

| | |
|--|--|
| Project Name: | |
| Medical Imaging Metadata Standards Project | |
| Date Initiated: | Sponsoring Organization(s): |
| September 2010 | National Cancer Institute Stanford University |
| Status as of: | Vanderbilt University University of Maryland |
| March 2011 | |
| Purpose & Goals: | |
| <p>The purpose of the project is to develop informatics standards and a public database for collecting, managing, and exchanging image metadata (such as objective measures) acquired in clinical trials. The objective is to improve the quantitative evaluation of imaging results and to streamline the processes by which FDA and pharmaceutical investigators use imaging data to evaluate the response of all disease populations to treatment in clinical trials.</p> <p>The goals of this project are:</p> <ol style="list-style-type: none"> 1) To create an imaging domain within the CDISC terminology standard to provide standard terminology for imaging. 2) To create an imaging domain within the SDTM to establish a standard information model for conveying image metadata from biopharmaceutical industry and study sites to FDA. 3) To create and ballot Detailed Clinical Models to create HL7 v3 templates for the CDA and other v3 standards within both CDISC and H7. 4) To augment the NCI National Biomedical Imaging Archive (NBIA) with a database of image metadata based on caBIG AIM. 5) To use the NCI NBIA as a publicly accessible DICOM archive for disseminating images the biopharmaceutical industry will contribute based on the above standards to catalyze quantitative imaging research leading to improved criteria of disease response. This resource will be to provide a standards-based public resource for researchers to mine to discover potential new candidate quantitative criteria for cancer response to improve on RECIST. | |
| Current Status: | |
| <p>Work has begun with CDISC to incorporate the RadLex terminology for imaging which was developed by the Radiological Society of North America (RSNA), the largest professional radiology organization in the USA. RadLex has recently been adopted by NCI and has been incorporated into the NCI Metathesaurus/caDSR. RadLex is also under review by the National Library of Medicine for inclusion into the Unified Medical Language System (UMLS).</p> <p>Work has begun to develop an "imaging CRF with annotation" to parallel CRFs relating to the imaging results as required by the FDA, but compatible with the <i>Annotation and Image Markup (AIM) standard</i> being developed as part of the NCI cancer Biomedical Informatics Grid (caBIG) program.</p> | |
| Contact Information: | |
| Edward Helton, Associate Director, CBIIT, NIH/NCI, Edward.Helton@nih.gov , 240-479-0873 | |