

HIMSS 2017 Interoperability Showcase Technology Storyboard

FeleciaJohn

OBGYN (Primary Care Setting)

Date: August 29, 2016

Time: 11:30 am

Provider Name: Dr. Laila Acern;

Location: TBD

Diagnosis: Pregnant

Procedures: Mammogram, Blood Test, Urine Analysis

Felecia, 33 year old female takes a home pregnancy test which is positive. The first thing she makes an appointment with her OBGYN at Main Line Health System. Felecia goes to her visit and everything is fine except that they find a suspicious lump in her breast. mole on her back that they believe is suspicious. The OBGYN decides to perform a mammogram at her appointment. She has triple negative refer her to a dermatologist. Felecia already has a dermatologist at Jefferson Health System and schedules an appointment there.

Main Line Health (EHR- NextGen with HISP - MIRTH) sends a referral CCD via Direct Messaging to the dermatologist at a different Health System (EHR-TBD). Direct address for provider is found using the HSX Provider Directory

Encounter summary and Pregnancy care plan C-CDA sent to HSX Clinical Data Repository via XDS.b connection

Claims information from Health System sent to payer: Independence Blue Cross

HSX sends a trigger alert to Comcast Connected Health Platform (CHP) to send diagnosis related (pregnancy) material to Felecia via the CHP based on a predefined payer-provider-diagnosis relationship

Dermatology (Specialist Care Setting): Felecia goes to see her dermatologist at a different Health System who orders a biopsy and radiology scans. Diagnosis is confirmed as metastatic melanoma.

Encounter summary CCD with new diagnosis is sent to HSX CDR via XDS.b connection

Reports of biopsy and radiology results are also sent to the HSX CDR

Claims information sent to payer: Independence Blue Cross

HSX triggers Comcast to send diagnosis related (melanoma) material to Felecia via the CHP based on the payer-provider-diagnosis relationship

Penn Medicine ED-September 19, 2016:

Date: September 19, 2016

Time: 9:15 pm

Provider Name: Dr. Tahrir Rasool

Location: TBD

Diagnosis: Fall

Procedures: Ultrasound, Blood Test

Four weeks later Felecia is at home and has a fall. She calls 911 and they take her to the Penn Emergency Department, she has never been seen in the Penn system before. The doctors use HSX's CAH service to receive her clinical history via her claims information from Independence Blue Cross. They see that she is not only pregnant, but also has a suspicious finding on her mammogram cancer and they refer her to follow up with a surgeon and oncology team at Penn. in the Penn Center for Personalized Diagnostics.

HSX pushes (XDR) Clinical Activity History (Clinical data derived from Claims data) from IBC to Penn ED (EPIC).

EPIC Care Everywhere – (XCA) used to pull HSX – CDA from clinical data repository

~~ENS notification to PCP notifying that she was seen in the Penn ED for a fall~~

TOC CCD sent to HSX CDR via XDS.b connection

Claims information sent to payer: Independence Blue Cross

Penn

Penn Medicine Oncology Setting (Precision Medicine)-

Date: September 28, 2016

Time: 10:45 am

Provider Name: Dr. Spencer Mitchell

Location: TBD

Diagnosis: Fall

Procedures: Blood Test, Fine Need Aspiration Biopsy

Center for Personalized Diagnostics: OneTwo weeks later Felecia follows up as an outpatient at Penn where she is seen by a surgeonetic and has a fine need aspiration biopsy performed Three weeksTwo weeks later she finds out

she is diagnosed with triple negative breast cancer. She visits the IBC Member Portal for additional information about breast cancer coverage and her condition.

HSX pushes (XDR) Clinical Activity History (Clinical data derived from Claims data) from IBC to Penn ED (EPIC).
later she finds out that she has breast cancer.

EPIC Care Everywhere – (XCA) used to pull HSX – CDA from clinical data repository

TOC CCD sent to HSX CDR via XDS.b connection (DOES THIS CONNECTION ADD THE RESULTS OF HER BIOPSY TO THE CDR?)

IS THERE A CONNECTION BETWEEN THE HOSPITAL AND IBC WHICH EDITS HER IBC MEMBER PORTAL BASED OFF OF HER DIAGNOSIS?

Claims information sent to payer: Independence Blue Cross

Penn Medicine Oncology Setting- October 19' 2016: One week later Felecia sees her team of oncologists and genetic counselors at Penn where she in the Penn Medicine Center for Personalized Diagnostics. She agrees to have genomic testing done and also opts-in to be considered for any research immunotherapy drug. Genomic testing is performed and sent to Nanthealth so the GPS Cancer Report can be created..

HSX pushes (XDR) Clinical Activity History (Clinical data derived from Claims data) from IBC to Penn ED (EPIC).

EPIC Care Everywhere – (XCA) used to pull HSX – CDA from clinical data repository

Genetic testing results sent to HSX **(HL7 FHIR standard?-TBD)**

Opt-in for consideration of research immunotherapy drugs sent to HSX and passed to NantHealth **(HL7 FHIR standard?)**

Encounter summary CCD sent to HSX via XDS.b connection

Claims information sent to payer: Independence Blue Cross

NantHealth: Since Felecia has opted in to be considered for any research immunotherapy drugs, HSX is able to push her genomic testing results to Nanthealth. Nanthealth then makes a correlation between her results and immunotherapy drugs that would work best with her genomic make up.

Genetic testing results and opt-in for consideration of immunotherapy drugs pushed from HSX to Nanthealth (**connection - TBD**)

Follow up at Penn Medicine Oncology Setting- November 10 Penn Medicine Center for Personalized Diagnostics:

Date: November 10, 2016

Time: 8:30 am

Provider Name: Dr. Spencer Mitchell

Location: TBD

Diagnosis: Pregnant and Triple Negative Breast Cancer

Procedures: Blood Test

Felecia follows up to review the results of her genomic testing and confirm a treatment drug. The physician tells Felecia that he is going to prescribe her drug X. When the physician enters drug X into EPIC, he receives a best practice alert saying that based on her genomic testing drug Y would be a better drug for Felecia. The physician shows Felecia the cost her treatment through Navinet

Genomic testing/immunotherapy drug correlation sent from Nanthealth to (**connection?**)

HSX pushes best practice alert to EPIC based on genomic testing/immunotherapy drug correlation - FHIR

Encounter summary CD sent to HSX CDR

Claims information sent to payer: Independence Blue Cross

Comcast: Based on the payer-provider-diagnosis relationship, Felecia receives diagnosis related material sent to a media platform of her choice so that she can be reminded of appointments