STDCRX
Sexually Transmitted Disease Case Report Exchange

A SOLUTION FOR THE SEXUALLY TRANSMITTED DISEASE SURVEILLANCE CASE REPORT DATA MAPPING PROJECT OF THE CENTER FOR DISEASE CONTROL'S DIVISION OF STD PREVENTION

Mapping of Clinical Elements from C-CDA Case Reporting Template to FHIR Resource Specification

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
1	Date of the Report	Required if available	

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
ClinicalDocument/author	DiagnosticReport
C-CDA Nodes	**FHIR Nodes**
time/@value *Example: 20151107094221+0000*	effectiveDateTime/@value *Example: 2015-11-07T09:42:21Z*

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
2	Report Submission Date/Time	Required	

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
N/A	DiagnosticReport
C-CDA Nodes	**FHIR Nodes**
Use the current date and time at the server location when STDCRX receives the report	issued/@value *Example: 2016-11-30T17:37:40.167-06:00*

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
3	Sending Application	Required	

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
ClinicalDocument/author	DiagnosticReport
C-CDA Nodes	**FHIR Nodes**
assignedAuthor/id/@root *Example: 2.16.840.1.113883.3.72.5.20*	presentedForm/title/@value *Example: 2.16.840.1.113883.3.72.5.20*

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REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
4	Provider ID	*Required if available	*The group agreed that at least one Provider identifier/contact variable must be required, but did not care which one. How and whether this caveat could be implemented needs further discussion.

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
ClinicalDocument/componentOf/ encompassingEncounter	Practitioner
C-CDA Nodes	**FHIR Nodes**
responsibleParty/assignedEntity/id/@root *Example: 2.16.840.1.113883.4.6*	identifier/system/@value *Example: 2.16.840.1.113883.4.6*
responsibleParty/assignedEntity/id/ @extension *Example: 6666666666666*	identifier/value/@value *Example: 6666666666666*

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
5	Provider Name	*See Provider ID	

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
ClinicalDocument/componentOf/ encompassingEncounter	Practitioner
C-CDA Nodes	**FHIR Nodes**
responsibleParty/assignedEntity/assignedPerson/ name/given *Example: "Michael"*	name/given *Example: "Michael"*
responsibleParty/assignedEntity/assignedPerson/ name/family *Example: "Coletta"*	name/family *Example: "Coletta"*
responsibleParty/assignedEntity/assignedPerson/ name/suffix/@qualifier *Example: "AC"*	N/A
responsibleParty/assignedEntity/assignedPerson/ name/suffix *Example: "M.D."*	N/A

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REQUESTED CLINICAL ELEMENT			
No.	Element Name	Inclusion	Comments
6	Provider Phone	*See Provider ID	

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
ClinicalDocument/componentOf/ encompassingEncounter	Practitioner
C-CDA Nodes	**FHIR Nodes**
responsibleParty/assignedEntity/telecom/@value *Example: "tel:+1(555)555-1003"*	telecom/value/@value *Example: "tel:+1(555)555-1003"*
responsibleParty/assignedEntity/telecom/@use *Example: "WP"*	telecom/system/@value *Example: "phone"*

REQUESTED CLINICAL ELEMENT			
No.	Element Name	Inclusion	Comments
7	Provider Fax	*See Provider ID	

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
ClinicalDocument/componentOf/ encompassingEncounter	Practitioner
C-CDA Nodes	**FHIR Nodes**
responsibleParty/assignedEntity/telecom/@value *Example: "fax:+1(555)555-1004"*	telecom/value/@value *Example: "fax:+1(555)555-1004"*
responsibleParty/assignedEntity/telecom/@use *Example: "WP"*	telecom/system/@value *Example: "fax"*

REQUESTED CLINICAL ELEMENT			
No.	Element Name	Inclusion	Comments
8	Provider Email	*See Provider ID	

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
ClinicalDocument/componentOf/ encompassingEncounter	Practitioner
C-CDA Nodes	**FHIR Nodes**
responsibleParty/assignedEntity/telecom/@value	telecom/value/@value

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Example: "mailto:michaelc@bmass.com"	*Example: "mailto:michaelc@bmass.com"*
responsibleParty/assignedEntity/telecom/@use *Example: "WP"*	telecom/system/@value *Example: "email"*

REQUESTED CLINICAL ELEMENT			
No.	Element Name	Inclusion	Comments
9	Provider Facility/Office Name	*See Provider ID	

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
	Practitioner
C-CDA Nodes	**FHIR Nodes**

REQUESTED CLINICAL ELEMENT			
No.	Element Name	Inclusion	Comments
10	Provider Address	*See Provider ID	

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
ClinicalDocument/componentOf/ encompassingEncounter	Practitioner
C-CDA Nodes	**FHIR Nodes**
responsibleParty/assignedEntity/addr/ streetAddressLine *Example: "2100 North Ave"*	address/line/@value *Example: "2100 North Ave"*
responsibleParty/assignedEntity/addr/city *Example: "Burlington"*	address/city/@value *Example: "Burlington"*
responsibleParty/assignedEntity/addr/state *Example: "MA"*	address/state/@value *Example: "MA"*
responsibleParty/assignedEntity/addr/postalCode *Example: "02368"*	address/postalCode/@value *Example: "02368"*
responsibleParty/assignedEntity/addr/ country *Example: "US"*	address/country/@value *Example: "US"*

REQUESTED CLINICAL ELEMENT			
No.	Element Name	Inclusion	Comments
11	Provider County	*See Provider ID	

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STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
	Practitioner
C-CDA Nodes	**FHIR Nodes**

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
12	Facility ID Number	Required if available	

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
ClinicalDocument/componentOf/ encompassingEncounter	Location
C-CDA Nodes	**FHIR Nodes**
location/healthCareFacility/id/@root *Example: "2.16.840.1.113883.4.6"*	identifier/system/@value *Example: "2.16.840.1.113883.4.6"*
location/healthCareFacility/id/@extension *Example: "77777777777"*	identifier/value/@value *Example: "77777777777"*

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
13	Facility Name	Required if available	

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
ClinicalDocument/componentOf/ encompassingEncounter	Location
C-CDA Nodes	**FHIR Nodes**
location/healthCareFacility/ serviceProviderOrganization/name *Example: "Salem Medical Center"*	name/@value *Example: "Salem Medical Center"*

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
14	Facility Type	Optional	

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
ClinicalDocument/componentOf/ encompassingEncounter	Location
C-CDA Nodes	**FHIR Nodes**
location/healthCareFacility/code/@codeSystem *Example: "2.16.840.1.113883.1.11.17660"*	type/coding/system/@value *Example: "2.16.840.1.113883.1.11.17660"*
location/healthCareFacility/code/@code *Example: "OF"*	type/coding/code/@value *Example: "OF"*
location/healthCareFacility/code/@displayName *Example: "Outpatient facility"*	type/coding/display/@value *Example: "Outpatient facility"*

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
15	Facility Phone	Required if available	

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
ClinicalDocument/componentOf/ encompassingEncounter	Location
C-CDA Nodes	**FHIR Nodes**
location/healthCareFacility/ serviceProviderOrganization/telecom/@value *Example: "tel: 1+(555)-555-1212"*	telecom/value/@value *Example: "tel: 1+(555)-555-1212"*
location/healthCareFacility/ serviceProviderOrganization/telecom/@use *Example: "WP"*	telecom/system/@value *Example: "phone"*

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
16	Facility Address	Required if available	

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
ClinicalDocument/componentOf/ encompassingEncounter	Location
C-CDA Nodes	**FHIR Nodes**

location/healthCareFacility/ serviceProviderOrganization/addr/streetAddressLine *Example: "4646 Brown Rd"*	address/line/@value *Example: "4646 Brown Rd"*
location/healthCareFacility/ serviceProviderOrganization/addr/city *Example: "Salem"*	address/city/@value *Example: "Salem"*
location/healthCareFacility/ serviceProviderOrganization/addr/state *Example: "MA"*	address/state/@value *Example: "MA"*
location/healthCareFacility/ serviceProviderOrganization/addr/postalCode *Example: "02368"*	address/postalCode/@value *Example: "02368"*
location/healthCareFacility/ serviceProviderOrganization/addr/country *Example: "US"*	address/country/@value *Example: "US"*

REQUESTED CLINICAL ELEMENT			
No.	Element Name	Inclusion	Comments
17	Facility Fax	Optional	

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
ClinicalDocument/componentOf/ encompassingEncounter	Location
C-CDA Nodes	**FHIR Nodes**
location/healthCareFacility/ serviceProviderOrganization/telecom/@value *Example: "fax: 1+(555)-555-1213"*	telecom/value/@value *Example: "fax: 1+(555)-555-1213"*
location/healthCareFacility/ serviceProviderOrganization/telecom/@use *Example: "WP"*	telecom/system/@value *Example: "fax"*

REQUESTED CLINICAL ELEMENT			
No.	Element Name	Inclusion	Comments
18	Hospital Unit	Required if available	Most state/locals did not expect to need this for STI. Some might want it for Hospital Acquired Infections.

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**

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ClinicalDocument/componentOf/ encompassingEncounter	Practitioner
C-CDA Nodes	**FHIR Nodes**
responsibleParty/assignedEntity/telecom/@value *Example: "mailto:michaelc@bmass.com"*	telecom/value/@value *Example: "mailto:michaelc@bmass.com"*

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
19	Patient ID Number	Required if available	Would need metadata to determine what type of ID is being provided (SSN, MRN, etc).

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
ClinicalDocument/recordTarget/patientRole	Patient
C-CDA Nodes	**FHIR Nodes**
id/@root *Example: "2.16.840.1.113883.4.1"*	identifier/system/@value *Example: "2.16.840.1.113883.4.1"*
...	identifier/use/@value *Example: "usual"*
...	Identifier/type/coding/system/@value *Example: "http://hl7.org/fhir/identifier-type"*
...	identifier/type/coding/code/@value *Example: "SB"*
...	identifier/type/coding/display/@value *Example: "Social Beneficiary Identifier"*
id/@extension *Example: "111-00-1234"*	identifier/value/@value *Example: "111001234"*

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
20	Patient Name	Required	

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
ClinicalDocument/recordTarget/patientRole	Patient
C-CDA Nodes	**FHIR Nodes**
patient/name/given *Example: "John"*	name/given *Example: "John"*
patient/name/family *Example: "Stinn"*	name/family *Example: "Stinn"*

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REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
21	Parent/Guardian Name	Needs more discussion	There are legal implications here. A "required" designation could trump a doctor's legal responsibilities to protect patient privacy especially for emancipated minors. Could we redefine "if available" to mean data is in the HER and it is OK to include with respect to law, regulations, etc?

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
ClinicalDocument/recordTarget/patientRole	Patient
C-CDA Nodes	**FHIR Nodes**
patient/guardian/guardianPerson/name/given *Example: "Ruth"*	contact/name/given *Example: "Ruth"*
patient/guardian/guardianPerson/name/family *Example: "Stinn"*	contact/name/family *Example: "Stinn"*

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
22	Parent/Guardian Phone	Patient: Required if available	The Parent/Guardian variables should be separated as two discrete elements. No decision was made about the Guardian variables because of the emancipated minor issues mentioned above. Need to consider other communication modes, devices.

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
ClinicalDocument/recordTarget/patientRole	Patient
C-CDA Nodes	**FHIR Nodes**
patient/guardian/telecom/@value *Example: "tel: 1+(555)-555-1212"*	contact/telecom/value/@value *Example: "tel: 1+(555)-555-1212"*
patient/guardian/telecom/@use *Example: "HP"*	contact/telecom/system/@value *Example: "phone"*

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**

23	Parent/Guardian Email	Patient: Required if available	Parent/Guardian: needs more discussion

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
ClinicalDocument/recordTarget/patientRole	Patient
C-CDA Nodes	**FHIR Nodes**
patient/guardian/telecom/@value *Example: "mailto:ruths@email.com"*	telecom/value/@value *Example: "mailto:ruths@email.com"*
patient/guardian/telecom/@use *Example: "H"*	telecom/system/@value *Example: "email"*

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
24	Street Address	Required if available	

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
ClinicalDocument/recordTarget/patientRole	Patient
C-CDA Nodes	**FHIR Nodes**
addr/streetAddressLine *Example: "5101 Peachtree St NE"*	address/line/@value *Example: "5101 Peachtree St NE"*
addr/city *Example: "Atlanta"*	address/city/@value *Example: "Atlanta"*
addr/state *Example: "GA"*	address/state/@value *Example: "GA"*
addr/postalCode *Example: "30302"*	address/postalCode/@value *Example: "30302"*
addr/country *Example: "US"*	address/country/@value *Example: "US"*

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
25	Birth Date	Required if available	

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
ClinicalDocument/recordTarget/patientRole	Patient
C-CDA Nodes	**FHIR Nodes**

patient/birthTime/@value *Example: "19741124"*	birthDate/@value *Example: "1974-11-24"*

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
26	Patient Sex	Required if available	HL7 makes a distinction between "administrative" and "biological" sex, the latter requiring a blood test. The sex noted in the HER is likely administrative as it is probably recorded based on observation by a clerical person. Harmonize with other HL7 practices for recording sex.

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
ClinicalDocument/recordTarget/patientRole	Patient
C-CDA Nodes	**FHIR Nodes**
patient/administrativeGenderCode/@code *Example: "M"*	gender/@value *Example: "male"*

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
27	Patient Class	Required if available	

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
ClinicalDocument/componentOf/ encompassingEncounter	Patient/extension/@url="patientClass"/ valueCodeableConcept
C-CDA Nodes	**FHIR Nodes**
code/@code *Example: "99213"*	coding/code/@value *Example: "99213"*
code/@codeSystem *Example: "2.16.840.1.113883.6.12"*	coding/system/@value *Example: "2.16.840.1.113883.6.12"*
code/@displayName *Example: "Office outpatient visit 15 minutes"*	coding/display/@value *Example: "Office outpatient visit 15 minutes"*

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
28	Race	Required if available	Need to determine which vocabulary, Centers for Disease Control and Prevention (CDC) (Public

			Health Information Network Vocabulary Access and Distribution System); White House Office of Management and Budget (OMB)/HL7; Office of the National Coordinator (ONC) Common Clinical Data Set (CCDS). Should be designed to roll up to the OMB standard because "unknown" is not in the OMB standard, but is in CDC's designations.

STDCRX MAPPING	
C-CDA Element Root	**FHIR Element Root**
	Patient
C-CDA Nodes	**FHIR Nodes**

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
29	Ethnicity	Required if available	See comment for race.

STDCRX MAPPING	
C-CDA Element Root	**FHIR Element Root**
	Patient
C-CDA Nodes	**FHIR Nodes**

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
30	Preferred language	Required if available	See ONC CCDS, but also consider specifying spoken versus written language.

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
ClinicalDocument/recordTarget/patientRole	Patient/communication
C-CDA Nodes	**FHIR Nodes**
patient/languageCommunication/languageCode/ @code *Example: "eng"*	language/coding/code/@value *Example: "eng"*
patient/languageCommunication/preferenceInd/ @value *Example: "true"*	preferred/@value *Example: "true"*

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REQUESTED CLINICAL ELEMENT			
No.	Element Name	Inclusion	Comments
31	Occupation	Required if available	

STDCRX MAPPING	
C-CDA Element Root	**FHIR Element Root**
	Patient
C-CDA Nodes	**FHIR Nodes**

REQUESTED CLINICAL ELEMENT			
No.	Element Name	Inclusion	Comments
32	Pregnant	Required if available	

STDCRX MAPPING	
C-CDA Element Root	**FHIR Element Root**
	Condition
C-CDA Nodes	**FHIR Nodes**

REQUESTED CLINICAL ELEMENT			
No.	Element Name	Inclusion	Comments
33	Travel history	Optional	

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
This is not implemented in STDCRX.	This is not implemented in STDCRX.
C-CDA Nodes	**FHIR Nodes**
N/A	N/A

REQUESTED CLINICAL ELEMENT			
No.	Element Name	Inclusion	Comments
34	Insurance type	Required if available	Changed from original element of insurance. Clarify Insurance type or status versus insurance carrier (first is priority).

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STDCRX MAPPING	
C-CDA Element Root	**FHIR Element Root**
This is not implemented in STDCRX.	This is not implemented in STDCRX.
C-CDA Nodes	**FHIR Nodes**

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
35	Immunization History	Optional	Changed from original element immunization status. Using "immunization" corresponds to wording in the CCDS, which is prudent.

STDCRX MAPPING	
C-CDA Element Root	**FHIR Element Root**
ClinicalDocument/component/structuredBody/ component/section	Immunization
C-CDA Nodes	**FHIR Nodes**
Use a randomly generated value as a placeholder for the FHIR ID since the element has no relation to the C-CDA document	id/@value *Example: 2859*
entry/substanceAdministration/id/@root *Example: e6f1ba43-c0ed-4b9b-9f12-f435d8ad8f92*	identifier/system/@value *Example: "urn:system"* identifier/value/@value *Example: e6f1ba43-c0ed-4b9b-9f12-f435d8ad8f92*
entry/substanceAdministration/statusCode/@code *Example: "completed"*	status/@value *Example: "completed"*
entry/substanceAdministration/effectiveTime/ @value *Example: 199911*	date/@value *Example: "1999-11-01T00:00:00-06:00"*
entry/substanceAdministration/routeCode/@code *Example: "C28161"*	route/coding/code/@value *Example: "C28161"*
entry/substanceAdministration/routeCode/ @codeSystem *Example: "2.16.840.1.113883.3.26.1.1"*	route/coding/system/@value *Example: "2.16.840.1.113883.3.26.1.1"*
entry/substanceAdministration/routeCode/ @codeSystemName *Example: "National Cancer Institute (NCI) Thesaurus"*	N/A
entry/substanceAdministration/routeCode/ @displayName *Example: "Intramuscular injection"*	route/coding/display/@value *Example: "Intramuscular injection"*

entry/substanceAdministration/doseQuantity/ @value *Example: "50"*	doseQuantity/value/@value *Example: "50"*
entry/substanceAdministration/doseQuantity/@unit *Example: "ug"*	N/A
entry/substanceAdministration/consumable/ manufacturedProduct/manufacturedMaterial/code/ @code *Example: "88"*	vaccineCode/coding/code/@value *Example: "88"*
entry/substanceAdministration/consumable/ manufacturedProduct/manufacturedMaterial/code/ @codeSystem *Example: "2.16.840.1.113883.6.59"*	vaccineCode/coding/system/@value *Example: "2.16.840.1.113883.6.59"*
entry/substanceAdministration/consumable/ manufacturedProduct/manufacturedMaterial/code/ @displayName *Example: "Influenza virus vaccine"*	vaccineCode/coding/display/@value *Example: "Influenza virus vaccine"*
entry/substanceAdministration/consumable/ manufacturedProduct/manufacturedMaterial/code/ @codeSystemName *Example: "CVX"*	N/A

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
36	Visit/Time	Required if available	The group agreed that this is an ambiguous variable. More relevant dates might be "specimen collection date" or "laboratory test date."

STDCRX MAPPING	
C-CDA Element Root	**FHIR Element Root**
	Encounter
C-CDA Nodes	**FHIR Nodes**

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
37	Admission Date/Time	Required if available	

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**

ClinicalDocument/componentOf/ encompassingEncounter	Encounter
C-CDA Nodes	**FHIR Nodes**
effectiveTime/low/@value *Example: "20151107"*	period/start/@value *Example: "2015-11-07"*
effectiveTime/high/@value *Example: "20151107"*	period/end/@value *Example: "2015-11-07"*

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
38	Date of Onset	Required if available	Data quality concerns. Patients often do not have symptoms of chlamydia or gonorrhea or cannot recall when symptoms started, or the discovery of the infection is a result of a routine screening.

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
ClinicalDocument/component/structuredBody/ component/section/templateId/entry/encounter	Condition
C-CDA Nodes	**FHIR Nodes**
entryRelationship/act/entryRelationship/ observation/effectiveTime/low/@value *Example: "20151101"*	onsetDateTime/@value *Example: "2015-11-01T00:00:00+00:00"*

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
39	Symptoms (list)	Required if available	The group was unsure how the data are recorded in the EHR, whether it is structured data with a value set and if public health would only receive symptoms associated with the event of interest. Also discussed were asymptomatic patients. Providers would prefer a dichotomous asymptomatic indicator (e.g., a checkbox).

STDCRX MAPPING	
C-CDA Element Root	**FHIR Element Root**
	Condition
C-CDA Nodes	**FHIR Nodes**

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No.	**Element Name**	**Inclusion**	**Comments**
40	Laboratory order code	Optional	Comorbidity information is desirable, especially if human immunodeficiency virus-infected. Might be more interested in laboratories performing tests rather than those ordered.

STDCRX MAPPING	
C-CDA Element Root	**FHIR Element Root**
This is not implemented in STDCRX.	This is not implemented in STDCRX.
C-CDA Nodes	**FHIR Nodes**

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
41	Placer order number	Required if available	

STDCRX MAPPING	
C-CDA Element Root	**FHIR Element Root**
This is not implemented in STDCRX.	This is not implemented in STDCRX.
C-CDA Nodes	**FHIR Nodes**
responsibleParty/assignedEntity/telecom/@value *Example: "mailto:michaelc@bmass.com"*	telecom/value/@value *Example: "mailto:michaelc@bmass.com"*

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
42	Diagnosis	Required if available	Changed from "diagnoses." The group decided that if the patient had comorbid conditions, they would want one electronic case report per reportable condition. Concern was expressed about legal authority if public health receives all diagnoses or all related diagnoses (e.g., pelvic inflammatory disease).

STDCRX MAPPING	
C-CDA Element Root	**FHIR Element Root**
	Condition
C-CDA Nodes	**FHIR Nodes**

STDCRX
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REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
43	Date of diagnosis	Required if available	

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
ClinicalDocument/component/structuredBody/ component/section/templateId/entry/encounter	Condition
C-CDA Nodes	**FHIR Nodes**
entryRelationship/act/entryRelationship/ observation/effectiveTime/low/@value *Example: "20151107"*	dateRecorded/@value *Example: "2015-11-07"*

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
44	Medication provided	Required if available	Changed from "medication administered (list)." Want medication, dosage, and date. CCDS data element name is "medications" and references RXNorm (National Library of Medicine, https://www.nlm.nih.gov/research/umls/rxnorm/) as the standard.

STDCRX MAPPING	
C-CDA Element Root	**FHIR Element Root**
	MedicationAdministration
C-CDA Nodes	**FHIR Nodes**

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
45	Death date	Required if available	

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
ClinicalDocument/recordTarget/patientRole	Patient
C-CDA Nodes	**FHIR Nodes**
patient/deceasedInd/@value	deceasedBoolean/@value

STDCRX

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Example: "true"	Example: "true"
patient/deceasedTime/@value	deceasedTime/@value
Example: "20151128"	Example: "2015-11-28"

REQUESTED CLINICAL ELEMENT			
No.	Element Name	Inclusion	Comments
46	Date discharged	Optional	

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
This is not implemented in STDCRX.	This is not implemented in STDCRX.
C-CDA Nodes	**FHIR Nodes**
N/A	N/A

REQUESTED CLINICAL ELEMENT			
No.	Element Name	Inclusion	Comments
47	Laboratory results	Required if available	Added to original list; while the expert panel elected to make this a required element, the designation of required if available is consistent with the case detection logic and a scenario where the medical record has a diagnosis code but no record of laboratory results.

STDCRX MAPPING	
C-CDA Element Root	**FHIR Element Root**
ClinicalDocument/component/structuredBody/ component/section/templateId/@root = '2.16.840.1.113883.10.20.22.2.3.1'/..	Observation
C-CDA Nodes	**FHIR Nodes**

entry/organizer/component/observation/code/ @codeSystem
 	
  Example: "2.16.840.1.113883.6.1"
entry/organizer/component/observation/code/ @code
  Example: "20570-8"
entry/organizer/component/observation/code/ @displayName
  Example: "Hematocrit"
entry/organizer/component/observation/ value/@value
  Example: "35.3"
	code/coding/system
	  Example: "2.16.840.1.113883.6.1"
	Code/coding/code
	  Example: "20570-8"
	Code/coding/display
	  Example: "Hematocrit"
	valueQuantity/value
	  Example: "35.3"
	valueQuantity/unit
	  Example: "%"

entry/organizer/component/observation/value/@unit *Example: "%"* entry/organizer/component/observation/value/@type *Example: "PQ"*	

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
48	Trigger code that initiated electronic case report	Required	Added to original list. Given the high volume of chlamydia and gonorrhea case reports, having an algorithm that identifies true cases and minimizes any subsequent requests to clinicians for additional case data for these conditions is highly desirable.

STDCRX MAPPING	
C-CDA Document Element Root	**FHIR Resource Element Root**
ClinicalDocument/documentationOf/serviceEvent	Encounter/extension/@url="triggerCode"/ valueCodeableConcept
C-CDA Nodes	**FHIR Nodes**
code/@code *Example: "63938009"*	coding/code/@value *Example: "63938009"*
code/@codeSystem *Example: "2.16.840.1.113883.6.96"*	coding/system/@value *Example: "2.16.840.1.113883.6.96"*
code/@displayName *Example: "C. trachomatis [organism]"*	coding/display/@value *Example: "C. trachomatis [organism]"*

REQUESTED CLINICAL ELEMENT			
No.	**Element Name**	**Inclusion**	**Comments**
49	Laboratory test(s) performed	Required if available	Added to original list; while the expert panel elected to make this a required element, the designation of required if available is consistent with the case detection logic and a scenario where the medical record has a diagnosis code but no record of laboratory tests performed.

STDCRX MAPPING	
C-CDA Element Root	**FHIR Element Root**
ClinicalDocument/component/structuredBody/	DiagnosticReport

component/section/templateId/@root = '2.16.840.1.113883.10.20.22.2.3.1'	
C-CDA Nodes	**FHIR Nodes**
entry/organizer/code/@codeSystem *Example: "2.16.840.1.113883.6.1"* entry/organizer/code/@code *Example: "57021-8"* entry/organizer/code/@displayName *Example: "CBC W Auto Differential panel in Blood"*	code/coding/system *Example: "2.16.840.1.113883.6.1"* Code/coding/code *Example: "57021-8"* Code/coding/display *Example: "CBC W Auto Differential panel in Blood"*