**Eligibility Criteria: Compare Before & After**

| Database | Search Terms | Before Eligibility Criteria: Article Titles | Number of Articles | Eligibility Criteria | After Eligibility Criteria: Article Titles | Number of Articles |
|---|---|---|---|---|---|---|
| PubMed | ((("Electronic Health Records"[MAJR]) AND "Natural Language Processing"[MAJR]) AND "Humans"[MeSH Terms]) AND "Support Vector Machines"[MAJR] | A flexible framework for deriving assertions from electronic medical records.<br>A supervised framework for resolving coreference in clinical records.<br>Assessing the similarity of surface linguistic features related to epilepsy across pediatric hospitals.<br>Automatic extraction of relations between medical concepts in clinical texts.<br>Hybrid methods for improving information access in clinical documents: concept, assertion, and relation identification. | 5 | selected most recent | Assessing the similarity of surface linguistic features related to epilepsy across pediatric hospitals | 1 |
| PubMed | ((((("Artificial Intelligence"[MAJR]) AND "Electronic Health Records"[MAJR]) AND "Humans"[MeSH Terms]) AND "Natural Language Processing"[MeSH Terms]) AND "Time"[MeSH Terms]] | A flexible framework for recognizing events, temporal expressions, and temporal relations in clinical text.<br>A la Recherche du Temps Perdu: extracting temporal relations from medical text in the 2012 i2b2 NLP challenge.<br>An end-to-end system to identify temporal relation in discharge summaries: 2012 i2b2 challenge.<br>Applying a natural language processing tool to electronic health records to assess performance on colonoscopy quality measures.<br>Classifying temporal relations in clinical data: a hybrid, knowledge-rich approach.<br>Combining rules and machine learning for extraction of temporal expressions and events from clinical narratives.<br>Comprehensive temporal information detection from clinical text: medical events, time, and TLINK identification.<br>Development of a natural language processing system to identify timing and status of colonoscopy testing in electronic medical records.<br>Evaluating temporal relations in clinical text: 2012 i2b2 Challenge.<br>Eventual situations for timeline extraction from clinical reports.<br>Extracting temporal information from electronic patient records.<br>Temporal reasoning over clinical text: the state of the art.<br>Temporal relation discovery between events and temporal expressions identified in clinical narrative.<br>TEMPTING system: a hybrid method of rule and machine learning for temporal relation extraction in patient discharge summaries.<br>Towards generating a patient's timeline: extracting temporal relationships from clinical notes. | 15 | selected most cited | Evaluating temporal relations in clinical text 2012 i2b2 Challenge | 1 |
| PubMed | Arthritis[Title] AND Rheumatism[Title] AND Aging[Title] AND Medical[Title] AND Information[Title] AND System[Title] | ARAMIS and toxicity measurement. (Arthritis Rheumatism and Aging Medical Information System).<br>Arthritis, Rheumatism and Aging Medical Information System Post-Marketing Surveillance Program.<br>Gastrointestinal complications of prescription and over-the-counter nonsteroidal anti-inflammatory drugs: a view from the ARAMIS database. Arthritis, Rheumatism, and Aging Medical Information System.<br>NSAID induced gastrointestinal complications: the ARAMIS perspective--1997.<br>Arthritis, Rheumatism, and Aging Medical Information System.<br>The Arthritis, Rheumatism and Aging Medical Information System (ARAMIS): still young at 30 years. | 5 | selected most recent | The Arthritis, Rheumatism and Aging Medical Information System (ARAMIS)/ Still young at 30 years | 1 |
| PubMed | "The Asgaard Project" | An intention-based language for representing clinical guidelines.<br>The Asgaard Project/ A Task-Specific Framework for the Application and Critiquing of Time-Oriented Clinical Guidelines | 2 | selected most recent | The Asgaard Project/ A Task-Specific Framework for the Application and Critiquing of Time-Oriented Clinical Guidelines | 1 |
| PubMed | ((("Individualized Medicine"[MAJR]) AND "Electronic Health Records"[MAJR]) AND "Decision Support Systems, Clinical"[MAJR])) | Adaptive semi-supervised recursive tree partitioning The ART towards large scale patient indexing in personalized healthcare<br>Electronic medical records and personalized medicine<br>Improving Health Care Outcomes Based on Electronic Health Records<br>Usability of a novel clinician interface for genetic results. | 4 | ADDED: NOT genetic[Title/Abstract] | Adaptive semi-supervised recursive tree partitioning The ART towards large scale patient indexing in personalized healthcare<br>Electronic medical records and personalized medicine<br>Improving Health Care Outcomes Based on Electronic Health Records | 3 |
| PubMed | (((((("Decision Support Systems, Clinical"[Mesh]) AND "Individualized Medicine"[MeSH Terms]) OR "Patient-Specific Modeling"[Mesh] AND "Algorithms"[MeSH Terms]) AND "Electronic Health Records"[Mesh])) | Artificial intelligence framework for simulating clinical decision-making: a Markov decision process approach.<br>Evicase: an evidence-based case structuring approach for personalized healthcare.<br>Fine-grained clinical outcome extraction and polarity classification.<br>Integrating pharmacogenetic information and clinical decision support into the electronic health record. | 4 | ADDED: NOT pharmacogenomics | Artificial intelligence framework for simulating clinical decision-making/ a Markov decision process approach. Artificial intelligence framework for simulating clinical decision-making/ a Markov decision process approach<br>Electronic medical records and personalized medicine<br><br>Evicase: an evidence-based case structuring approach for personalized healthcare. | 3 |
| Subtotal | | | 35 | | | 10 |
| **Duplicates Subrated** | | **Total Before** | **34** | | **Total After** | **9** |

Duplicate Article Found in Search