

Interoperability Scenarios

Care Theme: Public Health

Act 16- Cancer Reporting to a Public Health State Cancer Registry - Prostate Cancer

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

Key Points:

- By use of IHE Profiles and HITSP constructs, the scenario demonstrates how local pathology lab systems and clinic/physician office EMR systems can submit information to a Public Health State Cancer Registry database as well as submission of pathology information on patients diagnosed with cancer from a local pathology laboratory system to a Public Health State Cancer Registry and submission of clinical information on patients diagnosed with cancer from a local clinic/physician office EMR to a Public Health State Cancer Registry.
- Provide local pathology lab information and local Urologist clinical information to a Public Health State Cancer Registry on all patients diagnosed with a reportable cancer.
- The reporting of clinical information from the Urologist office to the Public Health Cancer Registry will provide additional information (such as referral to a specialist, treatment plan, etc.) for patients diagnosed with cancer. His clinical information will be consolidated with the information received from the pathology laboratory to create a complete cancer record for the patient.

Meaningful Use Relevance

MU Objective 4: Improving Population and Public Health

- Submission to Public Health Agencies for Surveillance and Reporting

Clinical Workflow:

Patient presents to a urologist with a tumor that looks suspicious for cancer. The urologist sends a sample for a biopsy. The pathology report indicates a transitional cell carcinoma. Results are sent to the urologist and to the Public Health State Cancer Registry. The urologist makes a formal diagnosis of Prostate Cancer and refers patient to the oncology to begin treatment, and sends a case report to the Public Health State Cancer Registry. The Public Health State Cancer Registry receives electronic submissions of the Pathology Lab message and Cancer Registry Form including clinic notes, treatment data with pathology report attached. 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 #1: Prostate Cancer

Care Scenario Steps:	Care Setting From	Care Setting To	IHE Profiles	Title	HITSP Constructs	Title
16-1 Urologist sees patient in the clinic, performs biopsy, and sends specimen with lab order to Pathology Lab	Urologist	Pathology Lab				
16-2 Pathology Lab reviews specimen and submits pathology report that indicates disease is transitional cell carcinoma to: <ul style="list-style-type: none"> • Urologist EMR • Public Health State Cancer Registry 	Pathology Lab	Urologist EMR Public Health State Cancer Registry	ARPH (Lab)	Anatomic Pathology Reporting to Public Health Repositories		
16-3 Urologist makes formal diagnosis and refers patient to the oncology to begin treatment.	Urologist	Urologist EMR				
16-4 Urologist EMR triggers the Cancer Registry Form for Urologist to complete and sends completed form to Public Health State Cancer Registry.	Urologist 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
16-5 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

<p>16-6 Public Health State Cancer Registry receives Pathology Lab message and Cancer Registry Form including clinic notes, treatment data with pathology report attached. The message and form are processed for inclusion into the cancer registry database. On an annual basis, the Public Health State Cancer Registry prepares a file of de-identified cancer reports for submission to the CDC National Program of Cancer Registries</p>	<p>Public Health State Cancer Registry</p>	<p>Public Health State Cancer Registry Database</p>	<p>ARPH (Lab) RFD (ITI) DSC (QRPH) PRPH (QRPH New Directions)</p>	<p>Anatomic Pathology Reporting to Public Health Repositories Retrieve Form for Data Capture Drug Safety Content Provider Reporting to a Public Health Repository (QRPH New Directions)</p>	<p>HITSP/CAP135 HITSP/TP50 HITSP/C76</p>	<p>Retrieve and Populate Form Retrieve Form for Data Capture Case Report Pre-Populate</p>
<p>16-7 CDC Receives the cancer file from each of the Public Health State Cancer Registries across the nation</p>	<p>Public Health State Cancer Registry</p>	<p>CDC's National Program of Cancer Registries</p>	<p>DSUB (ITI)</p>	<p>Document Subscription</p>	<p>NHIN/HIEM HITSP/T24 HITSP/C87</p>	<p>Health Information Event Messaging HITSP Pseudonymize Transaction HITSP Anonymize Public Health Case Reporting Data</p>