

HIMSS Michigan Chapter "Fix the DAMN Roads"

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Not just Data Integration but must include Workflow Integration

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EMR Adoption...



API Overview



- An API is a software intermediary which • allows applications to talk to each other
- **APIs** allow the capabilities or data of one computer program to be used by another
 - Lego blocks of data
 - Doesn't matter what the underlying computer or technology is
- **APIs** are a foundational technology that • drives modern computing and the API economy (Amazon, Netflix, Google, Facebook, EBay, YouTube, Twitter, & etc.)
- **APIs** enable innovation in an unprecedented manner
- **APIs** are not new... simplified, easy to • use versions of them are



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ASSETS

Your data and software (and brand) become more valuable by being leveraged by partners, developers, and thirdparty services.





FHIR® — Fast Healthcare Interoperability Resources

- An HL7 next generation standard
- Helps two computer systems talk to each other

FHIR "resources" are standardized & reusable

• Patient, practitioner, organization, deviceRequest

FHIR supports common exchange methods

• REST*, messaging, documents and services

FHIR supports the spectrum of integration

 Mobile phone apps, EHR-based data sharing, institutional solutions

FHIR helps with existing use cases & provides for future innovation

What is FHIR?



Data available in-workflow supports value-based care and population health management









HL7 Da Vinci Project: An Overview

To ensure the success of the industry's **shift to Value Based Care**, Da Vinci established a *rapid multi-stakeholder* process to identify, exercise and implement initial use cases between payers and provider organizations.

The objective is **to minimize** the development and deployment of **unique solutions** with focus on reference architectures that will promote adoption of industry wide standards.

Providers (11)

ATI Physical Therapy, Cedar-Sinai, MultiCare, Connected Care, OHSU, Rush Medical, Providence St. Joseph Health, Sutter Health, Texas Health Resources, Weill Cornell Medicine

Payers (14)

Anthem, Blue Cross Blue Shield Alabama, Blue Cross Blue Shield Association, BCBS Tennessee, Blue Cross Blue Shield of Michigan, Blue Cross of Idaho, Cigna, Cambia Health Solutions, Centers for Medicare and Medicaid Services, GuideWell, Health Care Service Corporation, Humana, Independence Blue Cross, UnitedHealthcare

Technology Suppliers (15)

Allscripts, Cerner, Casenet, Cognosante, Edifecs, Epic, Healow Insights, HealthLX, Infor, InterSystems, Juxly, Optum, Surescripts, Virence Health, ZeOmega

Partners (2)

HIMSS, NCQA

Use Case Focus Areas

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CMS NPRM and Da Vinci Solutions



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Work Breakdown to Support CMS NPRM

WORK BREAKDOWN TO SUPPORT CMS NPRM				PAYER TO:		
DATA	SUB TYPE	RESOURCE / PROFILE	BUILD	MEMBER	PROVIDER	PAYER
Claims Data	Financial Clinical	EOB USCDI / US Core / Da Vinci	CARIN Da Vinci	CARIN DV for CARIN	Da Vinci	Da Vinci
Clinical Data	All	USCDI / US Core / Da Vinci	Da Vinci	DV for CARIN	Da Vinci	Da Vinci
Payer Decisions	Treatment	USCDI / US Core / Da Vinci	Da Vinci			Da Vinci
Pharma Data	RTBC Medications Formulary	RTBP / FHIR R4 USCDI / US Core Da Vinci (new Profile)	CARIN NCPDP Da Vinci Da Vinci	CARIN NCPDP DV for CARIN DV for CARIN	CARIN NCPDP Da Vinci Da Vinci	Da Vinci Da Vinci
Directory Data	Payer & Pharma Network	US Core / VHDS / Da Vinci	Da Vinci	DV for CARIN	Da Vinci	

CMS NPRM Requirements for Covered Payers





Goal: To address the portability of care/treatment as a member moves from one covered plan to another

Regulatory: CMS NPRM for member directed payer to payer exchange of USCDI data

Immediate Requirement: Support for information regarding ongoing treatment

- a) Relevant diagnoses
- b) Current treatments (including start date, end date (if any), ...)
- c) Guidelines for prior-authorization (e.g. specific Milliman guideline)
- d) Current prior-authorizations (service, duration, remaining)
- e) Clinical information that went into the decision for treatment coverage



4) Push to intermediary



Prior Authorization Support



PA Request





Telephone





Payers



Providers



Medical Records





Electronic Transactions



Currently providers and payer exchange prior authorization requests and supporting medical records using a number of methods: telephone, fax, portals, and electronic transactions



Future FHIR Enabled Solution



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Use Case Focus Areas







By using new technologies (HL7© FHIR©, CDS Hooks[™], SMART on FHIR©, CQL©) it is possible to integrate time intensive tasks into the clinical workflow to achieve significant efficiencies. We can substantially reduce provider burden by:

- 1. Acquiring critical patient information while the patient is available
- 2. Obtain prior authorizations in real-time for certain common services
- 3. Minimize rework by "getting it right the first time"

The most critical impact of improving the prior-authorization workflow is the improvement on patient care and experience.



FHIR Prior Authorization Endpoint Interactions

FHIR PA endpoint requirements

- 1) Receive and process PA bundle
 - Respond in <15 seconds
- 2) Receive and process Subscription request for "PENDED" PA
 - Reply on change in PA status
- 3) Receive and reply to PA status query
- 4) Receive and process cancel
- 5) Receive and process update
- 6) Support Status, Cancel, Update from both ordering and performing provider



FHIR Prior Authorization Components

Direct connection or via exchange Provider Health Plan (e.g. Clearinghouse) (2) (1) Health Plan Provider orders or CDS Hooks request to payer receives request plans treatment and evaluates (3a) (3) Is PA Coverage rules / Yes− required? templates No (4) Response with (5) CDS CARDS documentation Provider receives answer requirements if appropriate PA (6)EHR/SMART App collects attestations, CQL / SMART App clinical data (from patient record where Coverage possible), Requirements Discovery Documentation (7)Templates and Gathers all information (9)Rules for PA and attachment Health Plan Receives PA Convert FHIR to/from and sends it directly or –ASC X12N request and attachments, X12 if not done by via intermediary to payer process request and Prior provider application -- returns PAN, Pend, provides response Authorization Deny Support ASC X12N Conversion to meet HIPAA Note: if Pended, provider subscribes to PA request and retrieves response when status changes

Coverage Requirements

- Initiates process using CDS hooks
 A a if DA is required
- 2) As if PA is required

Templates and Rules

- If PA is required start SMART app and retrieve Payer Rules and Template
- 2) Prepopulate
- 3) Solicit missing info

PA Support

- 1) Package clinical data and request/response
- 2) Manage exchanges with payer



UNLOCKING PAYER INFORMATION TO IMPROVE CARE HIMSS19 Demonstration



The visual describes the interactions demonstrated at HIMSS Interoperability Showcase, direction of each exchange, the FHIR standards used, the setting where the interaction is occurring and the participants.

Each step represents a provider - payer exchange using FHIR IG

Activities by the Numbers	Stats
Total practice runs	3
Total public runs	23
Filming runs	1
Total variations	14
Total roles	96
Total role system issues	7
Role availability	92.7%

Activities by the Numbers	Stats	
AEGIS Touchstone available	100%	
Total MCs	6	
Total EHRs	2	
Total Payer/Partner	4	
Total Payer only	5	
Total Sponsors	16	
Number of visitors (approx.)	500	
Percent that left during vignette	< 10 %	

CLINICAL SUMMARY

Da Vinci is demonstrating the ability to exchange information between payers and providers using HL7[®] FHIR[®] and CDS Hooks[®] as part of the Interoperability Showcase.

The vignette describes a clinical encounter for 78-year-old Asian women named Dara that starts with her primary care physician, proceeds to a cardiologist who admits Dara to the hospital for an angiogram and observation where it is determined that her chronic obstructive pulmonary disease has progressed to the point that she needs supplemental oxygen.

As Dara returns to her primary care physician, her previous medications are reconciled with those prescribed at discharge, the PCP reports the medication reconciliation, in support of a quality measure the Medicare Advantage program is following for its members.



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MiHIN + Interoperability Institute

Matt Englehart Director of Research and Development

Part of the MiHIN Family of Organizations



Interoperability Institute, LLC

Mission

The Interoperability Institute develops solutions and the next generation workforce required to enable organizations and communities to harness the benefits of interoperability at scale.

Vision

To serve as a focal point for creating communities and environments that accelerate the adoption of interoperability in ways that result in greater health and more impactful delivery of human services.



Interoperability Institute provides a neutral space where:

- Organizations can collectively demonstrate the interoperability of software as a service (SaaS) solutions
- People can learn modern technologies or standards like FHIR
- Novel innovations can safely encounter complex synthetic realworld scenarios before being deployed or adopted in production



Interoperability Institute Pillars

Interoperability Land[®]

Interoperability Hackathons & Training

Interoperability Workforce Program



Introducing Interoperability Land[™]

A collaboration platform designed to power the future of multi-organization development, integration, acceptance, and testing of innovative technologies and open standards.



Interoperability Hackathon Events





Interoperability Hackathon Themes



Addressing the Talent Gap in Information Technology and Healthcare

- Over the next 5 years, Michigan employer demand for IT and healthcare professionals with college degrees is expected to increase by as much as 35%.
 SOURCE: MI DTMB Bureau of Labor Market Information and Strategic Initiatives, 2019
- Only 28% of Michigan residents ages 25 to 64 have obtained a bachelor's degree. SOURCE: U.S. Bureau of Labor Statistics, 2013-2017 data
- Approximately 60% of Michigan's college graduates move to other states. Losses are greatest among graduates in technical fields. *SOURCE: U.S. Department of Education*



Annually MiHIN Trains 80+ Interns with Diverse Backgrounds







Interoperability Workforce Program

Leverage the existing success of the MiHIN internship program to launch a broader internship training and part time employment service to meet growing future talent demands (informatics, information technology, data science, cyber security, artificial intelligence, advanced cloud services, etc.)





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