..1] statusCode="completed" (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:3282-193).
7. SHALL contain exactly one [1..1] value with @xsi:type="CD" (CONF:3282-187).
	1. This value SHALL contain exactly one [1..1] @code, which SHALL be selected from ValueSet [Gingival Pocket Depth](#Gingival_Pocket_Depth) 2.16.840.1.113883.10.20.99.4.1 2016-11-11 (CONF:3282-194).

Gingival Probing Site Bleeding Observation

[observation: identifier urn:oid:2.16.840.1.113883.10.20.38.3.14 (open)]

Draft as part of Periodontal Attachment IG

Table 15: Gingival Probing Site Bleeding Observation Contexts

| Contained By: | Contains: |
| --- | --- |
| [Gingival Probing Site Concern Act](#E_Gingival_Probing_Site_Concern_Act) (optional) |  |

Tooth-specific, Probing Site-specific observation of bleeding upon probing.

Table 16: Gingival Probing Site Bleeding Observation Constraints Overview

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| XPath | Card. | Verb | Data Type | CONF# | Value |
| observation (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.14) |
|  @classCode | 1..1 | SHALL |  | [3282-167](#C_3282-167) | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS |
|  @moodCode | 1..1 | SHALL |  | [3282-168](#C_3282-168) | urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN |
|  templateId | 1..1 | SHALL |  | [3282-163](#C_3282-163) |  |
|  @root | 1..1 | SHALL |  | [3282-169](#C_3282-169) | 2.16.840.1.113883.10.20.38.3.14 |
|  id | 1..\* | SHALL |  | [3282-170](#C_3282-170) |  |
|  code | 1..1 | SHALL |  | [3282-164](#C_3282-164) |  |
|  @code | 1..1 | SHALL |  | [3282-171](#C_3282-171) | urn:oid:2.16.840.1.113883.5.4 (HL7ActCode) = ASSERTION |
|  statusCode | 1..1 | SHALL |  | [3282-165](#C_3282-165) |  |
|  @code | 1..1 | SHALL |  | [3282-172](#C_3282-172) | urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed |
|  value | 1..1 | SHALL | CD | [3282-166](#C_3282-166) |  |
|  @code | 1..1 | SHALL |  | [3282-173](#C_3282-173) | urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 249420004 |

1. SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3282-167).
2. SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3282-168).
3. SHALL contain exactly one [1..1] templateId (CONF:3282-163).
	1. This templateId SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.38.3.14" (CONF:3282-169).
4. SHALL contain at least one [1..\*] id (CONF:3282-170).
5. SHALL contain exactly one [1..1] code (CONF:3282-164).
	1. This code SHALL contain exactly one [1..1] @code="ASSERTION" (CodeSystem: HL7ActCode urn:oid:2.16.840.1.113883.5.4) (CONF:3282-171).
6. SHALL contain exactly one [1..1] statusCode (CONF:3282-165).
	1. This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:3282-172).
7. SHALL contain exactly one [1..1] value with @xsi:type="CD" (CONF:3282-166).
	1. This value SHALL contain exactly one [1..1] @code="249420004" Bleeding on probing of gingivae (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC) (CONF:3282-173).

Gingival Probing Site Concern Act

[act: identifier urn:oid:2.16.840.1.113883.10.20.38.3.11 (open)]

Draft as part of Periodontal Attachment IG

Table 17: Gingival Probing Site Concern Act Contexts

| Contained By: | Contains: |
| --- | --- |
| [Gingival Tooth Concern Act](#E_Gingival_Tooth_Concern_Act) (optional) | [Gingival Attachment Observation](#E_Gingival_Attachment_Observation)[Gingival Probing Depth Observation](#E_Gingival_Probing_Depth_Observation)[Gingival Probing Site Bleeding Observation](#E_Gingival_Probing_Site_Bleeding_Observ)[Gingival Probing Site Identification Observation](#E_Gingival_Probing_Site_Identification)[Gingival Recession Observation](#E_Gingival_Recession_Observation) |

Act for grouping all observations taken at a given gingival probing site, as part of a periodontal exam.

Table 18: Gingival Probing Site Concern Act Constraints Overview

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| XPath | Card. | Verb | Data Type | CONF# | Value |
| act (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.11) |
|  @classCode | 1..1 | SHALL |  | [3282-198](#C_3282-198) | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT |
|  @moodCode | 1..1 | SHALL |  | [3282-199](#C_3282-199) | urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN |
|  templateId | 1..1 | SHALL |  | [3282-195](#C_3282-195) |  |
|  @root | 1..1 | SHALL |  | [3282-200](#C_3282-200) | 2.16.840.1.113883.10.20.38.3.11 |
|  id | 1..\* | SHALL |  | [3282-201](#C_3282-201) |  |
|  code | 1..1 | SHALL |  | [3282-196](#C_3282-196) |  |
|  @code | 1..1 | SHALL |  | [3282-202](#C_3282-202) | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = CONC |
|  statusCode | 0..1 | MAY |  | [3282-197](#C_3282-197) |  |
|  @code | 1..1 | SHALL |  | [3282-203](#C_3282-203) | urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed |
|  entryRelationship | 1..1 | SHALL |  | [3282-204](#C_3282-204) |  |
|  @typeCode | 1..1 | SHALL |  | [3282-205](#C_3282-205) | urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = SUBJ |
|  observation | 1..1 | SHALL |  | [3282-206](#C_3282-206) | [Gingival Probing Site Identification Observation (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.16](#E_Gingival_Probing_Site_Identification) |
|  entryRelationship | 0..1 | MAY |  | [3282-207](#C_3282-207) |  |
|  @typeCode | 1..1 | SHALL |  | [3282-211](#C_3282-211) | urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR |
|  observation | 1..1 | SHALL |  | [3282-212](#C_3282-212) | [Gingival Probing Depth Observation (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.12](#E_Gingival_Probing_Depth_Observation) |
|  entryRelationship | 0..1 | MAY |  | [3282-208](#C_3282-208) |  |
|  @typeCode | 1..1 | SHALL |  | [3282-213](#C_3282-213) | urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR |
|  observation | 1..1 | SHALL |  | [3282-214](#C_3282-214) | [Gingival Attachment Observation (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.15](#E_Gingival_Attachment_Observation) |
|  entryRelationship | 0..1 | MAY |  | [3282-209](#C_3282-209) |  |
|  @typeCode | 1..1 | SHALL |  | [3282-215](#C_3282-215) | urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR |
|  observation | 1..1 | SHALL |  | [3282-216](#C_3282-216) | [Gingival Probing Site Bleeding Observation (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.14](#E_Gingival_Probing_Site_Bleeding_Observ) |
|  entryRelationship | 0..1 | MAY |  | [3282-210](#C_3282-210) |  |
|  @typeCode | 1..1 | SHALL |  | [3282-217](#C_3282-217) | urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR |
|  observation | 1..1 | SHALL |  | [3282-218](#C_3282-218) | [Gingival Recession Observation (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.13](#E_Gingival_Recession_Observation) |

1. SHALL contain exactly one [1..1] @classCode="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3282-198).
2. SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3282-199).
3. SHALL contain exactly one [1..1] templateId (CONF:3282-195).
	1. This templateId SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.38.3.11" (CONF:3282-200).
4. SHALL contain at least one [1..\*] id (CONF:3282-201).
5. SHALL contain exactly one [1..1] code (CONF:3282-196).
	1. This code SHALL contain exactly one [1..1] @code="CONC" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3282-202).
6. MAY contain zero or one [0..1] statusCode (CONF:3282-197).
	1. The statusCode, if present, SHALL contain exactly one [1..1] @code="completed" (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:3282-203).
7. SHALL contain exactly one [1..1] entryRelationship (CONF:3282-204).
	1. This entryRelationship SHALL contain exactly one [1..1] @typeCode="SUBJ" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3282-205).
	2. This entryRelationship SHALL contain exactly one [1..1] [Gingival Probing Site Identification Observation](#E_Gingival_Probing_Site_Identification) (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.16) (CONF:3282-206).
8. MAY contain zero or one [0..1] entryRelationship (CONF:3282-207).
	1. The entryRelationship, if present, SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3282-211).
	2. The entryRelationship, if present, SHALL contain exactly one [1..1] [Gingival Probing Depth Observation](#E_Gingival_Probing_Depth_Observation) (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.12) (CONF:3282-212).
9. MAY contain zero or one [0..1] entryRelationship (CONF:3282-208).
	1. The entryRelationship, if present, SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3282-213).
	2. The entryRelationship, if present, SHALL contain exactly one [1..1] [Gingival Attachment Observation](#E_Gingival_Attachment_Observation) (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.15) (CONF:3282-214).
10. MAY contain zero or one [0..1] entryRelationship (CONF:3282-209).
	1. The entryRelationship, if present, SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3282-215).
	2. The entryRelationship, if present, SHALL contain exactly one [1..1] [Gingival Probing Site Bleeding Observation](#E_Gingival_Probing_Site_Bleeding_Observ) (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.14) (CONF:3282-216).
11. MAY contain zero or one [0..1] entryRelationship (CONF:3282-210).
	1. The entryRelationship, if present, SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3282-217).
	2. The entryRelationship, if present, SHALL contain exactly one [1..1] [Gingival Recession Observation](#E_Gingival_Recession_Observation) (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.13) (CONF:3282-218).

Gingival Probing Site Identification Observation

[observation: identifier urn:oid:2.16.840.1.113883.10.20.38.3.16 (open)]

Draft as part of Periodontal Attachment IG

Table 19: Gingival Probing Site Identification Observation Contexts

| Contained By: | Contains: |
| --- | --- |
| [Gingival Probing Site Concern Act](#E_Gingival_Probing_Site_Concern_Act) (required) |  |

Observation entry for identifying the probing site for a given tooth where observations are being taken.

Table 20: Gingival Probing Site Identification Observation Constraints Overview

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| XPath | Card. | Verb | Data Type | CONF# | Value |
| observation (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.16) |
|  @classCode | 1..1 | SHALL |  | [3282-145](#C_3282-145) | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = IBS |
|  @moodCode | 1..1 | SHALL |  | [3282-146](#C_3282-146) | urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN |
|  templateId | 1..1 | SHALL |  | [3282-141](#C_3282-141) |  |
|  @root | 1..1 | SHALL |  | [3282-147](#C_3282-147) | 2.16.840.1.113883.10.20.38.3.16 |
|  id | 1..\* | SHALL |  | [3282-148](#C_3282-148) |  |
|  code | 1..1 | SHALL |  | [3282-142](#C_3282-142) |  |
|  @code | 1..1 | SHALL |  | [3282-149](#C_3282-149) | urn:oid:2.16.840.1.113883.6.1 (LOINC) = 32888-0 |
|  statusCode | 1..1 | SHALL |  | [3282-143](#C_3282-143) |  |
|  @code | 1..1 | SHALL |  | [3282-150](#C_3282-150) | urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed |
|  value | 1..1 | SHALL | CD | [3282-144](#C_3282-144) |  |
|  @code | 1..1 | SHALL |  | [3282-151](#C_3282-151) | 2.16.840.1.113883.10.20.99.4.7 (Dental Periodontal Probing Position) |

1. SHALL contain exactly one [1..1] @classCode="IBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3282-145).
2. SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3282-146).
3. SHALL contain exactly one [1..1] templateId (CONF:3282-141).
	1. This templateId SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.38.3.16" (CONF:3282-147).
4. SHALL contain at least one [1..\*] id (CONF:3282-148).
5. SHALL contain exactly one [1..1] code (CONF:3282-142).
	1. This code SHALL contain exactly one [1..1] @code="32888-0" Probe site {Tooth}.sulcus (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3282-149).
6. SHALL contain exactly one [1..1] statusCode (CONF:3282-143).
	1. This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:3282-150).
7. SHALL contain exactly one [1..1] value with @xsi:type="CD" (CONF:3282-144).
	1. This value SHALL contain exactly one [1..1] @code, which SHALL be selected from ValueSet [Dental Periodontal Probing Position](#Dental_Periodontal_Probing_Position) 2.16.840.1.113883.10.20.99.4.7 2016-11-11 (CONF:3282-151).

Gingival Recession Observation

[observation: identifier urn:oid:2.16.840.1.113883.10.20.38.3.13 (open)]

Draft as part of Periodontal Attachment IG

Table 21: Gingival Recession Observation Contexts

| Contained By: | Contains: |
| --- | --- |
| [Gingival Probing Site Concern Act](#E_Gingival_Probing_Site_Concern_Act) (optional) |  |

Entry to capture the distance to which the gingivae has receeded from a given tooth at a specific probing site.

Table 22: Gingival Recession Observation Constraints Overview

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| XPath | Card. | Verb | Data Type | CONF# | Value |
| observation (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.13) |
|  @classCode | 1..1 | SHALL |  | [3282-178](#C_3282-178) | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS |
|  @moodCode | 1..1 | SHALL |  | [3282-179](#C_3282-179) | urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN |
|  templateId | 1..1 | SHALL |  | [3282-174](#C_3282-174) |  |
|  @root | 1..1 | SHALL |  | [3282-180](#C_3282-180) | 2.16.840.1.113883.10.20.38.3.13 |
|  id | 1..\* | SHALL |  | [3282-181](#C_3282-181) |  |
|  code | 1..1 | SHALL |  | [3282-175](#C_3282-175) |  |
|  @code | 1..1 | SHALL |  | [3282-182](#C_3282-182) | urn:oid:2.16.840.1.113883.6.1 (LOINC) = 32911-0 |
|  statusCode | 1..1 | SHALL |  | [3282-176](#C_3282-176) |  |
|  @code | 1..1 | SHALL |  | [3282-183](#C_3282-183) | urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed |
|  value | 1..1 | SHALL | CD | [3282-177](#C_3282-177) |  |
|  @code | 1..1 | SHALL |  | [3282-184](#C_3282-184) | 2.16.840.1.113883.10.20.38.4.8 (Gingival Recession) |

1. SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3282-178).
2. SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3282-179).
3. SHALL contain exactly one [1..1] templateId (CONF:3282-174).
	1. This templateId SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.38.3.13" (CONF:3282-180).
4. SHALL contain at least one [1..\*] id (CONF:3282-181).
5. SHALL contain exactly one [1..1] code (CONF:3282-175).
	1. This code SHALL contain exactly one [1..1] @code="32911-0" Recession [length] {tooth} {probe site} Measured (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3282-182).
6. SHALL contain exactly one [1..1] statusCode (CONF:3282-176).
	1. This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:3282-183).
7. SHALL contain exactly one [1..1] value with @xsi:type="CD" (CONF:3282-177).
	1. This value SHALL contain exactly one [1..1] @code, which SHALL be selected from ValueSet [Gingival Recession](#Gingival_Recession) 2.16.840.1.113883.10.20.38.4.8 2016-11-11 (CONF:3282-184).

Gingival Tooth Concern Act

[act: identifier urn:oid:2.16.840.1.113883.10.20.38.3.6 (open)]

Draft as part of Periodontal Attachment IG

Table 23: Gingival Tooth Concern Act Contexts

| Contained By: | Contains: |
| --- | --- |
| [Periodontal Exam Section](#S_Periodontal_Exam_Section) (optional) | [Gingival Probing Site Concern Act](#E_Gingival_Probing_Site_Concern_Act)[Tooth Furcation Observation](#E_Tooth_Furcation_Observation)[Tooth Identification Observation](#E_Tooth_Identification_Observation)[Tooth Mobility Observation](#E_Tooth_Mobility_Observation)[Tooth Previously Extracted Observation](#E_Tooth_Previously_Extracted_Observation) |

Entry that captures all relevant observations related to a specific tooth as part of a periodontal exam.

Table 24: Gingival Tooth Concern Act Constraints Overview

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| XPath | Card. | Verb | Data Type | CONF# | Value |
| act (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.6) |
|  @classCode | 1..1 | SHALL |  | [3282-282](#C_3282-282) | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT |
|  @moodCode | 1..1 | SHALL |  | [3282-283](#C_3282-283) | urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN |
|  templateId | 1..1 | SHALL |  | [3282-274](#C_3282-274) |  |
|  @root | 1..1 | SHALL |  | [3282-284](#C_3282-284) | 2.16.840.1.113883.10.20.38.3.6 |
|  id | 1..\* | SHALL |  | [3282-285](#C_3282-285) |  |
|  code | 1..1 | SHALL |  | [3282-275](#C_3282-275) |  |
|  @code | 1..1 | SHALL |  | [3282-286](#C_3282-286) | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = CONC |
|  statusCode | 1..1 | SHALL |  | [3282-276](#C_3282-276) |  |
|  @code | 1..1 | SHALL |  | [3282-287](#C_3282-287) | urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed |
|  entryRelationship | 1..1 | SHALL |  | [3282-277](#C_3282-277) |  |
|  @typeCode | 1..1 | SHALL |  | [3282-288](#C_3282-288) | urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = SUBJ |
|  observation | 1..1 | SHALL |  | [3282-289](#C_3282-289) | [Tooth Identification Observation (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.17](#E_Tooth_Identification_Observation) |
|  entryRelationship | 0..1 | MAY |  | [3282-278](#C_3282-278) |  |
|  @typeCode | 1..1 | SHALL |  | [3282-290](#C_3282-290) | urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR |
|  observation | 1..1 | SHALL |  | [3282-291](#C_3282-291) | [Tooth Previously Extracted Observation (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.7](#E_Tooth_Previously_Extracted_Observation) |
|  entryRelationship | 0..\* | MAY |  | [3282-279](#C_3282-279) |  |
|  @typeCode | 1..1 | SHALL |  | [3282-292](#C_3282-292) | urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR |
|  act | 1..1 | SHALL |  | [3282-293](#C_3282-293) | [Gingival Probing Site Concern Act (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.11](#E_Gingival_Probing_Site_Concern_Act) |
|  entryRelationship | 0..\* | MAY |  | [3282-280](#C_3282-280) |  |
|  @typeCode | 1..1 | SHALL |  | [3282-294](#C_3282-294) | urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR |
|  observation | 1..1 | SHALL |  | [3282-295](#C_3282-295) | [Tooth Furcation Observation (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.9](#E_Tooth_Furcation_Observation) |
|  entryRelationship | 0..1 | MAY |  | [3282-281](#C_3282-281) |  |
|  @typeCode | 1..1 | SHALL |  | [3282-296](#C_3282-296) | urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR |
|  observation | 1..1 | SHALL |  | [3282-297](#C_3282-297) | [Tooth Mobility Observation (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.8](#E_Tooth_Mobility_Observation) |

1. SHALL contain exactly one [1..1] @classCode="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3282-282).
2. SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3282-283).
3. SHALL contain exactly one [1..1] templateId (CONF:3282-274).
	1. This templateId SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.38.3.6" (CONF:3282-284).
4. SHALL contain at least one [1..\*] id (CONF:3282-285).
5. SHALL contain exactly one [1..1] code (CONF:3282-275).
	1. This code SHALL contain exactly one [1..1] @code="CONC" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3282-286).
6. SHALL contain exactly one [1..1] statusCode (CONF:3282-276).
	1. This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:3282-287).
7. SHALL contain exactly one [1..1] entryRelationship (CONF:3282-277).
	1. This entryRelationship SHALL contain exactly one [1..1] @typeCode="SUBJ" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3282-288).
	2. This entryRelationship SHALL contain exactly one [1..1] [Tooth Identification Observation](#E_Tooth_Identification_Observation) (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.17) (CONF:3282-289).
8. MAY contain zero or one [0..1] entryRelationship (CONF:3282-278).
	1. The entryRelationship, if present, SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3282-290).
	2. The entryRelationship, if present, SHALL contain exactly one [1..1] [Tooth Previously Extracted Observation](#E_Tooth_Previously_Extracted_Observation) (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.7) (CONF:3282-291).
9. MAY contain zero or more [0..\*] entryRelationship (CONF:3282-279).
	1. The entryRelationship, if present, SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3282-292).
	2. The entryRelationship, if present, SHALL contain exactly one [1..1] [Gingival Probing Site Concern Act](#E_Gingival_Probing_Site_Concern_Act) (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.11) (CONF:3282-293).
10. MAY contain zero or more [0..\*] entryRelationship (CONF:3282-280).
	1. The entryRelationship, if present, SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3282-294).
	2. The entryRelationship, if present, SHALL contain exactly one [1..1] [Tooth Furcation Observation](#E_Tooth_Furcation_Observation) (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.9) (CONF:3282-295).
11. MAY contain zero or one [0..1] entryRelationship (CONF:3282-281).
	1. The entryRelationship, if present, SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3282-296).
	2. The entryRelationship, if present, SHALL contain exactly one [1..1] [Tooth Mobility Observation](#E_Tooth_Mobility_Observation) (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.8) (CONF:3282-297).

Oral Hygiene Acceptability Observation

[observation: identifier urn:oid:2.16.840.1.113883.10.20.38.3.1 (open)]

Draft as part of Periodontal Attachment IG

Table 25: Oral Hygiene Acceptability Observation Contexts

| Contained By: | Contains: |
| --- | --- |
| [Periodontal Exam Section](#S_Periodontal_Exam_Section) (optional) |  |

Entry to assert that the patient's Oral Hygiene was found to be unacceptable.

Table 26: Oral Hygiene Acceptability Observation Constraints Overview

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| XPath | Card. | Verb | Data Type | CONF# | Value |
| observation (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.1) |
|  @classCode | 1..1 | SHALL |  | [3282-335](#C_3282-335) | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS |
|  @moodCode | 1..1 | SHALL |  | [3282-336](#C_3282-336) | urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN |
|  templateId | 1..1 | SHALL |  | [3282-331](#C_3282-331) |  |
|  @root | 1..1 | SHALL |  | [3282-337](#C_3282-337) | 2.16.840.1.113883.10.20.38.3.1 |
|  id | 1..\* | SHALL |  | [3282-338](#C_3282-338) |  |
|  code | 1..1 | SHALL |  | [3282-332](#C_3282-332) |  |
|  @code | 1..1 | SHALL |  | [3282-339](#C_3282-339) | urn:oid:2.16.840.1.113883.5.4 (HL7ActCode) = ASSERTION |
|  statusCode | 1..1 | SHALL |  | [3282-333](#C_3282-333) |  |
|  @code | 1..1 | SHALL |  | [3282-340](#C_3282-340) | urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed |
|  value | 1..1 | SHALL | CD | [3282-334](#C_3282-334) |  |
|  @code | 1..1 | SHALL |  | [3282-341](#C_3282-341) | urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 110299009 |

1. SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3282-335).
2. SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3282-336).
3. SHALL contain exactly one [1..1] templateId (CONF:3282-331).
	1. This templateId SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.38.3.1" (CONF:3282-337).
4. SHALL contain at least one [1..\*] id (CONF:3282-338).
5. SHALL contain exactly one [1..1] code (CONF:3282-332).
	1. This code SHALL contain exactly one [1..1] @code="ASSERTION" (CodeSystem: HL7ActCode urn:oid:2.16.840.1.113883.5.4) (CONF:3282-339).
6. SHALL contain exactly one [1..1] statusCode (CONF:3282-333).
	1. This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:3282-340).
7. SHALL contain exactly one [1..1] value with @xsi:type="CD" (CONF:3282-334).
	1. This value SHALL contain exactly one [1..1] @code="110299009" Poor oral hygiene (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:3282-341).

Presence of Orthodontic Treatment Observation

[observation: identifier urn:oid:2.16.840.1.113883.10.20.38.3.2 (open)]

Draft as part of Periodontal Attachment IG

Table 27: Presence of Orthodontic Treatment Observation Contexts

| Contained By: | Contains: |
| --- | --- |
| [Periodontal Exam Section](#S_Periodontal_Exam_Section) (optional) |  |

Entry to communicate that Orthodontic treatment has occurred for the patient.

Table 28: Presence of Orthodontic Treatment Observation Constraints Overview

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| XPath | Card. | Verb | Data Type | CONF# | Value |
| observation (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.2) |
|  @classCode | 1..1 | SHALL |  | [3282-324](#C_3282-324) | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS |
|  @moodCode | 1..1 | SHALL |  | [3282-325](#C_3282-325) | urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN |
|  templateId | 1..1 | SHALL |  | [3282-320](#C_3282-320) |  |
|  @root | 1..1 | SHALL |  | [3282-326](#C_3282-326) | 2.16.840.1.113883.10.20.38.3.2 |
|  id | 1..\* | SHALL |  | [3282-327](#C_3282-327) |  |
|  code | 1..1 | SHALL |  | [3282-321](#C_3282-321) |  |
|  @code | 1..1 | SHALL |  | [3282-328](#C_3282-328) | urn:oid:2.16.840.1.113883.5.4 (HL7ActCode) = ASSERTION |
|  statusCode | 1..1 | SHALL |  | [3282-322](#C_3282-322) |  |
|  @code | 1..1 | SHALL |  | [3282-329](#C_3282-329) | urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed |
|  value | 1..1 | SHALL | CD | [3282-323](#C_3282-323) |  |
|  @code | 1..1 | SHALL |  | [3282-330](#C_3282-330) | urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 306374007 |

1. SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3282-324).
2. SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3282-325).
3. SHALL contain exactly one [1..1] templateId (CONF:3282-320).
	1. This templateId SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.38.3.2" (CONF:3282-326).
4. SHALL contain at least one [1..\*] id (CONF:3282-327).
5. SHALL contain exactly one [1..1] code (CONF:3282-321).
	1. This code SHALL contain exactly one [1..1] @code="ASSERTION" (CodeSystem: HL7ActCode urn:oid:2.16.840.1.113883.5.4) (CONF:3282-328).
6. SHALL contain exactly one [1..1] statusCode (CONF:3282-322).
	1. This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:3282-329).
7. SHALL contain exactly one [1..1] value with @xsi:type="CD" (CONF:3282-323).
	1. This value SHALL contain exactly one [1..1] @code="306374007" Seen by orthodontics service (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:3282-330).

Presence of Restorative Treatment Observation

[observation: identifier urn:oid:2.16.840.1.113883.10.20.38.3.3 (open)]

Draft as part of Periodontal Attachment IG

Table 29: Presence of Restorative Treatment Observation Contexts

| Contained By: | Contains: |
| --- | --- |
| [Periodontal Exam Section](#S_Periodontal_Exam_Section) (optional) |  |

Entry to capture that Dental Restorative Treatment has occurred for the patient.

Table 30: Presence of Restorative Treatment Observation Constraints Overview

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| XPath | Card. | Verb | Data Type | CONF# | Value |
| observation (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.3) |
|  @classCode | 1..1 | SHALL |  | [3282-313](#C_3282-313) | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS |
|  @moodCode | 1..1 | SHALL |  | [3282-314](#C_3282-314) | urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN |
|  templateId | 1..1 | SHALL |  | [3282-309](#C_3282-309) |  |
|  @root | 1..1 | SHALL |  | [3282-315](#C_3282-315) | 2.16.840.1.113883.10.20.38.3.3 |
|  id | 1..\* | SHALL |  | [3282-316](#C_3282-316) |  |
|  code | 1..1 | SHALL |  | [3282-310](#C_3282-310) |  |
|  @code | 1..1 | SHALL |  | [3282-317](#C_3282-317) | urn:oid:2.16.840.1.113883.5.4 (HL7ActCode) = ASSERTION |
|  statusCode | 1..1 | SHALL |  | [3282-311](#C_3282-311) | urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) |
|  @code | 1..1 | SHALL |  | [3282-318](#C_3282-318) | urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed |
|  value | 1..1 | SHALL | CD | [3282-312](#C_3282-312) |  |
|  @code | 1..1 | SHALL |  | [3282-319](#C_3282-319) | urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 109727004 |

1. SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3282-313).
2. SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3282-314).
3. SHALL contain exactly one [1..1] templateId (CONF:3282-309).
	1. This templateId SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.38.3.3" (CONF:3282-315).
4. SHALL contain at least one [1..\*] id (CONF:3282-316).
5. SHALL contain exactly one [1..1] code (CONF:3282-310).
	1. This code SHALL contain exactly one [1..1] @code="ASSERTION" (CodeSystem: HL7ActCode urn:oid:2.16.840.1.113883.5.4) (CONF:3282-317).
6. SHALL contain exactly one [1..1] statusCode (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:3282-311).
	1. This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:3282-318).
7. SHALL contain exactly one [1..1] value with @xsi:type="CD" (CONF:3282-312).
	1. This value SHALL contain exactly one [1..1] @code="109727004" Dental restoration present (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:3282-319).

Tooth Furcation Grade Observation

[observation: identifier urn:oid:2.16.840.1.113883.10.20.38.3.10 (open)]

Draft as part of Periodontal Attachment IG

Table 31: Tooth Furcation Grade Observation Contexts

| Contained By: | Contains: |
| --- | --- |
| [Tooth Furcation Observation](#E_Tooth_Furcation_Observation) (required) |  |

Entry to capture the grade of furcation observed on a given side of a given tooth.

Table 32: Tooth Furcation Grade Observation Constraints Overview

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| XPath | Card. | Verb | Data Type | CONF# | Value |
| observation (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.10) |
|  @classCode | 1..1 | SHALL |  | [3282-232](#C_3282-232) | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS |
|  @moodCode | 1..1 | SHALL |  | [3282-233](#C_3282-233) | urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN |
|  templateId | 1..1 | SHALL |  | [3282-229](#C_3282-229) |  |
|  @root | 1..1 | SHALL |  | [3282-234](#C_3282-234) | 2.16.840.1.113883.10.20.38.3.10 |
|  id | 1..\* | SHALL |  | [3282-235](#C_3282-235) |  |
|  code | 1..1 | SHALL |  | [3282-230](#C_3282-230) |  |
|  @code | 1..1 | SHALL |  | [3282-236](#C_3282-236) | urn:oid:2.16.840.1.113883.6.1 (LOINC) = 34015-8 |
|  statusCode | 1..1 | SHALL |  | [3282-231](#C_3282-231) | urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) |
|  @code | 1..1 | SHALL |  | [3282-237](#C_3282-237) | urn:oid:2.16.840.1.113883.6.1 (LOINC) = 34015-8 |
|  value | 1..1 | SHALL | CD | [3282-238](#C_3282-238) | 2.16.840.1.113883.10.20.99.4.4 (Dental Tooth Furcation Grade Glickman Classification) |

1. SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3282-232).
2. SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3282-233).
3. SHALL contain exactly one [1..1] templateId (CONF:3282-229).
	1. This templateId SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.38.3.10" (CONF:3282-234).
4. SHALL contain at least one [1..\*] id (CONF:3282-235).
5. SHALL contain exactly one [1..1] code (CONF:3282-230).
	1. This code SHALL contain exactly one [1..1] @code="34015-8" Furcation Classification {tooth} Glickman classification (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3282-236).
6. SHALL contain exactly one [1..1] statusCode (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:3282-231).
	1. This statusCode SHALL contain exactly one [1..1] @code="34015-8" Furcation Classification {tooth} Glickman classification (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3282-237).
7. SHALL contain exactly one [1..1] value with @xsi:type="CD", where the code SHALL be selected from ValueSet [Dental Tooth Furcation Grade Glickman Classification](#Dental_Tooth_Furcation_Grade_Glickman_C) 2.16.840.1.113883.10.20.99.4.4 2016-11-11 (CONF:3282-238).

Tooth Furcation Observation

[observation: identifier urn:oid:2.16.840.1.113883.10.20.38.3.9 (open)]

Draft as part of Periodontal Attachment IG

Table 33: Tooth Furcation Observation Contexts

| Contained By: | Contains: |
| --- | --- |
| [Gingival Tooth Concern Act](#E_Gingival_Tooth_Concern_Act) (optional) | [Tooth Furcation Grade Observation](#E_Tooth_Furcation_Grade_Observation) |

Entry to capture a finding of furcation observed for a given tooth due to periodontal disease.

Table 34: Tooth Furcation Observation Constraints Overview

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| XPath | Card. | Verb | Data Type | CONF# | Value |
| observation (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.9) |
|  @classCode | 1..1 | SHALL |  | [3282-222](#C_3282-222) | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS |
|  @moodCode | 1..1 | SHALL |  | [3282-223](#C_3282-223) | urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN |
|  templateId | 1..1 | SHALL |  | [3282-219](#C_3282-219) |  |
|  @root | 1..1 | SHALL |  | [3282-224](#C_3282-224) | 2.16.840.1.113883.10.20.38.3.9 |
|  id | 1..\* | SHALL |  | [3282-225](#C_3282-225) |  |
|  code | 1..1 | SHALL |  | [3282-220](#C_3282-220) |  |
|  @code | 1..1 | SHALL |  | [3282-226](#C_3282-226) | urn:oid:2.16.840.1.113883.6.1 (LOINC) = X-XXXXX |
|  statusCode | 1..1 | SHALL |  | [3282-221](#C_3282-221) |  |
|  @code | 1..1 | SHALL |  | [3282-227](#C_3282-227) | urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed |
|  value | 1..1 | SHALL |  | [3282-228](#C_3282-228) | 2.16.840.1.113883.10.20.99.4.5 (Dental Tooth Furcation Site) |
|  entryRelationship | 1..1 | SHALL |  | [3282-239](#C_3282-239) |  |
|  @typeCode | 1..1 | SHALL |  | [3282-240](#C_3282-240) | urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR |
|  observation | 1..1 | SHALL |  | [3282-241](#C_3282-241) | [Tooth Furcation Grade Observation (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.10](#E_Tooth_Furcation_Grade_Observation) |

1. SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3282-222).
2. SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3282-223).
3. SHALL contain exactly one [1..1] templateId (CONF:3282-219).
	1. This templateId SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.38.3.9" (CONF:3282-224).
4. SHALL contain at least one [1..\*] id (CONF:3282-225).
5. SHALL contain exactly one [1..1] code (CONF:3282-220).
	1. This code SHALL contain exactly one [1..1] @code="X-XXXXX" Tooth Furcation Site (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3282-226).
6. SHALL contain exactly one [1..1] statusCode (CONF:3282-221).
	1. This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:3282-227).
7. SHALL contain exactly one [1..1] value, which SHALL be selected from ValueSet [Dental Tooth Furcation Site](#Dental_Tooth_Furcation_Site) 2.16.840.1.113883.10.20.99.4.5 2016-11-11 (CONF:3282-228).
8. SHALL contain exactly one [1..1] entryRelationship (CONF:3282-239).
	1. This entryRelationship SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:3282-240).
	2. This entryRelationship SHALL contain exactly one [1..1] [Tooth Furcation Grade Observation](#E_Tooth_Furcation_Grade_Observation) (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.10) (CONF:3282-241).

Tooth Identification Observation

[observation: identifier urn:oid:2.16.840.1.113883.10.20.38.3.17 (open)]

Draft as part of Periodontal Attachment IG

Table 35: Tooth Identification Observation Contexts

| Contained By: | Contains: |
| --- | --- |
| [Gingival Tooth Concern Act](#E_Gingival_Tooth_Concern_Act) (required) |  |

Entry for identifying the number of the tooth being examined.

Table 36: Tooth Identification Observation Constraints Overview

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| XPath | Card. | Verb | Data Type | CONF# | Value |
| observation (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.17) |
|  @classCode | 1..1 | SHALL |  | [3282-266](#C_3282-266) | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS |
|  @moodCode | 1..1 | SHALL |  | [3282-267](#C_3282-267) | urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN |
|  templateId | 1..1 | SHALL |  | [3282-263](#C_3282-263) |  |
|  @root | 1..1 | SHALL |  | [3282-268](#C_3282-268) | 2.16.840.1.113883.10.20.38.3.17 |
|  id | 1..\* | SHALL |  | [3282-269](#C_3282-269) |  |
|  code | 1..1 | SHALL |  | [3282-264](#C_3282-264) |  |
|  @code | 1..1 | SHALL |  | [3282-270](#C_3282-270) | urn:oid:2.16.840.1.113883.6.1 (LOINC) = 32885-6 |
|  statusCode | 1..1 | SHALL |  | [3282-271](#C_3282-271) | urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) |
|  @code | 1..1 | SHALL |  | [3282-273](#C_3282-273) | urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed |
|  value | 1..1 | SHALL | CD | [3282-265](#C_3282-265) |  |
|  @code | 1..1 | SHALL |  | [3282-272](#C_3282-272) | 2.16.840.1.113883.10.20.99.4.2 (Dental Universal Numbering System) |

1. SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3282-266).
2. SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3282-267).
3. SHALL contain exactly one [1..1] templateId (CONF:3282-263).
	1. This templateId SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.38.3.17" (CONF:3282-268).
4. SHALL contain at least one [1..\*] id (CONF:3282-269).
5. SHALL contain exactly one [1..1] code (CONF:3282-264).
	1. This code SHALL contain exactly one [1..1] @code="32885-6" Identification {Tooth} Observed (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3282-270).
6. SHALL contain exactly one [1..1] statusCode (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:3282-271).
	1. This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:3282-273).
7. SHALL contain exactly one [1..1] value with @xsi:type="CD" (CONF:3282-265).
	1. This value SHALL contain exactly one [1..1] @code, which SHALL be selected from ValueSet [Dental Universal Numbering System](#Dental_Universal_Numbering_System) 2.16.840.1.113883.10.20.99.4.2 2016-11-11 (CONF:3282-272).

Tooth Mobility Observation

[observation: identifier urn:oid:2.16.840.1.113883.10.20.38.3.8 (open)]

Draft as part of Periodontal Attachment IG

Table 37: Tooth Mobility Observation Contexts

| Contained By: | Contains: |
| --- | --- |
| [Gingival Tooth Concern Act](#E_Gingival_Tooth_Concern_Act) (optional) |  |

Entry for capturing the mobility of a given tooth as part of a periodontal exam

Table 38: Tooth Mobility Observation Constraints Overview

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| XPath | Card. | Verb | Data Type | CONF# | Value |
| observation (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.8) |
|  @classCode | 1..1 | SHALL |  | [3282-246](#C_3282-246) | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS |
|  @moodCode | 1..1 | SHALL |  | [3282-247](#C_3282-247) | urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN |
|  templateId | 1..1 | SHALL |  | [3282-242](#C_3282-242) |  |
|  @root | 1..1 | SHALL |  | [3282-248](#C_3282-248) | 2.16.840.1.113883.10.20.38.3.8 |
|  id | 1..\* | SHALL |  | [3282-249](#C_3282-249) |  |
|  code | 1..1 | SHALL |  | [3282-243](#C_3282-243) |  |
|  @code | 1..1 | SHALL |  | [3282-250](#C_3282-250) | urn:oid:2.16.840.1.113883.6.1 (LOINC) = 34005-9 |
|  statusCode | 1..1 | SHALL |  | [3282-244](#C_3282-244) |  |
|  @code | 1..1 | SHALL |  | [3282-251](#C_3282-251) | urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed |
|  value | 1..1 | SHALL | CD | [3282-245](#C_3282-245) |  |
|  @code | 1..1 | SHALL |  | [3282-252](#C_3282-252) | 2.16.840.1.113883.10.20.99.4.3 (Dental Tooth Mobility Miller Classification) |

1. SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3282-246).
2. SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3282-247).
3. SHALL contain exactly one [1..1] templateId (CONF:3282-242).
	1. This templateId SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.38.3.8" (CONF:3282-248).
4. SHALL contain at least one [1..\*] id (CONF:3282-249).
5. SHALL contain exactly one [1..1] code (CONF:3282-243).
	1. This code SHALL contain exactly one [1..1] @code="34005-9" Tooth mobility miller classification (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:3282-250).
6. SHALL contain exactly one [1..1] statusCode (CONF:3282-244).
	1. This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:3282-251).
7. SHALL contain exactly one [1..1] value with @xsi:type="CD" (CONF:3282-245).
	1. This value SHALL contain exactly one [1..1] @code, which SHALL be selected from ValueSet [Dental Tooth Mobility Miller Classification](#Dental_Tooth_Mobility_Miller_Classifica) 2.16.840.1.113883.10.20.99.4.3 2016-11-11 (CONF:3282-252).

Tooth Previously Extracted Observation

[observation: identifier urn:oid:2.16.840.1.113883.10.20.38.3.7 (open)]

Draft as part of Periodontal Attachment IG

Table 39: Tooth Previously Extracted Observation Contexts

| Contained By: | Contains: |
| --- | --- |
| [Gingival Tooth Concern Act](#E_Gingival_Tooth_Concern_Act) (optional) |  |

Entry for asserting that a tooth has been previously extracted.

Table 40: Tooth Previously Extracted Observation Constraints Overview

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| XPath | Card. | Verb | Data Type | CONF# | Value |
| observation (identifier: urn:oid:2.16.840.1.113883.10.20.38.3.7) |
|  @classCode | 1..1 | SHALL |  | [3282-256](#C_3282-256) | urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS |
|  @moodCode | 1..1 | SHALL |  | [3282-257](#C_3282-257) | urn:oid:2.16.840.1.113883.5.1001 (HL7ActMood) = EVN |
|  templateId | 1..1 | SHALL |  | [3282-253](#C_3282-253) |  |
|  @root | 1..1 | SHALL |  | [3282-258](#C_3282-258) | 2.16.840.1.113883.10.20.38.3.7 |
|  id | 1..\* | SHALL |  | [3282-259](#C_3282-259) |  |
|  code | 1..1 | SHALL |  | [3282-254](#C_3282-254) |  |
|  @code | 1..1 | SHALL |  | [3282-260](#C_3282-260) | urn:oid:2.16.840.1.113883.5.4 (HL7ActCode) = ASSERTION |
|  statusCode | 1..1 | SHALL |  | [3282-261](#C_3282-261) | urn:oid:2.16.840.1.113883.5.14 (HL7ActStatus) = completed |
|  value | 1..1 | SHALL | CD | [3282-255](#C_3282-255) |  |
|  @code | 1..1 | SHALL |  | [3282-262](#C_3282-262) | urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 234948008 |

1. SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:3282-256).
2. SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: HL7ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:3282-257).
3. SHALL contain exactly one [1..1] templateId (CONF:3282-253).
	1. This templateId SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.38.3.7" (CONF:3282-258).
4. SHALL contain at least one [1..\*] id (CONF:3282-259).
5. SHALL contain exactly one [1..1] code (CONF:3282-254).
	1. This code SHALL contain exactly one [1..1] @code="ASSERTION" (CodeSystem: HL7ActCode urn:oid:2.16.840.1.113883.5.4) (CONF:3282-260).
6. SHALL contain exactly one [1..1] statusCode="completed" (CodeSystem: HL7ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:3282-261).
7. SHALL contain exactly one [1..1] value with @xsi:type="CD" (CONF:3282-255).
	1. This value SHALL contain exactly one [1..1] @code="234948008" Tooth absent (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:3282-262).

# unspecified

US Realm Address (AD.US.FIELDED)

[addr: identifier urn:oid:2.16.840.1.113883.10.20.22.5.2 (open)]

Published as part of Consolidated CDA Templates for Clinical Notes (US Realm) DSTU R1.1

Table 41: US Realm Address (AD.US.FIELDED) Contexts

| Contained By: | Contains: |
| --- | --- |
| [US Realm Header (V3)](#D_US_Realm_Header_V3) (required) |  |

Reusable address template, for use in US Realm CDA Header.

Table 42: US Realm Address (AD.US.FIELDED) Constraints Overview

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| XPath | Card. | Verb | Data Type | CONF# | Value |
| addr (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) |
|  @use | 0..1 | SHOULD |  | [81-7290](#C_81-7290) | urn:oid:2.16.840.1.113883.1.11.10637 (PostalAddressUse) |
|  country | 0..1 | SHOULD |  | [81-7295](#C_81-7295) | urn:oid:2.16.840.1.113883.3.88.12.80.63 (Country) |
|  state | 0..1 | SHOULD |  | [81-7293](#C_81-7293) | urn:oid:2.16.840.1.113883.3.88.12.80.1 (StateValueSet) |
|  city | 1..1 | SHALL |  | [81-7292](#C_81-7292) |  |
|  postalCode | 0..1 | SHOULD |  | [81-7294](#C_81-7294) | urn:oid:2.16.840.1.113883.3.88.12.80.2 (PostalCode) |
|  streetAddressLine | 1..1 | SHALL |  | [81-7291](#C_81-7291) |  |

1. SHOULD contain zero or one [0..1] @use, which SHALL be selected from ValueSet [PostalAddressUse](#PostalAddressUse) urn:oid:2.16.840.1.113883.1.11.10637 STATIC 2005-05-01 (CONF:81-7290).
2. SHOULD contain zero or one [0..1] country, which SHALL be selected from ValueSet [Country](#Country) urn:oid:2.16.840.1.113883.3.88.12.80.63 DYNAMIC (CONF:81-7295).
3. SHOULD contain zero or one [0..1] state (ValueSet: [StateValueSet](#StateValueSet) urn:oid:2.16.840.1.113883.3.88.12.80.1 DYNAMIC) (CONF:81-7293).
	1. State is required if the country is US. If country is not specified, it's assumed to be US. If country is something other than US, the state MAY be present but MAY be bound to different vocabularies (CONF:81-10024).
4. SHALL contain exactly one [1..1] city (CONF:81-7292).
5. SHOULD contain zero or one [0..1] postalCode, which SHOULD be selected from ValueSet [PostalCode](#PostalCode) urn:oid:2.16.840.1.113883.3.88.12.80.2 DYNAMIC (CONF:81-7294).
	1. PostalCode is required if the country is US. If country is not specified, it's assumed to be US. If country is something other than US, the postalCode MAY be present but MAY be bound to different vocabularies (CONF:81-10025).
6. SHALL contain exactly one [1..1] streetAddressLine (CONF:81-7291).
7. **SHALL NOT** have mixed content except for white space (CONF:81-7296).

Figure 17: US Realm Address Example

<addr use="HP">

 <streetAddressLine>22 Sample Street</streetAddressLine>

 <city>Beaverton</city>

 <state>OR</state>

 <postalCode>97867</postalCode>

 <country>US</country>

</addr>

US Realm Date and Time (DT.US.FIELDED)

[effectiveTime: identifier urn:oid:2.16.840.1.113883.10.20.22.5.3 (open)]

Published as part of Consolidated CDA Templates for Clinical Notes (US Realm) DSTU R1.1

Table 43: US Realm Date and Time (DT.US.FIELDED) Contexts

| Contained By: | Contains: |
| --- | --- |
| [Periodontal Claim Attachment Document](#D_Periodontal_Claim_Attachment_Document) (required) |  |

The US Realm Clinical Document Date and Time datatype flavor records date and time information. If no time zone offset is provided, you can make no assumption about time, unless you have made a local exchange agreement.

This data type uses the same rules as US Realm Date and Time (DTM.US.FIELDED),  but is used with elements having a datatype of IVL\_TS.

Table 44: US Realm Date and Time (DT.US.FIELDED) Constraints Overview

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| XPath | Card. | Verb | Data Type | CONF# | Value |
| effectiveTime (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.3) |

1. **SHALL** be precise to the day (CONF:81-10078).
2. **SHOULD** be precise to the minute (CONF:81-10079).
3. **MAY** be precise to the second (CONF:81-10080).
4. If more precise than day, **SHOULD** include time-zone offset (CONF:81-10081).

US Realm Date and Time (DTM.US.FIELDED)

[effectiveTime: identifier urn:oid:2.16.840.1.113883.10.20.22.5.4 (open)]

Published as part of Consolidated CDA Templates for Clinical Notes (US Realm) DSTU R1.1

Table 45: US Realm Date and Time (DTM.US.FIELDED) Contexts

| Contained By: | Contains: |
| --- | --- |
| [US Realm Header (V3)](#D_US_Realm_Header_V3) (required) |  |

The US Realm Clinical Document Date and Time datatype flavor records date and time information. If no time zone offset is provided, you can make no assumption about time, unless you have made a local exchange agreement.

This data type uses the same rules as US Realm Date and Time (DT.US.FIELDED), but is used with elements having a datatype of TS.

Table 46: US Realm Date and Time (DTM.US.FIELDED) Constraints Overview

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| XPath | Card. | Verb | Data Type | CONF# | Value |
| effectiveTime (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4) |

1. **SHALL** be precise to the day (CONF:81-10127).
2. **SHOULD** be precise to the minute (CONF:81-10128).
3. **MAY** be precise to the second (CONF:81-10129).
4. If more precise than day, **SHOULD** include time-zone offset (CONF:81-10130).

Figure 18: US Realm Date and Time Example

<!-- Common values for date/time elements would range in precision to the day YYYYMMDD to precision to the second with a time zone offset YYYYMMDDHHMMSS - ZZzz -->

<!-- time element with TS data type precise to the day for a birthdate -->

<time value=”19800531”/>

<!-- effectiveTime element with IVL<TS> data type precise to the second for an observation -->

<effectiveTime>

 <low value='20110706122735-0800'/>

 <high value='20110706122815-0800'/>

</effectiveTime>

US Realm Person Name (PN.US.FIELDED)

[name: identifier urn:oid:2.16.840.1.113883.10.20.22.5.1.1 (open)]

Published as part of Consolidated CDA Templates for Clinical Notes (US Realm) DSTU R1.1

Table 47: US Realm Person Name (PN.US.FIELDED) Contexts

| Contained By: | Contains: |
| --- | --- |
| [US Realm Header (V3)](#D_US_Realm_Header_V3) (required) |  |

The US Realm Clinical Document Person Name datatype flavor is a set of reusable constraints that can be used for Persons.

Table 48: US Realm Person Name (PN.US.FIELDED) Constraints Overview

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| XPath | Card. | Verb | Data Type | CONF# | Value |
| name (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) |
|  name | 1..1 | SHALL |  | [81-9368](#C_81-9368) |  |

1. SHALL contain exactly one [1..1] name (CONF:81-9368).
	1. The content of name **SHALL** be either a conformant Patient Name (PTN.US.FIELDED), or a string (CONF:81-9371).
	2. The string **SHALL NOT** contain name parts (CONF:81-9372).

# Template Ids in This Guide

Table 49: Template List

| Template Title | Template Type | templateId |
| --- | --- | --- |
| [Periodontal Claim Attachment Document](#D_Periodontal_Claim_Attachment_Document) | document | urn:oid:2.16.840.1.113883.10.20.38.1.2 |
| [US Realm Header (V3)](#D_US_Realm_Header_V3) | document | urn:hl7ii:2.16.840.1.113883.10.20.22.1.1:2015-08-01 |
| [Periodontal Exam Section](#S_Periodontal_Exam_Section) | section | urn:oid:2.16.840.1.113883.10.20.38.2.2 |
| [Periodontal Narrative Section](#S_Periodontal_Narrative_Section) | section | urn:oid:2.16.840.1.113883.10.20.38.2.1 |
| [Frenum Involvement Observation](#E_Frenum_Involvement_Observation) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.4 |
| [Gingival Attachment Observation](#E_Gingival_Attachment_Observation) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.15 |
| [Gingival Probing Depth Observation](#E_Gingival_Probing_Depth_Observation) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.12 |
| [Gingival Probing Site Bleeding Observation](#E_Gingival_Probing_Site_Bleeding_Observ) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.14 |
| [Gingival Probing Site Concern Act](#E_Gingival_Probing_Site_Concern_Act) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.11 |
| [Gingival Probing Site Identification Observation](#E_Gingival_Probing_Site_Identification) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.16 |
| [Gingival Recession Observation](#E_Gingival_Recession_Observation) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.13 |
| [Gingival Tooth Concern Act](#E_Gingival_Tooth_Concern_Act) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.6 |
| [Oral Hygiene Acceptability Observation](#E_Oral_Hygiene_Acceptability_Observatio) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.1 |
| [Presence of Orthodontic Treatment Observation](#E_Presence_of_Orthodontic_Treatment_Obs) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.2 |
| [Presence of Restorative Treatment Observation](#E_Presence_of_Restorative_Treatment_Obs) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.3 |
| [Tooth Furcation Grade Observation](#E_Tooth_Furcation_Grade_Observation) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.10 |
| [Tooth Furcation Observation](#E_Tooth_Furcation_Observation) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.9 |
| [Tooth Identification Observation](#E_Tooth_Identification_Observation) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.17 |
| [Tooth Mobility Observation](#E_Tooth_Mobility_Observation) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.8 |
| [Tooth Previously Extracted Observation](#E_Tooth_Previously_Extracted_Observation) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.7 |
| [US Realm Address (AD.US.FIELDED)](#U_US_Realm_Address_ADUSFIELDED) | unspecified | urn:oid:2.16.840.1.113883.10.20.22.5.2 |
| [US Realm Date and Time (DT.US.FIELDED)](#U_US_Realm_Date_and_Time_DTUSFIELDED) | unspecified | urn:oid:2.16.840.1.113883.10.20.22.5.3 |
| [US Realm Date and Time (DTM.US.FIELDED)](#U_US_Realm_Date_and_Time_DTMUSFIELDED) | unspecified | urn:oid:2.16.840.1.113883.10.20.22.5.4 |
| [US Realm Person Name (PN.US.FIELDED)](#U_US_Realm_Person_Name_PNUSFIELDED) | unspecified | urn:oid:2.16.840.1.113883.10.20.22.5.1.1 |

Table 50: Template Containments

| Template Title | Template Type | templateId |
| --- | --- | --- |
| [Periodontal Claim Attachment Document](#D_Periodontal_Claim_Attachment_Document) | document | urn:oid:2.16.840.1.113883.10.20.38.1.2 |
| [Periodontal Exam Section](#S_Periodontal_Exam_Section) | section | urn:oid:2.16.840.1.113883.10.20.38.2.2 |
| [Frenum Involvement Observation](#E_Frenum_Involvement_Observation) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.4 |
| [Gingival Tooth Concern Act](#E_Gingival_Tooth_Concern_Act) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.6 |
| [Gingival Probing Site Concern Act](#E_Gingival_Probing_Site_Concern_Act) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.11 |
| [Gingival Attachment Observation](#E_Gingival_Attachment_Observation) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.15 |
| [Gingival Probing Depth Observation](#E_Gingival_Probing_Depth_Observation) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.12 |
| [Gingival Probing Site Bleeding Observation](#E_Gingival_Probing_Site_Bleeding_Observ) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.14 |
| [Gingival Probing Site Identification Observation](#E_Gingival_Probing_Site_Identification) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.16 |
| [Gingival Recession Observation](#E_Gingival_Recession_Observation) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.13 |
| [Tooth Furcation Observation](#E_Tooth_Furcation_Observation) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.9 |
| [Tooth Furcation Grade Observation](#E_Tooth_Furcation_Grade_Observation) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.10 |
| [Tooth Identification Observation](#E_Tooth_Identification_Observation) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.17 |
| [Tooth Mobility Observation](#E_Tooth_Mobility_Observation) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.8 |
| [Tooth Previously Extracted Observation](#E_Tooth_Previously_Extracted_Observation) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.7 |
| [Oral Hygiene Acceptability Observation](#E_Oral_Hygiene_Acceptability_Observatio) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.1 |
| [Presence of Orthodontic Treatment Observation](#E_Presence_of_Orthodontic_Treatment_Obs) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.2 |
| [Presence of Restorative Treatment Observation](#E_Presence_of_Restorative_Treatment_Obs) | entry | urn:oid:2.16.840.1.113883.10.20.38.3.3 |
| [Periodontal Narrative Section](#S_Periodontal_Narrative_Section) | section | urn:oid:2.16.840.1.113883.10.20.38.2.1 |
| [US Realm Date and Time (DT.US.FIELDED)](#U_US_Realm_Date_and_Time_DTUSFIELDED) | unspecified | urn:oid:2.16.840.1.113883.10.20.22.5.3 |
| [US Realm Header (V3)](#D_US_Realm_Header_V3) | document | urn:hl7ii:2.16.840.1.113883.10.20.22.1.1:2015-08-01 |
| [US Realm Address (AD.US.FIELDED)](#U_US_Realm_Address_ADUSFIELDED) | unspecified | urn:oid:2.16.840.1.113883.10.20.22.5.2 |
| [US Realm Date and Time (DTM.US.FIELDED)](#U_US_Realm_Date_and_Time_DTMUSFIELDED) | unspecified | urn:oid:2.16.840.1.113883.10.20.22.5.4 |
| [US Realm Person Name (PN.US.FIELDED)](#U_US_Realm_Person_Name_PNUSFIELDED) | unspecified | urn:oid:2.16.840.1.113883.10.20.22.5.1.1 |

# Value Sets In This Guide

Table 51: Race

|  |
| --- |
| Value Set: Race urn:oid:2.16.840.1.113883.1.11.14914Concepts in the race value set include the 5 minimum categories for race specified by OMB along with a more detailed set of race categories used by the Bureau of Census. Value Set Source: <https://vsac.nlm.nih.gov/> |
| Code | Code System | Code System OID | Print Name |
| ... |

Table 52: HL7 BasicConfidentialityKind

|  |
| --- |
| Value Set: HL7 BasicConfidentialityKind urn:oid:2.16.840.1.113883.1.11.16926A value set of HL7 Code indication the level of confidentiality an act.Value Set Source: <https://vsac.nlm.nih.gov/> |
| Code | Code System | Code System OID | Print Name |
| ... |

Table 53: Language

|  |
| --- |
| Value Set: Language urn:oid:2.16.840.1.113883.1.11.11526A value set of codes defined by Internet RFC 4646 (replacing RFC 3066). Please see ISO 639 language code set maintained by Library of Congress for enumeration of language codes.Value Set Source: <http://www.loc.gov/standards/iso639-2/php/code_list.php> |
| Code | Code System | Code System OID | Print Name |
| ... |

Table 54: Telecom Use (US Realm Header)

|  |
| --- |
| Value Set: Telecom Use (US Realm Header) urn:oid:2.16.840.1.113883.11.20.9.20Value Set Source: <https://vsac.nlm.nih.gov/> |
| Code | Code System | Code System OID | Print Name |
| ... |

Table 55: Administrative Gender (HL7 V3)

|  |
| --- |
| Value Set: Administrative Gender (HL7 V3) urn:oid:2.16.840.1.113883.1.11.1Administrative Gender based upon HL7 V3 vocabulary. This value set contains only male, female and undifferentiated concepts.Value Set Source: <https://vsac.nlm.nih.gov/> |
| Code | Code System | Code System OID | Print Name |
| ... |

Table 56: Marital Status

|  |
| --- |
| Value Set: Marital Status urn:oid:2.16.840.1.113883.1.11.12212Marital Status is the domestic partnership status of a person.Value Set Source: <https://vsac.nlm.nih.gov/> |
| Code | Code System | Code System OID | Print Name |
| ... |

Table 57: Religious Affiliation

|  |
| --- |
| Value Set: Religious Affiliation urn:oid:2.16.840.1.113883.1.11.19185A value set of codes that reflect spiritual faith affiliation.Value Set Source: <https://vsac.nlm.nih.gov/> |
| Code | Code System | Code System OID | Print Name |
| ... |

Table 58: Race Category Excluding Nulls

|  |
| --- |
| Value Set: Race Category Excluding Nulls urn:oid:2.16.840.1.113883.3.2074.1.1.3Value Set Source: <https://vsac.nlm.nih.gov/> |
| Code | Code System | Code System OID | Print Name |
| ... |

Table 59: Ethnicity

|  |
| --- |
| Value Set: Ethnicity urn:oid:2.16.840.1.114222.4.11.837Code System: Race & Ethnicity - CDC 2.16.840.1.113883.6.238Value Set Source: <https://vsac.nlm.nih.gov/> |
| Code | Code System | Code System OID | Print Name |
| ... |

Table 60: Personal And Legal Relationship Role Type

|  |
| --- |
| Value Set: Personal And Legal Relationship Role Type urn:oid:2.16.840.1.113883.11.20.12.1A personal or legal relationship records the role of a person in relation to another person, or a person to himself or herself. This value set is to be used when recording relationships based on personal or family ties or through legal assignment of responsibility.Value Set Source: <https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.11.20.12.1> |
| Code | Code System | Code System OID | Print Name |
| ... |

Table 61: Country

|  |
| --- |
| Value Set: Country urn:oid:2.16.840.1.113883.3.88.12.80.63This identifies the codes for the representation of names of countries, territories and areas of geographical interest.Value Set Source: <http://www.iso.org/iso/country_codes/iso_3166_code_lists.htm> |
| Code | Code System | Code System OID | Print Name |
| ... |

Table 62: PostalCode

|  |
| --- |
| Value Set: PostalCode urn:oid:2.16.840.1.113883.3.88.12.80.2A value set of postal (ZIP) Code of an address in the United StatesValue Set Source: <http://ushik.ahrq.gov/ViewItemDetails?system=mdr&itemKey=86671000> |
| Code | Code System | Code System OID | Print Name |
| ... |

Table 63: LanguageAbilityMode

|  |
| --- |
| Value Set: LanguageAbilityMode urn:oid:2.16.840.1.113883.1.11.12249This identifies the language ability of the individual. A value representing the method of expression of the language.Value Set Source: <https://vsac.nlm.nih.gov/> |
| Code | Code System | Code System OID | Print Name |
| ... |

Table 64: LanguageAbilityProficiency

|  |
| --- |
| Value Set: LanguageAbilityProficiency urn:oid:2.16.840.1.113883.1.11.12199Value Set Source: <https://vsac.nlm.nih.gov/> |
| Code | Code System | Code System OID | Print Name |
| ... |

Table 65: Detailed Ethnicity

|  |
| --- |
| Value Set: Detailed Ethnicity urn:oid:2.16.840.1.114222.4.11.877List of detailed ethnicity codes reported on a limited basisValue Set Source: [http://phinvads.cdc.gov/vads/ViewValueSet.action?id=34D34BBC-617F-DD11-B38D-00188B398520#](http://phinvads.cdc.gov/vads/ViewValueSet.action?id=34D34BBC-617F-DD11-B38D-00188B398520) |
| Code | Code System | Code System OID | Print Name |
| ... |

Table 66: Healthcare Provider Taxonomy (HIPAA)

|  |
| --- |
| Value Set: Healthcare Provider Taxonomy (HIPAA) urn:oid:2.16.840.1.114222.4.11.1066The Health Care Provider Taxonomy value set is a collection of unique alphanumeric codes, ten characters in length. The code set is structured into three distinct Levels including Provider Type, Classification, and Area of Specialization. The Health Care Provider Taxonomy code set allows a single provider (individual, group, or institution) to identify their specialty category. Providers may have one or more than one value associated to them. When determining what value or values to associate with a provider, the user needs to review the requirements of the trading partner with which the value(s) are being used.Value Set Source: <https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.1066> |
| Code | Code System | Code System OID | Print Name |
| ... |

Table 67: INDRoleclassCodes

|  |
| --- |
| Value Set: INDRoleclassCodes urn:oid:2.16.840.1.113883.11.20.9.33Value Set Source: <https://vsac.nlm.nih.gov/> |
| Code | Code System | Code System OID | Print Name |
| ... |

Table 68: x\_ServiceEventPerformer

|  |
| --- |
| Value Set: x\_ServiceEventPerformer urn:oid:2.16.840.1.113883.1.11.19601Value Set Source: <http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.html> |
| Code | Code System | Code System OID | Print Name |
| ... |

Table 69: ParticipationFunction

|  |
| --- |
| Value Set: ParticipationFunction urn:oid:2.16.840.1.113883.1.11.10267This HL7-defined value set can be used to specify the exact function an actor had in a service in all necessary detail.Value Set Source: <https://vsac.nlm.nih.gov/> |
| Code | Code System | Code System OID | Print Name |
| ... |

Table 70: Dental Frenum Region

|  |
| --- |
| Value Set: Dental Frenum Region 2.16.840.1.113883.10.20.99.4.6Section of the frenum is involved in the periodontal condition of the patient. |
| Code | Code System | Code System OID | Print Name |
| 277191003 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Lower Labial Frenum |
| 264488001 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Upper Labial Frenum |
| 303772001 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Upper Buccal Frenum |
| 418643001 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Lower Buccal Frenum |

Table 71: Gingival Attachment

|  |
| --- |
| Value Set: Gingival Attachment 2.16.840.1.113883.10.20.38.4.9 |
| Code | Code System | Code System OID | Print Name |
| 0mm | Units of Measure | http://unitsofmeasure.org | 0mm |
| 1mm | Units of Measure | http://unitsofmeasure.org | 1mm |
| 2mm | Units of Measure | http://unitsofmeasure.org | 2mm |
| 3mm | Units of Measure | http://unitsofmeasure.org | 3mm |
| 4mm | Units of Measure | http://unitsofmeasure.org | 4mm |
| 5mm | Units of Measure | http://unitsofmeasure.org | 5mm |
| 6mm | Units of Measure | http://unitsofmeasure.org | 6mm |
| 7mm | Units of Measure | http://unitsofmeasure.org | 7mm |
| 8mm | Units of Measure | http://unitsofmeasure.org | 8mm |
| 9mm | Units of Measure | http://unitsofmeasure.org | 9mm |
| 10mm | Units of Measure | http://unitsofmeasure.org | 10mm |
| >10mm | Units of Measure | http://unitsofmeasure.org | >10mm |

Table 72: Gingival Pocket Depth

|  |
| --- |
| Value Set: Gingival Pocket Depth 2.16.840.1.113883.10.20.99.4.1  |
| Code | Code System | Code System OID | Print Name |
| 0mm | Units of Measure | http://unitsofmeasure.org | 0mm |
| 1mm | Units of Measure | http://unitsofmeasure.org | 1mm |
| 2mm | Units of Measure | http://unitsofmeasure.org | 2mm |
| 3mm | Units of Measure | http://unitsofmeasure.org | 3mm |
| 4mm | Units of Measure | http://unitsofmeasure.org | 4mm |
| 5mm | Units of Measure | http://unitsofmeasure.org | 5mm |
| 6mm | Units of Measure | http://unitsofmeasure.org | 6mm |
| 7mm | Units of Measure | http://unitsofmeasure.org | 7mm |
| 8mm | Units of Measure | http://unitsofmeasure.org | 8mm |
| 9mm | Units of Measure | http://unitsofmeasure.org | 9mm |
| 10mm | Units of Measure | http://unitsofmeasure.org | 10mm |
| >10mm | Units of Measure | http://unitsofmeasure.org | >10mm |

Table 73: Dental Periodontal Probing Position

|  |
| --- |
| Value Set: Dental Periodontal Probing Position 2.16.840.1.113883.10.20.99.4.7The locations around a tooth where the gingivae is probed as part of a periodontal exam |
| Code | Code System | Code System OID | Print Name |
| 245665006 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Distal-buccal |
| 62579006 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Facial surface of tooth |
| 245662009 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Mesial-buccal |
| 245664005 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Mesial-lingual |
| 72203008 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Lingual surface of tooth |
| 245668008 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Distal-lingual |

Table 74: Gingival Recession

|  |
| --- |
| Value Set: Gingival Recession 2.16.840.1.113883.10.20.38.4.8 |
| Code | Code System | Code System OID | Print Name |
| 0mm | Units of Measure | http://unitsofmeasure.org | 0mm |
| 1mm | Units of Measure | http://unitsofmeasure.org | 1mm |
| 2mm | Units of Measure | http://unitsofmeasure.org | 2mm |
| 3mm | Units of Measure | http://unitsofmeasure.org | 3mm |
| 4mm | Units of Measure | http://unitsofmeasure.org | 4mm |
| 5mm | Units of Measure | http://unitsofmeasure.org | 5mm |
| 6mm | Units of Measure | http://unitsofmeasure.org | 6mm |
| 7mm | Units of Measure | http://unitsofmeasure.org | 7mm |
| 8mm | Units of Measure | http://unitsofmeasure.org | 8mm |
| 9mm | Units of Measure | http://unitsofmeasure.org | 9mm |
| 10mm | Units of Measure | http://unitsofmeasure.org | 10mm |
| >10mm | Units of Measure | http://unitsofmeasure.org | >10mm |

Table 75: Dental Tooth Furcation Grade Glickman Classification

|  |
| --- |
| Value Set: Dental Tooth Furcation Grade Glickman Classification 2.16.840.1.113883.10.20.99.4.4Glickman Classification for furcation of teeth as a result of periodontal disease |
| Code | Code System | Code System OID | Print Name |
| I | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | I |
| II | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | II |
| III | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | III |

Table 76: Dental Tooth Furcation Site

|  |
| --- |
| Value Set: Dental Tooth Furcation Site 2.16.840.1.113883.10.20.99.4.5 |
| Code | Code System | Code System OID | Print Name |
| 261062005 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Buccal |
| 261121002 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Lingual |
| 710099007 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Mesial |
| 46053002 | SNOMED CT | urn:oid:2.16.840.1.113883.6.96 | Distal |

Table 77: Dental Universal Numbering System

|  |
| --- |
| Value Set: Dental Universal Numbering System 2.16.840.1.113883.10.20.99.4.2Universal Numbering System for teeth. https://en.wikipedia.org/wiki/Universal\_Numbering\_System |
| Code | Code System | Code System OID | Print Name |
| 1 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 1 |
| 2 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 2 |
| 3 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 3 |
| 4 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 4 |
| 5 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 5 |
| 6 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 6 |
| 7 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 7 |
| 8 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 8 |
| 9 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 9 |
| 10 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 10 |
| 11 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 11 |
| 12 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 12 |
| 13 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 13 |
| 14 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 14 |
| 15 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 15 |
| 16 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 16 |
| 17 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 17 |
| 18 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 18 |
| 19 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 19 |
| 20 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 20 |
| 20 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 20 |
| 21 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 21 |
| 22 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 22 |
| 23 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 23 |
| 24 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 24 |
| 25 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 25 |
| 26 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 26 |
| 27 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 27 |
| 28 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 28 |
| 29 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 29 |
| 30 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 30 |
| 31 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 31 |
| 32 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 32 |
| A | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | A |
| B | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | B |
| C | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | C |
| D | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | D |
| E | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | E |
| F | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | F |
| G | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | G |
| H | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | H |
| I | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | I |
| J | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | J |
| K | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | K |
| 51 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 51 |
| 52 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 52 |
| 53 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 53 |
| 54 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 54 |
| 55 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 55 |
| 56 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 56 |
| 57 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 57 |
| 58 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 58 |
| 59 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 59 |
| 60 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 60 |
| 61 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 61 |
| 62 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 62 |
| 63 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 63 |
| 64 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 64 |
| 65 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 65 |
| 66 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 66 |
| 67 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 67 |
| 68 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 68 |
| 69 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 69 |
| 70 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 70 |
| 71 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 71 |
| 72 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 72 |
| 73 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 73 |
| 74 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 74 |
| 75 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 75 |
| 76 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 76 |
| 77 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 77 |
| 78 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 78 |
| 79 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 79 |
| 80 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 80 |
| 81 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 81 |
| 82 | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 82 |

Table 78: Dental Tooth Mobility Miller Classification

|  |
| --- |
| Value Set: Dental Tooth Mobility Miller Classification 2.16.840.1.113883.10.20.99.4.3Miller Classification for Tooth Mobility - measurements of 0mm-3mm in increments of 0.5mm |
| Code | Code System | Code System OID | Print Name |
| 0.0 mm | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 0.0 mm |
| 0.5 mm | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 0.5 mm |
| 1.0 mm | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 1.0 mm |
| 1.5 mm | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 1.5 mm |
| 2.0 mm | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 2.0 mm |
| 2.5 mm | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 2.5 mm |
| 3.0 mm | Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 | 3.0 mm |

Table 79: PostalAddressUse

|  |
| --- |
| Value Set: PostalAddressUse urn:oid:2.16.840.1.113883.1.11.10637A value set of HL7 Codes for address use.Value Set Source: <https://vsac.nlm.nih.gov/> |
| Code | Code System | Code System OID | Print Name |
| ... |

Table 80: StateValueSet

|  |
| --- |
| Value Set: StateValueSet urn:oid:2.16.840.1.113883.3.88.12.80.1Identifies addresses within the United States are recorded using the FIPS 5-2 two-letter alphabetic codes for the State, District of Columbia, or an outlying area of the United States or associated areaValue Set Source: <http://www.census.gov/geo/reference/ansi_statetables.html> |
| Code | Code System | Code System OID | Print Name |
| ... |

# Code Systems in This Guide

Table 81: Code Systems

| Name | OID |
| --- | --- |
| Country | urn:oid:2.16.840.1.113883.3.88.12.80.63 |
| FIPS 5-2 (State) | urn:oid:2.16.840.1.113883.6.92 |
| 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 |
| HL7AdministrativeGender | urn:oid:2.16.840.1.113883.5.1 |
| HL7Confidentiality | urn:oid:2.16.840.1.113883.5.25 |
| 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 |
| HL7Race | urn:oid:2.16.840.1.113883.5.104 |
| 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 |
| Language | urn:oid:2.16.840.1.113883.6.121 |
| LOINC | urn:oid:2.16.840.1.113883.6.1 |
| Race & Ethnicity - CDC | urn:oid:2.16.840.1.113883.6.238 |
| SNOMED CT | urn:oid:2.16.840.1.113883.6.96 |
| Units of Measure | http://unitsofmeasure.org |
| Unknown | urn:oid:2.16.840.1.113883.3.290.2.1.46 |
| USPostalCodes | urn:oid:2.16.840.1.113883.6.231 |