

Quality Measure Essential Components Tiger Team

Jim Walker, Chair

April 12, 2012 - 11:30a-12:30p/Eastern

Today's focus

- Recommend ONC actions to make usable and useful value sets available for Meaningful Use 2:
 - Tiger Team Meetings, April 16 and TBD
 - Report to Quality Workgroup, early May
 - E-mail final poll, week of May 16
 - Report to Standards Committee May 24

Related Recommendations

Vocabulary HITSC Task Force Draft Recommendation 1, April, 2010:

A single federal office or agency should be responsible for ensuring the creation, maintenance, dissemination and accessibility of all vocabulary value sets and subsets related to Meaningful Use

This entity should coordinate with other federal agencies, SDOs, and relevant stakeholders to:

- Identify what sets are needed and who will produce and maintain each set
- Determine the appropriate dissemination schedule and update frequency for each set
- Establish standard formats for production and dissemination of sets
- Manage processes for review, testing, approval and publication of sets
- Ensure the existence of robust, authoritative infrastructure for sets (see Recommendation 2)
- Recommend related education, communications and outreach

This entity should ensure federal funding as needed to establish these activities, to support them over time, and to make vocabularies, value sets, and any subsets required for meaningful use available for US-wide use at no cost

Vocabulary HITSC Task Force Draft Recommendation 2, April, 2010:

Establish authoritative infrastructure for development, maintenance and dissemination of standard value sets and subsets related to Meaningful Use

One-stop shopping for Meaningful Use vocabularies:

- Establish a central repository, central download capability, and central feedback loop mechanism in the federal government for dissemination of Meaningful Use vocabularies
- Enable decentralized private or public sector alternative repositories for dissemination that may include alternative distribution mechanisms and schedules, using federally standardized exchange formats
- Differentiate tight control over specific value sets required for Meaningful Use, versus loose control to enable sharing other subsets that may be made available for the convenience of EHR implementers and users
- Establish open, public, consensus-based processes to standardize parameters for public and private sector tooling that can make vocabularies searchable and discoverable by EHR end users

Source: http://healthit.hhs.gov/portal/server.pt/gateway/PTARGS_0_11673_911600_0_0_18/VocabularyTF041910.ppt

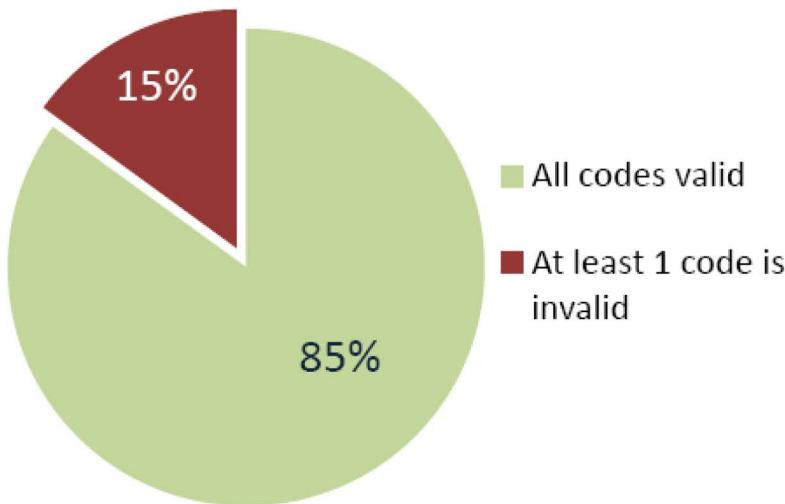
Short-Term

- Single Entity Responsible
- Modification and Final Check
 - NLM?, NQF? Specialty Societies?
- Hosting
 - NLM?, AHRQ?, NQF?
- Serving
 - IHE Sharing Value Sets (SVS) profile?

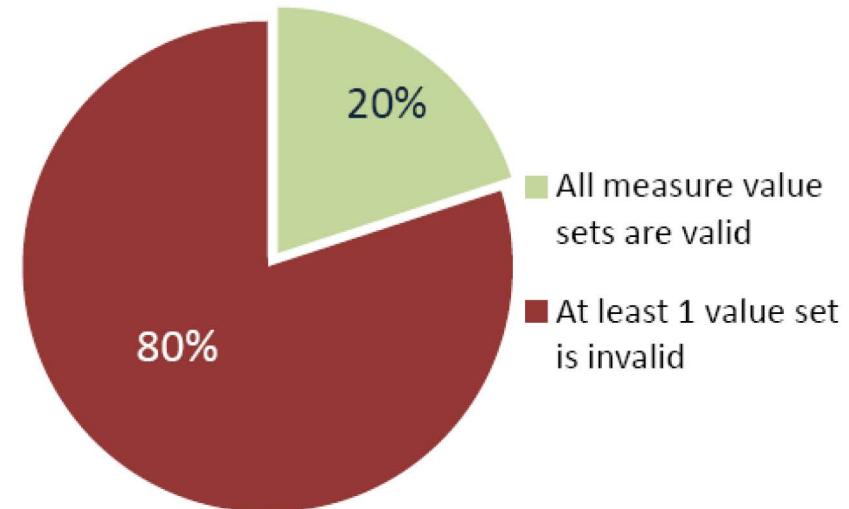
- Medium-Term
 - Governance
 - Creation
 - Modification
 - Validation Process
 - Hosting
 - Serving
 - Curation

Current State – Validity

15% of Value Sets* are affected by Invalid Vocabulary Codes



80% of Quality Measures* are affected by Invalid Value Sets



* NLM analysis of 850 value sets recommended for inclusion in MU2

* NLM analysis of 70 quality measures recommended for inclusion in MU2

Pairwise Comparison of Value Sets*

Duplicates

- *20 pairs of value sets contain exactly the same codes*

Near-Duplicates

- *Other pairs of value sets exhibit a high degree of similarity and would benefit from review.*

* NLM analysis of 800 value sets recommended for inclusion in MU2

Reasons for Inaccurate Codes

Need better support tools

- Formatting issues – e.g. trailing zeros trimmed
- Truncated terms

Lack of an update model

- Stale codes related to terminology evolution

Operator Error

- Vocabulary system inconsistent with code
- Code name inconsistent with code number
- Typos

IP/Licensing

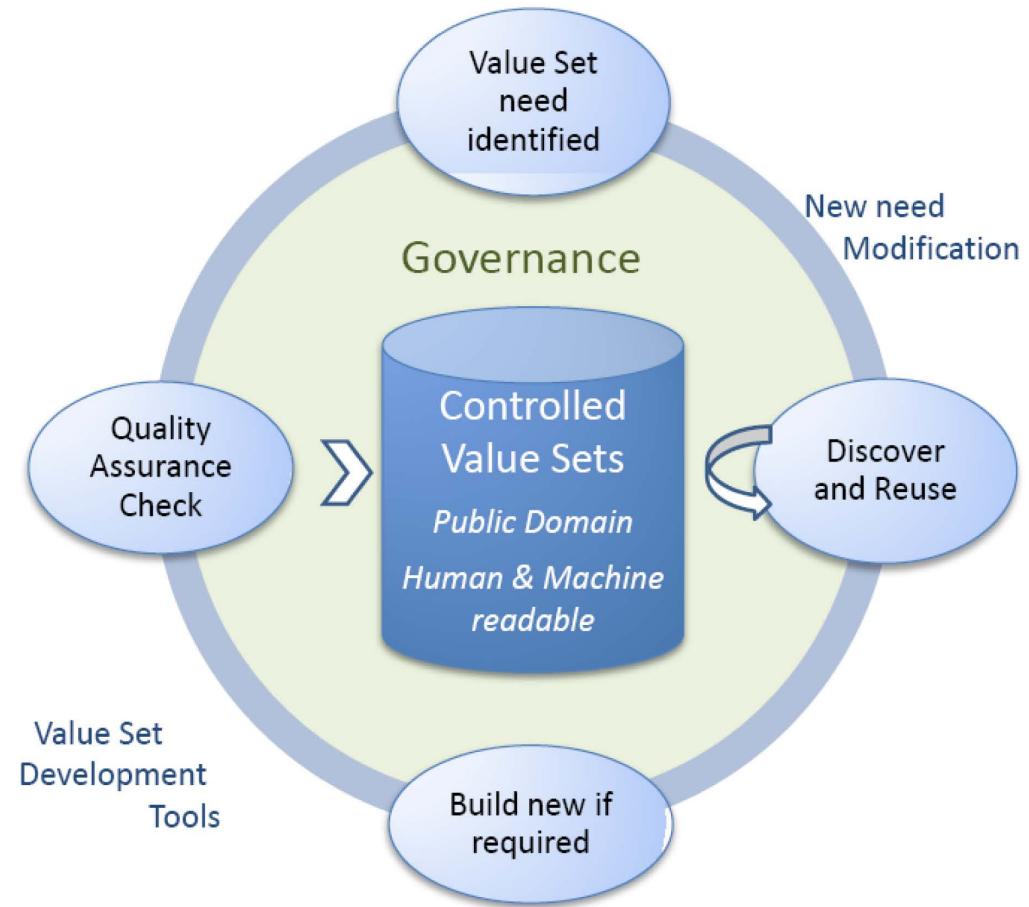
- Incomplete information (CPT code names missing)

Vision: Value Set Creation

Review from the team's 4/3/12 discussion

Key Stakeholders

- Quality Measure Developers
- Clinical Decision Support Developers
- Clinical Researchers
- Provider Organizations
- Health IT Vendors
- Others



SPEAKER'S NOTES:

- Mechanisms for governance and quality assurance
- Unambiguous communication and version control
- Freely available for use as building blocks
- Discoverability to support reuse
- Authoritative source to support harmonization
- Automated update notifications
- Automated machine consumption

Draft Recommendations

Based on desirable characteristics the team identified 4/3/12

Facilitate discoverability	MU2: Enable value set search by concept, keyword, value set name, identifier, and other meta data (see IHE SVS profile for additional metadata)
Assure Value Set Validity	MU2: Validate accuracy of value set vocabulary codes, vocabulary names, versions, and descriptors MU3: Develop a process to ensure that value sets accurately represent well-defined concepts (semantic accuracy)
Enable unambiguous specification	MU2: Establish minimum requirements for value set documentation MU2: Establish mechanism for version control, including backwards mapping MU2: Establish a code grouping mechanism for proxy codes / inferred diagnoses
Harmonize value sets	MU3: Establish mechanism for value set reuse across developers MU3: Establish governance mechanism for controlled value sets
Disseminate in human & machine readable formats	MU2: Store value sets in a centralized value set repository in the public domain MU2: Disseminated via web page, downloadable database, XML, and via web service

Discussion