

Curriculum Vitae

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Charlene R. Weir, PhD

PERSONAL DATA

Name: Charlene R. Weir
Citizenship: United States

EDUCATION

<u>Years</u>	<u>Degree</u>	<u>Institution (Area of Study)</u>
1969 - 1973	B.S.	Utah State University (Psychology) and Math) Logan, UT
1974 - 1977	B.S.N.	University of Utah, College of Nursing (Nursing) Salt Lake City, UT
1982 - 1985	M.S.	University of Texas (Nursing (Adult Health))
1986 - 1993	Ph.D.	University of Utah (Social Cognitive Psychology) Salt Lake City, UT

CURRENT LICENSES/CERTIFICATIONS: Utah License RN

ACADEMIC HISTORY

Biomedical Informatics 03/15/1997 – Present

03/15/1997 Hire, Clinical/Volunteer Track, Clinical Assistant Professor
07/01/2002 Track Switch, Adjunct Track, Adjunct Assistant Professor
11/16/2006 Track Switch, Research Track, Research Associate Professor
07/01/2014 Promotion, Professor Research track
07/01/2015 Director of Graduate Studies

Nursing (Health Systems and Community-Based Care)

07/01/1994 Hire, Research Track, Research Assistant Professor
07/01/2006 Promotion, Research Associate Professor
07/01/2014 Promotion, Research Professor

University of Utah and Veteran's Affairs Positions

2024 -	Retired
2015–2024	Research Professor, Department of Biomedical Informatics, University of Utah
2015 - 2021	Director of Graduate Studies, Department of Biomedical Informatics, University of Utah
2011 - 2015	Associate Director VA HSR&D IDEAS Center, SLC, UT
2006 - 2015	Associate Professor, Research, Department of Biomedical Informatics
2011 – 2015	Director, Evaluation Core, CCTS, University of Utah
2000 – 2011	Director Education and Evaluation, Geriatric Research Clinical Care (GRECC), SLC VA

1997 - 2000	Project Manager, CPRS Implementation, Office of Information, SLC VA
1994 - 2007	Coordinator of Special Projects (Usability Research), VA Salt Lake City Information Resources Management Office, Salt Lake City, UT
1994 - 1997	Evaluation Specialist and Coordinator of Special Projects, VA SLC Information Resources Management Office (IRMFO), Salt Lake City, UT
1992 – 1997	Evaluation Specialist, Office of Quality Improvement, VHA national office field position, SLC, UT
1990 – 1992	Evaluation Specialist, Office of the Medical Inspector, VHA national office field position, SLC, UT
1992 - 1997	Health Services Research Associate, VA Salt Lake Education Center (RMEC)

ADMINISTRATIVE EXPERIENCE

1991 - 1998	Consultant, InterWest Quality of Care
1992 - 1993	Assistant, legislative Task Force on Quality of Health Care in Utah
1994 - 2004	Consultant, Information Technology Conference VA - Organize and taught several seminars on informatics in the clinical track for national conference in the Veterans Health Administration.
1995 - 1996	Consultant, Decision Support Work Group Veterans Health Administrative - Advisory position on issues of medical decision making, motivation and change in terms of implementing computerized decision support.
1995 - 1996	Consultant, Practice Parameters Work Group Veterans Health, Advisory position on issues of measuring and monitoring variation of practice patterns and their impact on health outcomes and how that relates to computer applications in the VA.
1995 - 1996	Consultant, Medical Care Cost Recover Data Capture Group, Veterans Health Administration - Oversight of evaluation contract to identify costs and benefits of several data capture methodologies.
1996 - 1998	Member, Office of Employee Education, Technology Advisory Group, Consultation and Advisory Position for Identification of Technology Information Needs for VAs Information System (VISTA).
1997 - 1999	Member, Clinical Applications Resource Group (CARG) for OCIO, VA
1997 - 2000	Director, CPRS Implementation, SLCVAMC
2002 - 2015	Member, VA VISN 19 Education Advisory Group
2002 - 2007	Chair, WIBR Education Committee, SLCVAMC
2003 - 2005	Associate Coordinator, Salt Lake Informatics and Patient Safety Enhancement Program (SLIPS) SLC VA
2003 - 2008	Chair, Nursing Research Council, SLCVAMC
2004 - 2018	Member, VA VISN 19 GRECC Rocky Mountain Geriatric Conference Planning Committee yearly
2005 - 2009	Member, National VHA Health Services Research Evidence-Based Development Program Advisory Group
2005 - 2019	Member, National VHA Nursing Research Advisory Group
2007 - 2018	Member, VA VISN 19 Research Advisory Group
2008 – 2018	Member, VA Office of Nursing Service Informatics Advisory Group (ONSI)
2009 - 2010	Member, Interagency Clinical Informatics Board (ICIB) Clinical Systems Design (CDS) subcommittee (to develop shared Electronic Record between Department of Defense and the VA)
2009 - 2010	Participant, VA IT development for NSR20100405 Integrated Medication Manager (IMM) Phase 2a Decision Support (Medication Management Decision Support)
2010 -2010	Participant, VA Point of Care Support of Clinical Decision Making and Just in Time Provider Education, Vanderbilt Innovation Center Advisory

2010 - 2017	Participant, iEHR Development and Planning Committee, VHA Office of Informatics
2011 – 2011	Participant, Delphi Panel on Decision Support in Computerized Provide Order Entry
2016 – 2018	Chair, Evaluation Workgroup, AMIA
2015 - 2021	Qualitative and Survey Methods Core (QSM) in Statistics Design and Biostatistics (SDBC)department.
2019 - 2019	Participant in Internal Review of College of Nursing
2018 - 2021	Internal Reviewer Annually for CCTS, College of Nursing (Burton/Synergy) and School of Medicine grants (yearly)
2014- Present	Multiple Others

GRANT REVIEW COMMITTEE/STUDY SECTION

2000 - 2005	VA Health Services Research, Health Services Panel
2005 - 2017	VA Health Services Research, Implementation Panel
2017 - Present	ad hoc NIH reviewer

PROFESSIONAL COMMUNITY ACTIVITIES

1992 - 1993	Assistant, Veterans Health Administration, Legislative Task Force on Quality of Health Care in Utah
1992 - 1993	Member, State of Utah, Legislative Task Force on Quality of Health Care in Utah - Assisted Dr. John Williamson with consulting on task force issues of disseminating practice guidelines, clinician behavior change, and general quality management issues
1994 - 2004	Consultant, Veterans Administration, Information Technology Conference
1995 - 1996	Member, Veterans Health Administration, Office of Quality Management - Conducted evaluation study on nation-wide quality performance measures for the VA
1995 - 1996	Member, Veterans Health Administration, Decision Support Work Group
1995 - 1996	Member, Veterans Health Administration, Practice Parameters Work Group
1995 - 1996	Member, Veterans Health Administration, Medical Care Cost Recover Data Capture Group
1995 - 1996	Member, Veterans Health Administration, Practice Parameters Work Group - Advisory position on issues of measuring and monitoring variation of practice patterns and their impact on health outcomes and how that relates to computer applications in the VA
1995 - 1996	Member, Veterans Health Administration, Medical Care Cost Recover Data Capture Group - Oversight of evaluation contract to identify costs and benefits of several data capture methodologies
1995 - 1996	Member, Veterans Health Administration, Decision Support Work Group - Advisory position on issues of medical decision making, motivation and change in terms of implementing computerized decision support
1996 - Present	Member, Veterans Administration Salt Lake City Health Care System, Office of Employee Education, Technology Advisory Group. Consultation and advisory position for identification of technology information for VA's information system (VISTA)
1996 - Present	Member, Veterans Administration Salt Lake City Health Care System, Office of Employee Education, ClinWebb Advisory Group - Consultation and advisory position for group involved in constructed educational web site to improve VA clinician's access to information about the national computerized information system (VISTA)
1996 - 1998	Member, Veterans Administration, Office of Employee Education, Technology Advisory Group
1997 - 2000	Coordinator, Salt Lake Veterans Administration Medical Center, CPRS Implementation
1997 - 1999	Member, Veterans Administration, Clinical Applications Resource Group (CARG) for OCIO
2000 - 2015	Member, Veterans Administration, VA VISN 19 Education Advisory Group
2002 - 2015	Chair, Salt Lake Veterans Administration Medical Center, WIBR Education Committee
2003 - 2016	Chair, Salt Lake Veterans Administration Medical Center, Nursing Research Council

2003 - 2017	Associate Director, Salt Lake Veterans Administration Medical Center, Salt Lake Informatics and Patient Safety Enhancement Program (IDEAS)
2003-2021	Member, PCI Workgroup, AMIA
2003-2012	Member, Decision Support Workgroup, AMIA
20013-2016	Member, Evaluation Workgroup, AMIA
2016-20018	Chair, Evaluation Workgroup, AMIA

PAST RESEARCH FUNDING (upon request)

TEACHING RESPONSIBILITIES/ASSIGNMENTS

Education Administration

2000 – 2011	Director Education and Evaluation, Geriatric Research Clinical Care (GRECC), SLC VA
	- Managed, Trained, and Designed Educational Content for 22 Associated Health Trainees supported by GRECC - Created over 32 education programs for MDs, Residents, Nurses, and other clinicians at the SLC VA on the topics of aging programs ranged from in-person to digital online.
2000 – 2011	Director Education and Evaluation, Geriatric Research Clinical Care (GRECC), SLC VA
2012 – 2013	Coordinated Admissions program for Department of Biomedical Informatics, University of Utah
2014 – 2015	Member of Education Committee, Department of Biomedical Informatics, University of Utah
2016 – 2017	Chair, Education Committee, Department of Biomedical Informatics, University of Utah
2015 – 2020	Director of Graduate Studies, Department of Biomedical Informatics, University of Utah

Course and Curriculum Development

1996 – 1998	Introduction to Systems Analysis, College of Nursing, University of Utah
2000 – 2011	Introduction to Aging Demographics and Clinical Issues for VA Associated Health Trainees
2007 - 2021	Research Design in Informatics, created and taught yearly for PhD students, Department of Biomedical Informatics.
2015 – 2027	Meta-analysis Methods. Masters of Clinical Science Class, School of Medicine
2017 – 2019	Measurement and Survey Design. Masters of Clinical Science Class, School of Medicine
2008 -2020	Human Systems Interaction, in-person lecture class, (new curriculum) Department of Biomedical Informatics
2018 -2020	Human Systems Interaction online new curriculum, Department of Biomedical Informatics
2014 – 2018	Co-taught Health Measurement and Survey Methods for the “Masters of Science in Clinical Investigation” program, School of Medicine for MDs seeking MS.

ADVISING/MENTORING (upon request)

PEER-REVIEWED JOURNAL ARTICLES

1. Sansone C, Sachau DA, **Weir C** (1989). Effects of instruction on intrinsic interest: the importance of context. *J Pers Soc Psychol*, 57(5), 819-29.
2. Sansone C, **Weir C**, Harpster L, Morgan C (1992). Once a boring task always a boring task? Interest as a self-regulatory mechanism. *J Pers Soc Psychol*, 63(3), 379-90.
3. **Weir C**, Lincoln M, Roscoe D, Turner C, Moreshead G (1994). Dimensions associated with successful implementation of a hospital based integrated order entry system. *Proc Annu Symp Comput Appl Med Care*, 653-7.
4. Lincoln MJ, **Weir C**, Moreshead G, Kolodner R, Williamson J (1994). Creating and evaluating the Department of Veterans Affairs electronic medical record and national clinical lexicon. *Proc Annu Symp Comput Appl Med Care*, 1047.
5. **Weir C**, Lincoln M, Roscoe D, Moreshead G (1995). Successful implementation of an integrated physician order entry application: a systems perspective. *Proc Annu Symp Comput Appl Med Care*, 790-4.
6. Quaal SJ, **Weir CR** (1995). Effect of head of bed position on pulmonary artery pressure measurements: A review of the literature. [Review]. *Online J Knowl Synth Nurs*, 1(15).
7. Smith CB, Goldman RL, Martin DC, Williamson J, **Weir C**, Beauchamp C, Ashcraft M (1996). Overutilization of acute-care beds in Veterans Affairs hospitals. *Med Care*, 34(1), 85-96.
8. **Weir C**, Johnsen V, Roscoe D, Cribbs A (1996). The impact of physician order entry on nursing roles. *Proc AMIA Annu Fall Symp*, 714-8.
9. Lange LL, Haak SW, Lincoln MJ, Thompson CB, Turner CW, Weir C, Foerster V, Nilasena D, Reeves R (1997). Use of Iliad to improve diagnostic performance of nurse practitioner students. *J Nurs Educ*, 36(1), 36-45.
10. Goldman, R.L., **Weir**, C.R., Turner, C., and Smith, C (1997). The Validity of Utilization Management Criteria for Psychiatry. *Am J Psychiatry*, 154(3), 349-54.
11. **Weir CR** (1998). Linking information needs with evaluation: the role of task identification. *Proc AMIA Symp*, 310-4.
12. Meyer KE, Altamore R, Chapko M, Miner M, McGann M, Hill E, Van Duesen-Lucas C, Bates M, **Weir C**, Lincoln T (1998). The need for a thoughtful deployment strategy: evaluating clinicians' perceptions of critical deployment issues. *Stud Health Technol Inform*, 52(2), 854-8.
13. Berg CA, Strough JN, Calderone KS, Sansone C, **Weir C** (1998). The role of problem definitions in understanding age and context effects on strategies for solving everyday problems. *Psychol Aging*, 13(1), 29-44.

14. Gohlinghorst S, **Weir** C, Nutt T, McCarthy C (2000). Computer needs assessment based on nursing tasks. *Proc AMIA Symp*, 295-9.
15. **Weir** C, McCarthy C, Gohlinghorst S, Crockett R (2000). Assessing the implementation process. *Proc AMIA Symp*, 908-12.
16. Morf, C and **Weir**, C (2000). Narcissism and Intrinsic Motivation: The Role of Goal Congruence. *J Exp Soc Psychol*, 36, 424-438.
17. **Weir** CR, Crockett R, Gohlinghorst S, McCarthy C (2000). Does user satisfaction relate to adoption behavior?: an exploratory analysis using CPRS implementation. *Proc AMIA Symp*, 913-7.
18. Nebeker JR, Hurdle JF, Hoffman J, Roth B, **Weir** CR, Samore MH (2001). Developing a taxonomy for research in adverse drug events: potholes and signposts. *Proc AMIA Symp*, 493-7.
19. **Weir** CR, Hurdle JF, Felgar MA, Hoffman JM, Roth B, Nebeker JR (2003). Direct text entry in electronic progress notes. An evaluation of input errors. *Methods Inf Med*, 42(1), 61-7.
20. Hurdle JF, **Weir** CR, Roth B, Hoffman J, Nebeker JR (2003). Critical gaps in the world's largest electronic medical record: Ad Hoc nursing narratives and invisible adverse drug events. *AMIA Annu Symp Proc*, 309-12.
21. Satsangi S, *Weir* CR, Morris AH, Warner HR (2003). Cognitive evaluation of the predictors of use of computerized protocols by clinicians. *AMIA Annu Symp Proc*, 574-8.
22. **Weir** C, Hoffman J, Nebeker JR, Hurdle JF (2005). Nurse's role in tracking adverse drug events: the impact of provider order entry. *Nurs Adm Q*, 29(1), 39-44.
23. Nebeker JR, Hoffman JM, **Weir** CR, Bennett CL, Hurdle JF (2005). High rates of adverse drug events in a highly computerized hospital. *Arch Intern Med*, 165(10), 1111-6.
24. **Weir** CR, Hicken BL, Rappaport HS, Nebeker JR (2006). Crossing the quality chasm: the role of information technology departments. *Am J Med Qual*, 21(6), 382-93.
25. Phansalkar S, Sward KA, **Weir** CR, Morris AH (2007). Mapping clinicians' perceptions about computerized protocol use to an IT implementation framework. *Medinfo*, 129(Pt 2), 1098-101.
26. **Weir** CR, Nebeker JJ, Hicken BL, Campo R, Drews F, Lebar B (2007). A cognitive task analysis of information management strategies in a computerized provider order entry environment. *J Am Med Inform Assoc*, 14(1), 65-75.
27. **Weir** CR, Nebeker JR (2007). Critical issues in an electronic documentation system. *AMIA Annu Symp Proc*, 786-90.
28. Phansalkar S, **Weir** CR, Morris AH, Warner HR (2008). Clinicians' perceptions

- about use of computerized protocols: a multicenter study. *Int J Med Inform*, 77(3), 184-93.
29. **Weir CR**, McCarthy CA (2009). Using implementation safety indicators for CPOE implementation. *Jt Comm J Qual Patient Saf*, 35(1), 21-8.
 30. **Weir CR**, Staggers N, Phansalkar S (2009). The state of the evidence for computerized provider order entry: a systematic review and analysis of the quality of the literature. *Int J Med Inform*, 78(6), 365-74.
 31. Flaherty JH, Shay K, **Weir C**, Kamholz B, Boockvar KS, Shaughnessy M, Shapiro R, Gordon S, Stein J, Rudolph JL (2009). The development of a mental status vital sign for use across the spectrum of care. *J Am Med Dir Assoc*, 10(6), 379-80.
 32. Gibson B, **Weir C** (2010). Development and preliminary evaluation of a simulation-based diabetes education module. *AMIA Annu Symp Proc*, 2010, 246-50.
 33. Hammond KW, Efthimiadis EN, **Weir CR**, Embi PJ, Thielke SM, Laundry RM, Hedeem A (2010). Initial Steps toward Validating and Measuring the Quality of Computerized Provider Documentation. *AMIA Annu Symp Proc*, 2010, 271-5.
 34. South BR, Shen S, Barrus R, DuVall SL, Uzuner O, **Weir C** (2011). Qualitative analysis of workflow modifications used to generate the reference standard for the 2010 i2b2/VA challenge. *AMIA Annu Symp Proc*, 2011, 1243-51.
 35. Clark E, Fitzgerald JT, Griffith J, **Weir C** (2011). Geriatrics educational outreach: A tale of three GRECCS. *Gerontol Geriatr Educ*, 32(1), 93-106.
 36. **Weir CR**, Hammond KW, Embi PJ, Efthimiadis EN, Thielke SM, Hedeem AN (2011). An exploration of the impact of computerized patient documentation on clinical collaboration. *Int J Med Inform*, 80(8), e62-71.
 37. **Weir C**, McLeskey N, Brunner C, Brooks D, Supiano MA (2011). The role of information technology in translating educational interventions into practice: an analysis using the PRECEDE/PROCEED model. *J Am Med Inform Assoc*, 18(6), 827-34.
 38. Gibson B, Marcus RL, Staggers N, Jones J, Samore M, **Weir C** (2012). Efficacy of a computerized simulation in promoting walking in individuals with diabetes. *J Med Internet Res*, 14(3), e71.
 39. Shen S, South BR, Butler J, Barrus R, **Weir C** (2012). The relationship between structural characteristics of 2010 challenge documents and ratings of document quality. *AMIA Annu Symp Proc*, 2012, 848-55.
 40. Koch SH, Westenskow D, **Weir C**, Agutter J, Haar M, Gorges M, Liu D, Staggers N (2012). ICU nurses' evaluations of integrated information displays on user satisfaction and perceived mental workload. *Stud Health Technol Inform*, 180, 383-7.
 41. **Weir CR**, Staggers N, Doing-Harris K, Dunlea R, McCormick T, Barrus R (2012). A taxonomy for contextual information in electronic health records. *Nurs Inform*, 2012,

- 442.
42. **Weir C**, Drews FA, Leecaster MK, Barrus RJ, Hellewell JL, Nebeker JR (2012). The orderly and effective visit: impact of the electronic health record on modes of cognitive control. *AMIA Annu Symp Proc*, 2012, 979-87.
 43. Hung M, Clegg DO, Greene T, **Weir C**, Saltzman CL (2012). A lower extremity physical function computerized adaptive testing instrument for orthopedic patients. *Foot Ankle Int*, 33(4), 326-35.
 44. **Weir CR**, Staggers N, Laukert T (2012). Reviewing the impact of computerized provider order entry on clinical outcomes: The quality of systematic reviews. *Int J Med Inform*, 81(4), 219-31.
 45. Thraen I, Bair B, Mullin S, **Weir CR** (2012). Characterizing "information transfer" by using a Joint Cognitive Systems model to improve continuity of care in the aged. *Int J Med Inform*, 81(7), 435-41.
 46. Koch SH, **Weir C**, Haar M, Staggers N, Agutter J, Gorges M, Westenskow D (2012). Intensive care unit nurses' information needs and recommendations for integrated displays to improve nurses' situation awareness. *J Am Med Inform Assoc*, 19(4), 583-90.
 47. Garvin JH, DuVall SL, South BR, Bray BE, Bolton D, Heavirland J, Pickard S, Heidenreich P, Shen S, **Weir C**, Samore M, Goldstein MK (2012). Automated extraction of ejection fraction for quality measurement using regular expressions in Unstructured Information Management Architecture (UIMA) for heart failure. *J Am Med Inform Assoc*, 19(5), 859-66.
 48. Agha Z, **Weir CR**, Chen Y (2013). Usability of telehealth technologies. *Med Image Comput Comput Assist Interv*, 2013, 834-514.
 49. **Weir C**, Drews FA, Butler J, Barrus RJ, Jones ML, Nebeker JR (2013). Support for contextual control in primary care: a qualitative analysis. *AMIA Annu Symp Proc*, 2013, 1463-71.
 50. Butler JM, Carter M, Hayden C, Gibson B, **Weir C**, Snow L, Morales J, Smith A, Bateman K, Gundlapalli AV, Samore M (2013). Understanding adoption of a personal health record in rural health care clinics: revealing barriers and facilitators of adoption including attributions about potential patient portal users and self-reported characteristics of early adopting users. *AMIA Annu Symp Proc*, 2013, 152-61.
 51. Zhang M, Del Fiore G, Grout RW, Jonnalagadda S, Medlin R Jr, Mishra R, **Weir C**, Liu H, Mostafa J, Fiszman M (2013). Automatic identification of comparative effectiveness research from Medline citations to support clinicians' treatment information needs. *Stud Health Technol Inform*, 192, 846-50.
 52. Dalto JD, **Weir C**, Thomas F (2013). Analyzing communication errors in an air medical transport service. *Air Med J*, 32(3), 129-37.

53. Vogelsmeier A, Pepper GA, Oderda L, **Weir C** (2013). Medication reconciliation: A qualitative analysis of clinicians' perceptions. *Res Social Adm Pharm*, 9(4), 419-30.
54. Embi PJ, **Weir C**, Efthimiadis EN, Thielke SM, Hedeon AN, Hammond KW (2013). Computerized provider documentation: findings and implications of a multisite study of clinicians and administrators. *J Am Med Inform Assoc*, 20(4), 718-26.
55. Koch SH, **Weir C**, Westenskow D, Gondan M, Agutter J, Haar M, Liu D, Gorges M, Staggers N (2013). Evaluation of the effect of information integration in displays for ICU nurses on situation awareness and task completion time: A prospective randomized controlled study. *Int J Med Inform*, 82(8), 665-75.
56. Jonnalagadda SR, Del Fiore G, Medlin R, **Weir C**, Fiszman M, Mostafa J, Liu H (2013). Automatically extracting sentences from Medline citations to support clinicians' information needs. *J Am Med Inform Assoc*, 20(5), 995-1000.
57. **Weir C**, Dunlea R, Staggers N, Dooing-Harris K, McCormick T, Barrus R (2014). Comparing narrative versus numerical display of functional information: impact on sense-making. *Stud Health Technol Inform*, 205, 609-13.
58. Georgsson M, **Weir CR**, Staggers N (2014). Revisiting heuristic evaluation methods to improve the reliability of findings. *Stud Health Technol Inform*, 205, 930-4.
59. Del Fiore G, Weber AI, Bruner CP, **Weir CR** (2014). Clinical questions raised by providers in the care of older adults: a prospective observational study. *BMJ Open*, 4(7), e005315.
60. Lenert LA, Sakaguchi FH, **Weir CR** (2014). Rethinking the discharge summary: a focus on handoff communication. *Acad Med*, 89(3), 393-8.
61. Gibson B, Butler J, Zirkle M, Hammond K, **Weir C** (2014). Foraging for Information in the EHR. The Search for Adherence Related Information by VHA Mental Health Clinicians. *Int J Med Inform*.
62. **Weir CR**, Butler J, Thraen I, Woods PA, Hermos J, Ferguson R, Gleason T, Barrus R, Fiore L (2014). Veteran's Healthcare Administration providers' attitudes and perceptions regarding pragmatic trials embedded at the point of care. *Clin Trials*, 11(3), 292-299.
63. Zhang M, Del Fiore G, Grout RW, Jonnalagadda S, Medlin R Jr, Mishra R, **Weir C**, Liu H, Mostafa J, Fiszman M. Automatic identification of comparative effectiveness research from Medline citations to support clinicians' treatment information needs. *Stud Health Technol Inform*. 2013;192:846-50. PubMed PMID:23920677; PubMed Central PMCID: PMC3940695.
64. Jacobs J, **Weir C**, Evans RS, Staes C. Assessment of readiness for clinical decision support to aid laboratory monitoring of immunosuppressive care at U.S. liver transplant centers. *Appl Clin Inform*. 2014 Dec 17;5(4):988-1004. doi:10.4338/ACI-2014-08-RA-0060. eCollection 2014. PubMed PMID: 25589912; PubMed Central PMCID:

PMC4287676.

65. Mishra R, Bian J, Fiszman M, **Weir CR**, Jonnalagadda S, Mostafa J, Del Fiol G. Text summarization in the biomedical domain: a systematic review of recent research. *J Biomed Inform.* 2014 Dec;52:457-67. doi: 10.1016/j.jbi.2014.06.009.Epub 2014 Jul 10. Review. PubMed PMID: 25016293; PubMed Central PMCID:PMC4261035.
66. Spuhl J, Doing-Harris K, Nelson S, Estrada N, Del Fiol G, **Weir C**. Concordance of Electronic Health Record (EHR) Data Describing Delirium at a VA Hospital. *AMIA Annu Symp Proc.* 2014 Nov 14;2014:1066-71. *eCollection* 2014. PubMed PMID:25954416; PubMed Central PMCID: PMC4419955.
67. Islam R, **Weir C**, Del Fiol G. Heuristics in Managing Complex Clinical Decision Tasks in Experts' Decision Making. *IEEE Int Conf Healthc Inform.* 2014 Sep;2014:186-193. PubMed PMID: 27275019; PubMed Central PMCID: PMC4891069.
68. Del Fiol G, Weber AI, Brunker CP, **Weir CR**. Clinical questions raised by providers in the care of older adults: a prospective observational study. *BMJ Open.* 2014 Jul 4;4(7):e005315. doi: 10.1136/bmjopen-2014-005315. PubMed PMID:24996915; PubMed Central PMCID: PMC4091273.
69. **Weir CR**, Butler J, Thraen I, Woods PA, Hermos J, Ferguson R, Gleason T, Barrus R, Fiore L. Veteran's Healthcare Administration providers' attitudes and perceptions regarding pragmatic trials embedded at the point of care. *Clin Trials.* 2014 Jun;11(3):292-299. doi: 10.1177/1740774514523848. PubMed PMID: 24651565
70. Lenert LA, Sakaguchi FH, **Weir CR**. Rethinking the discharge summary: a focus on handoff communication. *Acad Med.* 2014 Mar;89(3):393-8. doi: 10.1097/ACM.0000000000000145. PubMed PMID: 24448037; PubMed Central PMCID: PMC4090779.
71. Georgsson M, **Weir CR**, Staggers N. Revisiting heuristic evaluation methods to Improve the reliability of findings. *Stud Health Technol Inform.* 2014; 205:930-4. PubMed PMID: 25160324.
72. **Weir C**, Dunlea R, Staggers N, Dooing-Harris K, McCormick T, Barrus R. Comparing narrative versus numerical display of functional information: impact on sense-making. *Stud Health Technol Inform.* 2014;205:609-13. PubMed PMID: 25160258;PubMed Central PMCID: PMC4863447.
73. **Weir C**, Drews FA, Butler J, Barrus RJ, Jones ML, Nebeker JR. Support for contextual control in primary care: a qualitative analysis. *AMIA Annu Symp Proc.* 2013 Nov 16;2013:1463-71. *eCollection* 2013. PubMed PMID: 24551420; PubMed Central PMCID: PMC3900158.
74. Butler JM, Carter M, Hayden C, Gibson B, **Weir C**, Snow L, Morales J, Smith A, Bateman K, Gundlapalli AV, Samore M. Understanding adoption of a personal health record in rural health care clinics: revealing barriers and facilitators of adoption including attributions about potential patient portal users and self-reported characteristics of early adopting users. *AMIA Annu Symp Proc.* 2013 Nov 16;2013:152-61. *eCollection* 2013. PubMed PMID: 24551328; PubMed Central PMCID: PMC3900162\$\$\$2014\$\$\$2015
75. Islam R, **Weir CR**, Jones M, Del Fiol G, Samore MH. Understanding complex clinical reasoning in infectious diseases for improving clinical decision support design.

- BMC Med Inform Decis Mak.* 2015 Nov 30;15:101. doi: 10.1186/s12911-015-0221-z. PubMed PMID: 26620881; PubMed Central PMCID: PMC4665869.
76. Nelson SD, LaFleur J, Del Fiol G, Evans RS, **Weir CR**. Reading and Writing: Qualitative Analysis of Pharmacists' Use of the EHR when Preparing for Team Rounds. *AMIA Annu Symp Proc.* 2015 Nov 5;2015:943-52. *eCollection* 2015. PubMed PMID: 26958231; PubMed Central PMCID: PMC4765606.
 77. Kuang J, Mohanty AF, Rashmi VH, **Weir CR**, Bray BE, Zeng-Treitler Q. Representation of Functional Status Concepts from Clinical Documents and Social Media Sources by Standard Terminologies. *AMIA Annu Symp Proc.* 2015 Nov 5;2015:795-803. *eCollection* 2015. PubMed PMID: 26958215; PubMed Central PMCID: PMC4765559.
 78. Doing-Harris KM, **Weir CR**, Igo S, Shi J, Shao Y, Hurdle JF. POETenceph – Automatic identification of clinical notes indicating encephalopathy using a realist ontology. *AMIA Annu Symp Proc.* 2015 Nov 5;2015:512-21. *eCollection* 2015. PubMed PMID: 26958184; PubMed Central PMCID: PMC4765669.
 79. Graber CJ, Jones MM, Glassman PA, **Weir C**, Butler J, Nechodom K, Kay CL, Furman AE, Tran TT, Foltz C, Pollack LA, Samore MH, Goetz MB. Taking an Antibiotic Time-out: Utilization and Usability of a Self-Stewardship Time-out Program for Renewal of Vancomycin and Piperacillin-Tazobactam. *Hosp Pharm.* 2015 Nov;50(11):1011-24. doi: 10.1310/hpj5011-1011. Epub 2015 Nov 24. PubMed PMID: 27621509; PubMed Central PMCID: PMC4750836.
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