

**Robert Allen Jenders, MD, MS, FACP, FACMI, FHL7, FAMIA**  
**Curriculum Vitae**  
**9 January 2023**

**Personal History**

Business Address

Center for Biomedical Informatics  
Charles Drew University  
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Los Angeles, CA 90059  
USA  
Phone: +1-323-249-5734  
Email: jenders@cdrewu.edu

Department of Medicine  
University of California, Los Angeles  
Email: jenders@ucla.edu

Place of Birth: Milwaukee, Wisconsin USA  
Citizenship: USA

**Education**

BS (computer science): Marquette University, 1980 - 1984  
MD: University of Wisconsin – Madison, 1984 - 1988  
Internship (medicine): University of Wisconsin Hospital, 1988 - 1989  
Residency (medicine): University of Wisconsin Hospital, 1989 - 1991  
MS (computer science): Northeastern University, 1991 - 1993  
Fellowship (medical informatics): Massachusetts General Hospital, 1991 – 1994

**Licensure**

Wisconsin: #30417, 1989 - 1991  
Massachusetts: #74433, 1991 - 1994  
New York: #196921, 1994 - 2002  
California: #G86614, 2002 –  
District of Columbia: #MD039033, 2010 - 2012

**Board Certification**

American Board of Internal Medicine (certificate #138838), 1991, recertified 2001 & 2012  
American Board of Preventive Medicine, Clinical Informatics Subspecialty (certificate #72104), 2016

**Professional Experience**

2012 – present: Co-Director, Center for Biomedical Informatics & Professor of Medicine,  
Charles Drew University  
2012 – present: Health Sciences Clinical Professor of Medicine, University of California, Los Angeles  
2021 – present: Senior Associate Director, UCLA Clinical and Translational Science Institute  
2013 – present: Attending Physician, Department of Medicine, Harbor-UCLA Medical Center  
2014 – present: Attending Physician, Department of Medicine, MLK Outpatient Center,  
Department of Health Services, Los Angeles County  
2015 – 2021: Associate Director, UCLA Clinical and Translational Science Institute

2015 – present: Investigator, Velocity Clinical Research (formerly National Research Institute), Los Angeles  
2010 – 2012: Staff Scientist, National Library of Medicine, US National Institutes of Health  
2010 – 2012: Attending Physician, Georgetown University Hospital  
2009 – 2010: Clinical Professor of Medicine, University of California, Los Angeles  
2002 – 2010: Attending Physician, Department of Medicine, Cedars-Sinai Medical Center  
2002 – 2009: Associate Professor of Clinical Medicine, University of California, Los Angeles  
1994 – 2002: Assistant Professor of Medicine and Medical Informatics, Columbia University  
1994 – 2002: Assistant Attending Physician, Medical Service,  
Columbia University Medical Center

## **Professional Activities**

### Teaching Responsibilities (Columbia University)

Introduction to Medical Informatics (MDIF G4001), Fall, 1996; Fall, 1997; Fall, 1998  
Research Seminar in Medical Informatics (MDIF G4099), Academic Year 1996-1997  
Projects in Medical Informatics (MDIF G6001), Academic Year 1997-1998  
Clinical Decision Support (MDIF G4051), Fall, 2000  
Thesis Committee (Jae-Jun Hwang, MPhil degree), 1996  
Graduate Research Advisor: Jae-Jun Hwang (1995 - 1996); Jen-Hsiang Chuang (1997 - 2000);  
Dongwen Wang (1997 - 2000); Mona Chang (1998 - 1999).

### Teaching Responsibilities (New York University)

Database Design and Decision Support in Clinical and Nursing Information Systems (E41.2233),  
Fall, 1999; Spring, 2000; Fall, 2000; Spring, 2001; Fall, 2001; Spring, 2002.

### Teaching Responsibilities (University of California, Los Angeles)

Training Program in Translational Science: Biomedical Informatics Module, Spring, 2013 - present  
Biomedical Informatics (MI 185.01) (Course Chair), Spring, 2003 – Fall, 2010  
Medical Knowledge Representation (BME 226): Rule-based Systems Lecture, Spring, 2007

### Teaching Responsibilities (Georgetown University)

Biomedical Informatics (BCHB 591) (Co-Director), Fall, 2011

### Teaching Responsibilities (Charles Drew University)

Nursing Theory (NUR 521) & Nursing Systems (NUR 528) (Biomedical Informatics lectures), Spring, 2013 –  
2016  
Principles of Biomedical Informatics (MBS 520), Fall term 2016 - present  
Principles of Biomedical Informatics (MPH 560), Summer term 2019 - present

### Other Professional Activities

Fellowship Committee, Department of Medical Informatics, Columbia University (1995 – 1999)  
Admissions Committee, Department of Medical Informatics, Columbia University (1996 – 1999)  
Member, Scientific Program Committee, American Medical Informatics Association  
(AMIA) Spring Congress (1995)  
Member, ASTM Committee on Health Knowledge Representation (E31) (1996-1998)  
Co-Chair, Health Level Seven (HL7)  
Clinical Decision Support Work Group (1998-present)  
Co-Chair, HL7 Arden Syntax Work Group (2001-present)

Technology Chair, National Vaccine Advisory Committee  
Workgroup on Immunization Registries (1998-1999)

Member, Program Committee, National Immunization Registry Conference (2000, 2001, 2002)

Member, Technical Working Group, National Immunization Program (1999 – 2003, when phased out)

Invited Expert, AMIA Spring Congress,  
"Developing a National Agenda for Public Health Informatics" (2001)

Member, Medical Informatics Committee,  
Cedars-Sinai Medical Center (2002 – 2007, when phased out)

Webmaster, Division of General Internal Medicine,  
Cedars-Sinai Medical Center (2003 – 2010)

Member, Institutional Review Board, Cedars-Sinai Medical Center (2004 – 2009)

Member, Scientific Program Committee, Symposium on Computerized Guidelines  
and Protocols (CGP-2004), Prague, Czech Republic (April, 2004)

Member, Enabling Chronic Care Project Workgroup on Laboratory Data Standards,  
California Healthcare Foundation (2004)

Member, Computer-Assisted Coding Workgroup, American Health Information  
Management Association (2004)

Invited Expert, National Health Information Infrastructure conference,  
"Cornerstones for Electronic Healthcare" (2004)

Member, Patient Safety Task Force,  
Healthcare Information and Management Systems Society (2004 - 2009)

Member, Interoperability Workgroup, Certification Commission for  
Health Information Technology (CCHIT) (2006 - 2007)

Member, Scientific Program Committee, AMIA Fall Symposium (2006)

Member, Advisory Board, Health Information Management degree program,  
Claremont Graduate University (2006 - present).

Member, NIH Study Section ZRG1 HOP-U 52 R, Archiving for Surveys of the Elderly – SBIR/STTR.  
Bethesda, MD, June 26, 2006

Member, Scientific Program Committee, AMIA Spring Congress (2007)

Member, Technology Leadership Committee, National Alliance for  
Health Information Technology (NAHIT) (2007 - 2009)

Member, NIH Study Section for RFA-HS-07-006, Ambulatory Safety and Quality Program:  
Improving Quality through Clinician Use of Health Information Technology.  
Alexandria, VA, July 11 - 12, 2007.

Member, Records Workgroup, Terms Standardization Project, Office of the National Coordinator for  
Health Information Technology, Department of Health and Human Services and  
National Alliance for Health Information Technology (2008)

Member, NIH/AHRQ Study Section ZHS1 HSR-A (01) 1, Ambulatory Safety and Quality Program:  
Improving Management of Individuals with Complex Healthcare Needs through Health IT  
Rockville, MD, June 18 – 20, 2008

Member (ad hoc), NIH Health Care Technology and Dissemination Sciences Study Section.  
Gaithersburg, MD, June 16 – 19, 2009

Co-Chair, Biomedical Informatics Program, UCLA Clinical and Translational Science Institute (2008 – 2009)

Invited Participant, Office of the National Coordinator for Health Information Technology  
Clinical Decision Support Workshop  
Washington, DC, August 25 – 26, 2009

Member (ad hoc), AHRQ Health Care Technology and Dissemination Sciences Study Section.  
Gaithersburg, MD, October 19 - 20, 2009

Co-Chair, AHRQ Special Emphasis Panel / Study Section, Innovative Adaptation and

- Comparison of AHRQ Comparative Effectiveness Research Products (iADAPT),  
Bethesda, MD, April 29 – 30, 2010
- Member, AHRQ Special Emphasis Panel / Study Section,  
Comparative Effectiveness Delivery System Evaluation Grants,  
Bethesda, MD, July 22 - 23, 2010
- Member, Scientific Program Committee, AMIA Annual Symposium (2010)
- Member, Scientific Program Committee, International Conference on Intelligent Healthcare (ICHI)  
(Bhubaneswar, India; July 9-10, 2011)
- Member, Scientific Program Committee, IEEE Conference on Healthcare Informatics, Imaging and  
Systems Biology (HISB) (San Jose, CA; July 27-29, 2011)
- Member, Scientific Program Committee, ACM Special Interest Group on Health Informatics (SIGHIT)  
International Health Informatics Symposium (IHI 2012) (Miami, FL; January 28-30, 2012)
- Member, Scientific Program Committee, IEEE Conference on Healthcare Informatics, Imaging and  
Systems Biology (HISB) (La Jolla, CA; September 27-28, 2012)
- Member (ad hoc), AHRQ Healthcare Technology and Decision Science Study Section. Gaithersburg, MD,  
June 21 – 23, 2013
- Member, University Appointments & Promotions Committee, Charles Drew University, 2012 – present
- Member, Admissions Committee, College of Medicine, Charles Drew University, 2013 - 2017
- Standing Member, AHRQ Healthcare Information Technology Research Study Section,  
October, 2013 – May, 2016. (Acting Chair October, 2015 & February, 2016)
- Member, NIH R24 Big Data to Knowledge (BD2K) study section, Washington, DC. March 13, 2017.
- Member, NIH Study Section Risk Prevention and Health Behavior [RPHB C 11] study section  
(Previously known as Health of the Population [HOP E 10])  
(Previously known as Healthcare Delivery and Methodologies (HDM) [ZRG1 HDM B 10])  
Small Business Innovation Research (SBIR) Study Section (2007 – present)
- Ad Hoc Member, AHRQ Healthcare Information Technology Research (HITR) Study Section,  
October, 2017 – June, 2020
- Chair, AHRQ Special Emphasis Panel HSR-F study section, October, 2017; July, 2019
- Chair, AHRQ Healthcare Information Technology Research (HITR) Study Section,  
October, 2020 – present
- Member, Scientific Program Committee, AMIA Annual Symposium (2008, 2017, 2018, 2019, 2021)
- Reviewer
- International Journal of Medical Informatics (2000 – present).
  - Journal of Biomedical Informatics (2005 – present).
  - Journal of the American Medical Informatics Association (2000, 2005, 2007, 2011, 2012 - present).
  - Artificial Intelligence in Medicine (2008 - present).
  - The Open Medical Informatics Journal (2009 – present).
- Editorial Board Member
- International Journal of Computers in Healthcare (2009 – present).
  - Journal of Medical Artificial Intelligence (2019 – present).

## Honors and Special Awards

- Phi Beta Kappa election, 1983
- Pi Mu Epsilon (Mathematics) election, 1982
- Alpha Sigma Nu (Jesuit honorary) election, 1983
- Fellow (elected), American College of Physicians, 2004
- Fellow (elected), American College of Medical Informatics, 2005
- Book of the Year Award, Healthcare Information and Management Systems Society, 2005

Nominee, Distinguished Paper Award, AMIA Annual Symposium, 2007  
Book of the Year Award, Healthcare Information and Management Systems Society, 2012  
Distinguished Poster Award (as co-author), AMIA Annual Symposium, 2016  
Fellow (elected), Health Level Seven International, 2019  
Fellow, American Medical Informatics Association, 2019

### **Research Grants and Fellowships**

#### New York State Science and Technology Foundation

"A Tool for Developing and Testing Medical Logic Modules"

PI = RA Jenders

7/1/1995 - 6/30/1996, direct funds = \$61590; 44% effort

#### New York State Science and Technology Foundation

"A Tool for Writing Medical Logic Modules"

PI = RA Jenders; Grant CAT96013

7/1/1996 - 6/30/1997, direct funds = \$61189; 20% effort

#### Centers for Disease Control and Prevention

"Academic Medical Center/Community Health Network  
Childhood Immunization Demonstration Project"

PI = M Irigoyen; Investigator = RA Jenders. Grant U66/CCU212961-01

9/30/1996 - 9/29/2001, total funds = \$2500926; 40% effort

#### National Institutes of Standards and Technology/American Healthcare, Inc.

"Automated Care Plans and Practice Guidelines"

PI = PD Clayton; Investigator = RA Jenders. Grant CAHSI

1/1/1995 - 1/31/1997, direct funds = \$250440; 15% effort

#### National Library of Medicine

"Informatics for the National Heart Attack Alert Program" (planning grant)

PI = J Cimino

9/30/1998 - 5/30/1999; total funds = \$100,000; 12% effort

#### National Library of Medicine

"Informatics for the National Heart Attack Alert Program"

PI = J Cimino

9/30/1999 - 9/29/2000; direct funds = \$651,000; 10% effort

#### Agency for Healthcare Research and Quality

"Point of Care Delivery of Research Evidence"

PI = EA Balas; Investigator = RA Jenders. Grant R01-HS10472-01A1

9/1/2000 - 8/31/2005, local direct funds = \$223,779; 20% effort

#### Health Resources and Services Administration

"Community Access Program (CAP)"

PI = W Michelin; Investigator = RA Jenders. Grant G92 OA 00079-01

4/1/2001 - 3/31/2002, total funds = \$175,676; 40% effort

#### National Aeronautics and Space Administration & Health Resources and Services Administration

"Patient Health Monitor"

PI = EH Shortliffe; Co-PI = RA Jenders

Grant 528753 (NASA) & 1 D1B TM0044-01 (HRSA)

6/1/2001 - 7/31/2002; total funds = \$437,650 (NASA) & \$816,000 (HRSA); 25% effort

National Institute of Neurological Disorders and Stroke

"Secondary Prevention of Small Subcortical Strokes"

National PI = O Benavente (U of Texas - San Antonio); Local PI = S Cohen; Investigator = RA Jenders

Grant 2 U01 NS38529-04A1

3/1/2003 - 6/30/2005; local direct funds = \$468,800; 10% effort

California HealthCare Foundation

"Using Electronic Data Standards to Deliver Laboratory Results to Clinical Practices"

PI and Project Director = RA Jenders

Grant 05-1549

2/15/2006 - 4/30/2007; total funds = \$120,000; 5% effort

National Library of Medicine & Agency for Healthcare Research and Quality

"Improving Guideline Development and Implementation

PI = Richard N. Shiffman (Yale); Investigator = RA Jenders

Grant 2 R01 LM007199-04A2

4/1/2007 - 3/31/2011; 5% effort (Years 3-4)

Center for Medicare and Medicaid Services / National Quality Forum

"Electronic Quality Measure Format"

PI = R Dolin; Investigator = RA Jenders

Grant HHSM-500-2009-00010C (subcontract with NQF)

5/4/2009 - 3/19/2010; 5% effort

National Institute of Minority Health and Health Disparities

"Accelerating Excellence in Translational Science"

PI = J Vadgama; Unit Director = RA Jenders

Grant U54MD007598

9/28/2009 - 2/28/2024; 25% effort

National Center for Research Resources & National Center for Advancing Translational Sciences

"UCLA Clinical and Translational Science Institute"

Overall PIs = Steven Dubinett, Arlene Brown, Arash Naeim;

Senior Associate Director & Charles Drew University site PI = RA Jenders

Grant UL1TR000124

6/2011 - 6/2016; 36% effort. 7/2016 - 6/2021; 40% effort. 6/29/2022 - 6/28/2027; 40% effort.

Centers for Disease Control and Prevention

"Partners for Health"

Local PI (UCLA) = Roberto Vargas; Investigator = RA Jenders

Grant 1U58DP004732-01

9/30/2013 - 9/29/2014: 2.5% effort; 9/30/2014 - 9/29/2015: 5% effort.

National Library of Medicine

“Predicting Diabetic Retinopathy From Risk Factor Data And Digital Retinal Images”

PI = Omolola Ogunyemi; Investigator = RA Jenders

Grant R01LM012309

9/30/2016 – 9/29/2021: 8% effort

National Institute of Minority Health and Health Disparities (NIMHD)

“CDU-CRECD Mentored Postdoctoral Training in Translational Research and Biomedical Informatics Program”

PI = M Bazargan, Investigator = RA Jenders

Grant 2R25MD007610-06

10/1/2017 – 4/30/2023: 10% effort

National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)

“KUH-ART: Advanced Research Training in Kidney Disease, Urology and Hematology”

MPI: JT Anger, T Ganz, IB Salusky; Site PI = RA Jenders

Grant 1U2CDK129496-01

9/15/2021 – 5/31/2026: 5% effort

**Lectures and Presentations**

*"Medical Logic Modules"*. Division of General Medicine Divisional Review, Department of Medicine, Columbia University. New York, New York. August 22, 1995.

*"Medical Decision Support: Experience with Implementing the Arden Syntax at the Columbia-Presbyterian Medical Center"*. Prospectively Paid Health Networks Project of the Public Policy and Education Forum of New York. New York, New York. February 22, 1996.

*"Medical Decision Support: Experience with Implementing the Arden Syntax at the Columbia-Presbyterian Medical Center"*. First Annual Network-Based Realtime Clinical Decision Support System Workshop. Cambridge, Massachusetts. June 26, 1996.

*"Acquisition and Use of Clinical Data at the Columbia-Presbyterian Medical Center"*. *Nursing Informatics and Patient Care: A New Era.* New York University. New York, New York. July 26, 1996.

*"Automated Decision Support at the Columbia-Presbyterian Medical Center"*. In Vitro Diagnostics: Targeting Customer 2000. Philadelphia, Pennsylvania. October 1, 1996.

*"Design and Use of a Computer-Based Decision Support System"*. Graduate Interdisciplinary Seminar in the Natural Sciences. Columbia University. New York, New York. October 16, 1996.

*"Automated Decision Support and the Electronic Medical Record at the Columbia-Presbyterian Medical Center"*. Electronic Medical Records: Utilizing Information Technology to Streamline Health Care Delivery. Atlanta, Georgia. December 2, 1996.

*"Information System Architecture: Acquisition and Use of Clinical Data at the Columbia-Presbyterian Medical Center"*. Consortium for Clinical Information Systems of the American Association of Dental Schools annual meeting. Orlando, Florida. March 20, 1997.

*"Accessing Patient Data Across Settings"*. Second Annual Nursing Informatics Conference, New York University. New York, New York.. October 16, 1997.

"*Clinical Decision Support: Implementation Strategies, Case Studies and Arden Syntax*". Tutorial at the Fall Symposium of the American Medical Informatics Association. Opryland Hotel, Nashville, Tennessee. October 25, 1997.

"*Panel: Shared Experiences with Real-Time Clinical Alerting/Reminder Systems*". Panel discussion at the Fall Symposium of the American Medical Informatics Association. Opryland Hotel, Nashville, Tennessee. October 29, 1997.

"*Patient Data and the World Wide Web*". Third Annual Nursing Informatics Conference, New York University. New York, New York. October 16, 1998.

"*Clinical Decision Support: Implementation Strategies, Case Studies and Arden Syntax Tutorial*". Tutorial at the Fall Symposium of the American Medical Informatics Association. Buena Vista Palace, Orlando, Florida. November 7, 1998.

"*Clinical Data Systems Architecture and Organization*". Lecture in "Medical Informatics: A Course for Health Professionals." Marine Biological Laboratory, Woods Hole, Massachusetts, October 8, 1999.

"*Clinical Decision Support and Knowledge Representation: Practical Experiences and Life Lessons*". Panel participant at the Fall Symposium of the American Medical Informatics Association. Marriott Wardman Hotel, Washington, DC, November 8, 1999.

"*Sharing Knowledge for Clinical Guidelines: Are We There Yet?*". Panel participant at the Fall Symposium of the American Medical Informatics Association. Marriott Wardman Hotel, Washington, DC. November 10, 1999.

"*Arden Syntax*". Plenary presentation at an invitational National Library of Medicine workshop, "Towards Representations for Sharable Guidelines". Inn at Longwood, Boston, MA. March 3, 2000.

"*Clinical Decision Support: System Architecture, Knowledge Representation and Arden Syntax*". Tutorial at Health Level Seven International Affiliates Meeting, Dresden, Germany. August 24, 2000.

"Information System Architecture and Knowledge Representation for Clinical Decision Support Systems". Invited presentation at the Simposio de Informática y Salud. Tandil, Argentina. September 7, 2000.

"*Clinical Decision Support: Comparative Knowledge Representation and Arden Syntax*". Tutorial at the Fall Symposium of the American Medical Informatics Association. Westin Bonaventure Hotel, Los Angeles, CA, November 4, 2000.

"*Arden Syntax: Ongoing Evolution and Decision Support Modeling*". Workshop at the Fall Symposium of the American Medical Informatics Association. Westin Bonaventure Hotel, Los Angeles, CA, November 5, 2000.

"*Panel: Advanced Clinical Alerting Systems: Do They Impact Patient Outcomes?*" Panel participant at the Fall Symposium of the American Medical Informatics Association. Westin Bonaventure Hotel, Los Angeles, CA, November 6, 2000.

"*Sistemas de Soporte para la Toma de Decisiones Clínicas: Prevención de Errores Durante El Cuidado de Pacientes*". Tutorial at the Simposio Argentino de Informática y Salud. Facultad de Ingeniería, Universidad de Buenos Aires. September 12, 2001.



"*Aspectos Importantes en la Creación de Sistemas de Información Hospitalarios*". Tutorial at the Simposio Argentino de Informática y Salud. Facultad de Ingeniería, Universidad de Buenos Aires. September 13, 2001.

"*HL7 Internacional*". Tutorial at the Simposio Argentino de Informática y Salud. Facultad de Ingeniería, Universidad de Buenos Aires. September 14, 2001.

"*Promoting Patient Safety: Overview of Clinical Decision Support*". Tutorial at the Fall Symposium of the American Medical Informatics Association. Marriott Wardman Park Hotel, Washington, DC, November 3, 2001.

"*Standards in Clinical Decision Support: Activities in Health Level Seven*". Workshop at the Fall Symposium of the American Medical Informatics Association. Marriott Wardman Park Hotel, Washington, DC, November 4, 2001.

"*Panel: Point Of Care Delivery Of Evidence For Error Prevention*". Panel participant at the Fall Symposium of the American Medical Informatics Association. Marriott Wardman Park Hotel, Washington, DC, November 6, 2001.

"*'This Won't Hurt a Bit': All About Immunization Registries*". Medical Grand Rounds, Cedars-Sinai Medical Center, Los Angeles, CA, September 20, 2002.

"*Clinical Practice Guidelines, Decision Support and Patient Safety*". Tutorial at the Fall Symposium of the American Medical Informatics Association. Henry B. Gonzalez Convention Center, San Antonio, TX. November 9, 2002.

"*Standards in Clinical Decision Support: Activities in Health Level Seven*". Workshop at the Fall Symposium of the American Medical Informatics Association. Henry B. Gonzalez Convention Center, San Antonio, TX. November 10, 2002.

"*'This Won't Hurt a Bit': All About Immunization Registries*". Pediatric Grand Rounds, Cedars-Sinai Medical Center, Los Angeles, CA, February 27, 2003.

"*Evaluating the Existing Environment: Data Availability and Standards*". Presentation at the Innovative Informatics for Reducing Medication Errors conference, Boston, MA, April 10, 2003.

"*Standards in Clinical Decision Support: Using Arden Syntax*". Tutorial at the meeting of Health Level Seven (standards organization for health care computing), Cleveland, OH, April 28, 2003.

"*Improving Outcomes Through Clinical Decision Support*". Invited panel member at the Association of Medical Directors of Information Systems conference, Rancho Bernardo, CA, July 24, 2003.

"*Toward a Standard for Representing Computable Clinical Guidelines: Work in Health Level Seven*". Keynote address at the Advancing Knowledge for Quality Healthcare conference (Health Informatics New Zealand), Auckland, New Zealand, August 7, 2003.

"*The International Perspective: Arden Syntax and Guideline Issues*". Invited presentation at the Advancing Knowledge for Quality Healthcare conference (Health Informatics New Zealand), Auckland, New Zealand, August 8, 2003.

*"Clinical Decision Support Standards Worldwide"*. Keynote address at the Health Level Seven Australia conference, Sydney, Australia, August 13, 2003.

*"HL7 Arden Syntax"*. Tutorial at the Health Level Seven Australia conference, Sydney, Australia, August 13, 2003.

*"The Gap: What We Need for Tailored Decision Support"*. Panel discussion at the Health Level Seven Australia conference, Sydney, Australia, August 14, 2003.

*"Clinical Decision Support Systems"*. Tutorial at the Health Level Seven International Affiliates meeting, Daegu, Korea, October 17, 2003.

*"Patient Safety: Work Toward Standard Knowledge Representation and Its Potential Impact on Patient Care"*. Invited presentation at the Medical Informatics Symposium in Taiwan, Kaohsiung, Republic of China, October 19, 2003.

*"Representación de Conocimiento Médico: Trabajando Hacia un Estándar Internacional"*. Invited presentation at the Jornadas de Sistemas de Información en Salud, Hospital Italiano, Buenos Aires, Argentina, November 4, 2003.

*"Opportunities for Decision Support in Clinical Workflow"*. Panel discussion at the Fall Symposium of the American Medical Informatics Association, Washington, DC, November 11, 2003.

*"Clinical Decision Support: Patient Safety, Practice Guidelines and CPOE"*. Tutorial at the Fall Symposium of the American Medical Informatics Association, Washington, DC, November 12, 2003.

*"The Use of PDAs in Clinical Care: From the Bedside to the Enterprise"*. Invited presentation at the Organized Medical Staff Section conference of the American Medical Association (AMA-OMSS), Honolulu, HI, December 5, 2003.

*"What I Did On My Summer Vacation: International Clinical Decision Support Standards"*. Tutorial at the University of Melbourne, Melbourne, Australia, February 16, 2004.

*"What I Did On My Summer Vacation: International Clinical Decision Support Standards"*. Tutorial at the Sydney International Campus of Central Queensland University, Sydney, Australia, February 21, 2004.

*"HIMSS Clinical Decision Support Implementers' Workbook"*. Panel discussion at the Annual Conference of the Healthcare Information and Management Systems Society, Orlando, FL, February 25, 2004.

*"The Role for Decision Support Systems and Standards in Improving Patient Safety"*. Invited presentation at the Innovative Patient Safety Techniques and Technologies Summit, San Francisco, CA, April 23, 2004.

*"Computers in Patient Care: The Basics of Medical Informatics"*. Presentation in the Graduate Medical Education core lecture series, Cedars-Sinai Medical Center, Los Angeles, CA, May 6, 2004.

*"The HIMSS Clinical Decision Support Implementers' Workbook"*. Invited panel member at the Association of Medical Directors of Information Systems conference, Rancho Bernardo, CA, July 15, 2004.

*"Using the EHR: Aspects of Standards and Architecture in Clinical Decision Support"*. Invited presentation at the Electronic Health Record Summit, Washington, DC, July 19, 2004.

*"Requirements For and Work Towards an International Standard for Representing Clinical Guidelines"*. Organized panel discussion at the World Congress of Medical Informatics (Medinfo 2004), San Francisco, CA, September 8, 2004.

*"There Is No Free Text: E-Coding and the Value of Structured Data"*. Invited presentation at the American Health Information Management Association annual meeting, Washington, DC, October 13, 2004.

*"Standards for Clinical Decision Support: Using Arden Syntax"*. Tutorial at the autumn meeting of Health Level Seven Canada, Montréal, QC, October 14, 2004.

*"Standards and the National Health Information Infrastructure of the USA"*. Invited keynote address at the Medical Informatics Symposium in Taiwan (MIST 2004), Chia-Yi, Taiwan, October 17, 2004.

*"Clinical Decision Support: Effective Implementation"*. Panel discussion at the Healthcare Information and Management Systems Society annual conference, Dallas, TX, February 17, 2005.

*"Knowledge Representation Standards for CPOE Alerts and Reminders, Part 2: The World Beyond Arden Syntax"*. Invited presentation at the Decision Support for Computerized Physician Order Entry Consensus Conference, San Francisco, CA, June 22, 2005.

*"Improving Outcomes with Clinical Decision Support"*. Invited presentation at the Association of Medical Directors of Information Systems conference, Rancho Bernardo, CA, July 20, 2005.

*"Electronic Health Records"*. Invited lecture in course IS377--*Bio & Medical Informatics: An Information Systems Approach* at Claremont Graduate University, Claremont, CA, October 6, 2005.

*"Computers in Patient Care: The Basics of Medical Informatics"*. Presentation in the Graduate Medical Education core lecture series, Cedars-Sinai Medical Center, Los Angeles, CA, October 12, 2005.

*"Standards in Clinical Decision Support: Activities in Health Level Seven"*. Organizer of workshop at the Fall Symposium of the American Medical Informatics Association, Washington, DC, October 22, 2005.

*"Computer-Assisted Coding: Current Practice and Future Directions"*. Speaker in workshop at the Fall Symposium of the American Medical Informatics Association, Washington, DC, October 22, 2005.

*"Clinical Decision Support: A Practical Guide to Developing Your Program to Improve Outcomes"*. Invited tutorial co-presenter at the Fall Symposium of the American Medical Informatics Association, Washington, DC, October 23, 2005.

*"Improving Health Care Outcomes with CDS: Developing an Agenda for Accelerating Adoption"*. Member of invited panel discussion at the Fall Symposium of the American Medical Informatics Association, Washington, DC, October 26, 2005.

*"Up Close and Personal: Standards and Person-Centric Electronic Health Records"*. Invited, featured presentation at The Many Faces of Person-Centric Health Systems: A National Symposium to Examine Use-

Cases for Healthy, Chronically Ill and Disabled User Communities. Claremont Graduate University, Claremont, CA, December 3, 2005.

*"CPOE: Standards and Stuff"*. Invited presentation at annual sales meeting, Thomson Micromedex Inc. Carlsbad, CA, January 4, 2006.

*"Electronic Health Records: The Agony and the Ecstasy"*. Invited presentation at medical staff meeting, Glendale Adventist Medical Center, Glendale, CA, March 1, 2006.

*"Harnessing Clinical Decision Support to Improve Key Outcomes in Your Organization"*. Invited presentation at the Scottsdale Institute Spring Conference. Scottsdale, AZ, April 6, 2006.

*"EHR Standards: Where Are We?"* Invited panel presentation at the American Medical Informatics Association Spring Congress, Phoenix, AZ, May 17, 2006.

*"Improving Outcomes with Clinical Decision Support"*. Tutorial at the Toward Electronic Patient Record conference. Baltimore, MD, May 21, 2006.

*"Clinical Decision Support"*. Invited organizer of roundtable discussion at the Physician Computer Connection conference of the Association of Medical Directors of Information Systems. San Diego, CA, July 20, 2006.

*"Improving Patient-Centered Workflow with Clinical Decision Support Systems"*. Invited presentation at the Optimizing Patient Throughput conference. Del Mar, CA, October 18, 2006.

*"Clinical Decision Support: A Practical Guide to Developing Your Program"*. Invited tutorial at the AMIA Fall Symposium. Washington, DC, November 11, 2006.

*"Standards in Clinical Decision Support: Activities in Health Level Seven"*. Organized workshop at the AMIA Fall Symposium. Washington, DC, November 11, 2006.

*"Critical Evaluation of the Arden Syntax: What is the Next Move?"* Panel member, AMIA Fall Symposium. Washington, DC, November 13, 2006.

*"Mediating Access to Knowledge: The Principles and Practice of Infobuttons"*. Invited presentation at the 2006 Kay-CGU Symposium "Pacific Edge E-Health Innovations: Linking Research, Practice and Policy to Benefit Consumers and Communities". Claremont Graduate University, Claremont, CA, December 1, 2006.

*"Standards in Health Information Technology: Update for the Laboratorian"*. Pathology Grand Rounds, Cedars-Sinai Medical Center. Los Angeles, CA, January 12, 2007.

*"Improving Outcomes with Clinical Decision Support"*. Invited presentation, CXO Forum, Healthcare IT Innovation Week, Grand Hyatt Singapore, February 1, 2007.

*"Use of Information Technology in Clinical Decision Support"*. Keynote address, Integrating Healthcare, Empowering Patients conference (Singapore Ministry of Health), Grand Hyatt Singapore, February 2, 2007.

*"Enhancing Patient Care: Evidence-Based Medicine and Quality Assurance Using Clinical Decision Support"*. Invited lecture in Health Informatics course (sponsored by Government of Singapore, Infocomm Development Authority [IDA]), Holiday Inn Parkview Singapore, February 5, 2007.

*"Enhancing Patient Care: Patient Safety and Medical Errors--Implementing Clinical Decision Support"*. Invited lecture in Health Informatics course (sponsored by Government of Singapore, Infocomm Development Authority [IDA]), Holiday Inn Parkview Singapore, February 5, 2007.

*"Improving Outcomes with Clinical Decision Support"*. Participant in roundtable discussion, Healthcare Information and Management Systems Society annual conference, New Orleans, LA, February 26, 2007.

*"Building on Success: International Lessons Learned"*. Invited presentation at the Electronic Health Records and Patient Safety conference, Toronto, Canada, May 8, 2007.

*"Meeting Patient Demand for Reliable Medical Information Using Clinical Decision Support"*. Invited tutorial at the Toward the Electronic Patient Record (TEPR) conference, Dallas, TX, May 20, 2007.

*"Improving Outcomes with Clinical Decision Support"*. Chair and speaker on invited panel, AMIA Spring Congress. Orlando, FL, May 22, 2007.

*"Care Management: Using Program and Technology to Improve Outcomes"*. Invited keynote address at the annual Blue Cross Blue Shield Associations Health Information Technology Forum. Chicago, IL, June 14, 2007.

*"Clinical Decision Support"*. Invited organizer of roundtable discussion at the Physician Computer Connection conference of the Association of Medical Directors of Information Systems. San Diego, CA, July 26, 2007.

*"Computers in Patient Care: The Basics of Medical Informatics"*. Presentation in graduate medical education core lecture series, Cedars-Sinai Medical Center, August 8, 2007.

*"Clinical Decision Support: A Practical Guide to Developing Your Program to Improve Outcomes"*. Organized tutorial at the World Congress of Medical Informatics (Medinfo 2007), Brisbane, Australia, August 19, 2007.

*"Clinical Decision Support: A Practical Guide to Developing Your Program"*. Invited tutorial at the AMIA Fall Symposium. Chicago, IL, November 10, 2007.

*"Standards in Clinical Decision Support: Activities in Health Level Seven"*. Organized workshop at the AMIA Fall Symposium, Chicago, IL, November 10, 2007.

*"Standards in Health Information Technology: Promise and Challenges"*. Invited presentation, Center for Biomedical Informatics, University of Chicago, Chicago, IL, November 14, 2007.

*"Electronic Medical Records"*. Presentation in graduate medical education core lecture series, Cedars-Sinai Medical Center, March 12, 2008.

*"Realizing the Full Potential of the Personal Health Record: Technical Challenges in Standards and Knowledge Representation"*. Invited presentation, George Mason University, Fairfax, VA, March 24, 2008.

*"Infrastructure Needed for Information Seeking: Standards and the PHR"*. Invited presentation, Kay-CGU Symposium 2008: A Course in Consumer Health Informatics, Claremont Graduate University, Claremont, CA, April 13, 2008.

*"Clinical Decision Support"*. Presentation in graduate medical education core lecture series, Cedars-Sinai Medical Center, August 13, 2008.

*Sistemas Clínicos de Ayuda a la Toma de Decisiones (CDSS): Una Guía Práctica para Desarrollar en su Propio Sistema y Mejorar Resultados*. Invited half-day tutorial (in Spanish), INFOLAC 2008 (Regional conference of the International Medical Informatics Association), Pilar, Buenos Aires, Argentina. October 29, 2008.

*Sistemas de Soporte para la Toma de Decisiones Aplicadas a Salud*. Invited panel participant (in Spanish), INFOLAC 2008 (Regional conference of the International Medical Informatics Association), Pilar, Buenos Aires, Argentina. October 30, 2008.

*Sistemas de Soporte para la Toma de Decisiones en Salud*. Invited keynote address (in Spanish), INFOLAC 2008 (Regional conference of the International Medical Informatics Association), Pilar, Buenos Aires, Argentina. November 1, 2008.

*"Clinical Decision Support: A Practical Guide to Developing Your Program to Improve Outcomes"*. Invited tutorial at the AMIA Fall Symposium. Washington, DC. November 8, 2008.

*Facilitating Personalized Health Care: Technical Challenges in the Implementation of the Personal Health Record*. Invited presentation, Mount Sinai School of Medicine, New York, NY. January 22, 2009.

*Contemporary Work in Clinical Decision Support Standards: Arden Syntax and Health Level Seven*. Invited presentation, Yale Center for Medical Informatics, New Haven, CT. April 20, 2009.

*Improving Clinical Care: The Present and Future State of Knowledge Representation for Clinical Decision Support*. Invited presentation, Department of Computer Science seminar series, University of Wisconsin – Milwaukee, Milwaukee, WI. May 15, 2009.

*"Standards in Clinical Decision Support: Activities in Health Level Seven"*. Organized workshop at the AMIA Annual Symposium, San Francisco, CA, November 14, 2009.

*"Clinical Decision Support: A Practical Guide to Developing Your Program to Improve Outcomes"*. Invited tutorial at the AMIA Annual Symposium. San Francisco, CA. November 15, 2009.

*"Clinical Decision Support: A Practical Guide to Developing Your Program to Improve Outcomes"*. Organized an invited tutorial at Medinfo 2010 – World Congress of Medical Informatics. Cape Town, South Africa. September 12, 2010.

*"The Future of Clinical Decision Support: Leveraging the Promise of Molecular Medicine"*. Organized panel at Medinfo 2010 – World Congress of Medical Informatics. Cape Town, South Africa. September 14, 2010.

*"Clinical Decision Support: HL7 Standards and Practical Applications"*. Invited tutorial at the Health Level Seven Working Group Meeting, Cambridge, MA. October 4, 2010.

*"The Cantabrigian Tales: Update on Activities in Clinical Decision Support in Health Level Seven"*. Invited presentation, National Library of Medicine, US National Institutes of Health. Bethesda, MD. November 9, 2010.

*"Standards in Clinical Decision Support: Activities in Health Level Seven"*. Organized workshop at the AMIA Annual Symposium, Washington, DC. November 13, 2010.

*"Clinical Decision Support: A Practical Guide to Developing Your Program to Improve Outcomes"*. Invited tutorial at the AMIA Annual Symposium. Washington, DC. November 14, 2010.

*"Soportar Las Decisiones Clínicas: Una Guía Práctica"*. Invited presentation (in Spanish) at the V Jornadas Universitarias de Sistemas de Información en Salud, Hospital Italiano, Buenos Aires, Argentina. December 6, 2010.

*"Actividades en Health Level Seven con respecto a Soporte a la Toma de Decisiones Clínicas"*. Invited presentation (in Spanish) at the V Jornadas Universitarias de Sistemas de Información en Salud, Hospital Italiano, Buenos Aires, Argentina. December 7, 2010.

*"Facilitating Patient-Centric Health Care: The Promise and Challenges of Personal Health Record Systems"*. Invited presentation, Medicine Grand Grounds, Georgetown University, Washington, DC. January 27, 2011.

*"Electronic Medical Records"*. Department of Medicine Noon Conference, Georgetown University, Washington, DC. April 27, 2011.

*"Clinical Decision Support: A Practical Guide to Developing Your Program to Improve Outcomes"*. Invited tutorial at the AMIA Annual Symposium. Washington, DC. October 23, 2011.

*"Sustainable Clinical Decision Support: The Challenge of Knowledge Management"*. Presentation to the Clinical Decision Support Technical Expert Panel, Agency for Healthcare Research and Quality, Rockville, MD. December 6, 2011.

*"Putting Data to Good Use: Infrastructure for and Applications of Clinical Research Informatics"*. Center for Biomedical Informatics seminar, Charles Drew University, Los Angeles, CA. January 6, 2012.

*"Personalized Health Care: Clinical Decision Support"*. Lecture in BID 503: Introduction to Health Informatics, Uniformed Services University of the Health Sciences, Bethesda, MD. January 31, 2012.

*"Clinical Decision Support: A Practical Guide to Developing Your Program to Improve Outcomes"*. Tutorial at the AMIA Annual Symposium. Chicago, IL. November 4, 2012.

*"Getting the Most Out of Your Data Using HL7 Clinical Decision Support Standards."* Annual Conference of the Healthcare Information and Management Systems Society. New Orleans, LA. March 5, 2013.

*"Clinical Decision Support: Applying Standards and Technology to Deliver Knowledge-Driven Interventions."* Invited presentation at the Centre for Research in Evidence-Based Practice, Bond University. Robina, Queensland, Australia. April 3, 2013.

*"Clinical Decision Support: Applying Standards and Technology to Deliver Knowledge-Driven Interventions."* Invited presentation at Standards Australia. Sydney, New South Wales, Australia. April 12, 2013.

*"Clinical Decision Support at the National Level: Current State and Implications for Pharmacy"*. Invited presentation at the summer meeting of the American Society of Health-System Pharmacists, Minneapolis, MN. June 4, 2013.

*"Clinical Decision Support: A Practical Guide to Developing Your Program to Improve Outcomes"*. Tutorial at the World Congress of Medical Informatics (Medinfo 2013). Copenhagen, Denmark. August 19, 2013.

*"Electronic Health Record Systems: Secondary Data Use and Clinical Decision Support"*. Department of Medicine Grand Rounds, Harbor-UCLA Medical Center, October 22, 2013.

*"Clinical Decision Support: A Practical Guide to Developing Your Program to Improve Outcomes"*. Tutorial at the AMIA Annual Symposium. Washington, DC. November 16, 2013.

*"The practice of clinical decision support: applying standards and technology to deliver knowledge-driven interventions"*. State of the Practice presentation at the AMIA Annual Symposium (with Del Fiol G, Kawamoto K and Strasberg HR). Washington, DC. November 19, 2013.

*"Quality Improvement with Electronic Health Record Systems: Secondary Data Use and Clinical Decision Support"*. Quality Improvement Seminar Series, Martin Luther King Jr Multi-specialty Ambulatory Care Center. Los Angeles, CA. January 31, 2014.

*"Clinical Decision Support: Leveraging Health Information Technology Standards to Improve Outcomes"*. Invited lecture at the Department of Computer Science and School of Population Health, University of Auckland, New Zealand. April 15, 2014.

*"Clinical Decision Support: A Practical Guide to Developing Your Program to Improve Outcomes"*. Organizer of tutorial at the World Congress of Medical Informatics (Medinfo 2015), São Paulo, Brazil. August 19, 2015.

*"Clinical Decision Support: Activities in Health Level Seven and Beyond"*. Organizer of workshop at the World Congress of Medical Informatics (Medinfo 2015), São Paulo, Brazil. August 23, 2015.

*"Clinical Decision Support: A Practical Guide to Developing Your Program to Improve Outcomes"*. Organizer of tutorial at the AMIA Annual Symposium. San Francisco, CA. November 15, 2015.

*"Clinical Decision Support: How to Apply Standards to Deliver Knowledge-Based Interventions"*. (organizer of panel presentation at the AMIA Annual Symposium, with Del Fiol G, Kawamoto K, Strasberg HR), San Francisco, CA. November 18, 2015. AMIA Annu Symp Proc 2015:195-197.

*"Electronic Health Record Systems and Quality Improvement: Registry Context"*. Panel member presentation at the 2<sup>nd</sup> annual Diabetes Day sponsored by the Los Angeles County Department of Health Services. The California Endowment, Los Angeles, CA. November 23, 2015.

*"Plus Ça Change: Health Information Technology Standards for Clinical Decision Support"*. Invited seminar presentation, School of Biomedical Informatics, University of Texas – Houston, Houston, TX. February 17, 2016.

*"Principles of Biomedical Informatics"*. Invited presentation in the DEVELOP@CDU seminar series, Urban Health Institute, Charles Drew University, Los Angeles, CA. October 24, 2016.

*"Clinical Decision Support: A Practical Guide to Developing Your Program to Improve Outcomes"*. Organizer of tutorial at the AMIA Annual Symposium. Chicago, IL. November 13, 2016.

Jenders RA, Strasberg HR. *"Getting the Most Out of Your Data Using HL7 Clinical Decision Support Standards"*. Presentation at the annual conference of the Healthcare Information and Management Systems Society (HIMSS). Orlando, FL. February 20-21, 2017.



“*Key Issues in Research Registries: Los Angeles Data Resource*”. Special seminar, School of Nursing, Rutgers University, Newark, NJ. March 10, 2017.

“*Improving the Utility of Registries and Other EHRs with Standards*”. Invited seminar presentation, Rutgers Institute for Translational Medicine and Science, Rutgers University, New Brunswick, NJ. June 20, 2017.

Jenders RA, Adlassnig KP. “*Standards in Clinical Decision Support: Activities in Health Level Seven and Beyond*.” Workshop presented at the World Congress of Medical and Health Informatics (Medinfo 2017), Hangzhou, China. August 23, 2017.

“*La Importancia de Estándares: Mejorar la Utilidad de los Registros y Otros Sistemas de Información en Salud*”. (“*The Importance of Standards: Improving the Utility of Registries and other Health Information Systems*”). Invited presentation (in Spanish) at the XII Jornadas Universitarias de Sistemas de Información en Salud. Buenos Aires, Argentina. November, 2017.

“*El Apoyo de Tomar Las Decisiones Clínicas: Una Guía Práctica para Desarrollar el Programa para Mejorar los Resultados*”. (“*Clinical Decision Support: A Practical Guide for Developing a Program for Improving Results*”). Invited presentation (in Spanish) at the XII Jornadas Universitarias de Sistemas de Información en Salud. Buenos Aires, Argentina. November, 2017.

“*Clinical and Research Registries in an Era of Big Data*”. Invited presentation in the Friday Noon Lecture Series, Charles Drew University, Los Angeles, CA. April 6, 2018.

“*Resources for Residency Research*”. Presentation to residents in the Department of Family Medicine, Charles Drew University, Los Angeles, CA. July 27, 2018.

Jenders RA, Strasberg HR. “*Getting the Most Out of Your Data Using HL7 Clinical Decision Support Standards*”. Presentation at the Healthcare Information and Management Systems Society (HIMSS) Annual Meeting. Orlando, FL. February 12, 2019.

“*Improving the Utility of Health Data Repositories with Standards*”. Invited presentation in the Informatics Seminar Series, Cedars-Sinai Medical Center, Los Angeles, CA. April 2, 2019.

Jenders RA, Adlassnig KP, Haug P. “*Discovering and Contributing to International Standards Development for Clinical Decision Support*.” Workshop at the World Congress of Medical Informatics (Medinfo 2019), Lyon, France. August 26, 2019.

Jenders RA, Del Fiol G, Haug P, Kawamoto K, Rhodes B. “*Health Information Technology Standards for Implementing and Using Clinical Decision Support: Latest Developments and What You Need to Know*.” Workshop presented at the American Medical Informatics Association Annual Symposium, Washington, DC, November 16, 2019.

Jenders RA. “*Registries, EHR Systems and Standards*”. Invited presentation at the Rutgers University Nursing Seminar (NINF 5145), Newark, NJ (Virtual). March 5, 2020.

Jenders RA. “*Los Estándares para el Apoyo de Decisiones Clínicas: Temas y Actividades Recientes*”. Invited presentation (in Spanish) at the Simposio de Inteligencia Artificial in the XV Jornadas de Informática en Salud (JIS2020), Hospital de Buenos Aires, Argentina (Virtual). November 4, 2020.

Jenders RA, Del Fiol G, Haug P, Kawamoto K, Rhodes B, Strasberg HR. “*Health Information Technology Standards for Implementing and Using Clinical Decision Support: Latest Developments and What You Need to Know.*” Workshop presented at the American Medical Informatics Association Clinical Informatics Conference (Virtual). May 18, 2021.

Jenders RA, Del Fiol G, Haug P, Kawamoto K, Rhodes B, Strasberg HR. “*Clinical Decision Support Standards Using Health Level Seven International’s Fast Healthcare Interoperability Resources: Latest Developments and What You Need to Know.*” Workshop presented at the American Medical Informatics Association Clinical Informatics Conference, San Diego, CA, October 30, 2021.

Jenders RA, Del Fiol G, Haug P, Kawamoto K, Rhodes B, Strasberg HR. “*Clinical Decision Support Standards to Facilitate Value-Based Health Care and Quality Improvement: Latest Developments and What You Need to Know*” Workshop presented at the American Medical Informatics Association Clinical Informatics Conference, Washington, DC, November 5, 2022.

## Publications

### Research Papers

#### A. Peer-Reviewed

1. Zielstorff RD, Barnett GO, Fitzmaurice JB, Oliver DE, Ford-Carleton P, Thompson BT, Estey G, Eccles R, Martin M, Jenders R. Providing clinicians with problem-based access to knowledge: troubleshooting pulmonary artery catheter waveforms. [Proc Annu Symp Comput Appl Med Care 1993::351-5.](#)
2. Jenders RA, Morgan M, Barnett GO. Use of open standards to implement health maintenance guidelines in a clinical workstation. [Comput Biol Med 1994;24:385-390.](#)
3. Jenders RA, Estey G, Martin M, Hamilton G, Ford-Carleton P, Thompson BT, Oliver DE, Eccles R, Barnett GO, Zielstorff RD, Fitzmaurice JB. Indexing guidelines: applications in use of pulmonary artery catheters and pressure ulcer prevention. [Proc Annu Symp Comput Appl Med Care 1994::802-6.](#)
4. Jenders RA, Hripcsak G, Sideli RV, DuMouchel W, Zhang H, Cimino JJ, Johnson SB, Sherman EH, Clayton PD. Medical decision support: experience with implementing the Arden Syntax at the Columbia-Presbyterian Medical Center. [Proc Annu Symp Comput Appl Med Care 1995::169-73.](#)
5. Sherman EH, Hripcsak G, Starren J, Jenders RA, Clayton P. Using intermediate states to improve the ability of the Arden Syntax to implement care plans and reuse knowledge. [Proc Annu Symp Comput Appl Med Care 1995::238-42.](#)
6. Hripcsak G, Clayton PD, Jenders RA, Cimino JJ, Johnson SB. Design of a clinical event monitor. [Comput Biomed Res 1996;29\(3\):194-221.](#)
7. Jenders RA, Dasgupta B. Assessment of a knowledge-acquisition tool for writing medical logic modules in the Arden Syntax. [Proc AMIA Annu Fall Symp 1996::567-71.](#)
8. Jenders RA, Sujansky W, Broverman C, Chadwick M. Toward improved knowledge sharing: assessment of the HL7 Reference Information Model to support medical logic module queries. [Proc AMIA Annu Fall Symp 1997::308-12.](#)

9. Jenders RA, Dasgupta B, Mercedes D, Clayton PD. Design and implementation of a multi-institution immunization registry. [Medinfo 1998;9 Pt 1:45-49.](#)
10. Jenders RA, Huang H, Hripcsak G, Clayton PD. Evolution of a knowledge base for a clinical decision support system encoded in the Arden Syntax. [Proc AMIA Symp. 1998;:558-62.](#)
11. Albert SM, Costa R, Merchant C, Small S, Jenders RA, Stern Y. Hospitalization and Alzheimer's Disease: results from a population-based study. [J Gerontol A Biol Sci Med Sci 1999;54\(5\):M267-71.](#)
12. Jenders RA, Dasgupta B, Mercedes D, Fries F, Stambaugh K. Use of a hospital practice management system to provide initial data for a pediatric immunization registry. [Proc AMIA Symp 1999; 286-290.](#)
13. Chuang JH, Jenders RA. Trial of labor versus elective repeat cesarean section for women with a previous cesarean section: a decision analysis. [Proc AMIA Symp 1999; 226-230.](#)
14. Wang D, Jenders RA, Dasgupta B. Translating national childhood immunization guidelines to a computer-based reminder recall system within an immunization registry. [Proc AMIA Symp 1999; 994-998.](#)
15. Jenders RA, Fries F, Cheng F, See DK, Stambaugh K, Wang D. An immunization registry as a multi-institution electronic record. Proc Toward an Electronic Patient Record 2000. Newton, MA: Medical Records Institute, 2000; 800-803.
16. Chuang JH, Hripcsak G, Jenders RA. Considering clustering: a methodological review of clinical decision support system studies. Proc the Medical Informatics Symposium in Taiwan 2000;1-4.
17. Wang D, Jenders RA. Model-based immunization information routing. [Proc AMIA Symp 2000;:878-882.](#)
18. Chuang J, Hripcsak G, Jenders RA. Considering clustering: a methodological review of clinical decision support system studies. [Proc AMIA Symp 2000;:146-150.](#)
19. Jenders RA, Shah A. Challenges in using the Arden Syntax for computer-based nosocomial infection surveillance. ([Proc AMIA Symp 2001;:289-293](#)). J Am Med Inform Assoc 2002;9:S98-S101.
20. Jenders RA, Dasgupta B. Challenges in implementing a knowledge editor for the Arden Syntax: knowledge base maintenance and standardization of database linkages. [Proc AMIA Symp 2002;:355-359.](#)
21. Jenders RA, Corman R, Dasgupta B. Making the standard more standard: a data and query model for knowledge representation in the Arden Syntax. [Proc AMIA Symp 2003;:323-330.](#)
22. Jenders RA, Sailors RM. Convergence on a standard for representing clinical guidelines: work in Health Level Seven. [Stud Health Technol Inform 2004;107\(Pt 1\):130-4.](#)
23. Teich JM, Osheroff JO, Pifer F, Sittig DF, Jenders RA. Clinical decision support in electronic prescribing: recommendations and an action plan: report of the joint clinical decision support workgroup. [J Am Med Inform Assoc 2005;12\(4\):365-376.](#)
24. Jenders RA, Osheroff JA, Sittig DF, Pifer EA, Teich JM. Lessons in clinical decision support deployment: synthesis of a roundtable of medical directors of information systems. [AMIA Annu Symp Proc. 2007 Oct 11:359-63.](#)

25. Herbst J, Jenders R, McKenna R, Marchevsky A. Evidence-based criteria to help distinguish metastatic breast cancer from primary lung adenocarcinoma on thoracic frozen section. [Am J Clin Pathol 2009;131\(1\):122-128.](#)
26. Wright A, Phansalkar S, Bloomrosen M, Jenders RA, Bobb AM, Halamka JD, Kuperman G, Payne TH, Teasdale S, Vaida AJ, Bates DW. Best practices in clinical decision support: the case of preventive care reminders. [Appl Clin Inf 2010;1:331-45.](#)
27. Stanfill MH, Williams M, Fenton SH, Jenders RA, Hersh WR. A systematic review of automated clinical coding and classification systems. [J Am Med Inform Assoc 2010;17\(6\):646-51.](#)
28. Kawamoto K, Del Fiore G, Lobach DF, Jenders RA. Standards for scalable clinical decision support: need, current and emerging standards, gaps, and proposal for progress. [Open Med Inform J 2010;4:235-44.](#)
29. Phansalkar S, Wright A, Kuperman GJ, Vaida AJ, Bobb AM, Jenders RA, Payne TH, Halamka J, Bloomrosen M, Bates DW. Towards meaningful medication-related clinical decision support: recommendations for an initial implementation. [Appl Clin Inf 2011;2:50-62.](#) PMID 23616860.
30. Goodwin RM, Abhyankar S, Zuckerman AE, Copeland SM, Sarkar D, Cuthbert C, Therrell BL, Ojodu J, Lloyd-Puryear MA, Jenders RA, McDonald CJ. Newborn screening health information exchange: updated guidance for coding and HL7 message exchange. Proc 2011 Newborn Screening and Genetic Testing Symposium; San Diego, CA: November 7-10, 2011.
31. SPS3 Investigators, Benavente OR, Hart RG, McClure LA, Szychowski JM, Coffey CS, Pearce LA. (Jenders R as collaborator). Effects of clopidogrel added to aspirin in patients with recent lacunar stroke. [N Engl J Med 2012;367\(9\):817-25.](#)
32. Kawamoto K, Jacobs J, Welch BM, Huser V, Paterno MD, Del Fiore G, Shields D, Strasberg HR, Haug PJ, Liu Z, Jenders RA, Rowed D, Chertcoff D, Fehre K, Adlassnig K-P, Curtis C. Clinical information system services and capabilities desired for scalable, standards-based, service-oriented clinical decision support: assessment of the Health Level 7 Clinical Decision Support Work Group. [AMIA Annu Symp Proc 2012:446-455.](#) PMID 23304315. PMCID: PMC3540445.
33. SPS3 Investigators, Benavente OR, Coffey CS, Conwit R et al. (Jenders R as collaborator). Blood-pressure targets in patients with recent lacunar stroke: the SPS3 randomised trial. [Lancet 2013;382\(9891\):507-15.](#) PMID: 23726159.
34. George S, Moran E, Duran N, Jenders RA. Using animation as an information tool to advance health research literacy among minority participants. [AMIA Annu Symp Proc 2013;475-484.](#) PMID: 24551351. PMCID: PMC3900192.
35. Pearce LA, McClure LA, Anderson DC, Jacova C, Sharma M, Hart RG, Benavente OR, SPS3 Investigators (including Jenders R). Effects of long-term blood pressure lowering and dual antiplatelet treatment on cognitive function in patients with recent lacunar stroke: a secondary analysis from the SPS3 randomised trial. [Lancet Neurol 2014;13\(12\):1177-85.](#) PMID: 25453457. PMCID PMC4284947.
36. Jenders RA. Advances in clinical decision support: highlights of practice and the literature 2015-2016. [Yearb Med Inform 2017 Aug;26\(1\):125-132.](#) PMID 29063552.

37. Van de Velde S, Kunnamo I, Roshanov P, Kortteisto T, Aertgeerts B, Vandvik PO, Flottorp S, GUIDES expert panel (including Jenders RA). The GUIDES checklist: development of a tool to improve the successful use of guideline-based computerised clinical decision support. *Implement Sci* 2018;13(1):86 (1-12). PMID 29941007. PMCID PMC6019508.
38. Jenders RA, Adlassnig KP, Fehre K, Haug P. Evolution of the Arden Syntax: key technical issues from the standards development organization perspective. [Artif Intell Med 2018 Nov;92:10-14](#). PMID:27773563.
39. Mathieu C, Dandona P, Gillard P, Senior P, Hasslacher C, Araki E, Lind M, Bain SC, Jabbour S, Arya N, Hansen L, Thorén F, Langkilde AM; DEPICT-2 Investigators (including Jenders R). Efficacy and safety of dapagliflozin in patients with inadequately controlled Type 1 diabetes (the DEPICT-2 study): 24-week results from a randomized controlled trial. [Diabetes Care 2018;41\(9\):1938-1946](#). PMID 30026335.
40. Newsome PN, Buchholtz K, Cusi K, Linder M, Okanoue T, Ratziu V, Sanyal AJ, Sejling A, Harrison SA, NN9931-4296 Investigators (including Jenders RA). A placebo-controlled trial of subcutaneous semaglutide in nonalcoholic steatohepatitis. [N Engl J Med 2021;384\(12\):1113-1124](#).
41. Ogunyemi OI, George S, Mukherjee S, Gandhi M, Jenders RA. Centering “TechQuity” through biomedical informatics centers at minority-serving academic institutions providing informatics solutions for urban safety-net settings. *J Health Care Poor Underserved* 2021; 32(2 Suppl): 300-317.
42. Soares A, Jenders RA, Harrison R, Schilling L. A comparison of Arden Syntax and Clinical Quality Language as knowledge representation formalisms for clinical decision support. [Appl Clin Inform 2021;12:495–506](#). PMID: 34192772 PMCID: PMC8245210.
43. Strasberg HR, Rhodes B, Del Fiol G, Jenders RA, Haug P, Kawamoto K. Contemporary clinical decision support standards using Health Level Seven International (HL7) Fast Healthcare Interoperability Resources (FHIR). [J Am Med Inform Assoc 2021; 28\(8\):1796-1806](#). PMID: 34100949 PMCID: PMC8324242.
44. Frías JP, Davies MJ, Rosenstock J, Pérez Manghi FC, Fernández Landó L, Bergman BK, Liu B, Cui X, Brown K; SURPASS-2 Investigators (including Jenders RA). Tirzepatide versus semaglutide once weekly in patients with Type 2 Diabetes. [N Engl J Med. 2021 Aug 5;385\(6\):503-515](#).

B. *Peer-Reviewed (In Press)*

C. *Peer-Reviewed (Submitted)*

1. Jenders RA. Evaluation of the proposed Arden Syntax v3.0 to represent query data mappings using FHIR. Submitted to World Congress of Medical Informatics (Medinfo 2023).

Chapters

1. Barnett GO, Piggins JL, Raila W, Jenders RA, Chueh HC, Forman B. Information technology. Chapter in Tosteson DC, Adelstein SJ, Carver ST eds. *New pathways to medical education: learning to learn medicine at Harvard*. Cambridge: Harvard University Press, 1994; 100-113.
2. Jenders RA. Decision Support at the Columbia-Presbyterian Medical Center. Chapter in Murphy GF, Hanken MA, Waters KA eds. *Electronic Health Records: Changing the Vision*. Philadelphia: WB Saunders,

1999; 305-315.

3. Mendonça EA, Jenders R, Lussier YA. Clinical decision support systems. Chapter in Beaver K ed. Healthcare Information Systems (second edition). Boca Raton: CRC Press, 2003; 221-235.
4. Osheroff JA, Pifer EA, Sittig DF, Jenders RA, Teich JM. Clinical Decision Support Implementers' Workbook. (book). [Chicago: Healthcare Information and Management Systems Society, 2004.](#)
5. Osheroff JA, Pifer EA, Teich JM, Sittig DF, Jenders RA. Improving Outcomes with Clinical Decision Support: An Implementer's Guide. (book). Chicago: Healthcare Information and Management Systems Society, 2005.
6. Jenders RA. Decision rules and expressions. Chapter in Greenes RA, Editor. Clinical Decision Support: The Road Ahead. San Diego: Academic Press, 2007;267-280.
7. Osheroff JA, Teich JM, Levick D, Saldana L, Velasco FT, Sittig DF, Rogers KM, Jenders RA. Improving Outcomes with Clinical Decision Support: An Implementer's Guide, Second Edition (book). Chicago: Healthcare Information and Management Systems Society, 2012; 323 pp.
8. Jenders RA. Decision rules and expressions. Chapter in Greenes RA ed. Clinical Decision Support: The Road to Broad Adoption 2ed. Amsterdam: Elsevier, 2014;417-434.
9. Jenders RA. Clinical Decision Support. Chapter 7 in Hersh WR ed. Health Informatics Practical Guide 8ed. Morrisville, NC: Lulu Press, 2022.

#### Letters to the Editor

1. Jenders RA. Classification of psychiatric disorders. [JAMA 2005;294\(15\):1899.](#)

#### Reviews

1. Scherpbier HJ, Klein SR, Perreault LE, Jenders RA. Aspects of knowledge-sharing using the Arden Syntax. Proceedings of the Annual Health Information and Management Systems Society Conference, 1996;2:110-122.
2. Ganesh S, Jenders RA, Quinn MM, Scherpbier HJ. Arden Syntax for clinical decision support: tutorial, implementation strategies, and case studies. Proceedings of the Annual Health Information and Management Systems Society Conference 1997;1:479-485.
3. Jenders RA, Quinn MM, Scherpbier HJ. Clinical decision support: implementation strategies, case studies and Arden Syntax. Proceedings of the Annual Health Information and Management Systems Society Conference 1998;1:572-579.
4. AHIMA Computer-assisted Coding e-HIM Work Group. Delving into computer-assisted coding. [JAHIMA 2004;75\(10\):48A-48H.](#)

#### Editorials

1. Barnett GO, Jenders RA, Chueh HC. The computer-based clinical record--where do we stand? [Ann Int Med 1993; 119:1046-8.](#)
2. Adlassnig KP, Haug P, Jenders RA. Arden Syntax: then, now, and in the future. [Artif Intell Med 2018 Nov;92:1-6.](#) PMID 30528060.

### Abstracts

1. Robins HI, Storer B, Longo WL, Sauerssig J, Jenders R, Shecterle LM, Hugander AH, Hawkins MJ, Sielaff KC, Borden EC. Interferon alpha (IFN-a) and Whole Body Hyperthermia (WBH): A Phase I Trial. Proceedings of American Association for Cancer Research 1986; 27:205. (misspelling in my name)
2. Barnett GO, Hoffer EP, Packer MS, Famiglietti KT, Kim RJ, Cimino C, Feldman MJ, Oliver DE, Kahn JA, Jenders RA, Gnassi JA. DXplain - demonstration and discussion of a decision support system. [Proc Annu Symp Comput Appl Med Care 1992;;822.](#)
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