Cancer, Standards & Interoperability: Delivering Insights and Content

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American Society of Clinical Oncology
What is the American Society of Clinical Oncology?

• Founded in 1964, the American Society of Clinical Oncology promotes and provides for
  o Lifelong learning for oncology professionals,
  o Cancer research, and
  o An improved environment for oncology practice,
• ASCO represents more than 45,000 oncology professionals
ASCO Taxonomy Project Goals

1. Search
2. Personalization
3. Inventorying content
About ASCO’s Taxonomy Project

List of thesauri
- Subject/Topical
- Drugs
- Genes
- Organizational
- Entities
- Countries
ASCO Subject Taxonomy Breakdown
Governing Our Taxonomies

Why do we need to maintain our vocabularies, anyway?

- New content with new topics in the field, e.g., COVID-19
- Changes in terminology, e.g., acronym becomes preferred
- Ongoing review by collaboration with experts
- Capturing new NPTs
ASCO Enterprise Content Repository

- Stores all content and metadata, including taxonomy
- Enables ASCO to identify new content relationships
- Provides path to more accurate recommendations for related research
- Powers truly enterprise search
- Allows for personalized content discovery
- Creates pathway to content as a service to internal and external applications
CancerLinQ

- Collects, organizes, cleans, and structures real-world cancer care data from more than 100 oncology practices, representing more than 2,000 oncologists
- Data mapped to a standard model using ontologies
- Physicians review aggregated, de-identified patient data in interactive dashboards
- Researchers study curated sets of aggregated, de-identified data
- Used to host the “ASCO Survey on COVID-19 in Oncology Registry”
mCODE Initiative

- EHRs do not use common cancer data standards
- Goal is to facilitate cancer data interoperability and improve overall cancer data quality mCODE standard designed using widely available medical ontologies
- mCODE is fully open source
How Standardized Data Helps CancerLinQ

- One of primary challenges when CLQ launched was interoperability of data
- mCODE works to bridge that gap
- ASCO COVID-19 Registry uses mCODE data elements
Mapping Patient Data to ASCO Content

- Mapping CLQ data standards to ASCO taxonomy
- Content as a service to power recommendation engine
- Delivery of point of care content