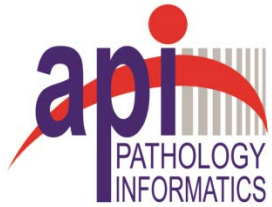


EMR Orders Interface for Anatomic Pathology



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Pittsburgh, PA



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The individual below has responded that he/she has no relevant financial relationship(s) with commercial interest(s) to disclose:

J. Mark Tuthill, MD

Objectives

- Understand why you would implement an AP orders interface
- Describe our implementation experience
- Present challenges encountered
- Describe what we learned
- Understand future opportunities

Background and Development



The Value of EMR Ordering

- Such systems will enable clinical orders to be sent to the anatomic pathology information system as well as supporting:
 - Decision support
 - Gathering of accurate and required information
 - Positive patient identification
 - Generation of laboratory ready labels to the point of service
 - Tracking of samples to the laboratory including monitoring of conditions

The Value of EMR Ordering

- Similar to the clinical laboratory, a flow of orders to the LIS will enable:
 - Sample receipt
 - Tracking
 - Routing
 - Processing
 - Automation of several elements of case accessioning
 - Decrease errors
 - Increased throughput

Concept

- Order initiated at EPIC: tests to be done
- Electronic information communicated via the orders interface (also results interface)
- Bidirectional Interface:
 - EPIC to CoPath: Communicate order and related information to CoPath
 - CoPath to EPIC: Communicate status and results to EPIC on order number

Where we started

- EPIC phased implementation without orders interface (2013)
 - All part types already in EPIC (specimen sources)
 - EPIC already sending ADT to Sunquest CoPath
 - EPIC already generating order numbers
 - Paper-based orders from EPIC (requisition w/ specimen)
 - Already sending electronic results to EPIC
 - Meaningful Use results interface October 2015
- ... But were not yet sending order information electronically to CoPath

Reasons to Pursue

- *Transmission of results to mid-level providers in EPIC*
- Order numbers don't transmit to CoPath, so orders remain unfulfilled in EPIC
- Significant manual data entry at CoPath accessioning
- Lab currently “blind” to EPIC orders until specimen is received
- No order status update in Epic

Cost/ Funding/ ROI

- ***Project funded at institution level for resulting to mid-level providers***
- Significant cost for interface (\$11K)
- Annual support fees (\$2K)
- ROI: Projected ~ 700%
- A separate interface required for Atlas (outreach)

Scope

- Goal is to implement without modifying current orders in EPIC but capture minimal data in Sunquest CoPath
- Engine triggers on EPIC order to send
 - An order to Sunquest Lab for label logic and specimen tracking
 - An order to Sunquest CoPath
- Paper requisitions will be maintained
- All types of specimens included in single implementation: Surgical, FNA, Gyn, Non-Gyn, Hematopath, Molecular, DNA Lab, Cytogenetics
- Transmission of Part Types and EPIC text (ex. Clinical History) with order was deferred to Phase II

Development team – meet weekly

HFHS Anatomic Pathology (AP) Pathology Informatics Team

HFHS Clinical Pathology (CP) Pathology Informatics Team

HFHS IT – Integration Team

HFHS IT – Interface Engine Team

HFHS IT – Interface Team

HFHS Helios – Inpatient

HFHS Helios – Ambulatory

HFHS Helios – Optime

HFHS Helios – ASAP (ER)

HFHS Genetics Team (DNA Lab, Cytogenetics Lab)

Sunquest Project Manager

Sunquest – Interface Analysts

Sunquest – Interface Programmer

Anticipated Gains



Anticipated gains - required

- Provide for "solicited" orders where the Sunquest CoPath result will fulfill the EPIC order#
 - Will provide a status update back to Epic
- Facilitate transmission of Sunquest CoPath results to mid-level provider In Baskets via report distribution within EPIC
- Provide for notification of EPIC orders to lab staff before specimen receipt allowing for realtime resolution of specimens not received
- Improve efficiency/accuracy of Sunquest CoPath orders by electronically providing information previously entered manually
- Simplification of EPIC order/result display

Anticipated gains

Phase 2

Sending part types and text in the order message expected to be potentially more difficult

- Part types ~ 1000
- EPIC Text – Clinical Diagnosis, Clinical History, etc
- To be included only if development fits overall timeline

System Setup - A New World



A complex new world...

- Not “just between friends” any more
- Each step of the process from Epic order through Sunquest CoPath results is sent across the interface – electronic documentation
- Things that didn’t used to have impact now do (delete-reorder)
- Complexity reinforced every day (EPIC workflow)

HL7 segments

PV1= Patient Visit

Date In: 5/31/2016 18:03:43 Status: ok Date Processed: 5/31/2016 18:03:52 Sequent

MSH|^~\&MISYS|MISYS|COPATH|DADD1|20160531180340||ORM^O01|113713938843|P|2.2|
PID||40304355^M10|||||||||||

OBR = Observation Request

PV1||HFH;10^|||||||||OP|10278118082\40304355\10\398\1|||||||||10|||||

ORC|NW|||||||||10|

OBR||205030542||HFHSURG||201605311803|||||H17651;10||L72.3^SEBACEOUS CYST^10|||||~|

OBX||&CDX|||||||||

OBR2

Order #

OBR4

Department/
Order code

OBR7

Collect
Date/Time

OBR16

Authorizing
Physician

OBR21

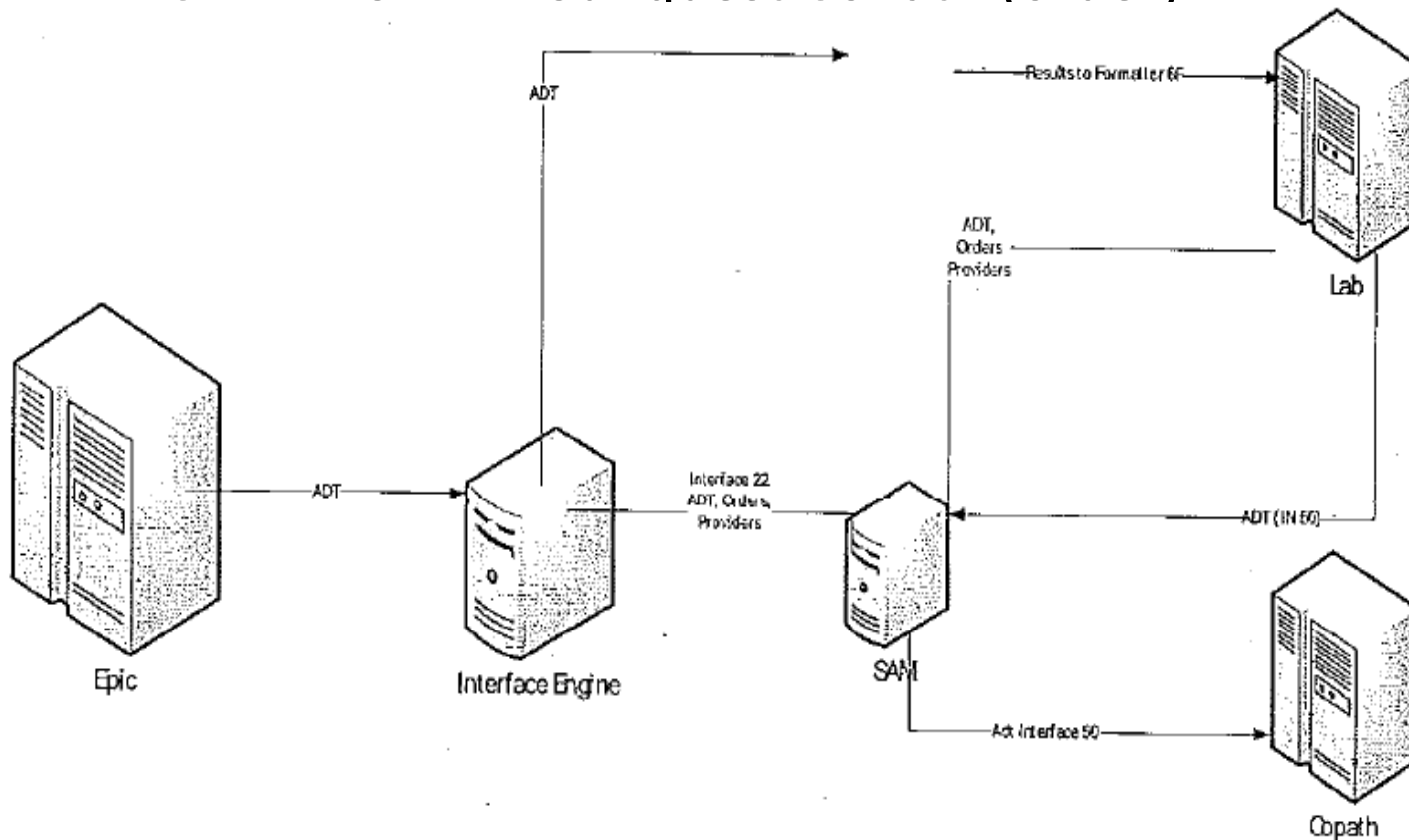
ICD

Information Placement in HL7

- Sending system needs to put the right information where the receiving system expects it consistently
 - Options for modification
 - Orders Interface in Epic
 - Interface Engine
 - SAM
 - Sunquest Application Manager
 - » Effectively a Sunquest engine

System Interfaces

- Order message split
 - EPIC– IE – SAM – Sunquest Lab (labels/tracking)
 - EPIC – IE – SAM – Sunquest CoPath (order)



Sunquest Teams and Setup

- **Application Interfacing HIO Specification Review**
 - Questions, Interface/ HL7 Specs
- **AI Team**
 - Configure orders interface, SAM, Lab interface
 - Changed system setting to allow order entry interface
 - Added required parsing rules to pull data from ORC, OBR, OBX, ZCp segments
 - Added parsing changes to send the order # outbound on accession notification and result messages
- **CoPath Team**
 - Set CoPath Order Entry Number Population system setting – how orders present
 - Added Order Data AUO and Client to accession windows
 - Hidden popup window painted on each accession window
 - Window painting for order receipt activities

Sunquest Lab Setup by **HFHS**

- HMA maintenance - forward order codes to CoPath
- Translation table on SAM – Sunquest Lab/ CoPath
- Code added to block mid-level providers from lab physician table

Sunquest CoPath Setup by HFHS

- System Settings – customer accessible

Category: Interfaces		
<u>Category</u>	<u>Setting</u>	<u>Value</u>
Interfaces	Order Entry Default Specimen Class	N
	Search Order Entry Number First	Y

Order Entry – Specimen Data Population:

Specimen Tracking When Created:

Use Order Data
Ask - Default Yes
Ask - Default No
Use Encounter Data
Use Order Data

- Dictionary interface links to support interface

<u>Name</u>	<u>Abbr</u>	<u>Description</u>
Order Entry Purge for CoPath		Purge used and/or old CoPath order entry message

Part Types

- Part types in order message optional
- Associate EPIC specimen source to Sunquest CoPath part type via interface link
- EPIC abbreviation as Sunquest CoPath part type interface link

The screenshot displays the 'Part Types' configuration window in Sunquest CoPath. The window has tabs for 'Name', 'Defaults', 'More Defaults', and 'Notes'. The 'Name' tab is active, showing a form with fields for 'Name', 'Abbr.', and 'Description'. The 'Name' field contains 'Abdomen, excision', 'Abbr.' contains 'ABDE', and 'Description' contains 'Abdominal wall, excision'. There is an 'Inactive' checkbox which is unchecked.

Below the form are two panels: 'Lookup Values' and 'Specimen Class Filter'.

Lookup Values:

	Lookup Values
2	ABDE
3	ABDEX
4	Abdomen, excision
5	abdomen, exc

Specimen Class Filter:

	Specimen Class Filter	
1	HS (H - Surgical)	...
2	HC (H - Consult)	...
3	WS (W - Surgical)	...
4	WC (W - Consult)	...
5	<BS (B - Surgical)>	...
6	<BC (B - Consult)>	...
7	<CS (C - Surgical)>	...
8	<CC (C - Consult)>	...
9	LS (L - Surgical)	...

At the bottom, the 'Interface Link' field is circled in red and contains the text 'abdomen, exc'.

Setup **HFHS** Epic and Interface Engine

- Helios Optime: Modify OTX logic at EPIC Optime (no HL7 to SAM)
- Interface Engine:
 - Spawn an additional order for Sunquest CoPath orderables to support the both Sunquest Lab and CoPath orders
 - ORC2 to OBR2 to match results to EPIC order#
 - OBR 15 (Specimen Source) gets nulled in order message until EPIC HL7 output variation is addressed

Workflow in Our New World



Basic workflow

- ADT generated at EPIC = reg at CoPath
- Order generated at EPIC = order to CoPath
- CoPath specimen ordered against EPIC order number
- CoPath results include EPIC order #
- Results distribution to mid-level providers associated with order
- CoPath results fulfills order

Accession - requisition

- Receive paper requisition with specimen
- Scan barcode for positive patient identification

Henry Ford Health System Order Sheet **From: HFMC Main Surgical Pathology**

P: 313-916-2319 F: 313-916-9113 2799 W. Grand Blvd.

E&R-6

Detroit MI 48202

Patient: Hema Hema

DOB: 01/02/1954

Sex: M

MRN #: 40304355

Patient Address:

1 FORD PLACE
DETROIT MI 48202
313-555-7968

Authorizing Provider:

Joseph Tuthill, MD
NPI#: 1376691089
HDoc#: 49095
Epic ID#: H17651

Ordering Provider:

Ron Brown
NPI#:
HDoc#:
Epic ID#:

Primary Insurance Information

Payor: BLUE ADVANTAGE
Plan: 102003002
Group Number:

Subscriber ID:12132 - (HAP)

Secondary Insurance Information

Payor:
Plan:
GroupNumber:
Subscriber ID:12132

Surgical Specimen Exam Order ID: HFHSURG

Diagnosis: L72.3

Priority: Routine

Order Date: May 31, 2016

Order Number: 205030542

Specimen Source:

Collected By: Ron Brown

Collection Date: May 31, 2016

Collection Time: 6:03 PM

Specimen A: Skin, cyst [822]

Comments:Clinical History/Pre-OP/Post-OP/Radiologic Findings: Testing for SUG preparation



40304355

Accession – order # selection

Select proper order referencing (1) Order Number (2) Department

The screenshot shows the 'Path Client/Server (copath) - [Loading Specimen Window]' interface. The 'New Specimen' dialog box is open, displaying patient information: DOB: 1/2/1954 (Current Age: 62), MRN: 40304355, Gender: M, Client: 10 - Henry Ford Laboratories. The 'Patient Name or MRN' field contains 'HEMA,HEMA'. The 'Encounter Number' and 'Order Entry Number' fields are highlighted with a red oval. The 'Specimen Class' field is empty. The 'Specimen Number' field is empty, with a 'Verify' button next to it. The 'Order Lookup' dialog box is also open, showing a table of recent specimen orders. The table has columns: Order#, Rec'd by CoPath, Dept, Submitting MD, Encounter, and Client. The first row is highlighted in blue. The 'Order#' column is highlighted with a green box, and the 'Dept' column is highlighted with a green box. The 'Order#' column contains the text 'HEMA,HEMA' and '205030542'. The 'Dept' column contains the text 'HFHSURG' and 'HFHDNA'. The 'Order#' column also contains the text 'Order D' and 'scription'.

New Specimen

DOB: 1/2/1954 (Current Age: 62) MRN: 40304355
Gender: M Client: 10 - Henry Ford Laboratories

Patient Name or MRN: HEMA,HEMA Search

Encounter Number: Same Patient

Order Entry Number:

Specimen Class:

Specimen Number: Number Wheel Year Number Verify

Order Lookup

Order#	Rec'd by CoPath	Dept	Submitting MD	Encounter	Client
HEMA,HEMA					
205030542	5/31/2016 18:03	HFHSURG	117651.10	10278118082v	HFHFL
Order D	scription				
203974187	5/26/2016 16:57	HFHSURG	117651.10	10272541141v	HFHFL
Order D	scription				
203974170	5/26/2016 12:16	HFHDNA	117651.10	10272335177v	HFHFL
Order D	scription				
203974172	5/26/2016 12:16	HFHDNA	117651.10	10272335177v	HFHFL
Order D	scription				

Accession – Department Mismatch

- Notification if specimen class department does not match EPIC order code
- Correct encounter selected with order

The screenshot shows the 'New Specimen' window with the following fields:

- DOB: 7/14/1987 (Current Age: 28)
- MRN: 61000027
- Gender M
- Client: 10 - Henry Ford Laboratories
- Patient Name or MRN: ORANGE,TESTTWO
- Encounter Number: 100100148975\61000027\10\40\1
- Order Entry Number: 99523021
- Specimen Class: HM (H - Molecular Studies)
- Specimen Number: HM (selected from a dropdown menu), 2016 (Year), 43 (Number)

A red box highlights the text 'Surgical order' next to the Order Entry Number field. A red arrow points from this text to the 'HM' value in the Specimen Number dropdown menu.

An error dialog box titled 'Departments Do Not Match' is displayed, containing the following message:

The department for the selected order (HFHSURG) was not found as a Lookup Value in the Department dictionary for the department associated with this specimen class (HFH Molecular). Press [OK] to select this order. Press [Cancel] to select another order.

The dialog box has 'OK' and 'Cancel' buttons.

Accession: Specimen class selection

Can be automated by system setting if each specimen class has a unique department

At HFHS:

- Multiple hospitals on same Sunquest CoPath system
- Consolidated accessioning at Detroit main campus
- Shared Sunquest CoPath departments across specimen classes

Specimen Type	CoPath Dept int.link EPIC Order Code	Specimen classes
Cytology FNA	HFHCYTOFNA	HF, LF, MF,WF
Cytology Gyn	HFHCYTOGYN	HG, LG, MG,WG
Cytology Non-Gyn	HFHCYTONGYN	HN, LN, MN, WN
Hematopath	HFHHEME	HH, LH, MF,WH
Surgical	HFHSURG	HS, LS, MS, WS
Molecular	HFHMOL	HM, LM, MM, WM
DNA	HFHDNA	GD
Cytogenetics	HFHGCG	GX

Accession

Automated Field Updates

- Fields auto-populated by EPIC order
 - Significant time savings and error reduction

100001 - Accession Entry/Edit

Window Help

Blue

Case #:	HEMA,HEMA	Med. Rec. #:	40304355	Client:	10 - Henry Ford Laboratories
Patient:		Billing #:	10278118082\40304355\10\398\1	Acc. Date:	
DOB:	1/2/1954 (Age: 62) M	Spec:	HS, Routine	Case:	New Accession

Source/Copy To Histology Text ADT/Staff

Part Type(s)	Description	Taken	Received	Load	Protocol Name
1 A Skin_cyst	Skin cyst, excision	5/31/2016 18:03	5/31/2016 18:31	<input checked="" type="checkbox"/>	1 Block

Copy To Doctors

Submitting Phys: TUTHLL,JOSEPH/HFL

Additional Physician(s)

Staff

Pathologist(s)

Gross Pathologist(s)

ICD Code(s)

1 L72.3 (Sebacous c)

Source

☒ Engrave Labels

Save/Engrave

Save/New Specimen

Source/Copy To Histology Text ADT/Staff

Order Entry

Number: 205030542 Description:

Specimen Data

Encounter: 10278118082\40304355\10\398\1

Location: HFL (HFL)

Priority: Routine

Client: 10 - Henry Ford Laboratories

Epic Status Update

Order status message sent to EPIC on results interface

- Status updated by Sunquest CoPath from “Collected” to “In Process”

Hema, Hema MRN: 40304355 PCP: Allard, Ra... Coverage: BLU... Adv Dir Status: **Not on File** Allergies: **Bactroban [Mupirocin],...** BestPractice Advisory: None Research: None
Male, 62 y.o., 01/02/1954 CSN: 10277342656 Care Team: Active FYIs: None BMI: 26.61 kg/m² Health Maintenance: **Health Maint...** MyChart: Active
HFH PATHOLOGY OP LAB My Sticky Note:

Chart Review (Last refresh: 6:40:21 PM) ? Close X

Encounters Notes Micro Labs **Path** Imaging Procedures Surgeries Anesthesia Records Card Proc ECG Other Orders Meds Episodes Letters Referrals Misc Reports Media

Results Review Filters Refresh Select All Deselect All Review Selected Side-by-Side Lab Flowsheet Route

35 records loaded, more records to load Clear All

No filters applied

Date/Time	Test	Description	Encounter type	Status	Case #	Operation/specimen
05/31/2016 18:03	Surgical Specimen Exam		Orders Only	In process	HS16-100001	SKIN CYST, EXCISION

Specimen Sign-out Results

EPIC Order Number in outbound result message (OBR2)

Scan Interface Data

Page 2 of 7

Table Name: i_seq_out_a

Date formatted: 5/31/2016 18:46:39

Status: SEND Date sent: 5/31/2016 18:46:40

Sequential Number: 5400003456633

MSH|^~\&|COPATHPLUS|HFH|||20160531184600||ORU^R01|5500003446256|P|2.2
PID|1|3843413|40304355^^^10||HEMA^HEMA||19540102|M||||(313)555-7968|||||999-99-9999
PV1|1||HFH;10|||||||||||||OP|10278118082\40304355\10\398\1|||||||||||||201605310000
ORC|RE|205030542|HS16-100001^CoPathPlus||CM||||201605311839|^Brown^Ron||H17651;10^TUTHILL^JOSEPH
OBR|1|205030542|HS16-100001^CoPathPlus|HFHSURG^HFH Surgical Pathology||201605311803|||||201605311831|^Skin cyst,
excision|H17651;10^TUTHILL^JOSEPH||||F|201605311846||HFHSURG^HFH Surgical Pathology|F|||||H17651^Tuthill^J.^Brown^Ron
OBX|1|TX|HS16-100001&rpt^^99DHT||Henry Ford Hospital||||F
OBX|2|TX|HS16-100001&rpt^^99DHT||Pathology and Laboratory Medicine||||F
OBX|3|TX|HS16-100001&rpt^^99DHT||2799 W Grand Blvd Detroit, MI 48202||||F
OBX|4|TX|HS16-100001&rpt^^99DHT||Tel: (313) 916-LABS Fax: (313) 916-3971||||F
OBX|5|TX|HS16-100001&rpt^^99DHT|||||F
OBX|6|TX|HS16-100001&rpt^^99DHT|||||F
OBX|7|TX|HS16-100001&rpt^^99DHT||Surgical Pathology Report||||F
OBX|8|TX|HS16-100001&rpt^^99DHT|||||F
OBX|9|TX|HS16-100001&rpt^^99DHT||Patient Name: HEMA, HEMA

Accession #: HS16-100001|||||F

Sunquest CoPath result display/ distribution at EPIC

Result is filed against order number in EPIC:

- Result distributed to InBaskets of all staff associated with order in EPIC (*including mid-level providers*)
- Result fulfills EPIC order
- Results display on same line item as EPIC order

The screenshot displays the EPIC Hyperspace interface for a patient named Hema, Hema. The top navigation bar includes various tools like Appts, Patient Station, and Orders Only. The patient's information is shown, including MRN, CSN, and PCP. The main section is the Chart Review, which shows a table of results. The 'Status' column in the table is circled in red.

Date/Time	Test	Description	Encounter type	Status	Case #	Operation/specimen
05/31/2016 18:03	Surgical Specimen Exam		Orders Only	Final result	HS16-100001	SKIN CYST, EXCISION

Order Cancel Scenarios

Three scenarios tested *

(1) Sunquest CoPath delete: EPIC status updated from Collected to Canceled

03/15/2016 00:00	Fine Needle Aspiration Cytology	Canceled	HF16-100000	FINE NEEDLE ASPIRATION OF ABDOMINAL MASS
This Order Has Been Canceled				
Order Status		By	On	
Canceled		Pathology And Laboratory Medicine	3/28/16 1029	

(2) EPIC cancel : Order # not available in Sunquest CoPath

(3) EPIC cancel after Sunquest CoPath accession: Cannot cancel at EPIC

Implementation Challenges



HL7

- **Location**

- HFHS uses *patient* location for AP (PV1-3)
- SQ looking in ORC13 for *ordering* location
- SQ change – use PV1 only if ORC13 is empty
- Can't blank out ORC13 completely as it's used for SQ Lab
- SQ Parsing change to use PV1 regardless of ORC13 value

- **ICD Code**

- Coded diagnosis initially in DG1
- Sent to Clinical History field in CoPath
- Want ICD from EPIC order to drop into CoPath ICD field
- Sunquest modified to send to ICD field not Clinical History

HL7 Part Types – unique HFHS issue?

- Part type interface link must be in OBR15.1
- EPIC transmits in OBR15.4
- Sunquest changed OBR format inbound to Sunquest Lab
- IE –changed code to support OBR15.1
- Inconsistent EPIC build revealed re: outbound HL7
- Similar issues for text in wrong HL7 segments ex.NTE or OBR vs OBX
- Implementation deferred to Phase II

Purge Dictionary

- Orders “disappearing” over weekends
- Not EPIC or SQ Lab purges
- Sunquest CoPath Purge Dictionary

CoPath Client/Server (copath) - [Order Entry Purge for CoPath - Purge Dictionary Entry/Edit]

File Edit View Favorites Window Help

Blue 06/02/2016 10:19

Main Menu

- Open
 - Specimens
 - Worklists
 - Inquiry
 - Patients
- Explore
 - Browse All
 - Reports
 - Tasks
 - Dictionaries
 - System Setup
- Action
 - Help
 - Take A Break
 - Restart
 - Exit

Message

Ron D. Brown, System Manager:
Welcome to CoPath! To Log an issue contact the help desk at 53-4900 and mention "CoPath"

Name	Description
Order Entry Purge for CoPath	Purge used and/or old CoPath order entry messages.

☐ Inactive

In the User Argument field below, enter the number of days to keep used order information and old (and possibly unused) order information. Separate the values by commas (use numbers and no spaces e.g., 10,50) or specify one value to be applied to all (e.g., 30). See NOTES for more information.

User Argument

1,7

Enter the number of days to retain used orders and un-used orders in the following format:

arg1,arg2

where

arg1 = retention days for used orders (e.g. a specimen was accessioned that selected the order). It is measured based upon when the order was linked to a specimen.

arg2 = retention days for all orders, regardless of whether or not they were used. It is measured based upon when the order was received by CoPath.

NOTE: Do not include any spaces in the argument list, only numbers and commas. arg2 should usually be greater than arg1.

If you wish to have the same retention days for both arg1 and arg2, you can enter a single number.

Future Opportunities



Future Opportunities

- Part Types and Text on interface
 - *EPIC reconfiguration so that HL7 is sent out consistently across all workflows/ specimen types*
- Optime Inbasket messages for mid-level providers
 - *No opportunity to associate mid-level providers to EPIC order in Optime*
- Use of Order List as a an effective EPIC orders pending log
 - Multiple EPIC Order numbers where there should be one
 - Similar issues confirmed with other users @ CoPath SIG
 - EPIC user education
 - SIG Enhancement SE-000030: next CoPath version beyond v6.3

Future Opportunities

Refinement of specimen cancel workflows

- EPIC ordering compliance
- Increase Sunquest CoPath accessioner understanding of cancels
- HFHS Unsuccessful in dissociating EPIC order # from case before case delete at Sunquest CoPath
 - Reuse of Sunquest CoPath specimen numbers (historical)?
 - Reuse of EPIC order numbers?
 - Analysis of Reorders at Sunquest CoPath and EPIC

Summary



Summary

- ✓ Provide for "solicited" orders where the Sunquest CoPath result will fulfill the EPIC order# (match order filler number)
- ✓ Provide for notification of EPIC orders to lab staff before specimen receipt allowing for realtime resolution of specimens not received
- ✓ Facilitate transmission of Sunquest CoPath results to mid-level provider In Baskets via report distribution within EPIC
- ✓ Ease of selecting encounter
- ✓ Fail safe for correct specimen class

Summary

- ✓ Improve efficiency/accuracy of Sunquest CoPath orders by electronically providing information previously entered manually, saving 2 minutes per accession

CoPath Client/Server (cotst2) - [HS16-34 - Accession Entry/Edit]

File Edit Options View Favorites Window Help

Main Menu

- Open
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 - Patients
- Explore
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 - Reports
 - Tasks
 - Dictionaries
 - System Setup
- Action
 - Help
 - Take A Break
 - Restart
 - Exit

Message

Ron D. Brown, System Manager:
Welcome to CoPath! To Log an issue contact the help desk at 53-4900 and mention "CoPath"

Case # Patient **APPLE, TESTONE** Med. Rec. #: 61000026 Client: 1
DOB: 5/18/1974 (Age: 42) F Billing #: 10010016260761000026\10\7 Acc. Date: 5/31/2016
Spec: HS, Routine Case

Source/Copy To: Histology Text ADT/Staff

	Part Type(s)	Description	Taken	Received
1			4/21/2016 10:28	5/31/2016 13:39

Copy To Doctors

Submitting Phys: FRIED, STEVEN T/HFL Additional Physician(s):

Staff

Pathologist(s): Gross Pathologist(s):

☒ Engrave Labels

ICD Code(s) Source

	ICD Code(s)	Source
1	R05.02 (Shortnes	

Order Entry

Number: 99786466 Description: Details...

Specimen Data

Encounter: 10010016260761000026\10\76\1 Billing Number: 10010016260761000026\10\76\1
Location: NVI (HFL) Billing Type: HFL Epic
Priority: Routine Service:
Client: 10 - Henry Ford Laboratories

Summary

Simplification of EPIC order/result display

✓ Before

EPIC order					
07/16/2015 09:50	Surgical Specimen Exam	Office Visit	Collected (07/16/15 0950)		
07/16/2015 09:50	Surgical Specimen Exam	Office Visit	Final result		SKIN, LEFT LEG, PUNCH BIOPSY
CoPath order message/ result					

✓ After

05/31/2016 14:36	Surgical Specimen Exam	Collected (05/31/16 1436)		
		↓		
05/31/2016 14:36	Surgical Specimen Exam	In process	HS16-34	DESCENDING COLON, BIOPSY
		↓		
05/31/2016 14:36	Surgical Specimen Exam	Final result	HS16-34	DESCENDING COLON, BIOPSY

Team Members

HFHS

- Ron Brown-Project Lead
- Gary Kasperek
- Mike Czechowski
- Jackie Ribbentrop
- HFHS IT services
 - Esp Kelly Gonyea
- HFHS Epic Team (Helios)

Sunquest

- Jamie Ritchie
- Dawn Lev
- Ryan Trottier
- Ken Wong

EMR Orders Interface for Anatomic Pathology

Questions?

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Pathology Informatics Summit 2017
Pittsburgh, PA

