

## Interoperability Scenarios

### Care Theme: Public Health

### Act 17- Cancer Reporting to a Public Health State Cancer Registry – Chronic Lymphocytic Leukemia

**Scenario Primary Goal:** To demonstrate clinical information exchanged with a Public Health Agency.

#### Key Points:

- Use of IHE Profiles and HITSP constructs to demonstrate submission of cancer information from a clinic/physician office EMR to a Public Health State Cancer Registry, provide clinical information from the PCP to a Public Health State Cancer Registry on all patients diagnosed with a reportable cancer.
- The scenario demonstrates how a clinic/physician office EMR can submit information to a Public Health State Cancer Registry. With more clinics integrating laboratory services within their environment, it has become more important for clinic/physician offices to report clinical information on patients that are diagnosed with cancer in their clinics. Implementation of routine reporting from clinic/physician offices will ensure that certain reportable cancers are not under-reported to the Public Health State Cancer Registry. An under-reporting of certain cancers will give an invalid picture of cancer incidence in the United States.
- The clinic/physician office has laboratory services available within their clinic, so the PCP is able to complete testing and receive results from the tests more immediately. Without routine PCP reporting of patients diagnosed with cancer, the Public Health State Cancer Registry incidence rates will be under-represented because there will be no other way for the Public Health State Cancer Registry to become aware of the cases diagnosed in the office setting.

#### Meaningful Use Relevance

##### MU Objective 4: Improving Population and Public Health

- Submission to Public Health Agencies for Surveillance and Reporting

#### Clinical Workflow:

The Primary Care Physician (PCP) sees a patient in the clinic and orders a complete blood count (CBC). The White Blood cell count results are high. The PCP makes a formal diagnosis of Chronic Lymphocytic Leukemia (CLL), and sets up a treatment plan to manage symptoms, and sends a case report to the Public Health State Cancer Registry. The Public Health State Cancer Registry receives electronic submissions of the Cancer Registry Form including demographics, clinic notes, and treatment data. The Public Health State Cancer Registry links the records for the same patient and creates a public health cancer record that includes demographic traits, cancer diagnosis and treatment related information. On an annual basis the Public Health State Cancer Registry creates a pseudonymized file of cancer records and transmits it to the CDC National Program of Cancer Registries. The CDC National Program of Cancer Registries prepares a national file of cancer records for public use and produces the annual United States Cancer Statistics.

**Patient #2: Chronic Lymphocytic Leukemia (CLL)**

Care Scenario Steps:	Care Setting From	Care Setting To	IHE Profiles	Title	HITSP Constructs	Title
<b>17-1</b> Primary Care Physician (PCP) sees patient in the clinic and orders a complete blood count (CBC)	PCP Office	Clinic – Internal PCP Lab				
<b>17-2</b> Clinic PCP Lab reviews specimen and submits report to PCP EMR that indicates disease is CLL.	Clinic – Internal PCP Lab	PCP Office				
<b>17-3</b> PCP makes formal diagnosis and determines that treatment plan will be management of symptoms.	PCP Office					
<b>17-4</b> PCP EMR triggers the Cancer Registry Form which the PCP completes and transmits the completed Cancer Registry Form to the Public Health State Cancer Registry.	PCP EMR	Public Health State Cancer Registry	RFD (ITI) DSC (QRPH)  PRPH (QRPH New Directions)	Retrieve Form for Data Capture Drug Safety Content Provider Reporting to a Public Health Repository (QRPH New Directions)	HITSP/CAP135 HITSP/TP50 HITSP/C76	Retrieve and Populate Form Retrieve Form for Data Capture Case Report Pre-Populate
<b>17-5</b> Review Infrastructure			SVS (QRPH) RFD (ITI) DSC (QRPH) PRPH (QRPH New Directions)	Sharing Value Sets Retrieve Form for Data Capture Drug Safety Content Provider Reporting to a Public Health Repository (QRPH New Directions)	HITSP/CAP122 HITSP/T66 HITSP/CAP135 HITSP/TP50 HITSP/C76	Retrieve Medical Knowledge Retrieve Value Sets Retrieve and Populate Form Retrieve Form for Data Capture Case Report Pre-Populate
<b>17-6</b> Public Health State Cancer Registry receives and processes Cancer Registry Form for inclusion of data in the Public Health State Cancer Registry Database.	Public Health State Cancer Registry	Public Health State Cancer Registry Database	RFD (ITI) DSC (QRPH) PRPH (QRPH New Directions)	Retrieve Form for Data Capture Drug Safety Content Provider Reporting to a Public Health Repository (QRPH New Directions)	HITSP/CAP135 HITSP/TP50 HITSP/C76	Retrieve and Populate Form Retrieve Form for Data Capture Case Report Pre-Populate
<b>17-7</b> CDC Receives aggregate cancer reports from Public Health State Cancer Registries across the nation	Public Health State Cancer Registry	CDC National Program for Cancer Registries	DSUB (ITI)	Document Subscription	NHIN/HIEM	Health Information Event Messaging