Introduction
Clinical information databases and systems must be designed for system-wide and discipline-specific needs. To meet discipline-specific needs, the design of clinical information databases and systems requires the input of members of each involved discipline. The reason is that each discipline is alone responsible for its knowledge base, practice, and standards of practice. Without this interdisciplinary approach to the development of clinical information systems, the resultant system will be ineffective in addressing the patient needs for which it is designed and inefficient.

Missouri is fortunate in that it possesses nationally and internationally recognized nurses and nurse informaticists, who have helped shaped clinical information databases, and systems. This particular clinical information database includes sites designed for the needs of registered professional and advanced practice nurses. It also includes information on accessing clinically-related informatics standards organizations and associations. Within each, there are nursing individuals and groups involved in the work of transitioning nursing documentation into the electronic health record. Please do not hesitate to contact one or more should you desire assistance within your own office, health center, or healthcare system.

Organization of the Database
This database contains content categorized as follows:

- Informatics Standards Organizations and Professional Associations
- Nursing Process
- Missouri Geriatric Initiatives
- Metasearch
- Search Engines/Databases
- Continuing Education

Scroll down, please.
Informatics Standards Organizations and Professional Associations

**International Standards Organization (ISO),** specifically ISO 18104 Reference Terminology Model


**USDHHS National Committee on Vital and Health Statistics**

http://www.ncvhs.hhs.gov/index.htm

- USDHHS Background on Health Information Standards
  http://www.hhs.gov/healthit/standards/background

**HL7 (Health Level Seven)**

http://www.HL7.org

**American Nurses Association Nursing Information & Data Set Evaluation Center**

http://www.nursingworld.org/nidsec/

[Includes ANA-recognized terminologies and software products]

**Logical Observation Identifiers Names and Codes (LOINC)**

http://www.regenstrief.org/loinc/

**SNOMED Terminologies and Solutions**

http://www.cap.org/apps/cap.portal?_nfpb=true&_pageLabel=snomed_page

Professional Informatics Associations with their Related Nursing Groups
Nursing Process

- Assessment
  - Assessment Forms
  - Miscellaneous Screening Tools
  - Population-Based Assessment, example
  - Risk Assessment
  - Signs and Symptoms Manifestations

- Diagnosis/Treatment
  - Calculators
  - Bioterrorism/Emergency Preparedness
  - Diseases/Conditions, pick lists
  - Diseases, specific examples of
  - Easy diagnosis
  - Genomics
  - Standardized Diagnosis Terminologies
  - Unified Medical Language System
  - Standardized Treatment Terminologies
  - Nursing Care Plan Forms
  - Practice/Treatment Guidelines
  - Drug Management

- Outcomes/Evaluation
  - Patient Safety
  - Standardized Outcome Terminologies
  - OASIS
  - HEDIS

Nursing Process

Assessment
- Assessment Forms
  - Hospital Soup

Miscellaneous Screening Tools
- Alcohol abuse and alcoholism
  - National Institute of Alcohol Abuse and Alcoholism
    www.niaaa.nih.gov

Multiple assessment screening tools
- Domestic abuse, Vermont Department of Health
  - Wheeler Clinic Connecticut Clearinghouse,
    www.ctclearinghouse.org
<table>
<thead>
<tr>
<th>Population-Based Assessment, example</th>
<th>Missouri Department of Health and Senior Citizens</th>
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<tbody>
<tr>
<td></td>
<td><a href="http://www.dhss.mo.gov/DataAndStatisticalReports/index.html">http://www.dhss.mo.gov/DataAndStatisticalReports/index.html</a> (click on Data and then on MICA)</td>
</tr>
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<tr>
<th>Risk Assessment</th>
<th>Body Mass Index Calculator</th>
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<tbody>
<tr>
<td></td>
<td><a href="https://www.nhlbi.nih.gov/health-topics/body-mass-index-bmi">National Heart, Lung and Blood Institute</a></td>
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<tr>
<th>Cancer Risk Tools</th>
<th>Harvard Center for Cancer Prevention, Risks</th>
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<tr>
<th>Coronary Heart Disease Risk Calculator</th>
<th>National Heart, Lung, and Blood Institute</th>
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<tr>
<th>Health risk calculators</th>
<th>University of Maryland Medicine</th>
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<tr>
<th>Signs and Symptoms Manifestations</th>
<th>National Library of Medicine</th>
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<td><a href="http://medlineplus.gov/">MEDLINE Plus Health Information</a></td>
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### Diagnosis/Treatment

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<tr>
<th>Calculators</th>
<th>Cornell University Medical College</th>
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<td></td>
<td><a href="https://www.ccm.cornell.edu/pccp">Pediatric Critical Care Medicine</a></td>
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Manuel's Web, Nursing calculators

Martindale’s Calculators Online Part I: Nutrition

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<tr>
<th>Bioterrorism/ Emergency Preparedness</th>
<th>Emergency Preparedness and Response</th>
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<td></td>
<td><a href="https://www.cdc.gov">Centers for Disease Control and Prevention</a></td>
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<tr>
<th>Center for Biosecurity</th>
<th>University of Pittsburgh</th>
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<tr>
<th>Center for the Study of Bioterrorism and Emerging Infections</th>
<th>Saint Louis University</th>
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</thead>
</table>
National Center for Biodefense
George Mason University

Disease/Conditions, pick lists
Diseases and Conditions
http://www.cdc.gov/DiseasesConditions/

Disease/Conditions, specific, examples of
Brain Attack: Stroke Scales
National Institute of Neurological Disorders and Stroke

New York Online Access to Health (NOAH)
http://www.noah-health.org/
in Spanish and English

Enter as search term: Ehlers-Danlos
OR enter: Lupus erythematosus
OR enter: Marfan
OR whatever disease entity needed

Easy Diagnosis
http://easydiagnosis.com

Genomics
Specific Genetic disorders
National Human Genome Research Institute

Genetic, Rare and Orphan Disease Resources Online
National Human Genome Research Institute
(very basic information)

Genomics Search
Centers for Disease Control

Standardized Diagnosis Terminologies
Nursing Diagnosis Terminologies

- Clinical Care Classification (HHCC) System http://www.sabacare.com/
- NANDA International www.nanda.org
- Omaha System www.omahasystem.org
- Surgical Information Systems (SSM) Online
  AORN’s Information Resource for Perioperative Leaders: Document Sharing Service
  http://www.ssmonline.org/Documents/ListDocuments.asp
NANDA Diagnosis Submission Forms

- NANDA International: www.nanda.org
- Concept Analysis Center
  Network for Language in Nursing Knowledge Systems (NLINKS)

ICD-9-CM diagnosis codes and titles, new and revised
US Department of Centers of Health and Human Services
Centers for Disease Control and Prevention
Centers for Medicaid and Medicare Services
http://www.cms.hhs.gov/medlearn/icd9code.asp

ICF (International Classification of Functioning, Health, and Disabilities, published by WHO)

- http://www.cdc.gov/nchs/about/otheract/icd9/icfhome.htm,
  Click on Disease Classification in left margin.
- Health Care Financing Review
  http://www.cms.hhs.gov/

Unified Medical Language System
National Library of Medicine
Standardized treatment terminologies

Nursing treatment terminologies

- Clinical Care Classification (Saba, 2003) [www.sabacare.com](http://www.sabacare.com)
- Nursing Interventions Classification (NIC) [http://www.nursingworld.org/mods/archive/mod30/cec211.htm](http://www.nursingworld.org/mods/archive/mod30/cec211.htm)
- Omaha System (Martin, Elfrink & Monsen, 2001)
- Perioperative Nursing Data Set
  Association of periOperative Registered Nursing (AORN)
- Gerontological Nursing Intervention Research Center [http://www.nursing.uiowa.edu/about_us/nursing_interventions/index.htm](http://www.nursing.uiowa.edu/about_us/nursing_interventions/index.htm)
- Center for Nursing Classification and Clinical Effectiveness
  Includes: Nursing Interventions Classification
  Classification [http://www.nursing.uiowa.edu/about_us/nursing_knowledge/clinical_effectiveness/index.htm](http://www.nursing.uiowa.edu/about_us/nursing_knowledge/clinical_effectiveness/index.htm)
  For FAQ to CMS, enter ABC Codes into CMS search box or access:

Practice/Treatment Guidelines

CDC - Centers for Disease Control and Prevention

- Diseases and Conditions
- Sexually Transmitted Diseases Treatment Guidelines 2006 [http://www.cdc.gov/std](http://www.cdc.gov/std)
- Tuberculosis

NCI - National Cancer Institute

- Treatment Cancer Treatment. Select from an A-Z listing. [www.nci.nih.gov](http://www.nci.nih.gov)

NGC

- National Guidelines Clearinghouse [www.ngc.gov](http://www.ngc.gov)
National Heart, Lung and Blood Institute, www.nhlbi.nih.gov

- National Asthma Education and Prevention Program Expert Panel Report 2: Guidelines for the Diagnosis and Management of Asthma
  http://www.nhlbi.nih.gov/guidelines/asthma/asthgdln.htm
- Guidelines for the Diagnosis and Management of Asthma—Update on Selected Topics 2002
  http://www.nhlbi.nih.gov/guidelines/asthma/index.htm
- Detection, Evaluation, and Treatment of High Blood Cholesterol in Adults (Adult Treatment Panel III)
- Recommendations Regarding Public Screening for Measuring Blood Cholesterol
  http://www.nhlbi.nih.gov/health/prof/heart/index.htm#chol
- High blood pressure guidelines: Joint National Commission (JNC) 7:
- Overweight and Obesity Clinical Guidelines
  http://www.nhlbi.nih.gov/guidelines/obesity/ob_home.htm

AAFP
- American Academy of Family Physicians, Clinical Recommendations

ADA
- American Diabetes Association, Clinical Recommendations

ACS
- American Cancer Society http://www.cancer.org/docroot/CRI/CRI_3.asp, to access the professional site, you must first register free. To register, go to http://www.cancer.org/docroot/home/index.asp?level=0 and click on "I want more information and then select "professionals from the drop down menu

CDC
- The Centers for Disease Control and Prevention
- Vaccines and Immunizations: http://www.cdc.gov/vaccines
- More Information on Vaccines

DEA
- Diversion Control: Drugs and Chemicals of Concern

Drug Management

FDA
- Food and Drug Administration www.fda.gov
- Center for Drug Research and Evaluation, Food and Drug Administration
- The FDA Safety Information and Adverse Event Reporting Program, Medwatch
- Adverse Event and Product Problem Forms, Medwatch, Food and Drug Administration
- VAERS (Vaccine Adverse Event Reporting System) http://www.vaers.hhs.gov/

NLM
- National Library of Medicine
NIH
  • National Institutes of Health [www.nih.gov](http://www.nih.gov) and scroll down to the Institute you desire to access.

Subscribe free and then click on “drug information after inserting drug name in search box.

Rxlist [www.rxlist.com](http://www.rxlist.com)

Family Practice Notebook (Provides link to 2AIDA 2001 insulin dosing simulations)
[http://www.fpnotebook.com/END135.htm](http://www.fpnotebook.com/END135.htm)

Outcomes/Evaluation

Patient Safety
  • [Agency for Healthcare Research and Quality (AHRQ), Web Morbidity and Mortality Rounds](http://www.ahrq.gov)
  • [Patient safety page, Medscape.com](http://www.medscape.com) and log in and then access the Patient Safety page.
  • [Institute for Healthcare Improvement](http://www.ihcresearch.net)

Standardized Outcome Terminologies
  • Center for Nursing Classification and Clinical Effectiveness
    Includes: Nursing Interventions Classification and Nursing Outcomes Classification
    [http://www.nursing.uiowa.edu/about_us/nursing_knowledge/clinical_effectiveness/index.htm](http://www.nursing.uiowa.edu/about_us/nursing_knowledge/clinical_effectiveness/index.htm)
  • International Nursing Minimum Data Set (NMDS)
  • Minimum Data Set (MDS) Information Site, Centers for Medicare and Medicaid Services
  • Outcomes Assessment Information Set (OASIS), Centers for Medicare and Medicaid Services
- **Health Plan Employer Data and Information Set (HEDIS®), National Committee for Quality Assurance (NCQA)**

  Example: Missouri 2006 Consumers' Guide
  Commercial: [http://www.dhss.mo.gov/ManagedCare/com_06.pdf](http://www.dhss.mo.gov/ManagedCare/com_06.pdf)
  MC+: [http://www.dhss.mo.gov/ManagedCare/mcaid_06.pdf](http://www.dhss.mo.gov/ManagedCare/mcaid_06.pdf)
  Medicare: [http://www.dhss.mo.gov/ManagedCare/mdcre_06.pdf](http://www.dhss.mo.gov/ManagedCare/mdcre_06.pdf)

  Example: Select list of HEDIS measures used by Blue Choice

  Example: Minnesota Department of Health, HEDIS Reports

**Chart or Medical Record Audits**

- **Example:** Ophthalmic Mutual Insurance Company (OMIC), Medical Record Audit

**Biostatistical measurement and analysis**

- **Centers for Disease Control, Epidemiologic analysis software**

- **Centers for Disease Control and Prevention,**
  Qualitative data creation, management, and analysis software

- **Centers for Disease Control and Prevention,**
  Qualitative database software

- **Statistical test calculators:** [http://www.ifigure.com/math/stat/testing.htm](http://www.ifigure.com/math/stat/testing.htm)

- **America Online,**
  Free biostatistical software and biostatistical tests online
  [http://statpages.org](http://statpages.org)

- **College of St. Benedict/St. John's University,**
  Student's t test calculator [http://www.physics.csbsju.edu/stats/t-test.html](http://www.physics.csbsju.edu/stats/t-test.html)
Missouri Geriatric Initiatives

Aging Successfully and Glidepath Tools
http://medschool.slu.edu/agingsuccessfully/index.phtml?page=glidepathintroduction

- Geriatric Screening Tools
  http://medschool.slu.edu/agingsuccessfully/index.phtml?page=healthsurveys

- Clinical Glidepath® Tools Sampler per Acrobat Reader
  http://medschool.slu.edu/agingsuccessfully/index.phtml?page=healthsurveys

Quality Improvement Program for Missouri
http://www.nursinghomehelp.org/

Center for Eldercare Rehabilitation and Technology
Includes a variety of evidence-based and knowledge-based resources
http://eldertech.missouri.edu/links.php

Metasearch, Continuing Education and Information Standards Organizations

Meta-search Engine Providers
- EMetasearch http://emetasearch.com

Meta-search engines
- Ithaki http://www.ithaki.net/indexu.htm
- Metacrawler, www.metacrawler.com

Meta-search standards
- National Information Standards Organization
  http://www.niso.org/committees/MetaSearch-info.html

Public Domain Search Engines/Databases
- MEDLINE, National Library of Medicine, www.pubmed.gov, click on Limits, then click on Subset drop down menu, then click on MEDLINE
- NLINKS Research Center databases Network for Language in Nursing Knowledge Systems http://www.nlinks.org/research_main.phtml

Continuing Education
- CDC
http://www.cdc.gov/search.do?action=search&queryText=continuing+education&x=17&y=8

- Medscape. Subscribe free and sign up for “nurses” page. There you will find an array of continuing education pages. Plus, you have access to other pages as well, e.g., infectious disease, cardiovascular, endocrine and their related CME’s. Medscape.com is an approved ANCC site. [www.medscape.com](http://www.medscape.com)
- National Council of State Boards of Nursing, [www.ncsbn.org](http://www.ncsbn.org) and enter continuing education courses in the search box
- Cancer continuing education. Scroll down left hand margin for CME. [http://www.cancer.org/docroot/HOME/pro/pro_0.asp](http://www.cancer.org/docroot/HOME/pro/pro_0.asp)

*The End*