Updates on Collaboration with RSNA

Daniel J. Vreeman, PT, DPT, MSc
Associate Research Professor, Indiana University School of Medicine
Associate Director for Terminology Services, Regenstrief Institute, Inc
@djvreeman
Main Deliverables

Developing a Unified Model for Radiology Procedure Names

Mapping the attribute-values between each terminology (i.e. LOINC Parts to RadLex RIDs)

Mapping between RadLex RPIIDs and LOINC codes
Process

Model unification reviewed all modalities

Attributes can employ a syntax

Have made excellent progress on resolving issues (always a few remaining edge cases)

Developed a “User Guide” covering all attributes: definitions, usage notes, and identifying weird stuff

Mapping focus progressing through modalities
Ongoing discussion about use of **Body Region** attribute

Entire area scanned vs.
A broad roll-up category vs.
Forget about it
Complete Attribute Set

Modality
  Modality
  Modality.Subtype

Anatomy
  Anatomic Location.Region Imaged
  Anatomic Location.Imaging Focus
  Anatomic Location.Laterality.Presence
  Anatomic Location.Laterality

View
  View.Maneuver
  View.Aggregation
  View.Modifiers

Pharmaceutical
  Pharmaceutical.Substance Given
  Pharmaceutical.Route
  Pharmaceutical.Timing

Guidance
  Guidance for.Presence
  Guidance for.Approach
  Guidance for.Action
  Guidance for.Object

Reason for Exam

Subject
Annex in LOINC Users’ Guide

Annex - RadLex-LOINC Radiology Playbook User Guide

Welcome to the RadLex-LOINC Radiology Playbook User Guide. This work is the result of a multi-year collaboration between Regenstrief Institute and the Radiological Society of North America (RSNA), supported by the National Institute of Biomedical Imaging and Bioengineering (NIBIB). The participants have developed a model that combines and unifies the useful aspects of LOINC Radiology and the RSNA RadLex Playbook. Both of these terminology initiatives are designed to represent concepts of radiology orderables and results and their attributes.

Each term in the unified Playbook model has a name or description, and takes on a number of attributes. This guide is intended to describe the semantics, syntax, and proper usage of those attributes. The attributes are generally concatenated to form an automated name for each term. In addition, each code also has a manually-created long description and short description (less than 30 characters).

A list of the Playbook attributes is shown below. Attributes are organized according to attribute groups, consisting of the major bullet headings below, and by more specific sub-attributes, shown in the minor bullets below and denoted by a dot after the attribute group, such as Pharmaceutical Route.

- Modality
  - Modality
  - Modality.Subtype
- Anatomic Location
  - Anatomic Location.Region Imaged
  - Anatomic Location.Imaging Focus
  - Anatomic Location.Laterality.Presence
  - Anatomic Location.Laterality
- View
  - View.Maneuver
  - View.Aggregation
- Pharmaceutical
  - Pharmaceutical.Substance Given
  - Pharmaceutical.Route
  - Pharmaceutical.Timing
- Reason for Exam
- Guidance
  - Guidance for.presence
  - Guidance for.approach
  - Guidance for.action
  - Guidance for.object
- Subject

The chapters that follow provide a guide to the usage of each of the above attributes.

Feedback Welcome
CT Names Changed in LOINC 2.54

Many changes to CT terms in the latest LOINC release

Example of new style anatomy:

24814-6 Abdomen>Liver CT
## Accessory File Format

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<th>LOINC</th>
<th>LOINCLongCommonName</th>
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<th>PartName</th>
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<th>PartSeq</th>
<th>RID</th>
<th>PreferredName</th>
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</tr>
</tbody>
</table>
Governance
Main Deliverables

Integrated governance process for new terms

Creating single point-of-contact and governance structure for the unified terminology

New joint LOINC/RadLex Committee to be advisory body (Approved at Clinical LOINC Meeting 02/2014)

LOINC codes as the primary identifier for radiology procedures (e.g. the universal codes) while linking to the RadLex attribute/values for each term so that they can be used as meta-data
Agreement covering IP issues, non-duplication, etc was signed by RSNA and Regenstrief in September 2015.
Distribution Artifacts
Distribution Artifacts

LOINC Table, RELMA (Regenstrief)
   As is today

LOINC RSNA Playbook Table (Regenstrief)
   December 2015 LOINC release
   Will be expanded with other modalities as completed

RadLex Playbook Table (RSNA)
   Format determined by RSNA
   New format for Version 2 (learned a lot from LOINC)
   Includes “EXPORTED_TO_LOINC” attribute that points people to LOINC as we complete our work