Quality Data Model (QDM) Style Guide

June 2012

<u>Background</u>

The Quality Data Model (QDM) Style Guide (June 2012) is a companion document to the QDM Update June 2012. Please refer to the QDM Update June 2012 document for a general description of the QDM as well as changes that have occurred since the October 2011 publication. The changes are based on NQF member and public comment and also from experience gained by measure developers retooling or creating new measures that address data expected from electronic health records (EHRs).

Introduction to the Style Guide

The QDM Style Guide addresses feasibility of QDM components with respect to EHRs certified for the 2014 EHR Certification Program proposed by the Office of the National Coordinator for Health IT (ONC). The QDM Style Guide provides guidance as to which information can be expected in structured form in referenced EHRs and which information may be important to measures but would likely require additional effort if certified EHRs are used as the only source of data. Such effort within EHRs can include adjustment of the user interface data to capture data that satisfies both practice and measure reporting needs as well as post-documentation adjustment of data such as natural language processing or other means to translate point of care data into quality measurement data while preserving semantic meaning.

Intended Use

The QDM Style Guide is not intended to restrict quality measure development for the purpose of testing and evaluation for more advanced EHR implementations. It is intended to provide direction to measure developers about the floor of feasibility and availability for specific data within any 2014 Certified EHR. The style guide will help measure developers or others seeking data directly within EHRs meeting certification standards to focus on readily available data as they consider data elements to define measure content. NQF expects to update the QDM Style Guide as EHR certification requirements change over time.

Structure of Style Guide

The QDM Style Guide is presented in a table format. For each QDM Category, the related standards recommended by the Federal Advisory Act (FACA) Health IT Standards Committee and those incorporated in the Proposed 2014 Edition EHR Certification Criteria¹ are provided. The Guide also provides guidance as to what might be expected as structured data available in EHRs that adhere to the proposed 2014 certification criteria and what data criteria may require additional effort within EHRs. Definitions of the QDM categories can be found in the <u>QDM June 2012 Update</u> <u>located here</u>.

¹ Available at: <u>http://www.gpo.gov/fdsys/pkg/FR-2012-03-07/pdf/2012-4430.pdf</u>.

Column Header Definitions:

- QDM Category refers to a particular group of information that can be addressed in a quality measure. Definitions are provided as Appendix A in this style guide for reference. Complete descriptions of the categories, states and attributes can be found in the companion publication, QDM Update June 2012.
- 2. Standards list the *Vocabulary (Code system)* recommendations provided by the HITSC with modifications as included in the Proposed 2014 Edition EHR Certification Criteria and *ONC 2014 EHR Certification Standard (proposed)* section that discusses the information category.
- 3. Feasible includes those *states* (context of use) and attributes that should be present in structured form in an EHR meeting proposed 2014 certification requirements.
- 4. Feasible but require additional effort, e.g., workflow changes lists states (or contexts of use) and attributes that *cannot* be expected to be present in an EHR meeting proposed 2014 certification requirements. Some EHRs may be able to provide the level of detail required by these states or attributes. Many will require a change to clinician workflow to document in structured format data currently captured external to the EHR or in unstructured text, or to document information that is not part of a standard workflow. Such data may be available by *post-documentation* methods such as natural language processing and/or abstraction of some data components. To limit the potential extra burden on the part of clinicians, such elements should not be used in measures designed for data captured exclusively by EHRs without testing to be certain of data availability. In summary, this second column of feasibility issues require one of the following:
 - a. entry by clinicians of structured data where current practice addresses unstructured data, OR
 - b. entry by the clinician that is not currently documented, or request of the clinician to evaluate the output of other post-documentation methods such as natural language processing and/or abstraction of some data components.

QDM			Feasible but require additional effort, e.g., workflow
Category	Standards	Feasible*	changes**
Adverse Effect:	Vocabulary (Code system):	States:	States:
Allergy	SNOMED-CT to describe the allergic reaction	Documented (that the	Acknowledged
	RxNorm for Medications that are the causative	type of allergy reaction	Updated
	agents	is documented)	Alerted
	SNOMED-CT for non-medication substances that	Attributes:	Attributes:
	are causative agents	Causative Agent	Severity
	ONC 2014 EHR Certification Standard	Start datetime	Suggest retire these contexts from QDM:
	(proposed):		Declined
	170.314(a)(2) – Drug-drug, drug-allergy interaction		(Removal suggested: That a patient declined to report
	checks		allergies is significant for clinical care but a measure or
	§ 170.314(a)(7) – Medication allergy list		clinical decision support requires only knowledge that an
			allergy exists or does not exist)
			Reconciled
			(Removal suggested: An allergy list is reconciled, an
			individual allergy is updated)
Adverse Effect:	Vocabulary (Code system):	States:	States:
Non-Allergy	SNOMED-CT to describe the reaction	Documented (that the	Acknowledged
	RxNorm for Medications that are the causative	type of non-allergic	Updated
	agents	effect is documented)	Alerted
	SNOMED-CT for non-medication substances that	Attributes:	Attributes:
	are causative agents	Causative Agent	Severity
	ONC 2014 EHR Certification Standard	Start datetime	Suggest retire these contexts from QDM:
	(proposed):		Declined
	Specific to allergy only 170.314(a)(2) – Drug-		(Removal suggested: That a patient declined to report non-
	drug, drug-allergy interaction checks		allergic effects is significant for clinical care but a measure
	§ 170.314(a)(7) – Medication allergy list		or clinical decision support requires only knowledge that a
			non-allergic effect exists or does not exist)
			Reconciled
			(Removal suggested: An allergy list is reconciled, an
			individual allergy is updated)

Care Goal	Vocabulary (Code system):	States:	States:
		Documented	Start datetime
	the goal. E.g.:	Attributes:	Stop datetime
	a) Improvement in Body Mass Index (BMI) uses	None	Updated
	the vocabulary for the physical exam element	None	Resolved
			Reviewed
	(LOINC) and numerical or SNOMED-CT for the		
	result		Ordinality (principal, secondary, etc.)
	b) Patient understanding of education provided		Cardinality (1,2,3,)
	uses SNOMED-CT		Acknowledged
	ONC 2014 EHR Certification Standard		Provider preference
	(proposed):		Attributes:
	§ 170.205(a)(3) –		Patient preference
	§ 170.314(a)(7) – Consolidated CDA		Start datetime
			Stop datetime
			NQF seeks comment on a new attribute suggestion,
			Expected Time, to align with needs for care planning and
			care coordination.
			(While Care Goal is important for Care Coordination and Care
			Planning, most EHRs do not have a standard way to capture
			and manage this type of information)
			Suggest retire these contexts from QDM:
			Declined
			(Removal suggested: That a patient declined to state a care
			goal is important for clinical care but the presence or absence
			of a goal is
			the element important to measures and clinical decision
			support)

Characteristics	Vocabulary (Code system):	States:	States:
Characteristics	Varies by characteristic:	Documented	Ordered
	 ISO 639-2 constrained to elements in ISO 639-1 	Attributes:	Cardinality (1,2,3,)
	for Patient's Preferred Language (Mapping	Start datetime	Stop datetime
	maintained by Library of Congress:		Attributes:
	http://www.loc.gov/standards/iso639-		None
			Suggest retire these contexts from QDM:
	2/php/code_list.php)		Reported
	CDC PHIN-VADS HL7 for Administrative Gender		(Removal suggested: There is no real difference between
	CDC PHIN-VADS HL7 Race and Ethnicity (use		documented and reported. The two will add confusion.)
	broadest range of code sets within CDC listed for Race, Ethnicity, or both combined) –		Reconciled
	Identical to OMB Race and Ethnicity values		(Removal suggested: Individual characteristics may be
	LOINC-For assessment instruments, (including		updated, but reconciliation is not an EHR certification standard requirement for patient characteristics)
	tobacco use)		Declined
	• SNOMED-CT-Appropriate Responses to		(Removal suggested: That a patient declines to provide
	Instruments (including patient preferences and		demographics is important to the clinical care process but a
	behaviors)		quality measure or clinical decision support processes will
	 Payer Typology of the Public Health Data 		use presence or absence of data as the factors to evaluate.)
	Standards Consortium for characterizing payers		
	ONC 2014 EHR Certification Standard		
	(proposed):		
	 § 170.314(a)(3) – Demographics 		
	• § 170.207(j) – ISO 639-1:2002 (preferred		
	language)		
	 No standard specified –Administrative Gender 		
	• § 170.207(f) OMB standards for the		
	classification of federal data on race and		
	ethnicity		
	 § 170.207(I) – smoking status types 		
	 No standard specified – Patient preferences 		
	and behaviors		
	 No standard specified – Payer 		

Communication	Vocabulary (Code system):	States:	States:
communication	SNOMED-CT	Transmitted	Acknowledged
			5
	ONC 2014 EHR Certification Standard	Documented	Attributes
	(proposed):	Attributes	Recorder
	§ 170.314(d)(1) – Authentication, access control,	Receiver	Method
	and authorization – Patient preferences	Sender	Related to - {Task, Diagnosis, etc.}
	§ 170.314(a)(15) – Ambulatory setting only –	Subject	Cardinality (1,2,3)
	patient reminders	Start datetime	Suggest retire these contexts from QDM:
	§ 170.314(b)(1) – Incorporate summary of care	Stop datetime	Declined
	record		(Removal suggested: That a patient declines to a
	§ 170.314(b)(2) – Create and transmit summary		communication is important to the clinical care process but
	care record		a quality measure or clinical decision support processes will
	§ 170.205(a)(3) – Consolidated CDA		use presence or absence of data as the factors to evaluate.)
	§ 170.202(a)(1) – Applicability Statement for Secure		
	Health Transport		
	§ 170.202(a)(2) –XDR and XDM for		
	Direct Messaging		
	§ 170.202(a)(3) – SOAP Based Secure Transport		
	RTM version 1.0		
	§ 170.314(b)(1) and (2) –Transitions of Care		

Condition/	Vocabulary (Code system):	States:	States:
Diagnosis/	SNOMED-CT	Active	None
Problem	ONC 2014 EHR Certification Standard	Inactive	Attributes:
	(proposed):	Resolved	Severity
	§ 170.314(a)(5) – Problem List	Attributes:	Anatomical structure
	§ 170.207(m) – Encounter diagnoses [ICD-10 (ICD-	None	Cardinality (1,2,3)
	10-CM and ICD-10-PCS, respectively)]		Laterality
			Ordinality (principal, secondary,)
			Suggest retire these contexts from QDM:
			Declined
			(Removal suggested: That a patient declined to report
			diagnoses or conditions is a significant issue for clinical care
			but a measure or clinical decision support requires only
			knowledge that a diagnosis or condition exists or does not
			exist)
			Reconciled
			(Removal suggested: An individual condition is not
l			reconciled, but the problem list is reconciled, an individual
			problem or condition is updated)

Device	Vocabulary (Code system):	States:	States:
	SNOMED-CT	Applied	Planned
	ONC 2014 EHR Certification Standard	Ordered	(Removal suggested: NQF seeks comment on the value of
	(proposed):	Declined	'Planned'
	Standard		as a state, or context of use for devices.)
	§ 170.210(e) – Record actions related to	Attributes:	Attributes:
	electronic health information, audit log status,	Start datetime	Anatomical structure
	and encryption of end user devices – for	Stop datetime	Cardinality (1,2,3)
	purposes of reporting safety events		Device Characteristic (identifier)
	No standard directly related to device use		Visual inspection
			Facility location
			Laterality
			Method
			Ordinality (principal, secondary,)
			Reason
			Source
			Recorder
			Related to
			Patient preference
			Performer (new)
			Assistant (new)
			Suggest retire these contexts from QDM:
			Discontinued
			(Removal suggested: A device has a start datetime and stop
			datetime to handle placement or insertion and end of use
			or removal. Discontinued is a process context generally
			used with ordering. For the purpose of measures or clinical
			decision support, actual end of use or removal may be the
			preferred concept.)

Diagnostic	Vocabulary (Code system):	States:	States:
Study (non-	LOINC – study name	Performed	Recommended
laboratory)	SNOMED-CT – appropriate findings	Ordered	(NQF seeks comment on the value of 'Recommended' as a
	UCUM – specific units of measure	Declined	state, or context of use for diagnostic studies.)
	ONC 2014 EHR Certification Standard	Attributes:	Attributes:
	(proposed):	Result	Cardinality (1,2,3)
	Standard	Start datetime	Ordinality (principal, secondary,)
	170.314(a)(12) – Imaging [Level 2 Effort]	Stop datetime	Facility location
			Method
			Laterality
			Reason
			Recorder
			Patient preference
			Performer (new)
			Suggest retire these contexts from QDM:
			NA

InterventionVocabulary (Code system):States:States:LOINC – for interactions that produce an assessment or measurable resultsDocumentedAcknowledgSNOMED-CT – for appropriate results andDeclinedRequested	red .
assessment or measurable results Performed Requested	red
SNOMED-CT – for appropriate results and Declined Received	
interventions that do not produce measurable Attributes: Attributes :	
results (e.g., counseling) Start datetime Stop datetim	ne
ONC 2014 EHR Certification Standard Method	
(proposed): Cardinality (1,2,3)
Standard Ordinality (p	principal, secondary,)
170.314(a)(16) – Patient-specific education Facility locat	tion
resources [At a minimum, each one of the data Reason	
elements included in the patient's: problem list; Source	
medication list; and laboratory tests and Recorder	
values/results; and the standard specified at § Subject	
170.204(b)(1)] Result	
Patient prefe	erence
Provider pre	eference
Performer (/	new)
Participant ((new)
Suggest reti	ire these contexts from QDM:
NA	

Encounter	Vocabulary (Code system):	States:	States:
(Patient-	SNOMED-CT	Performed	NA Attributes:
professional	ONC 2014 EHR Certification Standard	Documented	Cardinality (1,2,3)
interactions)		Ordered	Ordinality (principal, secondary,)
interactions	(proposed): Standard	Declined	Reason
			Recommended
	No specific standard to identify an encounter.	Attributes:	
	Standards are identified for Encounter diagnoses	Start datetime	(NQF seeks comment on the value of 'Recommended' as an
	(See Condition / Diagnosis / Problem section)	(admission)	attribute for encounters.)
		End datetime	Patient preference
		(discharge)	
		Start datetime	Performer (new)
		(arrival)	Participant (new)
		(NQF seeks	Suggest retire these contexts from QDM:
		comments on the	Active (State)
		differentiation of	
		admission and arrival	Length of Stay
		times)	(Length of stay is derived from start and stop times)
		End datetime	
		(departure)	
		(NQF seeks	
		comments on the	
		differentiation of	
		discharge and departure	
		times)	
		Discharge status	
		Facility location	
		Frequency (for Home	
		Care Use)	

Experience	Vocabulary (Code system):	States:	States:
	LOINC for assessment instruments	None	Documented
	SNOMED-CT for appropriate responses	Attributes:	Acknowledged
	ONC 2014 EHR Certification Standard	None	Attributes:
	(proposed):		Patient preference
	Standard		Provider preference
	No specific standard to identify experience		Recorder*
			Related to
			Source
			Start datetime
			Stop datetime
			Subject
			Suggest retire these contexts from QDM:
			Declined
			(Removal suggested: That a patient declined to provide
			information about experience is a significant issue for
			clinical care but a
			measure or clinical decision support requires only knowledge
			that a patient's experience is documented or it was not.)
Response to	Vocabulary (Code system):	States:	States:
care	TBD	TBD	TBD
NQF seeks	ONC 2014 EHR Certification Standard	Attributes:	Attributes:
comment	(proposed):	TBD	TBD
regarding the	Standard		
addition of a	No specific standard to identify		
new QDM			
Category:			
Response to			
care to express			
the individual's			
outcome with			
respect to care			
provided (e.g.,			
success, failure,			
non-response).			

Family History	Vocabulary (Code system):	States:	States:
r anny miscory	LOINC for assessment instruments	None	Documented
	SNOMED-CT for appropriate responses (conditions	Attributes:	Updated
	present in family history)	None	Attributes:
	ONC 2014 EHR Certification Standard		None
	(proposed):		Cardinality (1,2,3)
	Standard		Ordinality (Principal, Secondary,)
	No specific standard to identify family history		Laterality
			Recorder
			Severity
			Source
			Subject (to be able to express degree of relationship –
			e.g., first degree relative, and gender of the relative)
			Start datetime
			Suggest retire these contexts from QDM:
			Declined
			(Removal suggested: That a patient declined to provide
			family history is a significant issue for clinical care but a
			measure or clinical decision support requires only
			knowledge that a family history is documented or it was
			not.)
			nou

Functional	Vocabulary (Code system):	States:	States:
Status	ICF (International Classification of Functioning,	Performed	Performed
	Disability and Health) for categories of function	(Note: Limited to	(Note: for functional status performed other than Calculated
	LOINC for assessment instruments	Calculated Form and	Forms and use of validated instruments registered in
	SNOMED-CT for appropriate responses	use of validated	LOINC)
	ONC 2014 EHR Certification Standard	instruments registered	Ordered
	(proposed):	in LOINC)	Reconciled
	Standard	Declined	(NQF seeks comment about the value of reconciled for
	No specific standard to identify functional status	Attributes:	functional status. Comparison of results over time can be
		Result	performed using distinct functional status results.)
		Start datetime	
			Attributes:
			Result
			Start datetime
			Performer (new)
			Subject (new)
			Suggest retire these contexts from QDM:
			NA

Health Record	Vocabulary (Code system):	States:	States:
Component	LOINC for naming the components and their	Documented	(NQF seeks comment regarding which uses of health record
Component	relationships	Reconciled	components are valuable for quality measurement.)
	•		
	HL7 for messaging among systems	(NOTE: limited to	Created
	ONC 2014 EHR Certification Standard	Problem List, Medication	Accessed
	(proposed):	list,	Acknowledged
	Standard	Allergy list, Care Plan)	Alerted
	170.314(b)(4) – Clinical record reconciliation (covers	Transmitted	Calculated
	Medication List, Allergy List and Problem List)	Updated	Discontinued
		Attributes:	Received
		None	Reviewed
			Attributes:
			Recorder
			Sender
			Source
			Start datetime
			Status
			Stop datetime
			Subject
			Suggest retire these contexts from QDM:
			Declined
			(Removal suggested: That a patient declined permission for a
			health record component to be populated it is a significant
			issue for clinical care but a measure or clinical decision
			support requires only knowledge that a health record
			component is exists or it does not.)
			Reminded
			Nemmueu

Quality Data Model	(QDM) Style Guide	for EHR Feasibility
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Laboratory Test	Vocabulary (Code system):	States:	States:
	LOINC for the test name and its results	Ordered	None
	SNOMED-CT for applicable result values	Performed	Attributes:
	UCUM for units of measure	Declined	Stop datetime
	ONC 2014 EHR Certification Standard	Attributes:	Status
	(proposed):	Start datetime	Source
	Standard	Result	Recorder
	§ 170.314(b)(5) –Incorporate laboratory tests and		Reason
	values/results		Method
			Laterality
			Facility location
			Cardinality (1,2,3)
			Alerted
			Suggest retire these contexts from QDM:
			NA

	Quality Data Model	(QDIVI) Style Guide IOI L	
Medication	Vocabulary (Code system):	States:	States:
	RxNorm for medications	Active	Inactive
	CVX for vaccinations (acknowledging that	Administered	
	vaccinations are treated as medications in some	Dispensed	Attributes:
	contexts and as a separate category in others)	Ordered	Infusion duration
	ONC 2014 EHR Certification Standard	Declined	Method
	(proposed):	Reconciled	Recorder
	Standard	Attributes:	Reason
	§ 170.299 – by reference includes medications	Dosage	Route
	§ 170.207(h) – Medications for transitions of care	Frequency	Cardinality (1,2,3)
	and ambulatory clinical summaries	Effective time	Patient preference
	§ 170.314(b)(4) – Clinical record reconciliation	Start datetime	Source
	(covers Medication List, Allergy List and Problem	Stop datetime	Suggest retire these contexts from QDM:
	List)	Drug name	
			Discontinued
			(Removal suggested: A medication has a start datetime and
			stop datetime. Discontinued is a process context generally
			used with ordering. For the purpose of measures or clinical
			decision support, actual end of use may be the preferred
			concept.)

		(QDIVI) Style Guide for E	HR reasibility
Physical Exam	Vocabulary (Code system):	States:	States:
	LOINC for assessment instruments and individual	Performed	Ordered
	examination elements	Declined	Result (In addition to vital signs that are captured as
	SNOMED-CT for appropriate responses		structured data)
	ONC 2014 EHR Certification Standard	Attributes:	Attributes:
	(proposed):		Environmental location
	Standard	Result	Anatomical structure
	§ 170.314(a)(4) – Vital signs, body mass index, and		Laterality
	growth charts	(limited to vital signs	Facility location
		that are captured as	Reason
		structured data and	Recorder
		also data that are	Alerted
		captured in routine	Patient preference
		inpatient assessments)	Performer (new)
			Participant (new)
			Suggest retire these contexts from QDM:
			NA

Procedure	Vocabulary (Code system):	States:	States:
	SNOMED-CT	Ordered	Recommended
	ONC 2014 EHR Certification Standard	Performed	(NQF seeks comment on the value of 'Recommended' as a
	(proposed):	Declined	state, or context of use for procedures)
	Standard		NQF seeks comment on the concept of "Planned," e.g., an
	§ 170.207(b)(2) – HCPCS and CPT-4	Attributes:	abdominal surgical procedure that was not performed
	OR	Result	based on findings and the final procedure category is listed
	§ 170.207(b)(3) – ICD-10 PCS	Start datetime	as "laparotomy" The intent is to capture the procedure
		Stop datetime	initially planned and that finalized.
			Attributes:
			Anatomical structure
			Environmental location
			Facility location
			Frequency
			Laterality
			Method
			Reason
			Recorder
			Source
			Status
			Cardinality (1,2,3)
			Patient preference
			Performer (new)
			Participant (new)
			Suggest retire these contexts from QDM:
			Discontinued
			(Removal suggested: A procedure has a start datetime and
			stop datetime to handle the occurrence of the procedure.
			Discontinued is a process context generally used with
			ordering. For the purpose of measures or clinical decision
			support, actual end of the procedure may be the preferred
			concept.

Risk Evaluation	Vocabulary (Code system):	States:	States:
	LOINC for assessment instruments	Performed	Performed (Note: for risk evaluations performed other than
	SNOMED-CT for appropriate responses	(Note: Requires	Calculated Forms and use of validated instruments
	ONC 2014 EHR Certification Standard	Calculated Form	registered in LOINC)
	(proposed):	Capability and	Reviewed
	Standard	use of validated	(NQF seeks comment on the value of 'reviewed' as a context
	No specific standard to identify risk evaluation	instruments registered	required for measures.)
		in LOINC)	Attributes:
		Documented	Cardinality (1,2,3)
		Declined	Reason
			Recorder
		Attributes:	Related to
		Result	Source
		Datetime	Status
			Stop datetime
			Patient preference
			Performer (new)
			Subject (<i>new</i>)
			Suggest retire these contexts from QDM:

Substance	Vocabulary (Code system):	States:	States:
	SNOMED-CT	Administered	Dispensed
	ONC 2014 EHR Certification Standard	Ordered	Attributes
	(proposed):	Active	Frequency
	Standard	Declined	Start datetime
	Non-medication substances are not referenced	Reconciled (e.g., Intake	Stop datetime
		and Outputs)	Dosage
		Attributes	Reason
		Route	Source
		Start datetime	Cardinality (1,2,3)
		Stop datetime	Radiation dosage
			Radiation duration
			Method
			Patient preference
			Laterality
			Suggest retire these contexts from QDM:
			Discontinued
			(Removal suggested: A substance has a start datetime and stop datetime. Discontinued is a process context generally used with ordering. For the purpose of measures or clinical
			decision support, actual end of use may be the preferred concept.)
			Reconciled
			(Removal suggested: A substance should be on a list
			analogous to a medication list. That list can be reconciled,
			an individual substance is updated)

Symptom	Vocabulary (Code system):	States:	States:
	SNOMED-CT	None	Active
	ONC 2014 EHR Certification Standard	Attributes:	Inactive
	(proposed):	None	Resolved
	Standard		Documented
	Symptoms are not referenced		(NQF seeks comment regarding the value of 'documented' if 'active,' 'inactive,' or 'resolved' are available.)
			Attributes:
			Anatomical structure
			Frequency
			Laterality
			Severity
			Recorder
			Related to
			Source
			Start datetime
			Status
			Stop datetime
			Cardinality (1,2,3)
			Ordinality (principal, secondary,)
			Suggest retire these contexts from QDM:
			Declined
			(Removal suggested: That a patient declined to inform the
			clinician about symptoms is a significant issue for clinical care
			but a measure or clinical decision support requires only
			knowledge that a symptom is documented or it is not.)
			Assessed
			(Removal suggested: A symptom is assessed if it is
			documented or 'active,' 'inactive,' or 'resolved.' The
			additional context is unnecessary, it the mechanism to
			determine the contexts already listed.)

Quality Data model (
Vocabulary (Code system):	States:	States:
LOINC for healthcare resources (staffing)	Ordered	Acknowledged
HL7 for EHR functions	Attributes:	Documented
SNOMED-CT for equipment	None	Transmitted
ONC 2014 EHR Certification Standard		Updated
(proposed):		Attributes:
Standard		Facility location
System resources are not referenced		Frequency
		Method
		Patient preference
		Reason
		Recorder
		Start datetime
		Status
		Stop datetime
		Cardinality (1,2,3)
		Environmental location
		Related to
		Source
		Suggest retire these contexts from QDM:
		Declined
		(Removal suggested: That a patient declined system
		resources is a significant issue for clinical care but a measure
		or clinical decision support requires only knowledge that a
		system resource is used or
		it is not.)
	Vocabulary (Code system): LOINC for healthcare resources (staffing) HL7 for EHR functions SNOMED-CT for equipment ONC 2014 EHR Certification Standard (proposed): Standard	LOINC for healthcare resources (staffing)OrderedHL7 for EHR functionsAttributes:SNOMED-CT for equipmentNoneONC 2014 EHR Certification Standard(proposed):StandardStandard

Transfer	Vocabulary (Code system):	States:	States:
	SNOMED-CT	Documented	None
	ONC 2014 EHR Certification Standard	Ordered	Attributes:
	(proposed):	Performed	Discharge status
	Standard	Declined	Environmental location
	§ 170.205(a)(3) references information	Attributes:	Facility location
	requirements for transitions of care but the process	Origin	Method
	of transition is not referenced	Destination	Start datetime
		Status	Stop datetime
		Source	Subject
		Equipment Performer	Patient preference
		(new)	Reason
		Participant (new)	Recorder
			Suggest retire these contexts from QDM:
			NA

* Data that should be present in structured form in a Meaningful Use 2014 Certified EHR

** Feasible but require additional effort, such as the following workflow changes