AHCCCS

Arizona Medical Information Exchange
Proof of Concept
AMIE

Message Specifications and Samples

January 14, 2009

Document Revision History

Date	Revisions	Version	Author
01/14/2009	Draft	1.0	Lupita Figueroa, System Analyst/AHCCCS
02/12/2009	Added appendix A. Complete list of LOINC codes supported by RLS for record type.	1.1	Lupita Figueroa
03/12/2009	Updated Appendix A to include standardized descriptions supported by AMIE and additional record types.	1.2	Lupita Figueroa

Introduction

This document contains detailed messaging specifications and samples for each of the 7 message types and 3 types of clinical records required to support the functional requirements of AMIE proof of concept.   The 7 message types and 3 types of clinical records are the following:

Message Types

1. Record Locator Service Publish Request
    o Emulator generates this type of message and sends it to record locator service to publish availability of a clinical record.
2. Record Locator Service Publish Response
    o Record Locator Service responds with this message type to Emulator with this message type to communicate whether the publish operation successfully completed.
3. Lookup Patient Request Specification
    o Viewer generates this message type to look for a patient in the master patient index.
4. Lookup Patient Response Specification
    o Record locator service responds with this message type to viewer with a list of matching patient records.
5. Lookup Patient Record Request Specification
    o Viewer generates this message type to request for a list of records available for viewing for specific patients.
6. Lookup Patient Record Response Specification
    o Record Locator Service responds with this message type to supply viewer with a list of records available for viewing.
7. Retrieve Record Request Specification
    o Viewer generates this type of message to retrieve a set of records

Retrieve Record Responses (Same as Clinical Records)

There are 3 types of clinical records. Below is the set of clinical records that the Emulator may return to viewer upon viewer request and availability of records.

1. Lab Result
    a. Sonora Quest Lab Results
2. Discharge Summary,

a. Banner Health Discharge Summary
b. Saint Joseph's Hospital and Medical Center (SJHMC) Discharge Summary
c. Maricopa Integrated Hospital System (MIHS) Discharge Summary
3. Medication History
a. Managed Care Pharmacy Consultants (MCPC) Medication History

The message structure and the majority of the terminology and code systems were taken and/or derived from the following standards:
- HL7 Version 3 Messaging Standard implementation guide
- Clinical Document Architecture (CDA) implementation guide
- Continuity of Care Document (CCD) implementation guide

Please refer to the above documents for any code system or terminology definition not found on this specification, but part of the message specification.

AMIE Code systems Identification and Value Sets

Code system OIDs used in AMIE Message Specifications

AMIE message specifications utilize internal and external code systems for vocabulary, identifications systems, and message types.   Each code system is identified by an OID.   This is not an exhaustive list of all OIDs used in message specifications.   For other OIDs used in the message specification, refer to the HL7 Continuity of Care Document and HL7 Clinical Document Architecture (CDA) Implementation Guides.

Code System Name	Codesystem ID	AssigningAuthority Name	Internal?
Data Partner Type	2.16.840.1.113883.11.19465	NUCC	No
NPI	2.16.840.1.113883.4.6	HL7	No
Record Type (LOINC Document Codes)	2.16.840.1.113883.6.1	LOINC	No
AHCCCS ID	2.16.840.1.113883.4.275	AHCCCS	Yes
MRN	2.16.840.1.113883.4.275.4.1	MRN Provider	Yes
Insurance ID	2.16.840.1.113883.4.275.4.2	Health Plan	Yes
LAST 4 SSN	2.16.840.1.113883.4.275.4.3	SSA	Yes
AMIE Provider ID	2.16.840.1.113883.4.275.4.6	AMIE	Yes
DEA	2.16.840.1.113883.4.275.4.7	AMIE	Yes
AMIE Search Index	2.16.840.1.113883.4.275.4.8	AMIE	Yes
RIS Publish Action Type	2.16.840.1.113883.4.275.4.10	AMIE	Yes
Patient Consent	2.16.840.1.113883.4.275.4.11	AMIE	Yes
Multiple Birth	2.16.840.1.113883.4.275.4.12	AMIE	Yes

Identification convention for Organizations, Gateways, and Source Systems using OIDs

Organization ID (May be assigned by HL7 upon request)

Each organization must have a unique id for their organization in the form of an OID. All data provider organizations should register an OID with HL7 for their organization. (e.g. AMIE organization OID is 1.16.840.1.113883.3.138).

Gateway ID (Assigned by AMIE)

Gateway ID will be generated and assigned by AMIE in the form of an OID. This OID will be derived from AMIE organization ID. Each new gateway ID will be derived by concatenating AMIE organization ID, number 3 and a gateway ID index. The gateway id index will be increased by 1 unit for each new gateway deployed.

Gateway ID = 2.16.840.1.113883.3.138. + 3 + {gateway id index} (e.g. Gateway ID=2.16.840.1.113883.3.138.3.1)

Source system ID (Assigned by AMIE based on Organization ID)

Source System ID will be generated and assigned by AMIE in the form of an OID. This OID will be derived from the data provider organization ID. Each new Source System ID will be derived by concatenating the data provider organization ID, number 1 and Source System ID index. The Source System id index will be increased by 1 unit for each new Source System.

Source System ID = 2.16.840.1.113883.3.154. + 1 + {Source System id index} (e.g. Source System ID=2.16.840.1.113883.3.154.1.1)

Organization	Organization ID	Gateway Name	Gateway ID	Source System Name	Source System IDs
AHCCCS OIDs					
AHCCCS	2.16.840.1.113883.3.138	AMIE Gateway	2.16.840.1.113883.3.138.3.1	PMMIS	2.16.840.1.113883.3.138.1.1
AHCCCS	2.16.840.1.113883.3.138	AMIE Gateway	2.16.840.1.113883.3.138.3.1	AHCCCS Decision Support	2.16.840.1.113883.3.138.1.2
AMIE	2.16.840.1.113883.3.138	AMIE Gateway	2.16.840.1.113883.3.138.3.1	AMIE Viewer	2.16.840.1.113883.3.138.1.3
AMIE	2.16.840.1.113883.3.138	AMIE Gateway	2.16.840.1.113883.3.138.3.1	AMIE Directory Services (HIE)	2.16.840.1.113883.3.138.1.4
AMIE	2.16.840.1.113883.3.138	AMIE Gateway	2.16.840.1.113883.3.138.3.2	AMIE Emulator	2.16.840.1.113883.3.138.1.5
AMIE	2.16.840.1.113883.3.138	AMIE Gateway	2.16.840.1.113883.3.138.3.1	AMIE HIE Admin	2.16.840.1.113883.3.138.1.6
AMIE	2.16.840.1.113883.3.138	AMIE Gateway	2.16.840.1.113883.3.138.3.1	AMIE Consent Management	2.16.840.1.113883.3.138.1.7
DATA PARTNER OIDs (PRODUCTION)					
MIHS	2.16.840.1.113883.3.154	MIHS Production Gateway	2.16.840.1.113883.3.138.3.3	MIHS Production Emulator	2.16.840.1.113883.3.154.1.1
SonoraQuest	2.16.840.1.113883.3.174	SonoraQuest Production Gateway	2.16.840.1.113883.3.138.3.4	Sonora Quest Production Emulator	2.16.840.1.113883.3.174.1.1
CHW	2.16.840.1.113883.3.181	CHW Production Gateway	2.16.840.1.113883.3.138.3.5	CHW Production Emulator	2.16.840.1.113883.3.181.1.1
Banner Heart Hospital	2.16.840.1.114222.4.1.4844	Banner Production Gateway	2.16.840.1.113883.3.138.3.6	Banner Production Emulator	2.16.840.1.114222.4.1.4824.1.1
Banner Baywood Medical Center	2.16.840.1.114222.4.1.4828	Banner Production Gateway	2.16.840.1.113883.3.138.3.6	Banner Production Emulator	2.16.840.1.114222.4.1.4824.1.1
Banner Gateway Medical Center	2.16.840.1.114222.4.1.213015	Banner Production Gateway	2.16.840.1.113883.3.138.3.6	Banner Production Emulator	2.16.840.1.114222.4.1.4824.1.1
Banner Desert Medical Center	2.16.840.1.114222.4.1.4825	Banner Production Gateway	2.16.840.1.113883.3.138.3.6	Banner Production Emulator	2.16.840.1.114222.4.1.4824.1.1
Page Community Hospital	2.16.840.1.114222.4.1.4832	Banner Production Gateway	2.16.840.1.113883.3.138.3.6	Banner Production Emulator	2.16.840.1.114222.4.1.4824.1.1
Banner Estrella Medical Center	2.16.840.1.114222.4.1.4830	Banner Production Gateway	2.16.840.1.113883.3.138.3.6	Banner Production Emulator	2.16.840.1.114222.4.1.4824.1.1
AHCCS HIE RX Vendor	2.16.840.1.113883.3.182	RX Vendor Production Gateway	2.16.840.1.113883.3.138.3.7	Rx Vendor Production Source System	2.16.840.1.113883.3.182.1.1
Phoenix Children's Hospital	2.16.840.1.113883.4.352	PCH Production Gateway	2.16.840.1.113883.3.138.3.14	PCH Production Soruce System	2.16.840.1.113883.4.352.1.1
DATA PARTNER OIDs (TESTING)					
MIHS	2.16.840.1.113883.3.154	MIHS Testing Gateway	2.16.840.1.113883.3.138.3.8	MIHS Testing Emulator	2.16.840.1.113883.3.154.1.2
SonoraQuest	2.16.840.1.113883.3.174	SonoraQuest Testing Gateway	2.16.840.1.113883.3.138.3.9	Sonora Quest Testing Emulator	2.16.840.1.113883.3.174.1.2
CHW	2.16.840.1.113883.3.181	CHW Testing Gateway	2.16.840.1.113883.3.138.3.10	CHW Testing Emulator	2.16.840.1.113883.3.181.1.2
Banner Heart Hospital	2.16.840.1.114222.4.1.4844	Banner Testing Gateway	2.16.840.1.113883.3.138.3.11	Banner Testing Emulator	2.16.840.1.114222.4.1.4824.1.2
Banner Baywood Medical Center	2.16.840.1.114222.4.1.4828	Banner Testing Gateway	2.16.840.1.113883.3.138.3.11	Banner Testing Emulator	2.16.840.1.114222.4.1.4824.1.2
Banner Gateway Medical Center	2.16.840.1.114222.4.1.213015	Banner Testing Gateway	2.16.840.1.113883.3.138.3.11	Banner Testing Emulator	2.16.840.1.114222.4.1.4824.1.2
Banner Desert Medical Center	2.16.840.1.114222.4.1.4825	Banner Testing Gateway	2.16.840.1.113883.3.138.3.11	Banner Testing Emulator	2.16.840.1.114222.4.1.4824.1.2
Page Community Hospital	2.16.840.1.114222.4.1.4832	Banner Testing Gateway	2.16.840.1.113883.3.138.3.11	Banner Testing Emulator	2.16.840.1.114222.4.1.4824.1.2
Banner Estrella Medical Center	2.16.840.1.114222.4.1.4830	Banner Testing Gateway	2.16.840.1.113883.3.138.3.11	Banner Testing Emulator	2.16.840.1.114222.4.1.4824.1.2
AHCCS HIE RX Vendor	2.16.840.1.113883.3.182	RX Vendor Testing Gateway	2.16.840.1.113883.3.138.3.12	Rx Vendor Testing Source System	2.16.840.1.113883.3.182.1.2
Phoenix Children's Hospital	2.16.840.1.113883.4.352	PCH Testing Gateway	2.16.840.1.113883.3.138.3.15	PCH Testing Source System	2.16.840.1.113883.4.352.1.2

Code System Value Sets

Data Partner Type Code System Value Set

These are valid values for data partner type code system based on NUCC code system 2.16.840.1.113883.11.19465. Data partner organizations shall be classified using the NUCC code system with identification.

Code Value	displayName
291U00000X	Lab Services
282N00000X	Acute Care Facility
251K00000X	Registry
3336M0003X	Rx Manager
3336C0003X	Retail Pharmacies

Record Type Code System Value Set

These values are a subset for all record types as defined by LOINC code system 2.16.840.1.113883.6.1.   For a complete list, see appendix A.

Code Value	Name
10160-0	Med History
26436-6	Lab Result
42348-3	Advanced Directive
34105-7	Discharge Summary

Publish Action Types Value Set

These are all the valid values for Publish Action Type Code System (2.16.840.1.113883.4.275.4.10).

Code Value	Description
NEW	New Publish
UPDATE	Update a published record
DELETE	Logical Delete of published record

Publish Result Code Value Set

Publish Result Code Value Set (2.16.840.1.113883.4.275.4.13)
Set to "SUCCCESS", if published was successful
Set to "FAILURE", if published failed

Consent Codes Value Set

Consent Codes are either "true" for opt-in or "false" for opt-out.   These are valid values for code system 2.16.840.1.113883.4.275.4.11.

Multiple Birth Valid Value Set

Multiple Birth valid values are either "true" for multiple birth patients (e.g. twins), otherwise is "false".   These are valid values for code system 2.16.840.1.113883.4.275.4.12.

AMIE Message Specifications

The following message types encompass all the types of messages supported by the AMIE application interfaces. These application interfaces include the include Viewer interface, RLS interface, Emulator Interfaces.

Record Locator Service Publish Request Specification

Record Locator Service Publish Response Specification

Lookup Patient Request Specification

Lookup Patient Response Specification

Lookup Patient Record Request Specification

Lookup Patient Record Response Specification

Retrieve Record Request Specification

Retrieve Record Response Specifications

Sonora Quest Lab Results Specification

This data map contains the data elements definition and data source in the HL7 2.X ORU message for the data elements in the XML samples.

Banner Discharge Summary Specification

This data map contains the data elements definition and data source in the HL7 2.X MDM message for the data elements in the XML samples.

SJHMC Discharge Summary Specification

This data map contains the data elements definition and data source in the HL7 2.X MDM message for the data elements in the XML samples.

MIHS Discharge Summary Specification

This data map contains the data elements definition and data source in the HL7 2.X MDM message for the data elements in the XML samples.

This data map contains the data elements definition and data source in the medication history source file for the data elements in the XML samples.

AMIE Message XML Samples

Record Locator Service Publish Request Sample

This sample shows how a publish message may look when publishing a discharge summary.

```xml
<?xml version="1.0" encoding="utf-8"?>
<ClinicalDocument xmlns="urn:hl7-org:v3" xmlns:mif="urn:hl7-org:v3/mif" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:hl7-org:v3 Schemas/CDA.xsd">
   <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040"/>
   <templateId root="2.16.840.1.113883.10.20.1"/>
   <id root="aff93fed-9c98-4e7d-9de3-00b7f63e876c"/>
   <code code="34133-9" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Summarization of
Episode note" />
   <title>Patient Record Publish Request</title>
   <effectiveTime value="20071220090300-0700"/>
   <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25" />
   <languageCode code="en-US"/>
   <recordTarget>
     <patientRole>
       <!-- root=Source System ID, extension=Source System Extension, MANDATORY -->
       <id extension="123456" root="2.16.840.1.113883.3.138.2.1" assigningAuthorityName="MRN"/>
       <!-- root=AHCCCS, extension=AHCCCID, OPTIONAL -->
       <id extension="A11400663" root="2.16.840.1.113883.4.275" assigningAuthorityName="AHCCCSID" />
       <!-- root=AHCCCS, extension=InsuranceId, OPTIONAL -->
       <id extension="8954864893" root="2.16.840.1.113883.4.275.4.2" assigningAuthorityName="INSURANCE" />
       <!-- root=AHCCCS, extension=SSN, OPTIONAL-->
       <id extension="1197" root="2.16.840.1.113883.4.275.4.3" assigningAuthorityName="LAST4SSN" />
       <!-- root=AHCCCS, extension=Multiple Births?, OPTIONAL-->
       <id extension="false" root="2.16.840.1.113883.4.275.4.12" assigningAuthorityName="MULTIPLE_BIRTH" />
       <addr>
         <!-- Patient Address, OPTIONAL -->
         <streetAddressLine>721 N Central Ave</streetAddressLine>
         <!-- Patient Address Line 2, OPTIONAL-->
         <streetAddressLine>Suite B</streetAddressLine>
         <!-- Patient City, OPTIONAL-->
         <city>Phoenix</city>
         <!-- Patient State, OPTIONAL-->
         <state>AZ</state>
         <!-- Patient ZIP, MANDATORY-->
         <postalCode>85007</postalCode>
       </addr>
       <patient>
         <name>
           <!-- Patient Prefix, OPTIONAL-->
```

```xml
            <prefix>Dr.</prefix>
            <!-- Patient First Name, MANDATORY-->
            <given>Anthony</given>
            <!-- Patient Middle Initial, OPTIONAL-->
            <given qualifier="IN">W</given>
            <!-- Patient Last Name, MANDATORY-->
            <family>Christianson</family>
            <!-- Patient Suffix, OPTIONAL-->
            <suffix>Jr</suffix>
         </name>
         <!-- Patient Gender, MANDATORY-->
         <administrativeGenderCode code="M" codeSystem="2.16.840.1.113883.5.1" />
         <!-- Patient Birthdate, MANDATORY-->
         <birthTime value="19720428"/>
      </patient>
      <providerOrganization>
         <!-- Source System ID, MANDATORY-->
         <id root="2.16.840.1.113883.3.138.2.1"/>
         <!--Source System Name, MANDATORY-->
         <name>Source System Name</name>
      </providerOrganization>
   </patientRole>
</recordTarget>
<author>
   <time value="20071226154039-0700"/>
   <assignedAuthor>
      <!-- Gateway OID, MANDATORY -->
      <id root="2.16.840.1.113883.3.138.3.3" />
      <representedOrganization>
         <!-- Organization OID, MANDATORY-->
         <id root="2.16.840.1.113883.3.138.2" />
         <!-- Organization Name, MANDATORY-->
         <name>Organization Name</name>
         <addr>
            <!-- Organization City, MANDATORY-->
            <city>Organization City</city>
            <!-- Organization State, MANDATORY-->
            <state>Organization State</state>
            <!-- Organization ZIP Code, MANDATORY-->
            <postalCode>Oganization Postal Code</postalCode>
         </addr>
      </representedOrganization>
   </assignedAuthor>
</author>
<custodian>
   <assignedCustodian>
      <representedCustodianOrganization>
         <!-- Organization OID, MANDATORY-->
         <id root="2.16.840.1.113883.3.138.2"/>
         <!-- Organization Name, OPTIONAL-->
         <name>Organization Name</name>
      </representedCustodianOrganization>
   </assignedCustodian>
</custodian>
<documentationOf>
   <serviceEvent classCode="PCPR">
      <effectiveTime>
```

```xml
            <low value="19800101"/>
            <high value="20071220"/>
          </effectiveTime>
        </serviceEvent>
      </documentationOf>
      <authorization>
        <consent>
          <!-- OPT OUT? -->
          <code code="false" codeSystem="2.16.840.1.113883.4.275.4.11" codeSystemName="CONSENT_CODES"/>
          <statusCode code="completed"/>
        </consent>
      </authorization>
      <component>
        <structuredBody>
          <component>
            <section>
              <!-- Purpose Section Template-->
              <templateId root="2.16.840.1.113883.10.20.1.13"/>
              <code code="48764-5" codeSystem="2.16.840.1.113883.6.1" displayName="Summary purpose"/>
              <title>purpose</title>
              <text>Purpose Section</text>
              <entry typeCode="DRIV">
                <act classCode="ACT" moodCode="EVN">
                  <!-- Purpose activity template -->
                  <templateId root="2.16.840.1.113883.10.20.1.30"/>
                  <code code="23745001" codeSystem="2.16.840.1.113883.6.96" displayName="Documentation procedure"/>
                  <statusCode code="completed"/>
                  <entryRelationship typeCode="RSON">
                    <act classCode="ACT" moodCode="RQO">
                        <!--PUBLISH ACTION TYPE    (VALID VALUES ARE NEW, UPDATE, DELETE OR REPUDIATE),
                            MANDATORY-->
                      <code code="NEW" codeSystem="2.16.840.1.113883.4.275.4.10" displayName="PUBLISH_ACTION_TYPES"
/>
                        <statusCode code="active"/>
                    </act>
                  </entryRelationship>
                </act>
              </entry>
            </section>
          </component>
          <component>
            <section>
              <!--Encounters Section Template-->
              <templateId root="2.16.840.1.113883.10.20.1.3"/>
              <!-- root=Source System ID, extension=Source System Extension, MANDATORY -->
              <id extension="123456" root="2.16.840.1.113883.3.138.2.1" assigningAuthorityName="MRN"/>
              <code code="46240-8" codeSystem="2.16.840.1.113883.6.1" displayName="History of encounters" />
              <title>encounters</title>
              <text>encounters</text>
              <!-- Discharge Summary -->
              <entry typeCode="DRIV">
                <encounter classCode="ENC" moodCode="EVN">
                  <!--Encounter activity Template-->
                  <templateId root="2.16.840.1.113883.10.20.1.21"/>
                  <!-- Encounter Id, MANDATORY -->
                  <id extension="123456" root="2.16.840.1.113883.4.275.4.14" assigningAuthorityName="ACTIVITYID"/>
                  <!-- Encounter Type, MANDATORY-->
```

```xml
          <code code="34105-7" codeSystem="2.16.840.1.113883.6.1" displayName="Discharge summarization note">
             <!-- Encounter Descriptor, MANDATORY -->
             <originalText>Discharge Summary</originalText>
          </code>
          <!-- Encounter Time, MANDATORY -->
          <effectiveTime value="20070401" />
        </encounter>
      </entry>
    </section>
  </component>
 </structuredBody>
 </component>
</ClinicalDocument>
```

Record Locator Service Publish Response Sample

This is a sample for a publish response that notifies Emulator that the publish operation successfully completed.

```xml
<?xml version="1.0" encoding="utf-8"?>
<ClinicalDocument xmlns="urn:hl7-org:v3" xmlns:mif="urn:hl7-org:v3/mif" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:hl7-org:v3 Schemas/CDA.xsd">
   <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040"/>
   <templateId root="2.16.840.1.113883.10.20.1"/>
   <id root="aff93fed-9c98-4e7d-9de3-00b7f63e876c"/>
   <code code="34133-9" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Summarization of
Episode note" />
   <title>Patient Record Publish Response</title>
   <effectiveTime value="20071220090300-0700"/>
   <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25" />
   <languageCode code="en-US"/>
   <recordTarget>
     <patientRole>
        <!-- root=Source System ID, extension=Source System Extension, MANDATORY -->
        <id extension="123456" root="2.16.840.1.113883.3.138.2.1" assigningAuthorityName="MRN"/>
        <addr>
           <!-- Patient ZIP, MANDATORY-->
           <postalCode>85007</postalCode>
        </addr>
        <patient>
           <name>
              <!-- Patient First Name, MANDATORY-->
              <given>Anthony</given>
              <!-- Patient Last Name, MANDATORY-->
              <family>Christianson</family>
           </name>
           <!-- Patient Gender, MANDATORY-->
           <administrativeGenderCode code="M" codeSystem="2.16.840.1.113883.5.1" />
           <!-- Patient Birthdate, MANDATORY-->
           <birthTime value="19720428"/>
        </patient>
        <providerOrganization>
           <!-- Source System ID, MANDATORY-->
           <id root="2.16.840.1.113883.3.138.2.1"/>
```

```xml
        <!--Source System Name, MANDATORY-->
        <name>Source System Name</name>
      </providerOrganization>
    </patientRole>
</recordTarget>
<author>
    <time value="20071226154039-0700"/>
    <assignedAuthor>
      <!-- Gateway OID, MANDATORY -->
      <id root="2.16.840.1.113883.19.5" />
      <representedOrganization>
        <!-- Organization OID, MANDATORY-->
        <id root="2.16.840.1.113883.3.138.2" />
        <!-- Organization Name, MANDATORY-->
      </representedOrganization>
    </assignedAuthor>
</author>
<custodian>
    <assignedCustodian>
      <representedCustodianOrganization>
        <!-- Organization OID, MANDATORY-->
        <id root="2.16.840.1.113883.3.138.2"/>
      </representedCustodianOrganization>
    </assignedCustodian>
</custodian>
<documentationOf>
    <serviceEvent classCode="PCPR">
      <effectiveTime>
        <low value="19800101"/>
        <high value="20071220"/>
      </effectiveTime>
    </serviceEvent>
</documentationOf>
<authorization>
    <consent>
      <!-- OPT OUT? -->
      <code code="false" codeSystem="2.16.840.1.113883.4.275.4.11" codeSystemName="CONSENT_CODES"/>
      <statusCode code="completed"/>
    </consent>
</authorization>
<component>
    <structuredBody>
      <component>
        <section>
          <!-- Purpose Section Template-->
          <templateId root="2.16.840.1.113883.10.20.1.13"/>
          <code code="48764-5" codeSystem="2.16.840.1.113883.6.1" displayName="Summary purpose"/>
          <title>purpose</title>
          <text>Purpose Section</text>
          <entry typeCode="DRIV">
            <act classCode="ACT" moodCode="EVN">
              <!-- Purpose activity template -->
              <templateId root="2.16.840.1.113883.10.20.1.30"/>
              <code code="23745001" codeSystem="2.16.840.1.113883.6.96" displayName="Documentation procedure"/>
              <statusCode code="completed"/>
              <entryRelationship typeCode="RSON">
                <act classCode="ACT" moodCode="RQO">
```

```xml
                <!--PUBLISH RESULT (VALID VALUES ARE "FAILURE" OR "SUCCESSFUL"), MANDATORY-->
                    <code code="SUCCESSFUL" codeSystem="2.16.840.1.113883.4.275.4.13"
                        codeSystemName="PUBLISH_RESULT"></code>
                    <statusCode code="completed"/>
                </act>
            </entryRelationship>
        </act>
    </entry>
  </section>
 </component>
  </structuredBody>
 </component>
</ClinicalDocument>
```

Lookup Patient Request Sample

This is a sample for a patient search for Jim D. Jones, Male Born in 08/04/1963

```xml
<?xml version="1.0" encoding="UTF-8"?>
<PRPA_IN201305UV xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xsi:schemaLocation="urn:hl7-org:v3 multicacheschemas/PRPA_IN201305UV.xsd"
 xmlns="urn:hl7-org:v3"
 ITSVersion="XML_1.0">
    <id extension="MESSAGEID" root="2.16.840.1.113883.4.275.4.9"/>
    <creationTime value="20070428150301-0700"/>
    <interactionId root="2.16.840.1.113883.1.6" extension="PRPA_IN201305UV"/>
    <processingCode code="P"/>
    <processingModeCode code="T"/>
    <acceptAckCode code="ER"/>
    <receiver typeCode="RCV">
        <device classCode="DEV" determinerCode="INSTANCE">
                    <!--Directory Services Source System ID-->
            <id root="2.16.840.1.113883.4.275.3.138.4"/>
            <!--web service to be called and for which this message is going to be used as parameter-->
            <softwareName>AHCCCS HIE Directory Services</softwareName>
            <asAgent classCode="AGNT">
                    <representedOrganization classCode="ORG" determinerCode="INSTANCE">
                        <id   root="2.16.840.1.113883.3.138"/>
                        <name>AHCCCS</name>
                    </representedOrganization>
            </asAgent>
        </device>
    </receiver>
    <sender typeCode="SND">
        <device classCode="DEV" determinerCode="INSTANCE">
            <id root="2.16.840.1.113883.3.138.3"/>
            <softwareName>AHCCCS Viewer</softwareName>
            <asAgent classCode="AGNT">
                    <representedOrganization classCode="ORG" determinerCode="INSTANCE">
                        <id   root="2.16.840.1.113883.3.138"/>
                        <name>AHCCCS</name>
                    </representedOrganization>
            </asAgent>
        </device>
```

```xml
</sender>
<controlActProcess moodCode="RQO">
    <code code="PRPA_TE201305UV" codeSystem="2.16.840.1.113883.1.6"/>
        <languageCode code="en-US"/>
        <authorOrPerformer typeCode="PRF">
                <assignedPerson classCode="ASSIGNED">
                <id extension="2333333" root="2.16.840.1.113883.3.138.3" assigningAuthorityName="VIEWER USER ID"/>
                 <assignedPerson determinerCode="INSTANCE" classCode="PSN">
                                <name>
                                        <given>Maria</given>
                                        <given qualifier="IN">D</given>
                                        <family>Garcia</family>
                                </name>
                        </assignedPerson>
                </assignedPerson>
        </authorOrPerformer>
    <queryByParameter>
        <queryId nullFlavor="NI"/>
        <statusCode code="new"/>
        <initialQuantity value="1000"/>
        <matchCriterionList>
            <minimumDegreeMatch>
                <value xsi:type="INT" value="100"/>
                <semanticsText>Degree of match requested</semanticsText>
            </minimumDegreeMatch>
        </matchCriterionList>
        <parameterList>
            <!--Gender-->
            <livingSubjectAdministrativeGender>
                <value code="M"/>
                <semanticsText>LivingSubject.administrativeGender</semanticsText>
            </livingSubjectAdministrativeGender>
            <!--Date of Birth-->
            <livingSubjectBirthTime>
                <value value="19630804"/>
                <semanticsText>LivingSubject.birthTime</semanticsText>
            </livingSubjectBirthTime>
            <livingSubjectId>
                                <value extension="AHCCCS ID" root="2.16.840.1.113883.4.275"/>
                                <semanticsText>LivingSubject.id</semanticsText>
                        </livingSubjectId>
            <livingSubjectId>
                                <value extension="MRN" root="2.16.840.1.113883.4.275.4.1"/>
                                <semanticsText>LivingSubject.id</semanticsText>
                        </livingSubjectId>
            <livingSubjectId>
                                <value extension="INSURANCE ID" root="2.16.840.1.113883.4.275.4.2"/>
                                <semanticsText>LivingSubject.id</semanticsText>
                        </livingSubjectId>
            <livingSubjectId>
                                <value extension="LAST4SSN" root="2.16.840.1.113883.4.275.4.3"/>
                                <semanticsText>LivingSubject.id</semanticsText>
                        </livingSubjectId>
          <livingSubjectName>
                <value>
                                        <!--First Name-->
                    <given>Jimmy</given>
```

```xml
                    <!--Middle Name-->
                    <given qualifier="IN">D</given>
                <!--   Last Name-->
                    <family>Jones</family>
                </value>
                <semanticsText>LivingSubject.name</semanticsText>
            </livingSubjectName>
            <!--Address -->
            <patientAddress>
                            <value>
                                <streetAddressLine>1099 E Main St</streetAddressLine>
                                <streetAddressLine>Unit 12</streetAddressLine>
                                <city>Phoenix</city>
                                <state>AZ</state>
                                <!--ZipCode-->
                                <postalCode>85044</postalCode>
                            </value>
                                <semanticsText>Patient.addr</semanticsText>
                </patientAddress>
            </parameterList>
        </queryByParameter>
    </controlActProcess>
</PRPA_IN201305UV>
```

Lookup Patient Response Sample

This sample is for a message generated by RLS to return a list of matching patients. In this sample only two patients were returned.

```xml
<?xml version="1.0" encoding="UTF-8"?>
<PRPA_IN201306UV xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="urn:hl7-org:v3 multicacheschemas/PRPA_IN201306UV.xsd"
    xmlns="urn:hl7-org:v3" ITSVersion="XML_1.0">
    <id root="2.16.840.1.113883.4.275.4.9" extension="MESSAGEID"/>
    <creationTime value="20070428150302-0700"/>
    <interactionId root="2.16.840.1.113883.1.6" extension="PRPA_IN201306UV"/>
    <processingCode code="P"/>
    <processingModeCode code="T"/>
    <acceptAckCode code="NE"/>
    <receiver typeCode="RCV">
        <device classCode="DEV" determinerCode="INSTANCE">
            <id root="2.16.840.1.113883.3.138.3"/>
            <softwareName>AHCCCS Viewer</softwareName>
            <asAgent classCode="AGNT">
                            <representedOrganization determinerCode="INSTANCE" classCode="ORG">
                                <id   root="2.16.840.1.113883.3.138"/>
                                <name>AHCCCS</name>
                            </representedOrganization>
            </asAgent>
        </device>
    </receiver>
    <sender typeCode="SND">
        <device classCode="DEV" determinerCode="INSTANCE">
```

```xml
                        <!–Source System Code system-->
        <id root="2.16.840.1.113883.3.138.4"/>
        <telecom value="http://svhiedev04/NHIN/Directory/DirectoryPatientSearchService.asmx"/>
        <!--web service to be called and for which this message is going to be used as parameter-->
        <softwareName>AHCCCS HIE Directory Services</softwareName>
        <asAgent classCode="AGNT">
                        <representedOrganization classCode="ORG" determinerCode="INSTANCE">
                                <id    root="2.16.840.1.113883.3.138"/>
                                <name>AHCCCS</name>
                        </representedOrganization>
        </asAgent>
    </device>
</sender>
<controlActProcess moodCode="EVN">
    <code code="PRPA_TE201306UV" codeSystem="2.16.840.1.113883.1.6"/>
    <subject typeCode="SUBJ">
        <registrationEvent>
            <id nullFlavor="NA"/>
            <statusCode code="active"/>
            <!–START OF PATIENT ONE INFORMATION-->
            <subject1>
                <patient classCode="PAT">
                    <id root="2.16.840.1.113883.4.275" extension="A23456897" assigningAuthorityName="AHCCCS"/>
                                <id root="2.16.840.1.113883.4.275.4.3" extension="9900"
                                assigningAuthorityName="LAST4SSN"/>
                                <id root="2.16.840.1.113883.4.275.4.8" extension="1234"
                                assigningAuthorityName="AHCCCS_SEARCH_INDEX"/>
                    <statusCode code="active"/>
                    <patientPerson>
                        <name>
                            <given>James</given>
                            <given qualifier="IN">D</given>
                            <family>Jones</family>
                        </name>
                        <administrativeGenderCode code="M"/>
                        <birthTime value="19630804"/>
                        <addr>
                            <streetAddressLine>3443 North Arctic Avenue</streetAddressLine>
                            <streetAddressLine>Unit 12</streetAddressLine>
                            <city>Phoenix</city>
                            <state>AZ</state>
                            <postalCode>85044</postalCode>
                        </addr>
                    </patientPerson>
                    <subjectOf1>
                        <queryMatchObservation>
                            <code code="IHE_PDQ"/>
                            <value xsi:type="INT" value="92"/>
                        </queryMatchObservation>
                    </subjectOf1>
                </patient>
                <queryByParameter>
                                <queryId nullFlavor="NI"/>
                                <statusCode code="new"/>
                                <initialQuantity value="1000"/>
                                <parameterList nullFlavor="NI"/>
                </queryByParameter>
```

```xml
        </subject1>
        <custodian typeCode="CST">
         <assignedEntity classCode="ASSIGNED">
                <id root="2.16.840.1.113883.3.138"/>
           </assignedEntity>
        </custodian>
     </registrationEvent>
  </subject>
<subject typeCode="SUBJ">
     <registrationEvent>
        <id nullFlavor="NA"/>
        <statusCode code="active"/>
          <!--START OF PATIENT TWO IINFORMATION-->
        <subject1>
           <patient classCode="PAT">
             <id root="2.16.840.1.113883.4.275" extension="A23456897" assigningAuthorityName="AHCCCS"/>
                           <id root="2.16.840.1.113883.4.275.4.3" extension="9900"
                           assigningAuthorityName="LAST4SSN"/>
                           <id root="2.16.840.1.113883.4.275.4.8" extension="1234"
                           assigningAuthorityName="AHCCCS_SEARCH_INDEX"/>
             <statusCode code="active"/>
             <patientPerson>
                <name>
                    <given>Jim</given>
                    <given qualifier="IN">D</given>
                    <family>Jones</family>
                </name>
                <administrativeGenderCode code="M"/>
                <birthTime value="19630804"/>
                <addr>
                    <streetAddressLine>3443 North Arctic Avenue</streetAddressLine>
                    <streetAddressLine>Unit 12</streetAddressLine>
                    <city>Phoenix</city>
                    <state>AZ</state>
                    <postalCode>85044</postalCode>
                </addr>
             </patientPerson>
             <subjectOf1>
                <queryMatchObservation>
                    <code code="IHE_PDQ"/>
                    <value xsi:type="INT" value="92"/>
                </queryMatchObservation>
             </subjectOf1>
           </patient>
           <queryByParameter>
                           <queryId nullFlavor="NI"/>
                           <statusCode code="new"/>
                           <initialQuantity value="1000"/>
                           <parameterList nullFlavor="NI"/>
           </queryByParameter>
        </subject1>
        <custodian typeCode="CST">
         <assignedEntity classCode="ASSIGNED">
                <id root="2.16.840.1.113883.3.138"/>
           </assignedEntity>
        </custodian>
     </registrationEvent>
```

```
        </subject>
        <queryAck>
            <queryId nullFlavor="NI"/>
            <queryResponseCode code="OK"/>
            <resultTotalQuantity value="2"/>
            <resultCurrentQuantity value="2"/>
            <resultRemainingQuantity value="0"/>
        </queryAck>
    </controlActProcess>
</PRPA_IN201306UV>
```

Lookup Patient Record Request Sample

This sample shows a message used by viewer to query for available records available for a specific patient.

```
<?xml version="1.0"?>
<?xml-stylesheet type="text/xsl" href="Schemas/CCD.xsl"?>
<!-- The following sample document depicts a fictional character's health summary. Any resemblance to a real person is coincidental.
-->
<ClinicalDocument xmlns="urn:hl7-org:v3" xmlns:voc="urn:hl7-org:v3/voc" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xsi:schemaLocation="urn:hl7-org:v3 Schemas/CDA.xsd">
        <!--
*******************************************************
CDA Header
*******************************************************
-->
        <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040"/>
        <templateId root="2.16.840.1.113883.10.20.1"/>
        <!-- CCD v1.0 Templates Root -->
        <id root="db734647-fc99-424c-a864-7e3cda82e703"/>
        <!--- Message Type ID - Can be a GUID or Unique Integer -->
        <code code="QIQU_IN000003UV" codeSystem="2.16.840.1.113883.4.275.5" displayName="AHCCCS Patient Record
Lookup Request"/>
        <title>AHCCCS Continuity of Care Document for RLS Request</title>
        <effectiveTime value="20000407130000+0500"/>
        <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25"/>
        <languageCode code="en-US"/>
        <recordTarget>
            <patientRole>
                <!--extension is MRN and root is source system ID###-->
                <id extension="1234567" root="2.16.840.1.113883.3.138.4" assigningAuthorityName="MRN"/>
                 <!-- AHCCCS SEARCH INDEX THIS FIELD MAY REPEAT SEVERAL TIMES-->

                 <id extension="908765555" root="2.16.840.1.113883.4.275.4.8"
                 assigningAuthorityName="AHCCCS_SEARCH_INDEX"/>
                 <!-- AHCCCS SEARCH INDEX-->
                <id extension="908765555" root="2.16.840.1.113883.4.275.4.8"
                assigningAuthorityName="AHCCCS_SEARCH_INDEX"/>
                 <!--Street Address###-->
                <addr>
                            <streetAddressLine>123 Main</streetAddressLine>
                <streetAddressLine>Apt 32</streetAddressLine> <!--Optionnal-->
                <city>Phoenix</city> <!--Optionnal-->
                <state>AZ</state> <!--Optionnal-->
```

```xml
                    <postalCode>85380</postalCode>
                </addr>
                <patient>
                        <name>
                            <!-- First Name###-->
                            <!--USE Null Flavor= OTH when given or family is incomplete-->
                                <given nullFlavor="OTH">CAR</given>
                                <!--Middle Initial###-->
                                <given qualifier="IN">D</given>
                                <!--Last Name###-->
                                <family>AUGUSTE</family>
                        </name>
                        <!--Gender ###-->
                        <administrativeGenderCode code="F" codeSystem="2.16.840.1.113883.5.1"/>
                        <!--DOB ###-->
                        <birthTime value="19920426"/>
                </patient>
                <providerOrganization>
                        <!-- Requesting Organization's OID    -->
                        <id root="2.16.840.1.113883.3.96.3.31"/>
                        <name>Test Hospital</name>
                </providerOrganization>
        </patientRole>
    </recordTarget>
    <!-- Requesting organization/person's info    -->
    <author>
        <time value="20000407130000-0700"/>
        <assignedAuthor>
                <!-- Provider of care's    NPI    -->
                <id root="20cf14fb-b65c-4c8c-a54d-b0cca834c18c"/>
                <assignedPerson>
                        <name>
                                <prefix>Dr.</prefix>
                                <given>Dan</given>
                                <family>Nigrin</family>
                        </name>
                </assignedPerson>
                <representedOrganization>
                        <!-- CHB's MA-SHARE OID    -->
                        <id root="2.16.840.1.113883.3.96.3.31"/>
                        <name>Childrens Hospital of Boston</name>
                </representedOrganization>
        </assignedAuthor>
    </author>
    <!-- Typically same as the author...or use it to specify Data Partner type.....    -->
    <custodian>
        <assignedCustodian>
                <representedCustodianOrganization>
                        <id root="2.16.840.1.113883.3.96.3.31"/>
                        <name>Childrens Hospital of Boston</name>
                </representedCustodianOrganization>
        </assignedCustodian>
    </custodian>
    <!--
*********************************************************
CDA Body – NOT USED BUT NEED TO BE THERE FOR SCHEMA VALIDATION
*********************************************************
```

```
-->
        <component>
            <structuredBody>
                                    <component>
                                        <section></section>
                                    </component>

            </structuredBody>
        </component>
</ClinicalDocument>
```

Lookup Patient Record Response Sample

This is a sample message showing how RLS may return two records in a list for two different patients. This is an example fo one record for each patient record.

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!--RLS Response-->
<ClinicalDocument xmlns:voc="urn:hl7-org:v3/voc" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:hl7-org:v3 Schemas/CDA.xsd" xmlns="urn:hl7-org:v3">
    <!--********************-->
    <!-- CDA Header          -->
    <!--********************-->
    <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040" />
    <templateId root="2.16.840.1.113883.10.20.1" />
    <!--CCD v1.0 Templates Root-->
    <id root="aff93fed-9c98-4e7d-9de3-00b7f63e876c" />
    <code code="QIQU_IN000004UV" codeSystem="2.16.840.1.113883.4.275.5" displayName="Patient Record Lookup Response"
/>
    <title>Record Lookup Response</title>
    <effectiveTime value="20071207204156-0700" />
    <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25" />
    <languageCode code="en-US" />
    <!--********************-->
    <!-- Patient Record 1     -->
    <!--********************-->
        <recordTarget>
            <patientRole>
            <!-- id extension="Patient's AHCCCS ID"    root="OID for AHCCCS ID Code System###" -->
                    <id extension="AHCCCS    root="2.16.840.1.113883.4.275" assigningAuthorityName="AHCCCSID"/>
                    <!--Root=Source System ID and extension is MRN###-->
                    <id extension="1234567" root="2.16.840.1.113883.4.275.4.1" assigningAuthorityName="MRN"/>
                     <!--      Insurance ID, Coding System (Alternante ID Type), ID Type###-->
                    <id extension="66661234567" root="2.16.840.1.113883.4.275.4.2"
            assigningAuthorityName="INSURANCE"/>
                    <!-- Last four digits of SSN ###-->
                     <id extension="6666" root="2.16.840.1.113883.4.275.4.3" assigningAuthorityName="LAST4SSN"/>
                     <!--Street Address###-->
                     <!-- AHCCCS SEARCH INDEX-->
                    <id extension="908765555" root="2.16.840.1.113883.4.275.4.8"
            assigningAuthorityName="AHCCCS_SEARCH_INDEX"/>
                    <addr>
```

```xml
                <!--Street Address ###-->
                <streetAddressLine>100 Main St</streetAddressLine>
                <streetAddressLine>Apt 3</streetAddressLine>
                <!--City ###-->
                <city>Phoenix</city>
                <!--    State ###-->
                <state>AZ</state>
                <postalCode>85044</postalCode>
        </addr>
        <patient>
                <name>
                        <!--First Name ###-->
                        <given>Henry</given>
                        <!--Middle Initial ###-->
                        <given qualifier="IN">A</given>
                        <!--Last Name ###-->
                        <family>Smith</family>
                        <suffix>the 9th</suffix>
                </name>
                <!--Gender ###-->
                <administrativeGenderCode code="M" codeSystem="2.16.840.1.113883.5.1"/>
                <!--DOB ###-->
                <birthTime value="19320925"/>
        </patient>
        <providerOrganization>
                <!--Data Partner ID /Same as Gateway ID ###-->
                <id root="2.16.840.1.113883.3.138.1"/>
                <!--Record Source Name ###-->
                <name>Banner Health</name>
                <telecom use="AS" value="ddd"/>
                <addr>
                        <city>Phoenix</city>
                        <state>AZ</state>
                        <postalCode>85034</postalCode>
                </addr>

                <!--Data Partner Type based on NUCC Classification System for Providers ###-->
                <standardIndustryClassCode code="282N00000X" codeSystem="2.16.840.1.113883.11.19465"
                displayName="General Acute Care Hospital" codeSystemName="NUCC Health Care Provider
                Taxonomy"/>
        </providerOrganization>
            </patientRole>
        </recordTarget>
<!--********************-->
<!-- Patient Record 2      -->
<!--********************-->
    <recordTarget>
        <patientRole>
        <!-- id extension="Patient's AHCCCS ID"    root="AHCCCS ID CODE SYSTEM OID###" -->
                <id extension="AHCCCS"    root="2.16.840.1.113883.4.275" assigningAuthorityName="AHCCCSID"/>
                <!--Root=Source System ID and extension is MRN###-->
                <id extension="999999" root="2.16.840.1.113883.4.275.4.1" assigningAuthorityName="MRN"/>
                 <!--    Insurance ID, Coding System (Alternante ID Type), ID Type###-->
                <id extension="66661234567" root="2.16.840.1.113883.4.275.4.2"
                assigningAuthorityName="INSURANCE"/>
                <!-- Last four digits of SSN ###-->
                 <id extension="6666" root="2.16.840.1.113883.4.275.4.3" assigningAuthorityName="LAST4SSN"/>
```

```xml
                    <!--Street Address###-->
                    <!-- AHCCCS SEARCH INDEX-->
                    <id extension="908765555" root="2.16.840.1.113883.4.275.4.8"
                    assigningAuthorityName="AHCCCS_SEARCH_INDEX"/>
                    <addr>
                            <!--Street Address ###-->
                            <streetAddressLine>100 Main St</streetAddressLine>
                            <streetAddressLine>Apt 3</streetAddressLine>
                            <!--City ###-->
                            <city>Phoenix</city>
                            <!--    State ###-->
                            <state>AZ</state>
                            <postalCode>85044</postalCode>
                    </addr>
                    <patient>
                            <name>
                                    <!--First Name ###-->
                                    <given>Henry</given>
                                    <!--Middle Initial ###-->
                                    <given qualifier="IN">A</given>
                                    <!--Last Name ###-->
                                    <family>Smith</family>
                                    <suffix>the 9th</suffix>
                            </name>
                            <!--Gender ###-->
                            <administrativeGenderCode code="M" codeSystem="2.16.840.1.113883.5.1"/>
                            <!--DOB ###-->
                            <birthTime value="19320925"/>
                    </patient>
                    <providerOrganization>
                            <!--Gateway ID ###-->
                            <id root="2.16.840.1.113883.3.138.1" assigningAuthorityName="GATEWAYID"/>
                    <!--     Data Partner ID -->
                            <id root="2.16.840.1.113883.3.138.1" assigningAuthorityName="ORGANIZATIONID"/>
                            <!--Record Source Name ###-->
                            <name>Banner Health</name>
                            <addr>
                                    <city>Phoenix</city>
                                    <state>AZ</state>
                                    <postalCode>85034</postalCode>
                            </addr>
                            <!--Data Partner Type based on NUCC Classification System for Providers ###-->
                            <standardIndustryClassCode code="282N00000X" codeSystem="2.16.840.1.113883.11.19465"
                            displayName="General Acute Care Hospital" codeSystemName="NUCC Health Care Provider
                            Taxonomy"/>
                    </providerOrganization>
            </patientRole>
        </recordTarget>
<!--********************-->
<author>
    <time value="20071207204156-0700" />
    <assignedAuthor>
        <id root="20cf14fb-b65c-4c8c-a54d-b0cca834c18c" />
        <assignedAuthoringDevice>
            <softwareName>AHCCCS HIE Directory Service</softwareName>
        </assignedAuthoringDevice>
        <representedOrganization>
```

```xml
            <id root="2.16.840.1.113883.3.138" />
            <name>Arizona Health Care Containment System</name>
         </representedOrganization>
      </assignedAuthor>
   </author>
   <custodian>
      <assignedCustodian>
         <representedCustodianOrganization>
            <id root="2.16.840.1.113883.3.138" />
            <name>Arizona Health Care Containment System</name>
         </representedCustodianOrganization>
      </assignedCustodian>
   </custodian>
   <!--*******************-->
   <!-- CDA Body            -->
   <!--*******************-->
   <component>
      <structuredBody>
         <!--*******************-->
         <!-- Purpose section    -->
         <!--*******************-->
         <component>
            <section />
         </component>
            <!--
            ******************************************************
            Encounters section for patient 1
            ******************************************************

            -->
            <component>
            <section>
               <templateId root="2.16.840.1.113883.10.20.1.3"/>
               <!--MRN Coding System (Alternante ID Type), ID Type###-->
               <id extension="1234567" root="2.16.840.1.113883.4.275.4.1" assigningAuthorityName="MRN"/>
               <code code="46240-8" codeSystem="2.16.840.1.113883.6.1"/>
               <title>Descriptors</title>
               <text>
               <paragraph>
                  <caption>AHCCCS_SEARCH_INDEX</caption>
                  <content>4333</content>
               </paragraph>
               <table>
               <thead>
                  <tr>
                    <th>Record ID</th>
                    <th>Record Type</th>
                    <th>Date of Service (yyyyMMdd)</th>
                    <th>Descriptor</th>
                  </tr>
                  </thead>
                    <tbody>
                       <tr><td>21345432</td><td>LAB</td><td>20071112</td><td>Blood Test</td></tr>
                       <tr><td>23453222</td><td>LAB</td><td>20071112</td><td>Urine Test</td></tr>
                       <tr><td>543543XYS</td><td>LAB</td><td>20070313</td><td>Blood Test</td></tr>
                       <tr><td>AB95676</td><td>DS</td><td>20040809</td><td>Dicharge Summary</td></tr>
                    </tbody>
               </table>
```

```xml
            </text>
        </section>
    </component>
    <!--
    *******************************************************
    Encounters section for patient 2
    *******************************************************
    -->
    <component>
    <section>
        <templateId root="2.16.840.1.113883.10.20.1.3"/>
        <!--MRN Coding System (Alternante ID Type), ID Type###-->
        <id extension="999999" root="2.16.840.1.113883.4.275.4.1" assigningAuthorityName="MRN"/>
        <code code="46240-8" codeSystem="2.16.840.1.113883.6.1"/>
        <title>Descriptors</title>
        <text>
        <paragraph>
            <caption>AHCCCS_SEARCH_INDEX</caption>
            <content>4333</content></paragraph>
            <table>
                <thead>
                        <tr><th>Record ID</th>
                        <th>Record Type</th>
                        <th>Date of Service (yyyyMMdd)</th>
                        <th>Descriptor</th></tr>
                </thead>
                <tbody>
    <!--   Matrix contains Record ID, Record Type, Date of Service and Descriptor   (From Left to right)-->
                        <tr><td>P3454</td><td>LAB</td><td>1/21/2006</td><td>Urine Test</td></tr>
                        <tr><td>877778</td><td>DS</td><td>6/23/2005</td><td>Dicharge Summary</td></tr>
                </tbody>
            </table>
        </text>
    </section>
    </component>
    </structuredBody>
  </component>
</ClinicalDocument>
```

Retrieve Record Request Sample

```xml
<?xml version="1.0" encoding="UTF-8"?>
<RCMR_IN000031UV01 ITSVersion="XML_1.0" xmlns="urn:hl7-org:v3" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:hl7-org:v3 multicacheschemas¥RCMR_IN000031UV01.xsd">
        <id extension="MESSAGEID" root="2.16.840.1.113883.4.275.4.9"/>
        <creationTime value="20070428150301-0700"/>
        <interactionId root="2.16.840.1.113883.1.6" extension="RCMR_IN000031UV01"/>
        <processingCode code="P"/>
        <processingModeCode code="T"/>
        <acceptAckCode code="AL"/>
    <receiver typeCode="RCV">
        <!--    telecom = GATEWAY ID-->
      <telecom value="2.16.840.1.113883.4.275.3.138.3.2"/>
        <device classCode="DEV" determinerCode="INSTANCE">
```

```xml
                    <!--AHCCCS HIE    SOURCE SYSTEM ID/ EMULATOR SYSTEM-->
        <id root="2.16.840.1.113883.4.275.3.138.5"/>
        <asAgent classCode="AGNT">
                        <representedOrganization determinerCode="INSTANCE" classCode="ORG">
                            <id    root="2.16.840.1.113883.3.138"/>
                            <name>SOME HOSPITAL</name>
                        </representedOrganization>
        </asAgent>
    </device>
</receiver>
<sender typeCode="SND">
    <device classCode="DEV"    determinerCode="INSTANCE">
     <!--      SYSTEM ID OF SYSTEM GENERATING REQUEST-->
        <id root="2.16.840.1.113883.3.138.6"/>
        <softwareName>AHCCCCS VIEWER</softwareName>
        <asAgent classCode="AGNT">
                        <representedOrganization determinerCode="INSTANCE" classCode="ORG">
                            <id    root="2.16.840.1.113883.3.138"/>
                            <name>AHCCCS</name>
                        </representedOrganization>
        </asAgent>
    </device>
</sender>
    <controlActProcess classCode="ACTN" moodCode="RQO">
        <informationRecipient typeCode="PRCP">
                    <assignedPerson classCode="ASSIGNED">
            <!-- EXTENSION= USER ID OF SYSTEM DOING RETRIEVE REQUEST
                        ROOT= SYSTEM ID OF SYSTEM DOING REQUEST-->
                            <id extension="USER_ID" root="2.16.840.1.113883.3.138.3"/>
                            <!--VIEWER USER INFORMATION FOR AUDIT PURPOSES-->
                    </assignedPerson>
        </informationRecipient>
        <queryByParameter>
            <clinicalDocument.id>
                <!-- OPTIONAL: EXTENSION VALUE=ACTIVITY ID and ROOT IS ALWAYS FIXED-->
                        <value root="2.16.840.1.113883.4.275.4.14" extension="RECORD_ID"/>
        </clinicalDocument.id>
        <patient.id>
                        <!--root= AHCCCS HIE SOURCE SYSTEM ID and extension= MRN-->
                        <value root="2.16.840.1.113883.3.138" extension="MRN"/>
        </patient.id>
            <representedOrganization.id>
                <!--Organization ID root = ORGANIZATION ID -->
         <value root="2.16.840.1.113883.3.138"/>
            </representedOrganization.id>
        </queryByParameter>
    </controlActProcess>
    </RCMR_IN000031UV01>
```

Retrieve Record Response Samples

Sonora Quest Lab Sample

```xml
<?xml version="1.0"?>
<?xml-stylesheet type="text/xsl" href="Schemas/LabResultsCCD.xsl"?>
<!-- The following sample document depicts a fictional character's health summary. Any resemblance to a real person is coincidental.
-->
<ClinicalDocument xmlns="urn:hl7-org:v3" xmlns:voc="urn:hl7-org:v3/voc" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xsi:schemaLocation="urn:hl7-org:v3 Schemas/CDA.xsd">
        <!--
****************************************************
CDA Header
****************************************************
-->
        <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040"/>
        <templateId root="2.16.840.1.113883.10.20.1"/> <!-- CCD v1.0 Templates Root -->
        <!--     MESSAGE ID
              id root is the id to identify Message ID.   IT SHOULD MATCH THE REQUEST MESSAGE ID-->
         <id root="2.16.840"/>
<!--     RECORD TYPE-->
        <code code="26436-6" codeSystem="2.16.840.1.113883.6.1" displayName="Lab Results"/>
    <title>Lab Results</title>
<!--      LAB RESULTS COLLECTION DATE = OBR-7-->
        <effectiveTime value="20000407130000+0500"/>
        <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25"/>
        <languageCode code="en-US"/>
        <!--ORIGINAL RECORD ID FROM HL7 2.X Message BEFORE TRANSFORMATION
           setId extension is Original Record ID and root is the source system id for record ID (e.g. Data provider system)-->
        <setId extension="123"    root="2.16.840.1.113883.3.154.1.2"/>
        <recordTarget>
                <patientRole>
                        <!--extension is AHCCCS ID for .csv file-->
                        <id extension="A1234455656" root="2.16.840.1.113883.4.275"/>
                        <!--INSURANCE ID-->
                        <id extension="12345678" root="2.16.840.1.113883.4.275.4.2"/>
                        <!--SSN = PID 19-->
                        <id extension="3210" root="2.16.840.1.113883.4.275.4.3"/>
                        <!--SAME AS SOURCE SYSTEM ID and root for MRN-->
                        <id extension="23456666" root="2.16.840.1.113883.3.154.1.2"/>
                        <addr>.
                        <!--PATIENT ADDRESS FROM .CSV DEMOGRAPHICS FILE -->
                        <streetAddressLine>102 E. Some St.</streetAddressLine>
                        <streetAddressLine>APT 3</streetAddressLine>
                        <city>Phoenix</city>
                        <state>AZ</state>
                        <postalCode>85044</postalCode>
```

```xml
                    <county>Maricopa</county>
                    </addr>
                    <!--PATIENTS PHONE NUMBER - .CSV DEMOGRAPHICS FILE-->
                    <telecom value="tel:(999)555-1212" use="HP"/>
                    <telecom value="tel:(999)555-1212" use="WP"/>
                    <!--PATIENT'S NAME PID-5 OR .CSV FILE-->
                    <patient>
                            <name>
                                    <given>Jane</given>
                                    <given qualifier="IN">L</given>
                                    <family>Doe</family>
                            </name>
                            <administrativeGenderCode code="M" codeSystem="2.16.840.1.113883.5.1"/>
                            <birthTime value="19681108"/>
                            <maritalStatusCode code="M"    codeSystem="2.16.840.1.113883.5.2" displayName="Married"/>
                            <religiousAffiliationCode code="1001" codeSystem="2.16.840.1.113883.5.1076"
displayName="Adventist"/>
                            <raceCode code="2135-2" codeSystem="2.16.840.1.113883.5.104" displayName="Hispanic or
Latino"/>
                            <ethnicGroupCode code="234" codeSystem="2.16.840.1.113883.5.50"/>
                    </patient>
                    <providerOrganization>
                     <!--ORGANIZATION ID-->
                            <id root="2.16.840.1.113883.3.154"/>
                            <name>Sonora Quest Laboratories</name>
                    </providerOrganization>
            </patientRole>
    </recordTarget>
    <author>
            <!--RECEIVED DATE = OBR-14-->
            <time value="20000404"/>
            <assignedAuthor>
                    <id nullFlavor="NI"/>
                    <representedOrganization>
                            <id root="2.16.840.1.113883.3.154"/>
                            <name>Maricopa Integrated Hospital</name>
                    </representedOrganization>
            </assignedAuthor>
    </author>
    <custodian>
            <assignedCustodian>
                    <representedCustodianOrganization>
                            <id root="2.16.840.1.113883.3.154"/>
                            <name>Maricopa Integrated Hospital</name>
                    </representedCustodianOrganization>
            </assignedCustodian>
    </custodian>
    <informationRecipient>
            <intendedRecipient>
            <!--REQUESTING APPLICATION ID (e.g Viewer Appliaction)-->
                            <id root="2.16.840.1.113883.3.138.1.3"/>
            </intendedRecipient>
    </informationRecipient>
    <participant typeCode="PRCP">
     <!--    ORDERING PHYSICIAN INFORMATION-->
            <associatedEntity classCode="PROV">
                    <telecom value="tel:(999)555-1212"/>
```

```xml
                    <associatedPerson>
                            <name>
                                    <prefix>Dr.</prefix>
                                    <given>Rosa</given>
                                    <family>Martinez</family>
                            </name>
                    </associatedPerson>
            </associatedEntity>
    </participant>
    <inFulfillmentOf>
            <order>
                    <!-- LAB REQUISITION NUMBER-->
                    <id extension="MANUAL77777"/>
            </order>
    </inFulfillmentOf>
    <documentationOf>
            <serviceEvent classCode="PCPR">
    <!--EXTENSION = LAB ACCESSION ID/RECORD ID FROM HL7 2.X Message          -->
            <id extension="123" root="2.16.840.1.113883.4.275.4.14"/>
        <!-- ID EXTENSION is Record ID/ENCOUNTER ID, this autogenerated by EMULATOR
 ID ROOT is EMULATOR SOURCE SYSTEM -->
            <id extension="234MANUAL" root="2.16.840.1.113883.3.154.1.2"/>
            <!--       LAB RESULTS REPORTED = OBR-06-->
                <effectiveTime value="20050304"/>
                <performer typeCode="PRF">
                        <functionCode code="PCP" codeSystem="2.16.840.1.113883.5.88"/>
                        <assignedEntity>
                                <id root="2.16.840.1.113883.3.154"/>
                                <representedOrganization>
                                        <id root="2.16.840.1.113883.3.154"/>
                                        <name>Maricopa Integrated Hospital System</name>
                                </representedOrganization>
                        </assignedEntity>
                </performer>
            </serviceEvent>
    </documentationOf>
    <!--
*********************************************************
CDA Body
*********************************************************

-->
    <component>
            <structuredBody>
                    <!--
*********************************************************
Purpose section
*********************************************************

-->
                    <component>
                            <section>
                                    <templateId root="2.16.840.1.113883.10.20.1.13"/>
                                    <!-- Purpose section template -->
                                    <code code="48764-5" codeSystem="2.16.840.1.113883.6.1"/>
                                    <title>Summary Purpose</title>
                                    <text>Transfer of care</text>
                                    <entry typeCode="DRIV">
                                            <act classCode="ACT" moodCode="EVN">
```

```xml
<templateId root="2.16.840.1.113883.10.20.1.30"/>
<!-- Purpose activity template -->
<code code="23745001" codeSystem="2.16.840.1.113883.6.96"
displayName="Documentation procedure"/>
<statusCode code="completed"/>
<entryRelationship typeCode="RSON">
        <act classCode="ACT" moodCode="EVN">
                <code code="308292007"
                codeSystem="2.16.840.1.113883.6.96"
                displayName="Transfer of care"/>
                <statusCode code="completed"/>
        </act>
</entryRelationship>
        </act>
    </entry>
  </section>
</component>
<component>
    <section>
        <templateId root="2.16.840.1.113883.10.20.1.14"/>
        <!-- Results section template -->
        <code code="30954-2" codeSystem="2.16.840.1.113883.6.1"/>
        <title>Results</title>
        <text>
            <table border="0" width="100%">
                <thead>
                    <tr>
                        <th align="left">REQUESTS</th>
                        <th align="left">RESULTS</th>
                        <th align="left">OUT OF RANGE</th>
                        <th align="left">REFERENCE RANGE</th>
                        <th align="left">UNITS</th>
                    </tr>
                </thead>
                <tbody>
                    <tr>
                        <td colspan="5">
                            <content styleCode="BoldItalics">CBC</content>
                        </td>
                    </tr>
                    <tr>
                        <td>WBC</td>
                        <td>4.2</td>
                        <td> </td>
                        <td>4.0-11.0</td>
                        <td>K/MMM3</td>
                    </tr>
                    <tr>
                        <td>RBC</td>
                        <td>4.2</td>
                        <td> </td>
                        <td>3.7-5.40</td>
                        <td>M/MMM3</td>
                    </tr>
                    <tr>
                        <td>HEMOGLOBIN</td>
                        <td>9.8</td>
```

```xml
                    <td> </td>
                    <td>11.5-16.0</td>
                    <td>G/DL</td>
              </tr>
              <tr>

                    <td colspan="5">
                            <content styleCode="BoldItalics">LIPID</content>
                    </td>
              </tr>
              <tr>

                    <td>CHOLESTEROL</td>
                    <td>135</td>
                    <td> </td>
                    <td>less than 200</td>
                    <td>MG/DL</td>
              </tr>
              <tr>

                    <td>TRYGLYCERIDES</td>
                    <td>62</td>
                    <td> </td>
                    <td>less than 150</td>
                    <td>MG/DL</td>
              </tr>
              <tr>

                    <td>HDL CHOLESTEROL</td>
                    <td>53</td>
                    <td> </td>
                    <td>greater than 39</td>
                    <td>MG/DL</td>
              </tr>
              <tr>

                    <td colspan="5" styleCode="notes"></td>
              </tr>
              <tr>

                    <td colspan="5" styleCode="notes">NOTES XXX</td>
              </tr>
            </tbody>
          </table>
      </text>
      <entry typeCode="DRIV">
            <encounter classCode="ENC" moodCode="EVN">
                  <!--Encounter activity Template-->
                  <templateId root="2.16.840.1.113883.10.20.1.21"/>
                  <!-- Encounter Id, MANDATORY -->
                  <id extension="123456" root="2.16.840.1.113883.4.275.4.14"
                  assigningAuthorityName="ACTIVITYID"/>
                  <!-- Encounter Type, MANDATORY-->
                  <code code="26436-6" codeSystem="2.16.840.1.113883.6.1"
                  displayName="Laboratory studies">
                        <!-- Encounter Descriptor, MANDATORY -->
                        <originalText>Lab Report</originalText>
                  </code>
<!-- Encounter Time (DATE OF SERVICE, COLLECTION DATE - OBR-7), MANDATORY -->
                        <effectiveTime value="20070401" />
            </encounter>
      </entry>
</section>
```

```xml
                    </component>
                </structuredBody>
        </component>
</ClinicalDocument>
```

Banner Discharge Summary Sample

```xml
<?xml version="1.0"?>
<?xml-stylesheet type="text/xsl" href="Schemas/CCD.xsl"?>
<!-- The following sample document depicts a fictional character's health summary. Any resemblance to a real person is coincidental.
-->
<ClinicalDocument xmlns="urn:hl7-org:v3" xmlns:voc="urn:hl7-org:v3/voc" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:hl7-org:v3 Schemas/CDA.xsd">
        <!--
*******************************************************
CDA Header
*******************************************************
-->
        <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040"/>
        <templateId root="2.16.840.1.113883.10.20.1"/> <!-- CCD v1.0 Templates Root -->
        <!--    MESSAGE ID
                id root is the id to identify Message ID -->
         <id root="2.9.0"/>
<!--    RECORD TYPE-->
        <code code="34105-7" codeSystem="2.16.840.1.113883.6.1" displayName="Discharge Summary"/>
        <title>Discharge Summary</title>
        <effectiveTime value="20000407130000+0500"/>
        <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25"/>
        <languageCode code="en-US"/>
        <!--ORIGINAL RECORD ID FROM HL7 2.X Message BEFORE TRANSFORMATION
           setId extension is Original Record ID and root is the source system id for record ID (e.g. Data provider system)-->
        <setId extension="123"    root="2.16.840.1.114222.4.1.4844.1.1"/>
        <recordTarget>
                <patientRole>
                        <id extension="A1234455656" root="2.16.840.1.113883.4.275"/>
                        <id extension="12345678" root="2.16.840.1.113883.4.275.4.2"/>
                        <id extension="3210" root="2.16.840.1.113883.4.275.4.3"/>
                        <!--CUSTOMIZED ROOT IS SOURCE SYSTEM ID, EXTENSION IS MRN-->
                        <id extension="23456666" root="2.16.840.1.114222.4.1.4824.1.1"/>
                        <addr>.
                        <streetAddressLine>102 E. Some St.</streetAddressLine>
                        <streetAddressLine>Apt 223</streetAddressLine>
                        <city>Phoenix</city>
                        <state>AZ</state>
                        <postalCode>85044</postalCode>
                        <county>Maricopa</county>
                        </addr>
                        <telecom value="tel:(999)555-1212" use="HP"/>
                        <telecom value="tel:(999)555-1212" use="WP"/>
                        <patient>
                                <name>
                                        <given>Jane</given>
                                        <family>Doe</family>
                                </name>
                                <administrativeGenderCode code="M" codeSystem="2.16.840.1.113883.5.1"/>
                                <birthTime value="19681108"/>
```

```xml
                    <maritalStatusCode code="M"    codeSystem="2.16.840.1.113883.5.2" displayName="Married"/>
                    <religiousAffiliationCode code="1001" codeSystem="2.16.840.1.113883.5.1076"
                    displayName="Adventist"/>
                    <raceCode code="2135-2" codeSystem="2.16.840.1.113883.5.104" displayName="Hispanic or
                    Latino"/>
                    <ethnicGroupCode code="234" codeSystem="2.16.840.1.113883.5.50"/>
              </patient>
              <providerOrganization>
                    <id root="2.16.840.1.113883.3.138.3.6"/>
                    <name>Banner Heart Hospital </name>
              </providerOrganization>
        </patientRole>
  </recordTarget>
  <author>
        <time value="20000404"/>
        <assignedAuthor>
             <id root="2.16.840.1.114222.4.1.4824.1.1"/>
              <representedOrganization>
<!--                    CUSTOMIZE ORGANIZATION ID TO DATA PROVIDER ORGANIZATION ID-->
                    <id root="2.16.840.1.114222.4.1.4844"/>
                    <name>Banner Heart Hospital </name>
              </representedOrganization>
        </assignedAuthor>
  </author>
  <custodian>
        <assignedCustodian>
              <representedCustodianOrganization>
                    <id root="2.16.840.1.114222.4.1.4844"/>
                    <name>Banner Heart Hospital </name>
              </representedCustodianOrganization>
        </assignedCustodian>
  </custodian>
  <informationRecipient>
        <intendedRecipient>
        <!--REQUESTING APPLICATION ID (e.g Viewer Appliaction)-->
                    <id root="2.16.840.1.113883.3.138.1.3"/>
        </intendedRecipient>
  </informationRecipient>
  <authenticator>
        <time/>
        <!--SIGNATURE CODE IS TXA-17-->
        <signatureCode code="AU"></signatureCode>
        <assignedEntity>
                <id/>
        </assignedEntity>
  </authenticator>
  <participant typeCode="ATND">
        <associatedEntity classCode="PROV">
              <associatedPerson>
                    <name>
                           <prefix>Dr.</prefix>
                           <given>Kenneth</given>
                           <family>Ross</family>
                           <suffix>Jr</suffix>
                    </name>
              </associatedPerson>
        </associatedEntity>
```

```xml
        </participant>
        <documentationOf>
                <serviceEvent classCode="PCPR">
<!--ORIGINAL Encounter ID FROM HL7 2.X Message
     id extension is record ID from original source system-->
                <id extension="123" root="2.16.840.1.113883.4.275.4.14"/>
                <!--        RECORD ID/Document ID
  id extension is Record ID, this autogenerated by Emulator
  id root is an OID for EMULATOR system that generated CCD. (e.g. emulator) -->
                <id extension="1234567899" root="2.16.840.1.114222.4.1.4844.1.1"/>
                <!--        DATE OF SERVICE-->
                    <effectiveTime value="20050304"/>
                    <performer typeCode="PRF">
                            <functionCode code="PCP" codeSystem="2.16.840.1.113883.5.88"/>
                            <assignedEntity>
                                    <id root="2.16.840.1.114222.4.1.4844"/>
                                    <representedOrganization>
                                            <id root="2.16.840.1.114222.4.1.4844"/>
                                            <name>Banner Heart Hospital</name>
                                    </representedOrganization>
                            </assignedEntity>
                    </performer>
                </serviceEvent>
        </documentationOf>


        <!--
*******************************************************
CDA Body
*******************************************************
-->
        <component>
                <structuredBody>
                                        <!--
*******************************************************
Purpose section
*******************************************************
-->
<component>
<section>
        <templateId root='2.16.840.1.113883.10.20.1.13'/> <!-- Purpose section template -->
        <code code="48764-5" codeSystem="2.16.840.1.113883.6.1"/>
        <title>Summary Purpose</title>
        <entry typeCode="DRIV">
                <act classCode="ACT" moodCode="EVN">
                        <templateId root='2.16.840.1.113883.10.20.1.30'/> <!-- Purpose activity template -->
                        <code code="23745001" codeSystem="2.16.840.1.113883.6.96" displayName="Documentation
procedure"/>
                        <statusCode code="completed"/>
                        <entryRelationship typeCode="RSON">
                                <act classCode="ACT" moodCode="EVN">
                                        <code code="308292007" codeSystem="2.16.840.1.113883.6.96" displayName="Transfer
of care"/>
                                        <statusCode code="completed"/>
                                </act>
                        </entryRelationship>
                </act>
```

```xml
            </entry>
    </section>
</component>
<component>
<section>
        <templateId root="2.16.840.1.113883.10.20.1.3"/> <!-- Encounters section template -->
        <code code="46240-8" codeSystem="2.16.840.1.113883.6.1"/>
        <title>Encounters</title>
        <text>
<content>BANNER GOOD SAMARITAN   MEDICAL CENTER           Account #:000033772781</content>
<content>1111   East McDowell Road                              MR #:99999999</content>
<content>Phoenix, Arizona 85006                            DOE, JANE</content>
<content>                                                   DOB:04/21/1967</content>
<content>                                                   Admitted:12/01/2004</content>
<content>                                                   Discharged:01/01/2005</content>
<content>                                                   Room #: 333 56767</content>
<content></content>
<content></content>
<content>                            DISCHARGE SUMMARY</content>
<content></content>
<content>DISCHARGE DIAGNOSES</content>
<content>1. Dehydration</content>
<content>2. Generalized Weakness</content>
<content>3. Hypokalemia</content>
<content></content>
<content>CONSULTANT:   Cardiology, Dr. MICKY A MOUSE</content>
<content></content>
<content>HOSPITAL COURSE:   The patient is a XX year-old with history of LV dysfunction, etc.....</content>
<content></content>
<content>Discharge medications include:</content>
<content>1. Pulmicort 180 mcg one puff b.i.d.</content>
<content>2. Plavix 75 mg p.o. daily</content>
<content></content>
<content></content>
<content></content>
<content></content>
<content>Unreviewed</content>
<content></content>
<content>MICKY A. MOUSE, M.D.</content>
<content></content>
<content>DICTATED BY: MICKY A. MOUSE, M.D.</content>
<content>D: 01/01/2005</content>
<content>T: 01/01/2005   8:01 A mtn</content>
<content>DocNbr: 2497623</content>
<content></content>
<content>cc:    MICKY A. MOUSE, M.D.</content>
</text>
    </section>
</component>
                         <!--
*******************************************************
Plan of Care section
*******************************************************
-->

</structuredBody>
</component>
```

</ClinicalDocument>

SJHMC Discharge Summary Sample

```xml
<?xml version="1.0"?>
<?xml-stylesheet type="text/xsl" href="Schemas/CCD.xsl"?>
<!-- The following sample document depicts a fictional character's health summary. Any resemblance to a real person is coincidental. -->
<ClinicalDocument xmlns="urn:hl7-org:v3" xmlns:voc="urn:hl7-org:v3/voc" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:hl7-org:v3 Schemas/CDA.xsd">
        <!--
*******************************************************
CDA Header
*******************************************************
-->
        <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040"/>
        <templateId root="2.16.840.1.113883.10.20.1"/> <!-- CCD v1.0 Templates Root -->
        <!--    MESSAGE ID
                id root is the id to identify Message ID -->
         <id root="2.9.0"/>
<!--     RECORD TYPE-->
        <code code="34105-7" codeSystem="2.16.840.1.113883.6.1" displayName="Discharge Summary"/>
        <title>Discharge Summary</title>
        <effectiveTime value="20000407130000+0500"/>
        <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25"/>
        <languageCode code="en-US"/>
        <!--ORIGINAL RECORD ID FROM HL7 2.X Message BEFORE TRANSFORMATION
           setId extension is Original Record ID and root is the source system id for record ID (e.g. Data provider system)-->
        <setId extension="123"    root="2.16.840.1.113883.3.181.1.1"/>
        <recordTarget>
                <patientRole>
                        <id extension="A1234455656" root="2.16.840.1.113883.4.275"/>
                        <id extension="12345678" root="2.16.840.1.113883.4.275.4.2"/>
                        <id extension="3210" root="2.16.840.1.113883.4.275.4.3"/>
                        <!--CUSTOMIZED ROOT IS SOURCE SYSTEM ID, EXTENSION IS MRN-->
                        <id extension="23456666" root="2.16.840.1.113883.3.181.1.1"/>
                        <addr>.
                        <streetAddressLine>102 E. Some St.</streetAddressLine>
                        <streetAddressLine>Apt 223</streetAddressLine>
                        <city>Phoenix</city>
                        <state>AZ</state>
                        <postalCode>85044</postalCode>
                        <county>Maricopa</county>
                        </addr>
                        <telecom value="tel:(999)555-1212" use="HP"/>
                        <telecom value="tel:(999)555-1212" use="WP"/>
                        <patient>
                                <name>
                                        <given>Jane</given>
                                        <family>Doe</family>
                                </name>
                                <administrativeGenderCode code="M" codeSystem="2.16.840.1.113883.5.1"/>
                                <birthTime value="19681108"/>
```

```xml
                    <maritalStatusCode code="M"   codeSystem="2.16.840.1.113883.5.2" displayName="Married"/>
                    <religiousAffiliationCode code="1001" codeSystem="2.16.840.1.113883.5.1076"
displayName="Adventist"/>
                    <raceCode code="2135-2" codeSystem="2.16.840.1.113883.5.104" displayName="Hispanic or
Latino"/>
                    <ethnicGroupCode code="234" codeSystem="2.16.840.1.113883.5.50"/>
                </patient>
                <providerOrganization>
                    <id root="2.16.840.1.113883.3.138.3.5"/>
                    <name>St Joseph's Hospital and Medical Center</name>
                </providerOrganization>
            </patientRole>
        </recordTarget>
        <author>
            <time value="20000404"/>
            <assignedAuthor>
                <id    root="2.16.840.1.113883.3.181.1.1"/>
                <representedOrganization>
<!--                        CUSTOMIZE ORGANIZATION ID TO DATA PROVIDER ID-->
                    <id root="2.16.840.1.113883.3.181"/>
                    <name>St. Joseph's Hospital and Medical Center</name>
                </representedOrganization>
            </assignedAuthor>
        </author>
        <custodian>
        <assignedCustodian>
                <representedCustodianOrganization>
                    <id root="2.16.840.1.113883.3.181"/>
                    <name>St. Joseph's Hospital and Medical Center</name>
                </representedCustodianOrganization>
            </assignedCustodian>
        </custodian>
        <informationRecipient>
            <intendedRecipient>
            <!--REQUESTING APPLICATION ID (e.g Viewer Appliaction)-->
                    <id root="2.16.840.1.113883.3.138.1.3"/>
            </intendedRecipient>
        </informationRecipient>
        <authenticator>
            <time/>
            <!--SIGNATURE CODE IS TXA-17-->
            <signatureCode code="AU"></signatureCode>
            <assignedEntity>
                    <id/>
            </assignedEntity>
</authenticator>
<participant typeCode="ATND">
            <associatedEntity classCode="PROV">
                <associatedPerson>
                    <name>
                            <prefix>Dr.</prefix>
                            <given>Kenneth</given>
                            <family>Ross</family>
                            <suffix>Jr</suffix>
                    </name>
                </associatedPerson>
            </associatedEntity>
```

```xml
        </participant>
        <documentationOf>
                <serviceEvent classCode="PCPR">
<!--ORIGINAL Encounter ID FROM HL7 2.X Message
    id extension is record ID from original source system-->
                        <id extension="123" root="2.16.840.1.113883.4.275.4.14"/>
                        <!--      RECORD ID/Document ID
 id extension is Record ID, this autogenerated by Emulator
 id root is an OID for EMULATOR system that generated CCD. (e.g. emulator) -->
                        <id extension="1234567899" root="2.16.840.1.113883.3.181.1.1"/>
                        <!--      DATE OF SERVICE-->
                     <effectiveTime value="20050304"/>
                        <performer typeCode="PRF">
                                <functionCode code="PCP" codeSystem="2.16.840.1.113883.5.88"/>
                                <assignedEntity>
                                        <id root="2.16.840.1.113883.3.181"/>
                                        <representedOrganization>
                                                <id root="2.16.840.1.113883.3.181"/>
                                                <name>Saint Joseph's Hospital and Medical Center</name>
                                        </representedOrganization>
                                </assignedEntity>
                        </performer>
                </serviceEvent>
        </documentationOf>


        <!--
**************************************************
CDA Body
**************************************************
-->
        <component>
                <structuredBody>
                                        <!--
**************************************************
Purpose section
**************************************************
-->
<component>
<section>
        <templateId root='2.16.840.1.113883.10.20.1.13'/> <!-- Purpose section template -->
        <code code="48764-5" codeSystem="2.16.840.1.113883.6.1"/>
        <title>Summary Purpose</title>
        <entry typeCode="DRIV">
                <act classCode="ACT" moodCode="EVN">
                        <templateId root='2.16.840.1.113883.10.20.1.30'/> <!-- Purpose activity template -->
                        <code code="23745001" codeSystem="2.16.840.1.113883.6.96" displayName="Documentation
procedure"/>
                        <statusCode code="completed"/>
                        <entryRelationship typeCode="RSON">
                                <act classCode="ACT" moodCode="EVN">
                                        <code code="308292007" codeSystem="2.16.840.1.113883.6.96" displayName="Transfer
of care"/>
                                        <statusCode code="completed"/>
                                </act>
                        </entryRelationship>
                </act>
```

```xml
                </entry>
        </section>
    </component>
    <component>
        <section>
            <templateId root="2.16.840.1.113883.10.20.1.3"/> <!-- Encounters section template -->
            <code code="46240-8" codeSystem="2.16.840.1.113883.6.1"/>
            <title>Encounters</title>
            <text>
            <content>TOW55T3101        Document #: 1393699</content>
            <content>                                                DOB 06/18/1955</content>
            <content>DOE, JANE</content>
            <content>00081013740    S            I            151-10-41</content>
            <content>RUBEN GREEN, MD</content>
            <content></content>
            <content>DATE OF ADMISSION: 06/18/2008</content>
            <content>DATE OF DISCHARGE:</content>
            <content></content>
            <content>I.      SITUATION AT ADMISSION: ??</content>
            <content></content>
            <content>II.    FAMILY HISTORY: ??</content>
            <content></content>
            <content>        SOCIAL NETWORK: ??</content>
            <content></content>
            <content>        EDUCATIONAL/VOCATIONAL: ??</content>
            <content></content>
            <content>        SUBSTANCE ABUSE HISTORY: ??</content>
            <content></content>
            <content>        MEDICAL/PSYCHIATRIC HISTORY: ??</content>
            <content></content>
            <content>        SEXUAL/PHYSICAL ABUSE: ??</content>
            <content></content>
            <content>        LEGAL HISTORY: ??</content>
            <content></content>
            <content>        FINANCIAL: ??</content>
            <content></content>
            <content>        SPIRITUAL: ??</content>
            <content></content>
            <content>III.   FAMILY ASSESSMENT, PLANS, TREATMENT GOALS: ????</content>
            <content></content>
            <content></content>
            <content></content>
            <content>MICHELLE RED, CCC-SLP- Resident</content>
            <content></content>
            <content>MR/lmh</content>
            <content>Job #:            dd:                      dt: 06/19/2008    9:20 A</content>
            <content></content>
            <content>cc:    MICHELLE RED, CCC-SLP</content>
            <content>        RUBEN GREEN, MD</content>
            </text>
        </section>
    </component>
</structuredBody>
</component>
</ClinicalDocument>
```

MIHS Discharge Summary Sample

```xml
<?xml version="1.0"?>
<?xml-stylesheet type="text/xsl" href="Schemas/CCD.xsl"?>
<!-- The following sample document depicts a fictional character's health summary. Any resemblance to a real person is coincidental. -->
<ClinicalDocument xmlns="urn:hl7-org:v3" xmlns:voc="urn:hl7-org:v3/voc" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:hl7-org:v3 Schemas/CDA.xsd">
        <!--
*******************************************************
CDA Header
*******************************************************
-->
        <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040"/>
        <templateId root="2.16.840.1.113883.10.20.1"/> <!-- CCD v1.0 Templates Root -->
        <!--      MESSAGE ID
         id root is the id to identify Message ID -->
         <id root="2rewrwrwerwr"/>
        <!--RECORD TYPE-->
        <code code="34105-7" codeSystem="2.16.840.1.113883.6.1" displayName="Discharge Summary"/>
        <title>Discharge Summary</title>
        <effectiveTime value="20000407130000+0500"/>
        <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25"/>
        <languageCode code="en-US"/>
        <!--ORIGINAL RECORD ID FROM HL7 2.X Message BEFORE TRANSFORMATION
           setId extension is Original Record ID and root is the source system id for record ID (e.g. Data provider system)-->
        <setId extension="123"    root="2.16.840.1.113883.3.154.1.1"/>
        <recordTarget>
                <patientRole>
                        <id extension="A1234455656" root="2.16.840.1.113883.4.275"/>
                        <id extension="12345678" root="2.16.840.1.113883.4.275.4.2"/>
                        <id extension="3210" root="2.16.840.1.113883.4.275.4.3"/>
                        <!--CUSTOMIZED ROOT IS SOURCE SYSTEM ID, EXTENSION IS MRN-->
                        <id extension="23456666" root="2.16.840.1.113883.3.154.1.1"/>
                        <addr>.
                        <streetAddressLine>102 E. Some St.</streetAddressLine>
                        <streetAddressLine>Apt 223</streetAddressLine>
                        <city>Phoenix</city>
                        <state>AZ</state>
                        <postalCode>85044</postalCode>
                        <county>Maricopa</county>
                        </addr>
                        <telecom value="tel:(999)555-1212" use="HP"/>
                        <telecom value="tel:(999)555-1212" use="WP"/>
                        <patient>
                                <name>
                                        <given>Jane</given>
                                        <family>Doe</family>
                                </name>
                                <administrativeGenderCode code="M" codeSystem="2.16.840.1.113883.5.1"/>
                                <birthTime value="19681108"/>
                                <maritalStatusCode code="M"    codeSystem="2.16.840.1.113883.5.2" displayName="Married"/>
                                <religiousAffiliationCode code="1001" codeSystem="2.16.840.1.113883.5.1076"
                                displayName="Adventist"/>
                                <raceCode code="2135-2" codeSystem="2.16.840.1.113883.5.104" displayName="Hispanic or
                                Latino"/>
                                <ethnicGroupCode code="234" codeSystem="2.16.840.1.113883.5.50"/>
```

```xml
                </patient>
                <providerOrganization>
                        <id root="2.16.840.1.113883.3.138.3.3"/>
                        <name>Maricopa Integrated Hospital</name>
                </providerOrganization>
            </patientRole>
    </recordTarget>
    <author>
            <time value="20000404"/>
            <assignedAuthor>
                <id root="2.16.840.1.113883.154.1.1"/>
                    <representedOrganization>
<!--                        CUSTOMIZE ORGANIZATION ID-->
                        <id root="2.16.840.1.113883.3.154"/>
                        <name>Maricopa Integrated Hospital</name>
                    </representedOrganization>
            </assignedAuthor>
    </author>
    <custodian>
            <assignedCustodian>
                    <representedCustodianOrganization>
                            <id root="2.16.840.1.113883.3.154"/>
                            <name>Maricopa Integrated Hospital</name>
                    </representedCustodianOrganization>
            </assignedCustodian>
    </custodian>
    <informationRecipient>
            <intendedRecipient>
            <!--REQUESTING APPLICATION ID (e.g Viewer Appliaction)-->
                            <id root="2.16.840.1.113883.3.138.1.3"/>
            </intendedRecipient>
    </informationRecipient>
    <authenticator>
            <time/>
            <!--SIGNATURE CODE IS TXA-17-->
            <signatureCode code="AU"></signatureCode>
            <assignedEntity>
                    <id/>
            </assignedEntity>
    </authenticator>
    <participant typeCode="ATND">
            <associatedEntity classCode="PROV">
                    <associatedPerson>
                            <name>
                                    <prefix>Dr.</prefix>
                                    <given>Kenneth</given>
                                    <family>Ross</family>
                                    <suffix>Jr</suffix>
                            </name>
                    </associatedPerson>
            </associatedEntity>
    </participant>
    <documentationOf>
            <serviceEvent classCode="PCPR">
    <!--ORIGINAL Encounter ID FROM HL7 2.X Message
        id extension is record ID from original source system-->
            <id extension="123" root="2.16.840.1.113883.4.275.4.14"/>
```

```xml
<!--      RECORD ID/Document ID
          id extension is Record ID, this autogenerated by Emulator
          id root is an OID for EMULATOR system that generated CCD. (e.g. emulator) -->
              <id extension="1234567899" root="2.16.840.1.113883.3.154.1.1"/>
          <!--      DATE OF SERVICE-->
                  <effectiveTime value="20050304"/>
                      <performer typeCode="PRF">
                              <functionCode code="PCP" codeSystem="2.16.840.1.113883.5.88"/>
                              <assignedEntity>
                                      <id root="2.16.840.1.113883.3.154"/>
                                      <representedOrganization>
                                              <id root="2.16.840.1.113883.3.154"/>
                                              <name>Maricopa Integrated Hospital System</name>
                                      </representedOrganization>
                              </assignedEntity>
                      </performer>
              </serviceEvent>
      </documentationOf>


      <!--
******************************************************
CDA Body
******************************************************
-->
      <component>
              <structuredBody>
                                      <!--
******************************************************
Purpose section
******************************************************
-->
<component>
<section>
      <templateId root='2.16.840.1.113883.10.20.1.13'/> <!-- Purpose section template -->
      <code code="48764-5" codeSystem="2.16.840.1.113883.6.1"/>
      <title>Summary Purpose</title>
      <text>Transfer of Care</text>
      <entry typeCode="DRIV">
              <act classCode="ACT" moodCode="EVN">
                      <templateId root='2.16.840.1.113883.10.20.1.30'/> <!-- Purpose activity template -->
                      <code code="23745001" codeSystem="2.16.840.1.113883.6.96" displayName="Documentation
procedure"/>
                      <statusCode code="completed"/>
                      <entryRelationship typeCode="RSON">
                              <act classCode="ACT" moodCode="EVN">
                                      <code code="308292007" codeSystem="2.16.840.1.113883.6.96" displayName="Transfer
of care"/>
                                      <statusCode code="completed"/>
                              </act>
                      </entryRelationship>
              </act>
      </entry>
</section>
</component>
<component>
<section>
```

```xml
<templateId root="2.16.840.1.113883.10.20.1.3"/> <!-- Encounters section template -->
<code code="46240-8" codeSystem="2.16.840.1.113883.6.1"/>
<title>Encounters</title>
<text>
            <content>MARICOPA INTEGRATED HEALTH SYSTEM</content>
            <content>Center - Comprehensive Healthcare Center - Family Health Centers</content>
            <content>602) 267-5221 Medical Records</content>
            <content>PATIENT: Doe, Jane                              MR#:    12345678</content>
            <content>PHYSICIAN: TOM SANDERS, MD                       ACCT#: 0501100001</content>
            <content>DATE OF ADMISSION:    01/01/2005                  DOB:    01/01/1934|</content>
            <content>DATE OF DISCHARGE:   01/01/2005</content>
            <content></content>
             <content>DISCHARGE SUMMARY</content>
            <content></content>
            <content>HTWATERMARK</content>
            <content></content>
            <content>DIAGNOSIS ON ADMISSION</content>
            <content>Term intrauterine pregnancy</content>
            <content></content>
            <content>DIAGNOSIS ON DISCHARGE</content>
            <content>Status post primary low-transverse cesarean section secondary to non-reassuring</content>
            <content>fetal heart tones</content>
            <content></content>
            <content>PROCEDURE</content>
            <content>01/01/04 - primary low-transverse cesarean section with extension via Pfannenstiel</content>
            <content>incision</content>
            <content></content>
            <content>SURGEON</content>
            <content>DR JAMES</content>
            <content></content>
            <content>ASSISTANT</content>
            <content>DR JONES</content>
            <content></content>
            <content>ATTENDING</content>
            <content>DR FRANKLIN</content>
            <content></content>
            <content>FINDINGS</content>
            <content>Viable male 5 pound, 1 ounce Apgars of 8/9, normal tubes, uterus and ovaries.</content>
            <content></content>
            <content>HISTORY</content>
            <content>This is a 34-year-old gravida 6 para 5, 0-0-5 at 40-1/7th weeks by LMP consistent</content>
            <content>with 19 week ultrasound. She came in complaining of contractions, that started the</content>
            <content>day before, at 1300. Was SROM, had mild vaginal bleeding, denied any headaches or</content>
            <content>visual changes.   Her prenatal care had been at South Central clinic starting at 10</content>
            <content>weeks. Her prenatal labs were within normal limits except for PPD that was</content>
            <content>positive; a chest x-ray was negative and Pap was ASCUS by HPV negative.</content>
            <content></content>
            <content>HOSPITAL COURSE</content>
            <content>The patient was laboring and began to have variable decelerations. Amnioinfusion</content>
            <content>was done with fetal scalp electrode also placed.   Variable decelerations continued</content>
            <content>to persist down into the 50s. The patient was then taken for primary low-</content>
            <content>transverse cesarean section.</content>
            <content></content>
            <content>DISCHARGE MEDICATIONS</content>
            <content>Colace</content>
            <content>Motrin</content>
            <content>Prenatal vitamins</content>
```

```xml
                    <content>Percocet</content>
                    <content></content>
                    <content>DISCHARGE INSTRUCTIONS</content>
                    <content>Follow up at WCC in six weeks for a postpartum visit.   The patient will need to</content>
                    <content>follow up with the TB clinic secondary to positive PPD and negative chest x-ray</content>
                    <content>and will also need to have a repeat Pap in 12 months.</content>
                    <content></content>
                    <content>DISCHARGE CONDITION</content>
                    <content>Stable</content>
                    <content></content>
                    <content>                                            _____</content>
                    <content>                                            TOM SANDERS, MD</content>
                    <content></content>
                    <content>                                            _____</content>
                    <content>                                            FRANK FRANKLIN, MD</content>
                    <content></content>
                    <content>DD: 01/01/2003 17:12:00 AM</content>
                    <content>DT: 01/03/2005 05:15:00 AM      MLS: 12345</content>
                    <content>JOB: 1234567</content>
            </text>
        </section>
</component>
</structuredBody>
</component>
</ClinicalDocument>
```

MCPC Medication History Sample

```xml
<?xml version="1.0"?>
<?xml-stylesheet type="text/xsl" href="Schemas/LabResultsCCD.xsl"?>
<!-- The following sample document depicts a fictional character's health summary. Any resemblance to a real person is coincidental.
-->
<ClinicalDocument xmlns="urn:hl7-org:v3" xmlns:voc="urn:hl7-org:v3/voc" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:hl7-org:v3 Schemas/CDA.xsd">
        <!--
******************************************************
CDA Header
******************************************************
-->
<typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040"/>
<templateId root="2.16.840.1.113883.10.20.1"/> <!-- CCD v1.0 Templates Root -->
<!--id root=MESSAGE ID - IT SHOULD MATCH THE REQUEST MESSAGE ID-->
<id root="2.16.840"/>
<!--RECORD TYPE IS ALWAYS FIXED TO 10160-0 FOR MEDICATION HISTORY-->
<code code="10160-0" codeSystem="2.16.840.1.113883.6.1" displayName="Medication History"/>
  <title>MCPC Medication History</title>
    <!--MEDICATION HISTORY LAST PUBLISH UPDATE DATE-->
        <effectiveTime value="20000407130000+0500"/>
        <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25"/>
        <languageCode code="en-US"/>
        <recordTarget>
                <patientRole>
                    <!--id extension = MASTER PATIENT INDEX (PAT-1) and id root = MCPC Source system ID, which is
                    2.16.840.1.113883.3.182.1.1 for production and   2.16.840.1.113883.3.182.1.2 for testing    -->
                    <id extension="1014110" root="2.16.840.1.113883.3.182.1.1"/>
```

```xml
                        <!--id extension = INSURANCE ID (PAT-8) and id root =INSURANCE ID TYPE OID, which is    -->
                        <id extension="A0055766601" root="2.16.840.1.113883.4.275.4.2"/>
                        <addr>.
                        <!--postal code = ZIPCODE (PAT-7)-->
                        <postalCode>85743</postalCode>
                        </addr>
                        <patient>
                                <name>
                                        <!--given = FIRST NAME (PAT-3)-->
                                        <given>MINDY</given>
                                         <!--given with IN qualifer = MIDDLE INITIAL (PAT-4)-->
                                        <given qualifier="IN">L</given>
                                         <!--family = LAST NAME (PAT-2)-->
                                        <family>KIDD</family>
                                </name>
                                <!--administrativeGenderCode code= GENDER (PAT-5)-->
                                <administrativeGenderCode code="F" codeSystem="2.16.840.1.113883.5.1"/>
                                <!--birthTime value= Date Of Birth (PAT-6)-->
                                <birthTime value="19681108"/>
                        </patient>
                        <providerOrganization>
                                <!--id root = SOURCE SYSTEM ID, which is 2.16.840.1.113883.3.182.1.1 for production env and
                                2.16.840.1.113883.3.182.1.2 for testing env-->
                                <id root="2.16.840.1.113883.3.182.1.1"/>
                                <name>MCPC Cisco System</name>
                        </providerOrganization>
                </patientRole>
        </recordTarget>
        <author>
                <time value="20000404"/>
                <assignedAuthor>
                         <!-- id root = GATEWAY ID, which is 2.16.840.1.113883.3.138.3.7 for production env and
                        2.16.840.1.113883.3.138.3.12 for testing env -->
                    <id root="2.16.840.1.113883.3.138.3.7"/>
                        <representedOrganization>
                                <!--id root= ORGANIZATION ID, which is 2.16.840.1.113883.3.182 for MCPC-->
                                <id root="2.16.840.1.113883.3.182"/>
                                <name>Managed Care Pharmacy Consultants</name>
                                <addr>
                                        <city>Tucson</city>
                                        <state>AZ</state>
                                </addr>
                        </representedOrganization>
                </assignedAuthor>
        </author>
        <custodian>
                <assignedCustodian>
                        <representedCustodianOrganization>
                                <!--id root= ORGANIZATION ID, which is 2.16.840.1.113883.3.182 for MCPC-->
                                <id root="2.16.840.1.113883.3.182"/>
                                <name>Maricopa Integrated Hospital</name>
                        </representedCustodianOrganization>
                </assignedCustodian>
        </custodian>
        <informationRecipient>
                <intendedRecipient>
                        <!--REQUESTING APPLICATION ID, which for viewer is 2.16.840.1.113883.3.138.1.3-->
```

```xml
                    <id root="2.16.840.1.113883.3.138.1.3"/>
            </intendedRecipient>
        </informationRecipient>
        <!--
*******************************************************
CDA Body
*******************************************************
-->
        <component>
            <structuredBody>
                <!--
*******************************************************
Purpose section
*******************************************************
-->
                    <component>
                        <section>
                            <templateId root="2.16.840.1.113883.10.20.1.13"/>
                            <!-- Purpose section template -->
                            <code code="48764-5" codeSystem="2.16.840.1.113883.6.1"/>
                            <title>Summary Purpose</title>
                            <text>Transfer of care</text>
                            <entry typeCode="DRIV">
                                <act classCode="ACT" moodCode="EVN">
                                    <templateId root="2.16.840.1.113883.10.20.1.30"/>
                                    <!-- Purpose activity template -->
                                    <code code="23745001" codeSystem="2.16.840.1.113883.6.96"
                                    displayName="Documentation procedure"/>
                                    <statusCode code="completed"/>
                                    <entryRelationship typeCode="RSON">
                                        <act classCode="ACT" moodCode="EVN">
                                            <code code="308292007"
                                            codeSystem="2.16.840.1.113883.6.96"
                                            displayName="Transfer of care"/>
                                            <statusCode code="completed"/>
                                        </act>
                                    </entryRelationship>
                                </act>
                            </entry>
                        </section>
                    </component>
                    <!--
*******************************************************
Medication History section
*******************************************************
-->
        <component>
            <section>
                <templateId root="2.16.840.1.113883.10.20.1.8"/>
                <!-- Medications section template -->
                <code code="10160-0" codeSystem="2.16.840.1.113883.6.1"/>
                <title>Managed Care Pharmacy Consultants Medication History</title>
                <text>
                    <table border="0" width="100%">
                        <thead>
                            <tr>
                                <th>Medication</th>
```

```xml
			<th>Strength</th>
			<th>Date Filled</th>
			<th>Days Supply</th>
			<th>Qty</th>
			<th>Compliance Days</th>
			<th>Prescription Number</th>
			<th>Prescriber Number</th>

			<th>Prescriber</th>
			<th>Pharmacy Number</th>
			<th>Pharmacy Name</th>
		</tr>
	</thead>
	<tbody>
		<tr>
			<td   char="MED">APRI</td>
			<td   char="STRENGTH" >1.50</td>
			<td   char="FILL_DATE">20080708</td>
			<td   char="DAYS_SUP">28</td>
			<td   char="QTY">28.0</td>
			<td char="RCV"> </td>   <!--IF VALUE IS BLANK, the USE  -->
			<td char="PRESCRIPTION_NUM">06697052</td>
			<td char="PRESCRIBER_NUM"> </td>
			<!--IF VALUE IS BLANK, the USE  -->
			td   char="PRESCRIBER"> </td>
			<td   char="PHARM_NUM">0327420</td>
			<td   char="PHARM_NAME">WAL-MART PHARMACY 10 857</td>
		</tr>
		<tr>
			<td   char="MED">HYDROCODONE - ACETAMINOPHEN</td>
			<td   char="STRENGTH" >50.00</td>
			<td   char="FILL_DATE">20080709</td>
			<td   char="DAYS_SUP">2</td>
			<td   char="QTY">12.0</td>
			<td   char="RCV"> </td>
			<!--IF VALUE IS BLANK, the USE  -->
			<td   char="PRESCRIPTION_NUM">04415096</td>
			<td   char="PRESCRIBER_NUM"> </td>
			<td   char="PRESCRIBER"> </td>
			<td   char="PHARM_NUM">0327420</td>
			<td   char="PHARM_NAME">WAL-MART PHARMACY 10 857</td>
		</tr>
	</tbody>
</table>
			</text>
		</section>
	</component>
  </structuredBody>
</component>
</ClinicalDocument>
```

Appendix A Record Types Supported By AMIE

Complete List of LOINC codes to be used for Record types

Loinc Code	Description
10160-0	Medication History
11488-4	Consultation note
11490-0	Discharge summarization note - Physician
11492-6	History & physical note - Hospital
11504-8	Surgical operation note
11505-5	Procedure note - Physician
11506-3	Subsequent evaluation note
11507-1	Subsequent evaluation note - Occupational therapy
11508-9	Subsequent evaluation note - Physical therapy
11509-7	Subsequent evaluation note - Podiatry
11510-5	Subsequent evaluation note - Psychology
11512-1	Subsequent evaluation note - Speech therapy
11522-0	Study report - Heart - Cardiac echo
11523-8	Study report - Brain - EEG
11524-6	Study report - Heart - EKG
11525-3	Study report - Pelvis Fetus - OB US
11526-1	Study report - Patient - Pathology
11527-9	Study report - Patient - Psychiatry
11529-5	Study report - Patient - Surgical pathology
11536-0	Notes - Patient - Nursing
11541-0	Study report - Brain - MRI
11542-8	Subsequent visit evaluation note
15507-7	Subsequent evaluation note - Emergency department
18733-6	Subsequent evaluation note - Attending physician
18734-4	Initial evaluation note - Occupational therapy
18735-1	Initial evaluation note - Physical therapy
18736-9	Initial evaluation note - Physician
18737-7	Initial evaluation note - Podiatry
18738-5	Initial evaluation note - Psychology
18739-3	Initial evaluation note - Social service
18740-1	Initial evaluation note - Speech therapy
18741-9	Subsequent visit evaluation note - Attending physician
18742-7	Study report - Arthroscopy
18743-5	Autopsy note
18744-3	Study report - Respiratory system - Bronchoscopy
18745-0	Study report - Heart - Cardiac catheterization
18746-8	Study report - Lower GI tract - Colonoscopy
18747-6	Study - CT
18748-4	Study report - Diagnostic imaging
18749-2	Study report - Electromyogram

18750-0	Study report - Heart - Electrophysiology
18751-8	Study report - Upper GI tract - Endoscopy
18752-6	Study report - Patient - Exercise stress test
18753-4	Study report - Lower GI tract - Flexible sigmoidoscopy
18754-2	Study report - Heart - Holter monitor
18755-9	Study report - MRI
18756-7	Study report - Spine - MRI
18757-5	Study report - Radnuc
18758-3	Study - PET scan
18759-1	Study report - Respiratory system - Spirometry
18760-9	Study - US
18761-7	Transfer summarization note
18762-5	Subsequent evaluation note - Chiropractor
18763-3	Initial evaluation note - Consulting physician
18764-1	Subsequent evaluation note - Nurse practitioner
18765-8	Subsequent visit evaluation note - Podiatry
18766-6	Subsequent visit evaluation note - Psychology
18836-7	Procedure - Cardiac stress study
18841-7	Hospital consultations - Patient
18842-5	Discharge summarization note
24611-6	Confirmatory consultation note - Outpatient
26436-6	Lab Report
26436-7	Lab Report
28032-1	Report.total - Heart - Cardiac echo
28568-4	Visit note - Emergency department - Physician
28569-2	Subsequent evaluation note - Consulting physician
28570-0	Procedure note
28571-8	Visit note - Patient - Speech therapy
28572-6	Initial evaluation note - Dentistry
28573-4	Surgical operation note - Physician
28574-2	Discharge note
28575-9	Progress note - Patient - Nurse practitioner
28577-5	Procedure note - Dentistry
28578-3	Visit note - Patient - Occupational therapy
28579-1	Visit note - Physical therapy
28580-9	Progress note - Patient - Chiropractor
28581-7	Initial evaluation note - Chiropractor
28583-3	Surgical operation note - Dentistry
28615-3	Audiology study - Patient
28616-1	Transfer summarization note - Physician
28617-9	Subsequent evaluation note - Dentistry
28618-7	Visit note - Dentistry
28621-1	Initial evaluation note - Nurse practitioner
28622-9	Discharge assessment note - Nursing
28623-7	Subsequent evaluation note - Nursing
28624-5	Surgical operation note - Podiatry
28625-2	Procedure note - Podiatry
28626-0	History & physical note - Physician

28627-8	Subsequent evaluation note - Psychiatry
28628-6	Visit note - Patient - Psychiatry
28633-6	Study report - Patient - Polysomnography
28635-1	Initial evaluation note - Psychiatry
28636-9	Initial evaluation note
28651-8	Transfer summarization note - Nursing
28653-4	Visit note - Social service
28654-2	Initial evaluation note - Attending physician
28655-9	Discharge summarization note - Attending physician
28656-7	Subsequent evaluation note - Social service
29753-1	Initial evaluation note - Nursing
29754-9	Study report - Nystagmogram
29755-6	Study report - Patient - Nerve conduction
29756-4	Study report - Peritoneal space - Peritoneoscopy
29757-2	Study report - Cvx/Vag - Colposcopy
29761-4	Discharge summarization note - Dentistry
33716-2	Study report - Cytology.non-gyn
33717-0	Study report - Cvx/Vag - Cytology
33718-8	Study report - Tiss.FNA - Cyto stain
33719-6	Study report - Flow cytometry
33720-4	Blood bank consult - Patient
33721-2	Bone marrow biopsy report - Bone marrow
34094-3	Admission history and physical note - Hospital - Cardiology
34095-0	Comprehensive history & physical note
34096-8	Comprehensive history and physical - Nursing home
34097-6	Conference evaluation note - Nursing home
34098-4	Conference evaluation note
34099-2	Consultation note - Cardiology
34100-8	Consultation note - Critical care unit
34101-6	Consultation note - Outpatient - General medicine
34102-4	Consultation note - Hospital - Psychiatry
34103-2	Consultation note - Pulmonary
34104-0	Consultation note - Hospital
34105-7	Discharge summarization note - Hospital
34106-5	Discharge summarization note - Hospital - Physician
34107-3	Education procedure note - Home health
34108-1	Evaluation and management note - Outpatient
34109-9	Evaluation and management note
34110-7	Evaluation and management note - Outpatient - Diabetology
34111-5	Evaluation and management note - Emergency department
34112-3	Evaluation and management note - Inpatient
34113-1	Evaluation and management note - Nursing home
34114-9	Group counseling note - Hospital
34115-6	History & physical note - Hospital - Medical student
34116-4	History & physical note - Nursing home - Physician

34117-2	History and physical note
34118-0	Initial evaluation note - Home health
34119-8	Initial evaluation note - Nursing home
34120-6	Initial evaluation note - Outpatient
34121-4	Interventional procedure note
34122-2	Pathology procedure note - Pathology
34123-0	Pre-operative evaluation and management note - Hospital - Anesthesia
34124-8	Subsequent evaluation note - Outpatient - Cardiology
34125-5	Subsequent evaluation note - Home health care - Case manager
34126-3	Subsequent evaluation note - Critical care unit
34127-1	Subsequent evaluation note - Outpatient - Dental hygienist
34128-9	Subsequent evaluation note - Outpatient - Dentistry
34129-7	Subsequent evaluation note - Home health
34130-5	Subsequent evaluation note - Hospital
34131-3	Subsequent evaluation note - Outpatient
34132-1	Subsequent evaluation note - Outpatient - Pharmacy
34133-9	Summarization of episode note
34134-7	Supervisory note - Outpatient - Attending physician
34135-4	Supervisory note - Outpatient - Attending physician.cardiology
34136-2	Supervisory note - Outpatient - Attending physician.gastroenterology
34137-0	Surgical operation note - Outpatient
34138-8	Targeted history and physical note
34139-6	Telephone encounter note - Nursing
34140-4	Transfer of care referral note
34744-3	Admission evaluation note - Nursing
34745-0	Discharge summarization note - Nursing
34746-8	Evaluation and management note - Nursing
34747-6	Pre-operative evaluation and management note - Nursing
34748-4	Telephone encounter note
34749-2	Consultation note - Outpatient - Anesthesia
34750-0	Evaluation and management note - Anesthesia
34751-8	Pre-operative evaluation and management note - Anesthesia
34752-6	Evaluation and management note - Cardiology
34753-4	Evaluation and management note - Outpatient - Cardiology
34754-2	Evaluation and management note - Critical care
34755-9	Transfer summarization note - Critical care
34756-7	Consultation note - Dentistry
34757-5	Evaluation and management note - Dentistry
34758-3	Consultation note - Dermatology
34759-1	Evaluation and management note - Dermatology
34760-9	Consultation note - Diabetology

34761-7	Consultation note - Gastroenterology
34762-5	Evaluation and management note - Gastroenterology
34763-3	Admission history and physical note - General medicine
34764-1	Consultation note - General medicine
34765-8	Evaluation and management note - General medicine
34766-6	Evaluation and management note - Outpatient - General medicine
34767-4	Evaluation and management note - Medical student.general medicine
34768-2	Evaluation and management note - Nurse.general medicine
34769-0	Evaluation and management note - Attending physician.general medicine
34770-8	Transfer summarization note - General medicine
34771-6	Consultation note - General surgery
34772-4	Evaluation and management note - General surgery
34773-2	Evaluation and management note - Attending physician.general surgery
34774-0	History & physical note - General surgery
34775-7	Pre-operative evaluation and management note - General surgery
34776-5	Consultation note - Gerontology
34777-3	Consultation note - Gynecology
34778-1	Evaluation and management note - Gynecology
34779-9	Consultation note - Hematology+Oncology
34780-7	Evaluation and management note - Hematology+Oncology
34781-5	Consultation note - Infectious disease
34782-3	Evaluation and management note - Infectious disease
34783-1	Consultation note - Kinesiotherapy
34784-9	Evaluation and management note - Kinesiotherapy
34785-6	Consultation note - Mental health
34786-4	Evaluation and management note - Mental health
34787-2	Group counseling note - Mental health
34788-0	Consultation note - Psychiatry
34789-8	Evaluation and management note - Psychiatry
34790-6	Group counseling note - Psychiatry
34791-4	Consultation note - Psychology
34792-2	Evaluation and management note - Psychology
34793-0	Group counseling note - Psychology
34794-8	Evaluation and management note - Multidisciplinary
34795-5	Consultation note - Nephrology
34796-3	Evaluation and management note - Nephrology
34797-1	Consultation note - Neurology
34798-9	Consultation note - Neurosurgery
34799-7	Evaluation and management note - Neurosurgery
34800-3	Consultation note - Nutrition+Dietetics

34801-1	Evaluation and management note - Nutrition+Dietetics
34802-9	Evaluation and management note - Occupational health
34803-7	Consultation note - Occupational health
34804-5	Evaluation and management note - Occupational therapy
34805-2	Consultation note - Oncology
34806-0	Evaluation and management note - Oncology
34807-8	Consultation note - Ophthalmology
34808-6	Evaluation and management note - Ophthalmology
34809-4	Pre-operative evaluation and management note - Ophthalmology
34810-2	Consultation note - Optometry
34811-0	Evaluation and management note - Optometry
34812-8	Consultation note - Oromaxillofacial surgery
34813-6	Evaluation and management note - Oromaxillofacial surgery
34814-4	Consultation note - Orthopedics
34815-1	Evaluation and management note - Orthopedics
34816-9	Consultation note - Otorhinolaryngology
34817-7	Evaluation and management note - Otorhinolaryngology
34818-5	Operative note - Otorhinolaryngology
34819-3	Evaluation and management note - Pathology
34820-1	Consultation note - Pharmacy
34821-9	Evaluation and management note - Pharmacy
34822-7	Consultation note - Physical medicine and rehabilitation
34823-5	Evaluation and management note - Physical medicine and rehabilitation
34824-3	Consultation note - Physical therapy
34825-0	Evaluation and management note - Physical therapy
34826-8	Consultation note - Plastic surgery
34827-6	Evaluation and management note - Plastic surgery
34828-4	Consultation note - Podiatry
34829-2	Evaluation and management note - Podiatry
34830-0	Evaluation and management note - Pulmonary
34831-8	Consultation note - Radiation oncology
34832-6	Evaluation and management note - Radiation oncology
34833-4	Consultation note - Recreational therapy
34834-2	Evaluation and management note - Recreational therapy
34835-9	Consultation note - Rehabilitation
34836-7	Evaluation and management note - Rehabilitation
34837-5	Consultation note - Respiratory therapy
34838-3	Evaluation and management note - Respiratory therapy
34839-1	Consultation note - Rheumatology

34840-9	Evaluation and management note - Rheumatology
34841-7	Consultation note - Social work
34842-5	Evaluation and management note - Social work
34843-3	Group counseling note - Social work
34844-1	Telephone encounter note - Outpatient - Social work
34845-8	Consultation note - Speech therapy Audiology
34846-6	Evaluation and management note - Speech therapy Audiology
34847-4	Consultation note - Surgery
34848-2	Evaluation and management note - Surgery
34849-0	Consultation note - Thoracic surgery
34850-8	Evaluation and management note - Outpatient - Thoracic surgery
34851-6	Consultation note - Urology
34852-4	Evaluation and management note - Urology
34853-2	Consultation note - Vascular surgery
34854-0	Evaluation and management note - Outpatient - Vascular surgery
34855-7	Consultation note - Occupational therapy
34856-5	Evaluation and management note - Anticoagulation
34857-3	Evaluation and management note - Substance abuse
34858-1	Evaluation and management note - Pain management
34859-9	Evaluation and management note - Hyperlipidemia
34860-7	Evaluation and management note - Hypertension
34861-5	Evaluation and management note - Diabetology
34862-3	Admission evaluation note - Inpatient - Attending physician.general medicine
34863-1	Post-operative evaluation and management note - General surgery
34864-9	Counseling note - Mental health
34865-6	Counseling note - Psychiatry
34866-4	Counseling note - Psychology
34867-2	Post-operative evaluation and management note - Outpatient - Ophthalmology
34868-0	Operative note - Orthopedics
34869-8	Counseling note - Pharmacy
34870-6	Operative note - Plastic surgery
34871-4	Operative note - Podiatry
34872-2	Counseling note - Social work
34873-0	Admission evaluation note - Surgery
34874-8	Operative note - Surgery
34875-5	Post-operative evaluation and management note - Surgery
34876-3	Pre-operative evaluation and management note - Surgery
34877-1	Operative note - Urology
34878-9	Evaluation and management note - Emergency medicine

34879-7	Consultation note - Endocrinology
34880-5	Post-operative evaluation and management note - Nurse.surgery
34881-3	Pre-operative evaluation and management note - Nurse.surgery
34895-3	Education note
34896-1	Interventional procedure note - Cardiology
34897-9	Education note - Diabetology
34898-7	Evaluation and management note - Endocrinology
34899-5	Interventional procedure note - Gastroenterology
34900-1	Subsequent evaluation note - General medicine
34901-9	Subsequent evaluation note - Outpatient - General medicine
34902-7	Education note - Outpatient - Gerontology
34903-5	Note - Mental health
34904-3	Subsequent evaluation note - Mental health
34905-0	Evaluation and management note - Neurology
34906-8	Note - Pastoral care
38932-0	VA C&P exam.acromegaly
38933-8	VA C&P exam.aid and attendance &or housebound
38934-6	VA C&P exam.arrhythmias
38935-3	VA C&P exam.miscellaneous arteries &or veins
38936-1	VA C&P exam.audio
38937-9	VA C&P exam.bones fractures &or bone disease
38938-7	VA C&P exam.brain &or spinal cord
38939-5	VA C&P exam.chronic fatigue syndrome
38940-3	VA C&P exam.cold injury protocol
38941-1	VA C&P exam.cranial nerves
38942-9	VA C&P exam.cushings syndrome
38943-7	VA C&P exam.dental &or oral
38944-5	VA C&P exam.diabetes mellitus
38945-2	VA C&P exam.miscellaneous digestive conditions
38946-0	VA C&P exam.ear disease
38947-8	VA C&P exam.mental health eating disorders
38948-6	VA C&P exam.miscellaneous endocrine diseases
38949-4	VA C&P exam.epilepsy &or narcolepsy
38950-2	VA C&P exam.esophagus &or hiatal hernia
38951-0	VA C&P exam.eye
38952-8	VA C&P exam.feet
38953-6	VA C&P exam.fibromyalgia
38954-4	VA C&P exam.general medical
38955-1	VA C&P exam.genitourinary
38956-9	VA C&P exam.disability in gulf war veterans
38957-7	VA C&P exam.gynecological conditions &or disorders of the breast
38958-5	VA C&P exam.hand &or thumb &or fingers
38959-3	VA C&P exam.heart
38960-1	VA C&P exam.hemic disorders
38961-9	VA C&P exam.HIV-related illness

38962-7	VA C&P exam.hypertension
38963-5	VA C&P exam.infectious &or immune &or nutritional disabilities
38964-3	VA C&P exam.initial evaluation post-traumatic stress disorder
38965-0	VA C&P exam.large &or small intestines
38966-8	VA C&P exam.extremity joints
38967-6	VA C&P exam.liver &or gall bladder &or pancreas
38968-4	VA C&P exam.lymphatic disorders
38969-2	VA C&P exam.general mental disorders
38970-0	VA C&P exam.mouth &or lips &or tongue
38971-8	VA C&P exam.muscles
38972-6	VA C&P exam.miscellaneous neurological disorders
38973-4	VA C&P exam.nose &or sinus &or larynx &or pharynx
38974-2	VA C&P exam.peripheral nerves
38975-9	VA C&P exam.prisoner of war protocol
38976-7	VA C&P exam.pulmonary tuberculosis &or mycobacterial diseases
38977-5	VA C&P exam.rectum &or anus
38978-3	VA C&P exam.residuals of amputations
38979-1	VA C&P exam.obstructive &or restrictive &or interstitial respiratory diseases
38980-9	VA C&P exam.miscellaneous respiratory diseases
38981-7	VA C&P exam.review evaluation post-traumatic stress disorder
38982-5	VA C&P exam.scars
38983-3	VA C&P exam.sense of smell &or taste
38984-1	VA C&P exam.skin diseases other than scars
38985-8	VA C&P exam.social &or industrial survey
38986-6	VA C&P exam.spine
38987-4	VA C&P exam.stomach &or duodenum &or peritoneal adhesions
38988-2	VA C&P exam.thyroid &or parathyroid diseases
46210-1	Note - Case manager
46213-5	Tilt table study - Cardiovascular system
46214-3	Intracardiac ablation study - Heart
46215-0	Note - Wound care management
46264-8	History of medical device use
47039-3	Admission history and physical note - Inpatient
47040-1	Confirmatory consultation note
47041-9	Confirmatory consultation note - Inpatient
47042-7	Counseling note
47043-5	Group counseling note
47044-3	Initial evaluation note - Inpatient
47045-0	Study report
47046-8	Summary of death
47047-6	Supervisory note
47048-4	Diagnostic interventional study report - Interventional radiology

47049-2	Communication
47420-5	Functional status assessment
48764-5	Summary purpose - CCD
48765-2	Allergies, adverse reactions, alerts - Patient
48768-6	Payment sources - Patient
48807-2	Bone marrow aspiration report - Bone marrow