

Strategies for Using Mobile Apps to Meet API and VDT Requirements for Meaningful Use Stage 3 / QPP ACI

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Presenters: Elisabeth Renczkowski Joe Kynoch

Agenda

- Application Programming Interface (API) and View/Download/Transmit (VDT) Requirements
- What is an API?
 - Where to Find Out About Your EHR's API
 - Using an API
 - App Development API Challenges
- Business/Clinical Strategy: How to Meet MU/QPP Requirements
- Story: Parent of Child with Epilepsy
- Implementation Strategy: Engaging Patients Through Mobile Apps



Meaningful Use - Modified Stage 2

Objective 8 – Patient Electronic Access

Measure 1: More than 50% of patients provided timely access to view, download, and transmit their health info **Measure 2:** More than 5% of patients view, download, or transmit their health info

Meaningful Use - Stage 3

Objective 5 – Patient Electronic Access

Measure 1: For more than 80% of patients: (1) the patient is provided timely access to view, download, and transmit their health info; and (2) the patient's health info is available for the patient to access using any app of their choice configured to meet the technical specs of the API in the provider's CEHRT

Objective 6 – Coordination of Care through Pt Engagement (must meet 2 of 3 measures)

Measure 1: More than 5% of patients: (1) view, download, or transmit their health info; (2) access their health info through apps chosen by the patient and configured to the API in the provider's CEHRT; or (3) a combination of 1 and 2. (2019: increases to >10%)

Measure 2: For more than 5% of patients, a secure message was sent to the patient (2018: increases to >25%)

Measure 3: Patient-generated data or data from nonclinical setting is incorporated into CEHRT for more than 5% of patients



Quality Payment Program (QPP) – Advancing Care Information (ACI)

Provide Patient Access

At least 1 patient* is provided timely access to view, download, and transmit their health info and the info is available to access using an app that is configured to meet the technical specs of the API in CEHRT

View, Download, Transmit (VDT)

At least 1 patient either (1) views, downloads or transmits their health info; (2) accesses their health info through an app chosen by the patient and configured to the API in CEHRT; or (3) a combination of 1 and 2

Patient-Generated Health Data

Patient-generated health data or data from a non-clinical setting is incorporated into CEHRT for at least 1 patient

Secure Messaging

For at least 1 patient, a secure message was sent to the patient

*While there are no minimum thresholds in QPP, higher percentages result in higher scores. The 1 patient is an interim requirement for the first QPP year.

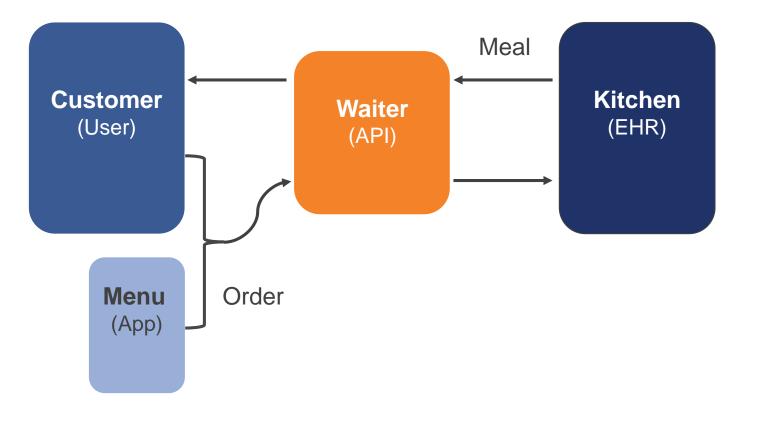


What is an API?

A Restaurant Analogy

- User = Customer
- App = Menu
- API = Waiter
- EHR/backend = Kitchen







What is an API?

- A set of requirements that governs how one <u>software application</u> interacts with another <u>software application</u>
 - Allows developers to create Apps to use data in the EHR system
 - All the specifications for working with the EHR system
 - Published and available
- APIs widely used to exchange data but APIs are not standardized
 - Developers need to support APIs of each EHR vendor
- Example: Patient Portals are often interfaced to the EHR via an API
- ONC requires a fully functioning API for 2015 Certification
 - Ideally portal-hosted
- Links to CEHRT APIs on Certified Health IT Product List (CHPL) website
 - <u>https://chpl.healthit.gov/#/collections/apiDocumentation</u>



Where to Find Out About Your EHR's API

Certified	l Health IT I	Product	List		<u>S</u>	earch CHPL Q	<u>CMS ID Creator</u> »	<u>Compare Products</u> >	<u>CHPL Resources</u> >	<u>Shortcuts</u> •
API Informa	ation for 2	015 Edi	tion Products							
This list includes all h • §170.315 (g)(7 • §170.315 (g)(8		t have been cer - Patient Selec - Data Categor	tified to at least one of the following API C tion Ƴ	riteria:						
IT. Please note that by de		at are active or	health IT product in this list. This is a hype suspended are shown in the search result	rlink to a page on the developer's official website that provides in plai s. Certification Status	language any limitations and/or additional co	osts associated	with the implemer	ntation and/or use of t	he developer's certi	fied health
Search by Deve	ioper, P roduct, Version,	or CHPLID		Particular and a second second	of 74 Results 1 2 Next					
Developer 🖨	Product 🖨	Version 🖨	CHPL ID	API Documentation 🖨		Mandatory	Disclosures URL	•		
eMedPractice LLC	eMedicalPractice	2.0	15.02.02.2898.A042.01.00.1.170929	170.315 (g)(7), 170.315 (g)(8), 170.315 (g)(9) https://stage.emedpractice.com/Fhir/FhirHelpDocument.html	CZ		emedpractice.com	/EHR.html		
Agastha, Inc.	Agastha Enterprise Healthcare Software	15.1	15.04.04.1056.Agas.14.00.1.171231	170.315 (g)(7), 170.315 (g)(8), 170.315 (g)(9) http://www.agastha.com/api	C ¹ C	http://www.	agastha.com/certif	ications.html		
AntWorks Healthcare	AntWorks Healthcare EHR	7.1	15.04.04.1144.AntW.71.01.1.171219	170.315 (g)(7), 170.315 (g)(8), 170.315 (g)(9) http://prognocis.com/ehr-interoperability/	C ¹ C		ncare.ant.works/in	dustries/healthcare-se	ervices/electronic-h	ealth-record
CareEvolution, Inc.	HIEBus™	2015	15.04.04.1200.HIEB.15.00.1.171127	170.315 (g)(7), 170.315 (g)(8), 170.315 (g)(9)		http://www.	careevolution.com		Me⊦	

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DIGITALHEALTH

MASSACHUSETTS at the MassTech

Collaborative

Using an API

- Who: developers = entrepreneurs = patients/providers
- Why: provide access to patient data for external applications
 - Connection to a Personal Health Record (PHR)
 - HealthVault
 - Export health data to a Personal Health App
 - Tool to manage diabetes or a heart condition
 - Provide access to health data for Provider/Patient developed applications
- How:
 - API accessible to patients from the EHR/Provider's Portal
 - Provider-generated list of external apps



- Privacy/Security
 - Authorization
 - Authentication
- HIPAA regulations
- App registration with provider's EHR
- Technical compatibility with EHR

Moral of the Story: Talk to Your EHR Vendor!

- Which Mobile Apps are vetted by the EHR vendor?
- Ensure capability to track patient access via App:
 - Access is recorded and appears on EHR dashboard



- <u>http://hl7.org/fhir/</u>
- <u>https://smarthealthit.org/</u>
- <u>https://www.healthit.gov/</u>
- https://chpl.healthit.gov



Business/Clinical Strategy: How to Meet MU and QPP Measures

Provide patients with list of pre-vetted Mobile Apps that interface to your EHR to:

- Increase your ability to help patients in using VDT
 - MU Objective 5 Measure 1 Part 1: Patient Electronic Access Provide VDT access to patient
 - MU Objective 6 Measure 1: Coordination of Care through Patient Engagement Patient uses VDT
- Increase your ability to Securely Message with your patients
 - MU Objective 5 Measure 1 Part 1: Patient Electronic Access Provide VDT access to patient
 - MU Objective 6 Measure 1: Coordination of Care through Patient Engagement Patient uses VDT
- Increase your ability to Incorporate Non-Clinical Patient Generated Data into your EHR
 - MU Objective 6 Measure 3: Coordination of Care through Patient Engagement Patient-generated data incorporated into CEHRT

Provide your CEHRT's API technical specification to patients to meet API requirements

- MU Objective 5 Measure 1 Part 2: Patient Electronic Access Provide API specification to patient
- MU Objective 6 Measure 1 Part 2: Coordination of Care through Patient Engagement Health info available/accessed by patients using App of their choice configured to technical specs of CEHRT's API



Business/Clinical Strategy: How to Improve Care and Exceed MU/QPP Measures

Pro-Active EPE Strategy	Increased ability to meet your EPE related measures			
 Provide Patient Portal Access Provide list of pre-vetted Mobile Apps that Support VDT, Patient Input, Secure Messaging Connect to your EHR via API 	If connected to your dashboard, the Mobile Apps-based activity counts towards patient VDT, Patient Input, Secure Messaging			
 Physicians actively explain how these EPE tools enable them to provide better care Staff available to assist patients who need to select and learn to use the EPE options 	Improves EPE use, as patients trust physicians/staff and tend to follow the advice			
 Upload patient info and lab results into the Patient Portals and Apps in meaningful way Add educational info; use EPE to assist in: interpreting data/trends care adherence 	Raises interest in using Patient Portal and Mobile Apps as it involves patients in their care and enhances understanding			
Provide API information to patient	Must be done to meet API measure			
Avoid these questions by helping patients select from your pre-vetted Mobile Apps	The Q&A overhead is not likely to improve patient care, and is your staff even equipped to answer?			
	 Provide Patient Portal Access Provide list of pre-vetted Mobile Apps that Support VDT, Patient Input, Secure Messaging Connect to your EHR via API Physicians actively explain how these EPE tools enable them to provide better care Staff available to assist patients who need to select and learn to use the EPE options Upload patient info and lab results into the Patient Portals and Apps in meaningful way Add educational info; use EPE to assist in: interpreting data/trends care adherence Provide API information to patient 			



Story: Parent of Child with Epilepsy – Imagine the EPE Possibilities



Toby's Story

- First seizure Sept 2011; formal diagnosis Nov 2011
 - Generalized Epilepsy; primary seizure type myoclonic
 - Suspected Myoclonic-Astatic Epilepsy (MAE or Doose Syndrome)
 - Tried and failed 7 medications
- Began ketogenic diet summer 2012
 - Dramatic reduction in number & severity of seizures
- Seizure-free since January 2015; clear EEG at last neuro visit

What About an App?

- Ketogenic diet requires daily testing of ketone levels
- App for parents
 - Track and report daily ketone levels
 - Record meals and recipes
 - Document and describe seizure activity & other symptoms
 - Communicate with physician (VDT & Secure Messaging)
- Work with a developer to create an app
 - Would need API specifications from neurologist's EHR





Implementation Strategy: Engaging Patients Through Mobile Apps

- Design your EPE Strategy for using Patient Portals and Mobile Apps
 - How can the Apps enhance your ability to provide care and engage patients?
- Talk to EHR Vendor to:
 - Get their API Technical Specification
 - Get list of Mobile Apps the vendor knows work well
- Review and select the Mobile Apps:
 - What are the Apps that would enable your EPE strategy?
 - What would your patients be likely to use?
- Implement your EPE strategy
 - Define and set up the inputs/outputs of the VDT, Secure Messaging, Patients Data
 - Define and set up the workflow process that enables its use
- Recommend the Mobile Apps to your patients
 - Physician discussion, pamphlet, website, patient portal, etc.
 - Don't forget to still give patients the API Technical Specification



Questions?

