

Ambulatory Setting

I. INTRODUCTION

This document contains sample test data that can be used for the certification towards 2015 objective 170.315(e)(1). This section of the Code of Federal Regulations Title 45 documents the required Health IT technology to provide patients or their representatives the ability to View, Download and Transmit health information formatted according to the Consolidated CDA (C-CDA) Release 2.1

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

<Include text of 45 CFR 170.315 (e) (1) here for reference>

B) Summary of test data presented herein

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]
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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"**.

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

Document Narrative:

[Ms. Alice Newman is a 45 year old female with a history of Hypertension, Hypothyroidism, Iron deficiency and is a recipient of Renal Allograft visits Neighborhood Physicians Practice on 6/22/2015 at

10am EST. The patient disclosed history of nausea, loose stools and weakness. After initial examination the patient was found to have fever, she was administered necessary medications and after examining the history of the patient, chest x-ray and the lab results, the doctor suspected anemia. So the patient was referred to Community Health Hospitals an Inpatient facility to get appropriate treatment and was asked to watch for appropriate changes in body temperature, blood pressure and take nebulizer treatment as needed.]

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) Patient Demographics

CCDS Data Elements	Contextual Data Elements required for the Medical Record encoding to C-CDA IG	Details	Additional Information
Patient Name		First Name: Alice Last Name: Newman Middle Name: Jones Previous Name: Alicia 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)	
	Home Address	1357, Amber Dr, Beaverton, OR-97006	
	Telephone 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 2015 S&CC data elements.

CCDS Data Elements	Contextual Data Elements required for medical record encoding to C-CDA	Details	Additional Information
Referring or Transitioning Providers Name		Full Name: Dr Albert Davis First Name: Albert Last Name: Davis	
Office Contact Information		Full Name: Tracy Davis First Name: Tracy Last Name: Davis Telephone: 555-555-1002 Address: 2472, Rocky place, Beaverton, OR-97006	
	[Author/Legal Authenticator/ Authenticator of Electronic Medical Record]	[Dr Albert Davis Date: 6/22/2015]	
	[System that generated the document]	[Neighborhood Physicians Practice EMR]	
	[Informants]	[Matthew Newman (Spouse) First Name: Matthew Last Name: Newman]	
	[Medical Record Custodian]	[Neighborhood Physicians Practice]	
	[Information Recipient]	[Dr Albert Davis]	
	[Visit Date]	[6/22/2015]	
Care Team Members	Care Team Members	Dr Albert Davis Tracy Davis	

CCDS Data Elements	Contextual Data Elements required for medical record encoding to C-CDA	Details	Additional Information
	[Other Participants in event]	[Mr Rick Holler (Grand Parent) First Name: Rick Last Name: Holler Mr Matthew Newman (Spouse) First Name: Matthew Last Name: Newman (Mr Rick and Mr Matthew have the same address information as Ms Alice.)]	
	[Event Documentation Details or Documentation of Event]	[Dr Albert Davis 30 minute encounter Event Code = Fever]	[Code for Fever Finding: 386661006 , 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) Medication Allergies

Code	CodeSystem	[Allergy Substance]	Reaction	Severity	Timing Information	Concern Status
1432525 (SBD)	RxNorm	Penicillin G benzathine	Hives (code- 247472004, SNOMED-CT)	Moderate	Start Date – 5/10/1980,	Active
240984 (SCD)	RxNorm	Ampicillin 100 MG/ML / Sulbactam 50 MG/ML Injectable Solution	Hives (code- 247472004, SNOMED-CT)	Moderate	Start Date – 5/10/1980,	Active

B) Medications

Code	CodeSystem	[Medication Name]	Timing Information	Route	Frequency	Dose
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Code	CodeSystem	[Medication Name]	Timing Information	Route	Frequency	Dose
309090 (SCD)	RxNorm	Ceftriaxone 100 MG/ML	6/22/2015 – Start Date 6/30/2015 – End Date	Injectable	Two times daily	1 unit
209459 (SBD)	RxNorm	Tylenol 500mg	For 10 days, starting from 6/22/2015	Oral	As needed	1 unit
731184 (SCD)	RxNorm	Darbepoetin Alfa 0.5 MG/ML	6/22/2015 – Start Date (No End Date)	Injectable	Once a week	1 unit

C) Problems

Code	CodeSystem	[Problem Name]	Timing Information	Concern Status
59621000	SNOMED-CT	Essential hypertension (Disorder,)	10/5/2011 – 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
386661006	SNOMED-CT	Fever (finding)	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

Code	CodeSystem	[Description]	Date Recorded	[Service Delivery Location]
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Code	CodeSystem	[Description]	Date Recorded	[Service Delivery Location]
386661006	SNOMED-CT	Fever – Finding	6/22/2015	Neighborhood Physicians Practice Address: 2472, Rocky place, Beaverton, OR-97006

E) 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
88	CVX	Influenza Virus Vaccine	5/10/2014	Completed	1	Immuno Inc.	N/A
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	No Lot number provided – Vendors need to use NullFlavor	Immuno Inc.	Immunization was not given - Patient rejected immunization

F) Vital Signs

Code	Code System	[Vitals Name]	Date	Value
8302-2	LOINC	Height	6/22/2015, [10:05 EST]	177 cm
29463-7	LOINC	Weight	6/22/2015, [10:05 EST]	88 kg
8462-4 (Diastolic) 8480-6 (Systolic)	LOINC	Blood Pressure	6/22/2015, [10:08 EST]	145/88 mmHg
8867-4	LOINC	Heart Rate	6/22/2015 [10:10 EST]	80 beats per minute

Code	Code System	[Vitals Name]	Date	Value
59408-5	LOINC	O2 % BldC Oximetry	6/22/2015 [10:12 EST]	95%
8310-5	LOINC	Body Temperature	6/22/2015 [10:15 EST]	38 degree Celsius
9279-1	LOINC	Respiratory Rate	6/22/2015 [10:15 EST]	18 breaths per minute

G) Smoking Status and Tobacco Use

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
Historical Smoking Status	Heavy tobacco smoker	5/1/2005	2/27/2011	428071000124103	SNOMED-CT
Current Smoking Status	Current every day	6/22/2015	-	449868002	SNOMED-CT

H) Procedures

Note: Target Site is provided for context, vendors may or may not choose to include this as part of the C-CDA entries.

Code	[Procedure Name]	Date	[Target Site]	Status	[Service Delivery Location]
(56251003) – SNOMED-CT	Nebulizer Therapy	6/22/2015	82094008- Lower Respiratory Tract Structure, Code System – SNOMED-CT	Completed	Neighborhood Physicians Practice Telephone: 555-555-1002 Address: 2472, Rocky place, Beaverton, OR-97006

Code	[Procedure Name]	Date	[Target Site]	Status	[Service Delivery Location]
175135009 (SNOMED-CT)	Introduction of cardiac pacemaker system via vein	10/5/2011	9454009 – Structure of subclavian vein, Code System - SNOMED-CT	Completed	Community Health Hospitals. Telephone: 555-555-1003 Address: 3525, Newberry Avenue, Beaverton, OR-97006.

I) Laboratory Tests

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
24357-6	LOINC	Urinalysis macro (dipstick) panel	6/29/2015

J) Laboratory Values/Results

Note: The results below correspond to the Urinalysis lab test 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.

Result Code	Code System	[Name]	Actual Result	Date	[Reference Range]
5778-6	LOINC	Color of Urine	YELLOW	6/22/2015	YELLOW
5767-9	LOINC	Appearance of Urine	CLEAR	6/22/2015	CLEAR
5811-5	LOINC	Specific gravity of Urine by Test strip	1.015	6/22/2015	1.005 – 1.030
5803-2	LOINC	pH of Urine by Test strip	5.0 pH	6/22/2015	5.0-8.0
5792-7	LOINC	Glucose [Mass/volume] in urine by test strip	50mg/dl	6/22/2015	Neg
5797-6	LOINC	Ketones [Mass/Volume] in urine by test strip	Negative	6/22/2015	Negative
5804-0	LOINC	Protein[Mass/Volume] in urine by test strip	100mg/dl	6/22/2015	negative

Laboratory Location Details for the above Laboratory Results: The laboratory location details are required to meet the 42 CFR 493.1291(c)(1) through (7) requirements identified in the Regulation. This information can be coded using the Author entry.

Location Item	Location Details
Id	2.16.840.1.113883.19.5
Name	Value Labs
Address	Address: 2474, Rocky place, Beaverton, OR-97006
Telephone	555-666-1002

K) UDI:

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

L) 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 fever and Dr Davis is suspecting Anemia based on the patient history. So Dr Davis asked the patient to closely monitor the temperature and blood pressure and get admitted to Community Health Hospitals if the fever does not subside within a day.
- 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. Get an EKG done on 6/23/2015.
 - ii. Take Clindamycin 300mg three times a day as needed if pain does not subside/
 - iii. Schedule follow on visit with Neighborhood Physicians Practice on 7/1/2015.

- M) Goals **(Visual Inspection** – ATL’s need to visually inspect the System Under Test (SUT) generated C-CDA for the below narrative content)
- a. Get rid of intermittent fever that is occurring every few weeks.
 - b. Need to gain more energy to do regular activities
- N) HealthConcerns **(Visual Inspection** – ATL’s need to visually inspect the System Under Test (SUT) generated C-CDA for the below narrative content)
- a. Chronic Sickness exhibited by patient
 - b. HealthCare Concerns refer to underlying clinical facts
 - i. Documented HyperTension problem
 - ii. Documented HypoThyroidism problem
 - iii. Watch Weight of patient
- O) Reason For Referral: **(Visual Inspection** – ATL’s need to visually inspect the System Under Test (SUT) generated C-CDA for the below narrative content)

Ms Alice Newman is being referred to Community Health Hospitals Inpatient facility because of the high fever noticed and suspected Anemia.

P) Diagnostic Imaging Report:

Test Code	Code System	[Name]	Date
36643-5	LOINC	Chest X-ray 2 Views	6/22/2015

Diagnostic Imaging Report – Consulting Specialists Interpretation: **(Visual Inspection** – ATL’s need to visually inspect the System Under Test (SUT) generated C-CDA for the below narrative content)

- Lungs are not clear, cannot rule out Anemia. Other tests are required to determine the presence or absence of Anemia.