Resource Summary Report

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Stanford Translational Research Integrated Database Environment and Clinical Data Warehouse

RRID:SCR_003453
Type: Tool

Proper Citation

Stanford Translational Research Integrated Database Environment and Clinical Data Warehouse (RRID:SCR_003453)

Resource Information

URL: http://clinicalinformatics.stanford.edu/projects/cdw.html

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Description: A research and development project at Stanford University to create a standards-based informatics platform supporting clinical and translational research. STRIDE consists of three integrated components: a clinical data warehouse, based on the HL7 Reference Information Model (RIM), containing clinical information on over 1.6 million pediatric and adult patients cared for at Stanford University Medical Center since 1995; an application development framework for building research data management applications on the STRIDE platform and a biospecimen data management system. STRIDE's semantic model uses standardized terminologies, such as SNOMED, RxNorm, ICD and CPT, to represent important biomedical concepts and their relationships. STRIDE receives clinical data for research use via HL7 feeds from both SUMC hospitals: Lucile Packard Children's Hospital and Stanford Hospital and Clinics. This clinical data is used to support a wide variety of translational research services including: * Anonymized Patient Research Cohort Discovery * Electronic Chart Review for Research * IRB-Approved Clinical Data Extraction * Biospecimen Data Management * Multimedia Research * Data Management and Research Registries STRIDE is a highly secure environment utilizing encryption, fine-grained access control, robust auditing and detailed data segregation. Additionally, STRIDE has a robust access control framework with well-defined access granting authorities and access control groups. Consequently STRIDE meets or exceeds the requirements of the HIPAA Privacy and Security regulations. Privacy protection is further enhanced by requiring IRB approval for all research projects using STRIDE clinical data. From a technology and standards perspective, STRIDE is hosted on the Oracle 11g database platform. STRIDE application

software provides access to the web services of a three-tier infrastructures using SSL encryption with strong authentication. These programs are cross-platform, self-updating thick-client applications that provides a rich user interface for data entry, retrieval and review as well as image manipulation and annotation. STRIDE makes extensive use of XML technologies for representation of structured meta data, distributed systems technologies using JSON for secure remote communication between client and server, and Swing graphical interface components providing a rich widget-set as well as advanced imaging and graphing capabilities. Users of the STRIDE Research Desktop Client can perform rapid data entry into structured fields, compose complex queries, and interact securely with clinical, research and imaging data.

Abbreviations: STRIDE and the CDW, STRIDE

Synonyms: STRIDE and the Clinical Data Warehouse, STRIDE Clinical Data Warehouse

Resource Type: narrative resource, standard specification, software resource, data or information resource

Defining Citation: PMID:20351886

Keywords: clinical, hospital, research, translational, informatics, platform, database, pediatric, adult, data management, biospecimen, ctsa, clinical data, oracle, image, imaging data

Funding:

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Resource ID: SCR_003453

Alternate IDs: nif-0000-33359

Record Creation Time: 20220129T080219+0000

Record Last Update: 20250428T053034+0000

Ratings and Alerts

No rating or validation information has been found for Stanford Translational Research Integrated Database Environment and Clinical Data Warehouse.

No alerts have been found for Stanford Translational Research Integrated Database Environment and Clinical Data Warehouse.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We have not found any literature mentions for this resource.