

In-patient setting

**I. INTRODUCTION**

This document contains sample test data that can be used for the certification towards objective 170.315(b)(1). This section of the Code of Federal Regulations Title 45 documents the required Health IT technology to be able to create, send and receive a summary care record formatted according to the Consolidated CDA (C-CDA) Release 2.1 and be able to receive a summary care record formatted according to the C-CDA Release 1.1.

A) Test of 45 CFR 170.315 (b) (1)

The following is the summary of test data presented herein for 170.315(b)(1) criteria.

**Conventions used in the document:**

1. The test data outlined below has both required and optional data that is specified to help the vendors create C-CDA's with the appropriate context and follow the HL7 C-CDA best practices. The optional data is indicated by enclosing them in [ ]. For e.g. [Medical Record Custodian] or [Allergy Substance].
  - a. When a narrative or text block is surrounded by [ ] the entire narrative block is optional.
  - b. When a column heading is surrounded by [ ] the data represented by the column is optional. For e.g. [ Allergy Substance ], the display name is optional.
  - c. When the data within a table cell is surrounded by [ ] the data within the cell is optional. For e.g. The information recipient Dr Albert Davis is optional from a certification standpoint. Vendors can include it in their C-CDA's to comply with HL7 C-CDA IG and best practices.

[ Information Recipient ]	[ Dr Albert Davis ]
---------------------------	---------------------

- d. The C-CDA IG allows display names and text elements to be optionally included in the structured entries. Hence the above optional markings designated by [ ] in the test data are with respect to the structured entries in the XML. If a certification criteria requires visual display of the structured data (for e.g View, Download and Transmit - VDT), then the vendors have to display the coded data elements in their English representation. For example Medication Name, Problem Name, Vital Sign Name which are English representations of the coded data have to be displayed for the VDT criteria even though they are marked optional in the test data.

2. Additional clarifications are added with the keyword **“Note”**.
3. Data that needs to be visually inspected by the ATL’s in the generated C-CDA’s are indicated by the key word **“Visual Inspection”**.
4. Guidance for No Information Sections: When the test data instructions specify “No Information” for certain data elements, vendors are expected to use the HL7 recommended best practices to represent the information. However vendors don’t have to include sections and entries not required by the document template to represent “No information”.
5. Guidance to Change Test Data: Vendors can work with their ATLs to change the test data specified below. ATLs have been provided a document on how to use the test tools to verify SUT’s capabilities when the test data is changed. This document has also been posted as part of ETT Google Group thread: [https://groups.google.com/forum/#!topic/edge-test-tool/fDYr\\_kqp9\\_g](https://groups.google.com/forum/#!topic/edge-test-tool/fDYr_kqp9_g)

To exemplify 170.315 (b) (1), the following clinical scenario will be employed.

**Document Narrative:**

[ Ms. Rebecca Larson is a 45 year old female with a history of Hypertension, Hypothyroidism, Iron deficiency and is a recipient of Renal Allograft is admitted on 6/22/2015 at 10 am EST to Community Health and Hospitals with history of intermittent fever for 2 days. The patient disclosed history of nausea, loose stools and weakness. She was found to have Anemia secondary to iron deficiency and CKD. After conducting multiple tests and administering necessary medications, the patient was discharged to Ambulatory facility to follow up with immunosuppression as an out-patient. The condition of the patient at discharge was stable, with controlled blood sugar levels and a pain score below 3. Additional follow up instructions have been provided to the patient. ]

**Note:** The test data provided in the document was captured during this encounter including historical data. The contextual data provided is to help the vendors create their C-CDA documents using appropriate data. Vendors can ignore the contextual data if it is not required for C-CDA generation; however the generated C-CDA is expected to contain the data relevant to the criteria as specified in the regulation.

**II. HEADER DATA**

**Note:** The following data is part of the medical record header identifying the contextual information necessary when exchanging data.

A) USCDI Data Class/Element: Patient Demographics

USCDI Data Elements	Contextual Data Elements required for the Medical Record encoding to C-CDA IG	Details	Additional Information
Patient Name (First Name, Last Name, Previous Name, Middle Name, Suffix)		First Name: Rebecca Last Name: Larson Middle Name: Jones Previous Name: Robin Suffix:	The Previous Name specified is the Patient's Birth Name and should be coded accordingly.
Sex		Female (F)	
Date of Birth		5/1/1970	
Race		White (2106-3)	
More Granular Race Code		2108-9(White European)	
Ethnicity		Not Hispanic or Latino (2186-5)	
Preferred Language		English (en)	
Current Address	Home Address	1357, Amber Dr, Beaverton, OR-97006	
Phone Number		Mobile: 555-777-1234 Home: 555-723-1544	

B) Relevant Information regarding the Visit

**Note: The information in this table is provided for context and to help populate the required elements in the C-CDA Header along with any ONC Health IT Certification Program-required data elements.**

USCDI Data Elements	Contextual Data Elements required for medical record encoding to C-CDA	Details	Additional Information
	Providers Name	Dr Henry Seven First Name: Henry Last Name: Seven	[ Dr Seven and his staff work for Community Health and Hospitals 1002, Healthcare Dr, Portland, OR-97266 ]
	Office Contact Information	Mary McDonald First Name: Mary Last Name: McDonald Telephone: 555-555-1002	

USCDI Data Elements	Contextual Data Elements required for medical record encoding to C-CDA	Details	Additional Information
	[ Author/Legal Authenticator/ Authenticator of Electronic Medical Record ]	[ Dr Henry Seven Date: 6/22/2015 ]	
	[ System that generated the document ]	[ Community Health Hospitals EMR ]	
	[ Informants ]	[ Frank Larson (Spouse) First Name: Frank Last Name: Larson ]	
	[ Medical Record Custodian ]	[ Community Health and Hospitals ]	
	[ Information Recipient ]	[ Dr Henry Seven ]	
	Admission Date	6/22/2015	
	Discharge Date	6/24/2015	
Care Team Members	Care Team Members	Dr Henry Seven (Function: Attending Physician) (NPI – 9941339100) Since: 6/22/2020 Mary McDonald (Professional nurse – 106292003) Telephone: 555-555-1002 Address: Community Health and Hospitals 1002, Healthcare Dr, Portland, OR-97266	
Related Person	[ Other Participants in event ]	[ Mr Robert Matthews (Grand Parent) First Name: Robert Last Name: Matthews Mr Frank Larson (Spouse) – Same Address information as Ms Rebecca Larson. ]	
	[ Event Documentation Details or Documentation of Event ]	[ Dr Henry Seven (PCP) 2 day encounter Event Code = Anemia ]	[ Code for Anemia Finding: <b>164139008</b> , Code System: SNOMED-CT ]

### III. BODY DATA

**Note:** The following data is part of the medical record details identifying the relevant clinical data captured as part of the visit.

#### A) USCDI Data Class/Element: Allergies and Intolerances

**Note:** Allergies and Intolerances are to be represented using the Allergies and Intolerances Section. The Start Date is to be represented using the effectiveTime data element of Allergy Intolerance Observation as biologically relevant time.

Code	CodeSystem	[ Allergy Substance ]	Reaction	Severity	[Timing Information]	Concern Status
7980 (IN)	RxNorm	Penicillin G	Hives (code-247472004, SNOMED-CT)	Moderate	Start Date – 5/10/1980,	Active
733 (IN)	RxNorm	Ampicillin	Hives (code-247472004, SNOMED-CT)	Moderate	Start Date – 5/10/1980,	Active
111088007	SNOMED-CT	Latex	Skin rash (code-271807003 SNOMED-CT)	Moderate	Start Date – 5/10/1990,	Active

#### B) USCDI Data Class/Element: Medications

**Note:** Timing information (Start and End Dates) are to be represented using the effectiveTime data element in the Medication Activity entry.

Code	CodeSystem	[ Medication Name]	[Timing Information]	Route	Frequency	Dose	Indication	Dispense Data
309090 (SCD)	RxNorm	Ceftriaxone 100 MG/ML	StartDate: 6/22/2015, End Date 6/30/2015	Injectable	Two times daily	1 unit	Fever Problem Observation	Fill Status = Completed, Repeat Number = 2, quantity = 6
209459 (SBD)	RxNorm	Tylenol 500mg	StartDate: 6/22/2015, End Date 6/30/2015	Oral	As needed	1 unit	Fever Problem Observation	

Code	CodeSystem	[ Medication Name]	[Timing Information]	Route	Frequency	Dose	Indication	Dispense Data
731241 (SBD)	RxNorm	Aranesp 0.5 MG/ML	StartDate: 6/22/2015, End Date 6/30/2015	Injectable	Once a week	1 unit	Chronic rejection of renal transplant Problem Observation (disorder)	
284215 (SCD)	RxNorm	Clindamycin 300mg	StartDate: 6/23/2015, End Date 6/30/2015	Oral	Three times daily	1 unit		
198371 (SCD)	RxNorm	Torsemide 20mg	StartDate: 6/23/2015, End Date 6/30/2015	Oral	Daily	1 unit		
860886 (SCD)	RxNorm	FenoFibric Acid 35 mg	StartDate: 6/24/2015, End Date: 7/4/2015	Oral	At the hour of sleep	1 unit		
485023 (SCD)	RxNorm	Mycophenolic Acid 360 mg	StartDate: 6/24/2015, End Date: 6/27/2015	Oral	Two times daily	1 unit		
977434 (SCD)	RxNorm	Everolimus 0.5 mg	StartDate: 6/24/2015, End Date: 7/20/2015	Oral	Two times daily	1 unit		
197511 (SCD)	RxNorm	Ciprofloxacin 250 mg	StartDate: 6/24/2015 , End Date: 7/24/2015	Oral	Three times daily	1 unit		

**Medication Instructions For All Medications Identified Above: (Visual Inspection – ATL’s need to visually inspect the System Under Test (SUT) generated C-CDA for the text content, the validator will validate the presence of the Medication Instructions entry. Only the text content needs to be visually inspected.)**

- Do Not Take on Empty Stomach

**Medication Adherence For All Medications Identified Above:**

Observation Code	Observation code's CodeSystem	Observation Code [Display Name]	Observation Value	Observation Value's CodeSystem	Observation Value [Display Name]
71799-1	LOINC	Adherence to prescribed medication instructions [Reported]	1156699004	SNOMED-CT	Complies with drug therapy (finding)

**[Informant Information for Adherence data: This data can be coded as an informant participant for the Observation]**

- Information provided by the Patient
  - Code = 116154003, CodeSystem = SNOMED-CT, Display Name = Patient (person)

C) USCDI Data Class/Element: Problems

**Note:** Timing information is to be represented using the effectiveTime data element in the Problem Observation. Start Date is to be used as Onset Date and End Date as Resolution Date.

Code	CodeSystem	[ Problem Name ]	[Timing Information]	Health concern status
59621000	SNOMED-CT	Essential hypertension (Disorder, )	5/10/2015 - Start Date	Active
83986005	SNOMED-CT	Severe Hypothyroidism (Disorder)	12/31/2006 – Start Date	Active
236578006	SNOMED-CT	Chronic rejection of renal transplant (disorder)	12/31/2011 – Start Date	Active
87522002	SNOMED-CT	Iron deficiency anemia (disorder)	6/22/2015 – Start Date	Active
64667001	SNOMED-CT	Interstitial pneumonia (disorder)	6/22/2015 – Start Date	Active
238131007	SNOMED-CT	Overweight (finding)	12/31/2006 – Start Date 6/1/2007 – End Date	Completed

D) Encounter Diagnoses

**Note:** Encounter Diagnoses can be represented by either SNOMED-CT or ICD-10. So SUT can choose either the ICD-10 code or the SNOMED-CT code as appropriate from the table below based on the

CodeSystem supported. Vendors can generate an Encounter Identifier of choice and the Validator checks for the Encounter Identifier to be present in the Encounter Section/Encounter Activity/id element.

Code	CodeSystem	[ Description ]	Start Date	Service Delivery Location	Discharge Disposition	Encounter Type
D63.1	ICD-10	Anemia in Chronic Kidney Disease	6/22/2015	Community Health and Hospitals 1002, Healthcare Dr, Portland, OR-97266 Facility Type (Code = 1027-2, Medical Critical Care CodeSystem = Healthcare Service Location Code System)	Discharged to Home(N UBC Code - 01)	Inpatient Encounter CPT Code = 99221
234348004	SNOMED-CT	Anemia of renal disease	6/22/2015	Community Health and Hospitals 1002, Healthcare Dr, Portland, OR-97266 Facility Type (Code = 1027-2, Medical Critical Care CodeSystem = Healthcare Service Location Code System)	Discharged to Home(N UBC Code - 01)	Inpatient Encounter CPT Code = 99221

E) USCDI Data Class/Element: Procedures

**Note:** Target Site is provided for context, vendors may or may not choose to include this as part of the C-CDA entries. Date is to be represented using the effectiveTime data element in the Procedure Activity Procedure entry.

Code	CodeSystem	[ Procedure Name ]	[ Target Site ]	[Date]	[ Service Delivery Location ]
10847001	SNOMED-CT	Bronchoscopy	91724006 (Tracheobronchial structure (body structure))	6/22/2015	Community Health and Hospitals 1002, Healthcare Dr, Portland, OR-97266



Code	CodeSystem	[ Procedure Name ]	[ Target Site ]	[Date]	[ Service Delivery Location ]
168731009	SNOMED-CT	Chest X-Ray, PA and Lateral Views	82094008 (Lower Respiratory Tract Structure)	6/22/2015	Community Health and Hospitals 1002, Healthcare Dr, Portland, OR-97266
175135009	SNOMED-CT	Introduction of cardiac pacemaker system via vein	9454009 – Structure of subclavian vein, Code System - SNOMED-CT	10/5/2011	Community Health and Hospitals 1002, Healthcare Dr, Portland, OR-97266

F) Diagnostic Imaging Test / Diagnostic Imaging Report: (**Visual Inspection** - Validator will verify the Test Code but the test report has to be Visually Inspected by the ATL.)

**Note:** If Vendors attach an X-ray or an equivalent document for the report, ATL's need to visually inspect the System Under Test (SUT) generated C-CDA to verify the attachment.

Test Code	Code System	Test Name	Date	Result
30746-2	LOINC	Portable Chest Xrays	- 6/22/20215	Lungs may be infected further tests needed.

I) USCDI Data Class/Element: Clinical Notes (**Visual Inspection** – ATL's need to visually inspect the System Under Test (SUT) generated C-CDA for the text content, the validator will validate the presence of the notes section and entry. Only the text content needs to be visually inspected.)

#### **F.1 Procedure Note:**

Dr Seven examined Ms Rebecca Larson and found that the pacemaker is operating properly and the breathlessness is due to high fever and anxiety.

G) USCDI Data Class/Element: Immunizations

**Note:** Additional Notes represent why the Immunization was cancelled and there are no specific notes applicable to the completed immunizations.

Vaccine Code	CodeSystem	[ Vaccine Name ]	Date	Status	[Lot Number]	[Manufacturer Name]	Additional Notes
106	CVX	Tetanus and diphtheria toxoids	1/4/2012	Completed	2	Immuno Inc.	N/A
166	CVX	influenza, intradermal, quadrivalent, preservative free	6/22/2015	Cancelled		Immuno Inc.	Immunization was not given - Patient rejected immunization

H) USCDI Data Class/Element: Vital Signs

Code	Code System	[ Vitals Name ]	Timing Information	Value and Units
8302-2	LOINC	Height	6/22/2015 [ 10:05 EST ]	Value=177 units=cm
29463-7	LOINC	Weight	6/22/2015 [ 10:05 EST ]	Value=88 units=kg
8462-4 (Diastolic)	LOINC	Blood Pressure-Diastolic	6/22/2015 [ 10:08 EST ]	Value=88 units=mm[Hg]
8480-6 (Systolic)	LOINC	Blood Pressure-Systolic	6/22/2015 [ 10:08 EST ]	Value=145 units=mm[Hg]
8867-4	LOINC	Heart Rate	6/22/2015 [ 10:10 EST ]	Value=80 Units=/min
<b>59408-5</b>	LOINC	O2 % BldC Oximetry	6/22/2015 [ 10:12 EST ]	Value=95 units=%
3150-0	LOINC	Inhaled Oxygen Concentration	6/22/2015 [10:12 EST]	Value=36 units=%
8310-5	LOINC	Body Temperature	6/22/2015 [ 10:15 EST ]	Value=38 Units=Cel
9279-1	LOINC	Respiratory Rate	6/22/2015 [ 10:15 EST ]	Value=18 units=/min
96607-7 - (Average BP) 96608-5 – (Systolic Mean) 96609-3 – (Diastolic Mean)	LOINC	Average Blood Pressure	6/22/2015 [10:15 EST]	Value = 143/82 units = mm[Hg]

I) USCDI Data Class/Element: Laboratory Test

**Note:** The pending Urinalysis lab test has no results yet and is a planned future event and has to be coded accordingly. The HL7 best practice to code a pending lab test is to represent it with a planned observation in the Plan of Treatment section.

Test Code	Code System	[ Name ]	Date
24357-6	LOINC	Urinalysis macro (dipstick) panel	6/22/2015
58410-2	LOINC	CBC	6/22/2015
24357-6	LOINC	Urinalysis macro (dipstick) panel	6/29/2015

J) USCDI Data Class/Element: Laboratory Values/Results

**Note:** The results below correspond to the CBC (First 4 rows) and the Urinalysis (Rest of the rows in the table except the first 4 rows) lab tests on 6/22/2015. Reference Ranges such as YELLOW are optional and vendors may or may not choose to include them as part of their C-CDA entries. Additionally when units are not present then the result value does not require any specific unit. The status of the Results are completed.

Result Code	Code System	[ Name ]	Result Value and units	Date	Reference Range	Interpretation
30313-1	LOINC	HGB	Value=10.2 units= g/dL	6/22/2015		
33765-9	LOINC	WBC	Value = 12.3 units=10*3/uL	6/22/2015	N/A - 500,000	
26515-7	LOINC	PLT	Value=123 units= 10*3/uL	6/22/2015		
50544-6	LOINC	Everolimus Blood	Value=10 units=ng/mL	6/22/2015	2.0-8.0	
5778-6	LOINC	Color of Urine	YELLOW	6/22/2015	YELLOW	N – Normal
5767-9	LOINC	Appearance of Urine	CLEAR	6/22/2015	CLEAR	N - Normal
5811-5	LOINC	Specific gravity of Urine by Test strip	1.015	6/22/2015	1.005 – 1.030	N – Normal
5803-2	LOINC	pH of Urine by Test strip	Value=5.0 units=[pH]	6/22/2015	5.0-8.0	N – Normal
5792-7	LOINC	Glucose [Mass/volume] in urine by test strip	Value=50 units=mg/dL	6/22/2015	Neg	L - Low
5797-6	LOINC	Ketones [Mass/Volume] in urine by test strip	Negative	6/22/2015	Negative	

Result Code	Code System	[ Name ]	Result Value and units	Date	Reference Range	Interpretation
5804-0	LOINC	Protein[Mass/V olume] in urine by test strip	Value=100 units=mg/dL	6/22/2015	negative	

**Specimen Information for the 6/22/2015 Urinalysis Panel (24357-6):**

Specimen Code	Specimen Code System	Specimen [ Display Name ]	Specimen Collection Body Site Code	Specimen Collection Body Site Code System	[Specimen Collection Body Site Display Name]
122575003	SNOMED CT	Urine Specimen (specimen)	827038004	SNOMED CT	Normal External Genitalia

**Note:** Specimen Identifier can be generated by the Vendor and the validator will only validate for the presence.

**Specimen Condition for the 6/22/2015 Urinalysis Panel (24357-6):**

Specimen Condition Code	Specimen Condition Code System	Specimen Condition [ Display Name ]
<a href="#">125152006</a>	SNOMED CT	Specimen satisfactory for evaluation

- K) Clinical Tests and Clinical Results (**Visual Inspection** – ATL’s need to visually inspect the System Under Test (SUT) generated C-CDA for the text content, the validator will validate the presence of the notes section and entry. Only the text content needs to be visually inspected.)

**Note:** Clinical Results may be just text or PDF attachments and hence it may not be represented as a structured value. This has to be validated by visual inspection

Test Code	Code System	[ Test Name ]	Result Value and units	Date
44975-1	LOINC	EKG	0.4 seconds	6/22/2015

- L) USCDI Data Class/Element: Clinical Notes (**Visual Inspection** – ATL’s need to visually inspect the System Under Test (SUT) generated C-CDA for the text content, the validator will validate the presence of the notes section and entry. Only the text content needs to be visually inspected.)

#### **K.1 Laboratory Narrative:**

Ms Rebecca Larson was tested for the Urinalysis macro panel and CBC and the results have been found to be normal.

- M) USCDI Data Class/Element: Smoking Status

**Note:** The C-CDA IG specifies how Smoking Status has to be represented using a combination of Tobacco Use and Smoking Status templates. Vendors are expected to follow the C-CDA IG to encode these data elements appropriately

Element Description	[ Description ]	Start Date	End Date	Code	Code System
Current Smoking Status	Current every day	6/22/2015	-	449868002	SNOMED-CT

- N) USCDI Data Class/Element: Unique Device Identifiers for a Patient’s Implantable Device(s)

**Note:** Device Code is provided for context, vendors may or may not choose to include this as part of the C-CDA entries. Also the implantable device identified below was introduced as part of the procedure documented in the procedure section namely “Introduction of cardiac pacemaker system via vein”.

UDI	Assigning Authority	[ Device Code ]	[ Scoping Entity ]
(01)00643169007222(17)160128(21)BLC200461H	FDA	704708004 - Cardiac resynchronization therapy implantable pacemaker, CodeSystem – SNOMED-CT	FDA

- O) USCDI Data Class/Element: Assessment and Plan of Treatment:

- a. **Assessment (Visual Inspection** – ATL’s need to visually inspect the System Under Test (SUT) generated C-CDA for the below narrative content)

- i. The patient was found to have Anemia and Dr Seven and his staff diagnosed the condition and treated Ms Rebecca for Anemia during the 2 day stay at Community Health Hospitals. Ms Rebecca recovered from Anemia during the stay and is being discharged in a stable condition. If there is fever greater than 101.5 F or onset of chest pain/breathlessness the patient is advised to contact emergency.
- b. **Plan of Treatment (Visual Inspection** – ATL’s need to visually inspect the System Under Test (SUT) generated C-CDA for the below narrative content)
  - i. Schedule an appointment with Dr Seven after 1 week for Follow up with Outpatient facility for Immunosuppressive therapy.

P) SDOH Assessment

The following is a social history assessment on hunger vital signs. This has to be represented using the Assessment Scale Observation within the Social History section.

Assessment Code	Code System	[Display Name]	Status and Date	Value of the Assessment
88121-9	LOINC	Hunger Vital Signs	Completed on 6/22/2015	2 (Integer)
<b>Assessment Questions to be represented as Assessment Scale Supporting Observation</b>				
88122-7	LOINC	(I/We) worried whether (my/our) food would run out before (I/we) got money to buy more	Completed on 6/22/2015	LA28397-0 (LOINC code – Often true)
88123-5	LOINC	Within the past 12Mo the food we bought just didn't last and we didn't have money to get more	Completed on 6/22/2015	LA28397-0 (LOINC code – Often true)

Q) SDOH Intervention

This information is to be represented as a Planned Procedure in the Plan of Treatment section.

Intervention Code	Code System	[Display Name]	Proposed Date
467771000124109	SNOMED-CT	Assistance with application for food pantry program	Authored on 6/22/2015 to be acted on 6/23/2015

**R)** USCDI Data Class/Element: Goals: **(Visual Inspection** – ATL’s need to visually inspect the System Under Test (SUT) generated C-CDA for the below narrative content)

- a. Need to gain more energy to do regular activities.(**Visual Inspection**)
- b. Negotiated Goal to keep Body Temperature at 98-99 degrees Fahrenheit with regular monitoring.

S) SDOH Goal

The data presented in the table has to be represented as a Goal Observation.

Goal Code	Code System	[Display Name]	[Achieve By Date]
161036002	SNOMED-CT	Housing Adequate (finding)	8/31/2015

**T)** USCDI Data Class/Element: HealthConcerns: **(Visual Inspection** – ATL’s need to visually inspect the System Under Test (SUT) generated C-CDA for the below narrative content)

- c. Chronic Sickness exhibited by patient
- d. HealthCare Concerns refer to underlying clinical facts
  - i. Documented HyperTension problem
  - ii. Documented HypoThyroidism problem
  - iii. Watch Weight of patient
  - iv. Documented Anemia problem

U) SDOH Health Concern

This data has to be represented in the Health Concerns Section using the Health Concern Act wrapping a Problem Observation.

Health Concern Data:

Code	CodeSystem	[ Health Concern Name ]	[Timing Information]	Concern Status
<b>75310-3</b>	LOINC	Health Concern	6/22/2015	Active

Problem Observation Data:

Code	CodeSystem	[ Problem Name ]	[Timing Information]	Concern Status
<b>733423003</b>	SNOMED-CT	Food insecurity	6/22/2015	Active

V) Discharge Instructions (**Visual Inspection** – ATL’s need to visually inspect the System Under Test (SUT) generated C-CDA for the below narrative content)

- a. Diet: Diabetic low salt diet
- b. Medications: Take prescribed medications as advised.
- c. Appointments: Schedule an appointment with Dr Seven after 1 week. Follow up with Outpatient facility for Immunosuppression treatment.
- d. For Fever of > 101.5 F, or onset of chest pain/shortness of breath contact Emergency.

W) Reason For Referral:

Referral Code	CodeSystem	Timing Information	Referral Status	Indication Code For Referral
103696004	SNOMED-CT	6/22/2015	Active	Problem Observation data related to Chronic Kidney Disease in Problems Section

Ms Rebecca Larson is being referred to a Specialist for a Kidney examination.

X) Functional Status (The below observation is to be represented as a Functional Status Observation)

Functional Condition	Code	Code System	Date
Dependence on Cane	105504002	SNOMED-CT	5/1/2005



Y) Disability Status (The below observation is to be represented as Disability Observation in Functional Status Section)

CUBS Disability Status Answer	Code	Code System	Date
I'm Vulnerable - I sometimes or periodically have acute or chronic symptoms affecting housing, employment, social interactions, etc.	LA29243-5	LOINC	6/22/2015

The below data has to be represented as an Assessment Scale Observation associated with the Disability Status observation identified above.

Disability Assessment Answer	Assessment Question Code	Assessment Questions Code System	Date
Code - LA33-6, CodeSystem – LOINC, Display - YES	69859-7 Display - (Do you have serious difficulty walking or climbing stairs?))	LOINC	6/22/2015

Z) Substance Use

The following is a social history assessment on Substance Use. This MUST be represented using the Assessment Scale Observation within the Social History section.

Assessment Code	Code System	[Display Name]	Status and Date	Value of the Assessment
82666-9	LOINC	Drug Abuse Screening Test-10[DAST-10]	Completed on 6/22/2015	3 (Moderate Level)
<b>Assessment Questions to be represented as Assessment Scale Supporting Observation</b>				
68525-5	LOINC	Have you used drugs other than those required for medical reasons?	Completed on 6/22/2015	Yes (LOINC code LA33-6)
68528-9	LOINC	Have you had “blackouts” or “flashbacks” as a result of drug use?	Completed on 6/22/2015	No (LOINC code LA 32-8)

#### AA) Alcohol Use

The following is a social history assessment on Alcohol Use. This has to be represented using the Assessment Scale Observation within the Social History section.

Assessment Code	Code System	[Display Name]	Status and Date	Value of the Assessment
72109-2	LOINC	Alcohol Use Disorder Identification Test - Consumption [AUDIT-C]	Completed on 6/22/2015	2
<b>Assessment Questions to be represented as Assessment Scale Supporting Observation</b>				
<a href="#">68518-0</a>	LOINC	How often do you have a drink containing alcohol?	Completed on 6/22/2015	2-4 times a month (LOINC code <a href="#">LA18927-6</a> )
<a href="#">68520-6</a>	LOINC	<b>How often do you have 6 or more drinks on 1 occasion?</b>	Completed on 6/22/2015	Never (LOINC code <a href="#">LA6270-8</a> )

#### BB) Physical Activity Assessment

The following is a social history assessment on Physical Activity. This has to be represented using the Assessment Scale Observation within the Social History section.

Assessment Code	Code System	[Display Name]	Status and Date	Value of the Assessment
77582-5	LOINC	International Physical Activity Questionnaire Self-Administered Short Form [IPAQ]	Completed on 6/22/2015	Moderate (LOINC code = <a href="#">LA6751-7</a> )
<b>Assessment Questions to be represented as Assessment Scale Supporting Observation</b>				
88393-4	LOINC	During the last 7 days, on how many days did you walk for at least 10 minutes at a time to go from place to place [IPAQ]	Completed on 6/22/2015	4 days/week  Value =4 UCUM units (d/wk)

CC) Mental Status (To be represented as a Mental Status Observation)

Mental Status Observation	Code	Code System	Date
Amnesia	48167000	SNOMED-CT	5/1/2005

DD) Basic Occupation and Occupation Industry (These data elements are to be represented as Basic Occupation and Basic Occupation Industry Observations)

USCDI Data Elements	Code	Code System	Date
Basic Occupation	37-2011.00.028742 [Display Name: (Odd Jobs Day Worker [Janitors and Cleaners, Except Maids and Housekeeping])]	2.16.840.1.114222.4.5.327	6/22/2015
Basic Occupation Industry	561720.002294 [Display Name: (Building cleaning services, interior [Janitorial Services ])]	2.16.840.1.114222.4.5.327	6/22/2015

EE) Tribal Affiliation (This data element has to be represented as a Tribal Affiliation Observation)

USCDI Data Elements	Details	Code System	Date
Tribal Affiliation	65 [Display Name: (Coquille Indian Tribe)]	2.16.840.1.113883.5.140	6/22/2015

FF) Pregnancy Status

USCDI Data Elements	Details	Code System	Date
Pregnancy Status	60001007 [Display Name: (Not Pregnant)]	SNOMED CT	6/22/2015

GG) Health Insurance Information

USCDI Data Elements	Start Date
Coverage Status	1/1/2022

USCDI Data Elements	Code	Code System
Coverage Type	72	Source of Payment Typology, OID: 2.16.840.1.113883.3.221.5

USCDI Data Elements	Code	Code System	[Display Name]
Relationship To Subscriber	FAMDEP	HL7RoleCode (OID: oid:2.16.840.1.113883.5.111 )	Family dependent

USCDI Data Element	Value
Member Identifier	88800933502
Subscriber Identifier	888009335
Group Identifier	[Root - 2.16.840.1.113883.19] – Vendors may use a different root value if needed as per their system. Only the extension will be validated. Extension – Acme Gold Plan
Payer Identifier and Other information	Payer Identifier: Root - 2.16.840.1.113883.6.300 Payer Name: Example Payer Organization Address: 1234 Insurance Road City: Blue Bell State: MA Country : US Telecom: (555)555-1515

HH) USCDI Data Class/Element: Clinical Notes (**Visual Inspection** – ATL’s need to visually inspect the System Under Test (SUT) generated C-CDA for the text content, the validator will validate the presence of the notes section and entry. Only the text content needs to be visually inspected.)

### T.1 Progress Note Narrative:

Ms Rebecca Larson got admitted due to developing high fever and since has shown considerable improvement and can be discharged shortly.

#### II) Treatment Intervention Preference

Details	Code System	Date	Value (String or ED)
75773-2 [Display Name: (Goals, preferences, and priorities for medical treatment [Reported] )]	LOINC	6/22/2015	If I am in chest pain or breathlessness, please contact my cardiologist "Mr Cardio Specialist" at "Happy Cardiologists" before treating.

#### JJ) Care Experience Preference

Details	Code System	Date	Value (String or ED)
95541-9 [Display Name: (Care experience preference )]	LOINC	6/22/2015	For any heart related procedure, I would like to speak my cardiologist friend "Mr Cardio Specialist" at "Happy Cardiologists" before the procedure.