emsCharts

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HL7 Interface in emsCharts

Health Level Seven (HL7) is a standard for the exchange, management, and integration of electronic healthcare information. Using the HL7 format, emsCharts has developed custom interfaces with many hospital electronic medical record (EMR) systems to exchange electronic data between the ePCR and the hospital record. emsCharts can accept an HL7 feed to import Admit, Discharge, and Transfer (ADT) data back into the emsCharts medical record, thus replacing the common practice of the crews waiting for a face sheet from the ER registrars. Additionally, the feed automatically updates pre-hospital medical records with the receiving hospital's Medical Record Number and Account Number.

HL7 Interface Features

- Creates a secure connection to auto-populate hospital electronic medical record emsCharts software (unidirectional flow) and (EMR) software (bi-directional flow)
- Accepts an HL7 feed to import Admit, Discharge, and Transfer data back into the emsCharts medical record, thus replacing the common practice of the crews waiting for a face sheet from the ER registrars.
- Outbound feed: Exports ePCR data to hospital EMR. Real time, secure, and encrypted.

Activation of the HL7 feed is initiated by the hospital. Your local facility(ies) must have already established an HL7 connection, and must list your agency in their HL7 feed, before you will be able to configure the connection for your service.

Configuring HL7 is a very simple easy process and only takes a few minutes.

I.Configuring HL7 for the Service

- 1. Go to emsCharts/Service/Configuration/Code Tables
 - a) emsCharts.com Modules
 - (1) Be sure that HL7 is checked
 - (2) If not, check and save (Figure 1)

Code Table: emsCharts.com Modules	*	Sort		
 ✓ Calendar ✓ Chart Summary ✓ Configuration ✓ Continuing Education ✓ HL7 ✓ Human Resources ✓ Patient Records ✓ Phone Messages ✓ Special Reports ✓ Supplies ✓ Training 				
Save				
Figure 1				

b) HL7 Import Settings

Code Table:	HL7 Import Settings	*	Sort
	HL7 Feed:		
	HL7 Code(s):		
	General Options		
	Interface Enabled		
	Save		
Figure 2			

(1) Choose the appropriate hospital feed from the HL7 Feed box

- (a) If more than one hospital is available you will
- configure each hospital separately.
- (b) The order of selection does not matter

(2) Once the Hospital has been chosen you will see the following box appear

	0 11				
	Code Table: HL7 Import Settings	💙 Sort			
	HL7 Feed: ABC H 💌				
HL7 Code(s): N042					
	General Options				
☑ Interface Enabled	Auto-Update PCR 🛛 🗆 Map Payor Codes	5			
Payor Mappings					
	Add another mapping				
HL7:	emsCharts:		1		
View all insurance con	npanies				
Save					
	Figure 3				

Configure the feed as desired. A description of each available configuration field is below:

Description of the Configuration Fields Interface Enabled

Choose this when you are ready to start using the HL7 interface

Auto-Update PCR

Choose this if you want the system to automatically update HL7 information when chart is opened

Map Payor Codes Choose this if you want Payor Codes to be mapped

Payor Mappings

This area is to map Payors from the HL7 values to the emsCharts values so they will update correctly

View all insurance companies

Shows all Insurance Companies setup at the Hospital

If multiple hospital feeds are available for your agency, repeat the configuration process for each hospital.

When more than one Hospital is configured, the system will use the feed for the facility chosen as the Receiving hospital on the patient record.

You are now ready to use the HL7 Interface! Setup is Complete!

II.Using the HL7 Interface in a Patient Record

- 1. Create a new chart and add a patient
 - a) Enter Page #1 for Dispatch Information
 - b) Go to Patient Look Up
 - (1) Search for the patient



(2) If you do not find matching name, choose Add New Patient.

2. Pull Shared Patient Information from the Hospital into the chart

With the patient on the chart (Patient Page), you will notice there is a box at the top of the Patient Page which allows you to look up the patient information from the Hospital. The Hospital feed that is currently in use is shown on the far right of the gray bar.

This will only appear if the Receiving Hospital on page 1 has a feed and the Service is listed in that feed!

Patient Information				
PTID: 12547293 Triage Color/#:				
HL7 Hospital Import: Account Number:	Medical Record Number:	Disable HL7 Updates	Feed: JFK-Solaris (NJ)	

Figure 5

a) Click the search icon. This triggers a search on your patient against any patients registered at the receiving facility within a 12-hour window of the Arrive Receiving time.

Note: The name of the fields on this page may vary according to the Hospital's HL7 configuration.

(1) You may sort results by Name, SS#, DOB, or the Account Number from the hospital if this is known

Hospital Record Number:		Disable HL7 U	pdates	
ID 1083041147124 [9999999999]	Name Doody, Howdy	SSN xxx-xx-3333	DOB 02/01/1919	*
	Close Window			*

Figure 6

(2) Click on the desired patient name to view the patient data and to select any applicable updates to the information. Many times the Hospital will have the new patient information within hours of receiving the patient.

(3) If no match is received then the patient data has not been received by emsCharts from the Hospital. Check later if you want a match. This will be available in the display for a 12 hour window both before and after you leave the receiving facility. The data is always available.

L7 Import
Patient Information
Name: Howdy Doody
Address: 720 MAIN ST
MONROEVILLE, PA 15146
SSN: 111-22-3333
DOB: 02/01/1919
Sex: M
Insurance Information
Keen Name Insured Group ID
MEDICARE DART & Devices 122ABCD 111222222A
MEDICAKE PARTA PAULIN TITZZABCD TITZZASSA
From HL7 Feed
Insured Group ID
MEDICARE PART A Patient 123ABCD 111223333A
Save Information Cancel
Carto Information
Figure 7

(4) Click "Save Information" to import their specific information into the patient record

(5) emsCharts will automatically update the patient record with any additional changes from the hospital record for that specific encounter

(a) The Auto Update feature requires that the "Auto-Update PCR" box is checked in the HL7 configuration. See Figure 3.

The update may be turned off for each chart with the "Disable HL7 Updates" check box on the Patient page. See Figure .

(Notice: Only Transporting Service can pull data at this time. A QRS Service or a Paramedic Assist Service will not be able to pull the HL7 information)

III. Reviewing ePCR Updates from the Hospital

You may wish to search for HL7 updates in the system.

- 1. From the Home screen, click Chart Summary
- 2. On the left menu, select HL7 Import Search

a) Select your search criteria, including date range, Feed Name, PRID, and hospital Account Number/Encounter Number (or whatever terminology is used by the facility)

b) Click Generate Report

(1) The resulting report shows a list of ALL patients, meeting the criteria of your search, if this data was received for this Service regardless of whether it was imported into a Chart.

Search Results					
Hospital MRN	PRID	Reg. Date/Time	Patient	SSN	Diagnosis
1083041147124	19392096	11/15/07 10:26	Doody, Howdy	111223333	OTHER GENERAL SYMPTOMS
			Figure 8		

Clicking on the hospital ID number for that encounter will display all of the HL7 Import data, including any changes and the date of those changes (HL7 Change Log).

IV. Providing Hospital Updates from the ePCR

If a bi-directional feed has been established with the hospital, PCR information can be sent to the hospital for inclusion in their EMR system. Just as your service can pull updated patient information from the hospital record, hospitals can also update their patient information from your ePCR, if needed. This is done by the Hospital IT department and requires no interaction by your crew.

Linda Coene Director of Training emsCharts, Inc. June 18, 2012