

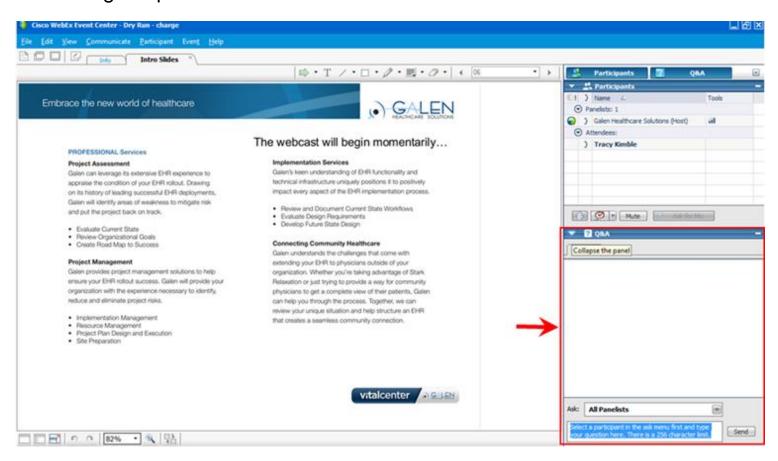
Clinical Data Conversions: Functional and Technical Considerations

Empowering Extraordinary Patient Care





Your phone has been automatically muted. Please use the Q&A panel to ask questions during the presentation!







Introduction

August Borie

- Enterprise EHR Consultant
- 2+ years working in HealthcareIT
- Experienced in conversions, implementation, and configuration with AEEHR
- Exposure to a variety of EMR systems for conversion

Fallon Hartford

- Associate Interface Analyst
- M.S. in Health Informatics
- 2+ years working in Healthcare
 IT
- Experience in conversions,
 Crystal reporting, ETL, Works
 database training



Overview

- Why are there so many decisions to make?
- Functional Considerations
- Technical Considerations
- A few gotchas
- An opportunity to ask your questions





So Many Decisions!

Why?

- Sometimes adding a large amount of data
- Very difficult to change once data has been loaded
- Way the data is stored in the source system does not always play nice with how the target system accepts it
 - Way the source system records medication refills may be different from how the target system records them
- Often need to think long term and about the global context in the organization
 - Mapping highly utilized medication in source system to rarely used medication in target system may not be a good idea





Still More Decisions!

- What?
 - Scope
 - Mapping
 - Need to match values from source system to dictionary values from target system
 - Workflows
 - Verify and Add
 - Need to make decisions for large amount of data based upon a relatively small subset



Functional Considerations

Allscripts Enterpr Login ID Password Show Last-Session Information New Session Last Session Option	ise EHR TM & Allscripts Centricity Framework 5.02.00.036 Enterprise EHR 11.3.0.655.030		
All	Important Notices		
	The information provided by this system is intended to supplement the knowledge of physicians and other healthcare professionals. This information is advisory only and is not intended to replace sound clinical judgment in the delivery of healthcare services. You are advised to review the definitions, functionality, and limitations of the system. Allscripts and its suppliers and licensors disclaim all warranties, whether expressed or implied, including any warranty as to the quality, accuracy, and suitability of the information provided by the system for any purpose.		
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Scope of Conversion

- Multiple ways to filter the data
 - Decide what data types will be converted
 - Immunizations, allergies, medications, results, problems, documents, vitals, images
 - Not every data type may be present in the source system
 - If organization has no inbound results interface then there may not be results to extract
 - Different ways to filter clinical data depending on need
- Clearly define what fields will be converted
 - Can help to display where fields render in the target system
 - All fields might not be available to convert





Current Medications vs. Medication History

Current Medications

- Only shows most recent occurrence of medication
- Not necessarily last time it was prescribed

Medication History

- Each time medication was recorded will convert separately
- Can clog up Past Medications



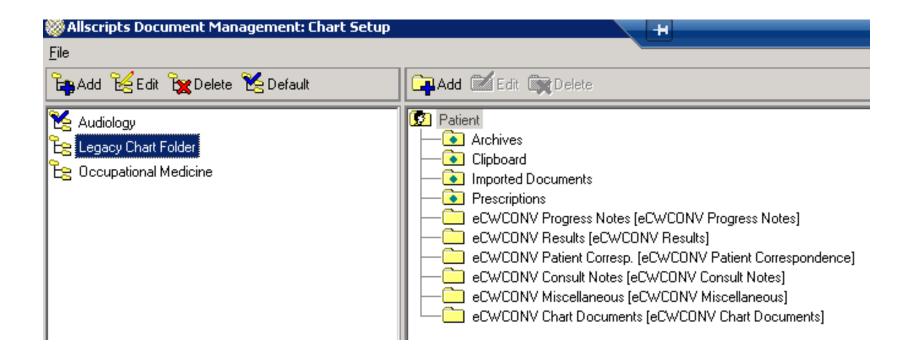
Scanned Images

- EEHR
 - Integrate documents into current EEHR chart structure
 - Build a new "Conversion" section of the chart
 - Can help if there is a large number of scanned images
- ADM (Allscripts Document Management) "Scan"
 - Need to build folders if converting images to new document types
 - Create new chart group for conversion
 - Most likely will not be scanning to chart group after conversion
 - If existing document types are utilized, no work needs to be done





Example of Separate Scan Chart Structure







Annotations

- Easy way to signify that clinical data came from another system
- Way to add data that is not able to be mapped or able to be brought over discretely
 - Free text comments in source system

Embrace the new world of healthcare



Medication Viewer

Details Rx History Annotations MAR History

Lipitor 40 MG Oral Tablet

Lipitor 40MG, 1 (one) Tablet daily ,08/01/2012

Lipitor 40MG, 1 (one) Tablet daily ,08/01/2012; Qty: 30 (Tablet); Refill: 11; Recorded as History: **09Apr2013**AHS Pro

Ordered by: Authorization: Not Required Rx #:

Rx Benefit: None

Therapy: Managed by: Start Date: 01Aug2012 Status: Active

Date: 01Aug2012

Rx History

Recorded as History 09Apr2013 Last Updated By: Conversion, AHS Pro

Lipitor 40 MG Oral Tablet, Lipitor 40MG, 1 (one) Tablet daily ,08/01/2012; Gty: 30 (Tablet); Refill: 11;

Ordered by: Authorization: Not Required Rx #:

Rx Benefit: None

Therapy: Managed by: Start Date: 01Aug2012

Annotations

Order Annotated 09Apr2013 01:17PM by Conversion, AHS Pro

Lipitor 40 MG Oral Tablet

OK for generic

Prescription sent to: Coborns #2016, 645 LAKE STREET S, LONG PRAIRIE, MN, (320) 732-2915



Providers

- Map all providers
 - Able to associate providers to meds prescribed, orders placed etc.
 - Not always connected to most recent record
- Use generic "conversion" provider
 - At a quick glance allows users to see where item came from
 - Conversion MD, HeartPro
- Non-providers
 - Administered by
 - Recorded by
 - Can use annotations as well





Unverified Items

The good

- Does not require time to map
- Allows users to build a patient's chart history on the fly for ambiguous items

The bad

- Items are not functional within EEHR
- Items do not participate in DUR (Drug Utilization Review) checking
- Items do not auto-cite into a note
- Cannot assess and charge for unverified problems
- Immunizations display under the Orders Component
- Make sure users know the Verify and Add workflow





Verify and Add Workflow Demo

Problem	Encounter	Patient Worklist	Flowsheets			
Active Probler	ns ▼ Typ	e ▼ 🕖	🗐 💆 ▶			
☐ Chronic						
⊞						
⊞ ☐ Backache 724.5						
🕀 🔲 Cyclic Vomiting Syndrome Associated With Intractable Migraine And Status Migrainosus 346.23						
±						
⊞						
⊞ Hypertension 401.9						
⊞ Hypertension 401.9						
☐ Health Maintenance/Risks						
☐ Healt	h Maintenance					
🗏 Unrecogni	zed Unverified	1				
🖪 🏵 🕦 Diab	etes; 250.00					
🗄 🌋 Migra	aines; 346.00					
		•				





Preferences to Allow Verify and Add

Enable Allergy Verification

- When enabled, this preference allows organizations to require the validation of newly entered allergies per user.
 - Set to N

Enable Problem Verification

- Determines if problem verification is enabled. When enabled, problems that are entered by users that are not providers are added to the Unverified Problem Group.
 - Set to N

Enable Rx-Orders Verification

- If the preference is set to Y for a user, the Verify and Add menu is not available when selecting an Unverified item. In other words, this preference must be sent to N to verify and add an Unverified Item.
 - Set to N





Mapping Considerations

- Use counts to map most commonly used items
- What items to exclude (NKA, NKDA, No Known Medications etc.)
- Think critically about why values may be present
 - Data could have been entered incorrectly
- Take into consideration how items will display in EEHR
 - Section for problems
 - History of, Family History of etc.
- Ancillary mapping needs
 - Route of Administration
 - Body Site
 - Manufacturer
 - Allergy Reaction





Mapping Considerations (cont.)

- Manually Created Items
 - Might not want to map to custom created meds, immunizations, problems etc.
- Results
 - Map all discrete results
 - Use auto file results process
 - Can increase OID and RID dictionaries dramatically
- Unverified Items



Create Valuable Conversion Team

- Need to include clinical resources
- Helpful if analysts have experience with both target and legacy system
- Testing team
 - Experience with testing workflows for converted items
- Have technical/server resource available



Technical Considerations

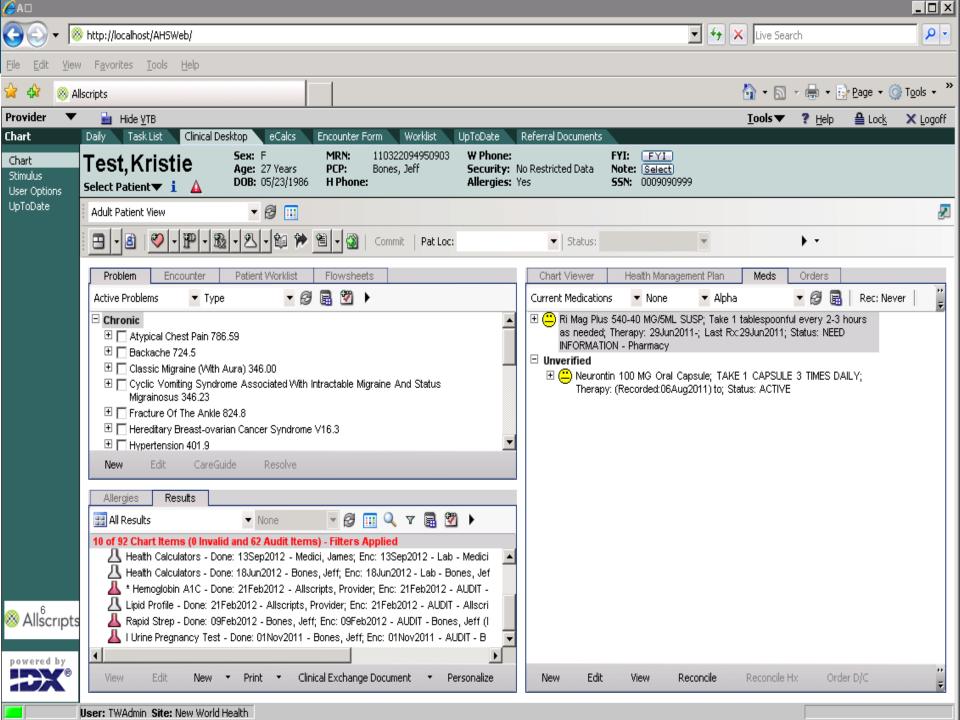




Discrete vs. Non-discrete Conversion

- Non-Discrete Conversion
 - Chart Summary of Data
 - Less work
 - Won't duplicate data
 - Not Reportable
- Discrete Conversion
 - Inserting data into Works Database
 - Reportable
 - Users can use items in workflow
 - More work
 - Can duplicate data if users are already live on EEHR







Patient Matching

- Different options for matching
 - Standard matching vs. Extended matching criteria
- When would patient matching fail?
 - Name misspelled
 - Name change
 - Info lacking in legacy system
 - Patients don't exist
- Other Considerations
 - Multi-org environment
 - Use of Internal Organization number in Patient table
 - eMPI Enterprise Master Patient Index
 - Merged and Deactivated Patients





Getting Access to the Data

- Ways to Access Data:
 - Direct network access
 - Access to legacy system
 - Galen Securelink
 - Linked server
 - Copy of legacy system to test database of new system
- Scanned Images
 - Options:
 - Direct network access
 - Removable device
 - FTP





Space Needed for Conversion

- Space needed in Works for discrete item conversion
 - No easy way to estimate this:
 - Test with % of patients and extrapolate
 - Also take into account scanned images
- Space needed in Scan warehouse for image conversion
 - PDFs loaded into scan warehouse
 - 900KB per Chart Summary



Gotchas

- Document Conversion
 - AutoCC flag not set
 - Set SiteID so correct print template renders
 - Non-electronic workflow
- Document/Image Conversion
 - Outbound DOC interface?
- What to do when users rename clinical items
 - Not convert
 - Map to the renamed item or original item?



Questions?

Success stories: http://blog.galenhealthcare.com



Thank you for joining us today, for additional assistance....

You can contact us through our website at www.galenhealthcare.com

