



Creating eReferral in PA with University of Pittsburgh Medical Center, Cerner (EHR), Medicity (HIE) and National Jewish Health

Update Date: October 2014

eReferral Project Summary

Please describe the purpose / goals for your eReferral project. Give a description of the health care provider/system, why/how they were selected, and other relevant information. What outcomes are you seeking to achieve through this project?

Implement a bi-directional eReferral system to support the inpatient tobacco cessation program in place at University of Pittsburgh Medical Center. Demonstrate a bi-directional eReferral system using cCDA document formats. This partnership was selected because UPMC has a well-organized tobacco cessation program and an advanced IT group and Stage II EHR. The primary outcome is to create a system by which all hospitalized smokers system-wide are referred to the quitline for follow-up in an "opt out" referral system. This is desirable because it is best-practice for smoking treatment in health care systems – i.e., "every patient every time".

Type of Project

Is this project for inpatients, outpatients, or both? Please describe the characteristics of the health care system / provider you are working with. Is it an acute care hospital, a specialty hospital, an ambulatory clinic, or a physicians group? Does the clinic have any special attributes, such as a behavioral health clinic or a federally qualified health center? Is the physicians's group multispecialty, single specialty or primary care?

This project is for an inpatient cessation program in an academic medical center setting

Dates

Please note the date started and completed. If the project is still ongoing, please include the expected date of completion.

Start Date August 2013
Expected Complete Date or TBD
Actual Complete Date:

Key Players

Provide a list of the key organizations responsible for planning, implementing and funding your eReferral project.

Partner	Name	Location	Key Roles and Responsibilities for eReferral Implementation
Health Care	University of Pittsburgh	Pittsburgh PA	Involve internal IT group in helping to map



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System	Medical Center		from the quitline data set (from NAQC) to the cCDA Transition of Care/Referral Summary (ToC/RS) being implemented in the EPIC stage II EHR Communicate with EHR vendor as needed Research team: Drs. Hilary Tindle, Esa Davis, Vivek Reddy, Antoine Douaihy
Quitline Service Provider	National Jewish Health	Denver, CO	Provide project workplan for eReferral implementation Provide technical specifications for building eReferral documents and HIE Work with IT
Key Quitline Funder(s)	State of Pennsylvania		Fund evidence-based cessation treatment program for referred patients (counseling plus pharmacotherapy)
eReferral Funding	None currently		
EHR Vendor	Cerner		
HIE Vendor	Medicity		
Other			

Technology

Provide a list of the key technology vendors and resources used to build your eReferral system. Note whether you are using HL7 2.x or HL7 3.x (cCDA) as your interoperability standard. Describe your HIE framework.

Technology	Vendor Name	Software Description (eg, name, version, type)
EHR	Cerner	Cerner Acute Care EHR, certified for Stage II Meaningful Use
Quitline System	National Jewish Health	QuitPro (internal system)
Interoperability Standard		cCDA (HL7 3.x)
Interface Engine	Dynamic Health	
Health Information Exchange (HIE)	Medicity	NHIN Direct-compliant software
Other		

Key Work

Please breakdown the project into key areas of work or milestones that must be completed so that readers have an understanding of the project framework and complexity.

Key Area / Milestone	Description of Project Steps
Health Systems Change	Organize project team to oversee design new workflow protocols, educate



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	<p>staff and physicians, provide bedside counseling, collect and present data for reporting internally and for JC, etc.</p> <p>Hire program coordinator to manage project.</p> <p>Identify local cessation resources available other than the quitline.</p> <p>Work with Nursing and Medical Staff leadership to automate NRT and inpatient treatment consults as opt-out (within certain parameters/exclusions consistent with NRT prescribing)</p>
EHR Integration	<p>Confirm ability of Cerner EHR to send ToC/RS document as required for Stage II MU</p> <p>Review required eReferral data set (from NAQC) and map to data fields populated in the hospital's ToC/RS</p> <p>Meet with UPMC programmers to build referral system which could result in all hospitalized smokers system-wide, being referred to the quitline for follow-up in an "opt out" referral system. This is desirable because it is best-practice for smoking treatment in health care systems – i.e., "every patient every time".</p> <p>Send test referral forms and feedback reports between hospital EHR and quitline service vendor</p>
Health Information Exchange	<p>Determine how to deliver quitline feedback reports to both the referring provider (from the hospital) and the patient's primary care physician.</p> <p>Determine whether to deliver quitline feedback reports to a common hospital mailbox, or does each medical staff member have his/her own email address on the NHIN Direct exchange.</p>
eReferral Program Funding	<p>Determine whether hospital's patient mix is covered by existing quitline programs (state, health plans, etc)</p>
Privacy/Security	<p>Meet with legal department to find out what documentation is required for patient consent and to examine HIPAA considerations..</p>
Other	

Project Outcomes

Please note progress to date on project implementation and outcomes. If eReferrals are being made, please describe whether they are bi-directional and whether information is being passed as discrete data or unformatted text. How many eReferrals are generated in a given timeframe?

New program, no outcomes to date

Key Challenges / Lessons Learned

New program, no outcomes to date.



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Attachments

Please include any supporting documentation that will help others to learn from your eReferral project. Examples include practice workflows, technology diagrams, order sets, discharge instructions, EHR screen shots, and other practical applications of your eReferral process. List below:

- 1.
- 2.
- 3.
- 4.
- 5.