

Life after EHR Implementation: Promoting Transparency and Driving Market Improvements

ONC Annual Meeting

January 27, 2020









Purpose of Today's Discussion:

- 1. Discuss progress to date of the 21st Century Cures Act EHR Reporting Program
 - Stakeholder engagement
 - Draft reporting criteria
- 2. Discuss approaches to EHR Reporting criteria data collection

BACKGROUND





Project Team

- ONC
 - Staff Leads: Michael Wittie, Lauren Richie, Seth Pazinski
- Urban Institute
 - Christal Ramos (PI)
 - Fred Blavin, Emily Johnston, Dulce Gonzalez, Luis Basurto, Diane Arnos
 - Consultant: Steven Lane (Sutter Health)
- HealthTech Solutions:
 - Gary Ozanich (lead)
 - Kathy Frye, Ashley Kruger, Pam Zemaitis, Caitlyn Turner, Amy Osborne





EHR Reporting Program

Mandated by the 21st Century Cures Act

- Provide publicly available, comparative information about certified health IT through:
 - Mandatory developer reporting
 - Voluntary user reporting
- Five key domains:
 - Interoperability
 - Usability and user-centered design
 - Security
 - Conformance to certification testing
 - Other categories as appropriate





Limitations with Existing Comparison Tools

- Limitations with 18 existing health IT comparison tools include (ONC 2016¹):
 - High fees to access information
 - Methodological problems
 - Lack information on cost, usability, interoperability, and quality reporting capabilities
- Additional review of tools in 2018 revealed (Urban 2018²):
 - 4 are no longer available
 - 4 cater to narrow, specialized audiences
 - 3 only include product functionalities, no ratings or reviews
- Some stakeholders worry current tools don't meet needs of all providers

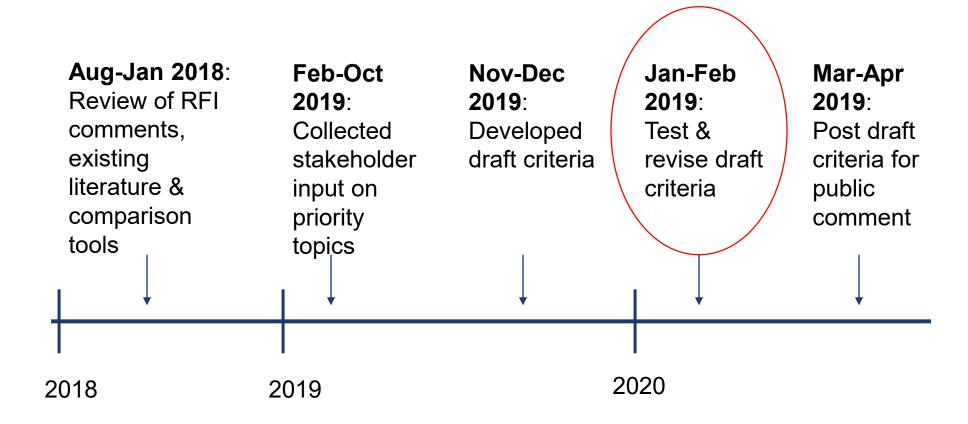
¹ONC, Report on the Feasibility of Mechanisms to Assist Providers in Comparing and Selecting Certified EHR Technology Products, Report to Congress, April 2016

²Urban Institute, What Comparative Information is Needed for the EHR Reporting Program? November 2019





Development of EHR Reporting Criteria



Note: Work beyond September 2020 is subject to additional ONC funding

Stakeholder Input





Framework based on Stakeholder Priorities

Measure selection criteria:

- Provide comparative information
- Promote developer transparency and accountability
- Promote safety
- Drive market improvements
- Fill information gaps
- Minimize burden
- Can be frequently updated

	Interoperability		Usability and User-Centered Design		Privacy & Security		Conformance to Certification	Additional Areas	
	Functionality: Wha	ai	t capabilities doe	S	the product p	r	ovide?		
Performance: How does the product perform in the real world?									
Costs & Developer Practices: How do they structure pricing, contracts, user support?									





Stakeholder Input

- ONC Request for Information (77 comments)
- Public forums and office hours (7 states)
- Professional association conferences (4)
- Topical, virtual group discussions (9)
- One-on-one discussions with experts (9)
- Market research calls on existing EHR compare tools (3)
- Dedicated email inbox for public feedback





Draft Criteria Development Process

- Based on the stakeholder priorities, draft criteria were developed:
 - from existing data sources
 - to collect from EHR developers
 - to collect voluntarily from certified health IT users
- Measures were revised based on review and feedback from subject matter experts
- Cognitive and feasibility testing of criteria for EHR developers and users occurring this month
- Draft criteria are being revised based on testing and will be posted in March for public comment (not yet available)

Potential Draft Criteria Options for Public Feedback





Interoperability Draft Criteria Topics for Feedback

	Developer	User
Exchange w/national networks, trading partners	Networks, HIEs/HIOs, agencies supported PDMP – single sign-on Method of exchange Video demos (Direct, PDMP) Cost (per message, interface costs)	Ease of exchange
Electronic reporting (registries, incentive programs)	Retrieval of underlying data Successful user attestation (PI, MIPS) Time to implement new measures Customization and costs for reports Pediatric measures	Ease of quality reporting Ease/success of attestation (PI, MIPS) Cost
Technical standards, versions, APIs	HL7 interfaces (#, upgrade frequency, cost) FHIR resources supported Patient matching ISA standards, USCDI, APIs	
Consumer-facing applications	Methods for consumer access to data	



Usability Draft Criteria Topics for Feedback

	Developer	User
Overall usability		Overall rating Functionality for specialty/clinical focus
Quality and safety		Extent to which product supports quality, safety
Provider burden		Affect on efficiency, documentation time
Features and functions to enhance usability	Additional cost or customization required	Ease of use
Implementation process	Cost for customized interfaces Cost for implementation support	Ease of implementation process Satisfaction with communication and training





Usability Draft Criteria Topics for Feedback: Features/Functions

- Automated field population
- Social determinants data collection
- Analytics
- Orders sets
- e-Prescribing of controlled substances
- Chronic disease management tool
- Medication tapering

- Mobile and remote accessibility
- Optical character recognition
- Receive/review images
- Patient reminders
- Single sign-on
- Telemedicine
- User-configured interfaces
- Voice recognition



Security Draft Criteria Topics for Feedback

	Developer	User
Overall		Satisfaction w/security features
Multi-factor authentication	Support for multi-factor authentication	
Role-based access	Types of controls that can be implemented	
Security risk assessment	Date of last assessment	
Security incidents	# of incidents in past year # upgrades and patches to address vulnerabilities	Ever notified by developer of breaches
42 CFR Part 2	Tools offered to implement (tagging, segregation, role-based access)	



Other Draft Criteria Topics for Feedback

	Developer	User
Cost	Pricing model (license, subscription) Average total & itemized costs	Total upfront purchase cost Annual ongoing cost
Maintenance, upgrades	Typical ongoing maintenance costs Upgrade frequency Downtime for maintenance, upgrades	Extent to which upgrades are useful, not burdensome
Support	Resources for user support Cost for user support	Satisfaction with support
Contracts	"Out clause" and "gag clause" requirements	"Out clause" and "gag clause" requirements
Other		Overall satisfaction





Conformance to Certification Draft Criteria Topics for Feedback

- Draft criteria that primarily draw from CHPL:
 - Certification status
 - Developer status
 - Certification date
 - Certification edition
 - ONC-ACB responsible for certifying the listing
- Draft criteria also include developer question on successful completion of non-ONC conformance testing

Approaches to Data Collection





Potential Data Sources

- Existing data sources
 - CHPL
 - Program data, other info from clinicians (market research, survey data)
- Data from EHR developers
 - As part of Cures, required to report on all certified technology to maintain certification
 - Trade-off between burden and data quality/quantity
 - Voluntary vs. mandatory criteria
- Voluntary data from EHR users
 - Crowd-sourcing approach is the least burdensome and most sustainable in a rapidly-changing environment
 - Concerns: biased responses and lack of incentives to review products





Discussion Questions

- Overall
 - Priority topics to include?
 - Ability to collect comparable information on cost?
- Developer reporting
 - Focus on most recent versions of products?
 - Value of criteria using lists of connections and video demos?
 - Voluntary vs. mandatory criteria?
- User reporting
 - Effectiveness of crowd-sourcing approach?
 - Incentives to promote participation?





Call to Action



Note: Work beyond September 2020 is subject to additional ONC funding

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Questions or Comments?

Email: <u>ehrfeedback@urban.org</u>

Example Criteria – If Needed





Example Measures: National Networks, Trading Partners

Source	Developer	User	CHPL
Functionalities	Support for: Carequality, Commonwell, eHealth Exchange Method of exchange w/post- acute care, behavioral health		Direct Secure Messaging (DSM) Public health reporting Transitions of care, C-CDA creation
Performance	List locations for eHealth Exchange hub services, connections w/HIEs/HIOs, federal agencies Video demo of DSM and PDMP workflows	Ease of exchange with HIEs/HIOs, federal agencies, PDMP, trading partners	
Cost & Developer Practices	Cost for DSM (per message fee) Interface Costs Interface Upgrades		





Example Measures: Electronic Reporting

Source	Developer	User	CHPL
Functionalities	Ability to collect data and provide electronic reports for MIPS and CPC+		Automated numerator recording Automated measure calculation
Performance	Providers attested to MIPS in PY 2021 using product Average time between availability of new quality measures and release date	Successful attestation to MIPS in PY 2021 Ease of attestation to PI and MIPS Ease of quality measure reporting	•••
Cost & Developer Practices	Customization, consultant or add-on service required for reports	Additional costs for meeting MIPS requirements	



Example Measures: Usability - Orders

Source	Developer	User	CHPL
Functionalities	Availability of default values for common orders Availability of evidence-based order sets and charting templates		CPOE – meds, labs, diagnostic imaging Drug-drug, drug-allergy checks for CPOE
Performance		Ease of default values for common orders Ease of evidence-based order sets and charting templates	
Cost & Developer Practices	Functionalities in base model or with additional cost and customization?		