**Curriculum Vitae**

Peter Joseph Embi, MD, MS, FACP, FACMI

**CONTACT INFORMATION**

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**Place of Birth:** Hialeah, FL, USA

**EDUCATION**

Aug 2000 - Jun 2002 **Master of Science (M.S.),** Medical Informatics & Clinical Epidemiology

Oregon Health & Science University (OHSU), Portland, OR

Aug 1993 - May 1997 **Doctor of Medicine (M.D.)**

University of South Florida (USF), Tampa, FL

Aug 1988 - May 1993 **Bachelor of Science (B.S.),** Microbiology & Cell Science

University of Florida, Gainesville, FL

**POSTGRADUATE TRAINING**

Jul 2002 - Jun 2004 **Fellowship**, Rheumatic and Immunologic Diseases

Cleveland Clinic Foundation, Cleveland, OH

Jul 2000 - Jun 2002 **Fellowship**, Medical Informatics & General Internal Medicine

Portland VAMC and Oregon Health & Science University, Portland, OR

Jul 2000 - Jun 2001 **Chief Resident**, Internal Medicine

Oregon Health & Science University, Portland, OR

Jul 1997 - Jun 2000 **Internship and Residency**, Internal Medicine

Oregon Health & Science University, Portland, OR

**APPOINTMENTS AND POSITIONS**

**CURRENT POSITIONS**

Dec 2016 – Present **President and CEO**
Regenstrief Institute, Inc., Indianapolis, IN

Dec 2016 – Present **Leonard Betley Professor of Medicine and Biostatistics**,
School of Medicine, Indiana University, Indianapolis, IN

Dec 2016 – Present **Associate Dean for Informatics & Health Services Research**
School of Medicine, Indiana University, Indianapolis, IN

Dec 2016 – Present **Associate Director for Informatics**
Indiana Clinical and Translational Science Institute (CTSI), IU School of Medicine

Dec 2016 – Present **Vice-President for Learning Health Systems**
IU Health System, Indiana University

Nov 2018 – Present **Adjunct Professor** (courtesy appointment), Department of BioHealth Informatics
School of Informatics, Indiana University-Purdue University of Indianapolis, IN

**PAST POSITIONS**

July 2016 – Dec 2016 **Interim Chair**
Department of Biomedical Informatics, The Ohio State University

July 2014 – Dec 2016 **Associate Dean for Research Informatics**,
College of Medicine, The Ohio State University

Nov 2013 – Dec 2016 **Division Director**, Division of Clinical and Translational Informatics,
Department of Biomedical Informatics, The Ohio State University

Oct 2010 – Dec 2016 **Chief Research Information Officer**
The Ohio State University Medical Center

Oct 2010 – Dec 2016 **Associate Professor with Tenure**, Departments of Biomedical Informatics and Department of Internal Medicine, Division of Rheumatology & Immunology
College of Medicine; Division of Health Services Management & Policy, College of Public Health, The Ohio State University

Oct 2010 – Dec 2016 **Director**, Biomedical Informatics Program
Center for Clinical and Translational Science
The Ohio State University

Oct 2010 – Jun 2016 **Executive Vice-Chair**, Department of Biomedical Informatics
The Ohio State University Medical Center

Dec 2011 – Mar 2012 **Interim Division Director**, Division of Anatomy
The Ohio State University Medical Center

Sep 2009 – Sep 2010 **Associate Professor of Clinical Medicine**
Division of General Internal Medicine and
Division of Immunology, Allergy and Rheumatology
University of Cincinnati (UC) Department of Medicine

Jan 2008 – Sep 2010 **Director of Biomedical Informatics**
Cincinnati Center for Clinical and Translational Science and Training
University of Cincinnati/Cincinnati Children’s Hospital Medical Center

Jul 2008 – Sep 2010 **Adjunct Assistant Professor**
Department of Biomedical Informatics
The Ohio State University, Columbus, OH

Oct 2006 – Sep 2010 **Founding Director**, Center for Health Informatics
UC Academic Health Center

Jul 2004 – Sep 2010 **Affiliate Investigator and Staff Physician** (Rheumatology)
Veterans Affairs (VA) Health Services Research & Development
Cincinnati VA Medical Center

Jul 2004 – Aug 2009 **Assistant Professor of Clinical Medicine**
Division of General Internal Medicine, and Division of Immunology, Allergy & Rheumatology, UC Department of Medicine

Jan 2003 - Jun 2006 **Adjunct Assistant Professor** (Distance Learning Instructor)
Department of Medical Informatics and Clinical Epidemiology
Oregon Health & Science University, Portland, OR

**MEDICAL LICENSURE**

Ohio: 2002-Present Medical License: 35-08-1340-E

Oregon: 1997-2002 Medical Licence: MD 22339

**BOARD CERTIFICATION**

American Board of Preventive Medicine (ABPM)
**Diplomate in Clinical Informatics**: January, 2014 (active)

American Board of Internal Medicine (ABIM); Number: 197286
**Diplomate in Rheumatology**: November, 2004, 2014 (active, renewed)
Diplomate in Internal Medicine: August, 2000

National Board of Medical Examiners (USMLE Steps I, II, III passed): 1998

**HONORS and AWARDS (2010 and later)**

2017 Inducted into Alpha Omega Alpha (AOA) Honor Society, USF Chapter

2017 Distinguished Physician Alumnus Awardee, USF College of Medicine

2017 Inaugural class USF Robert Good Honor Society, First Alumnus Inductee

2013 Inducted into Phi Kappa Phi Honor Society

2012 Elected to Fellowship in the American College of Medical Informatics (FACMI)

2012 AMIA Clinical Research Informatics Distinguished Paper Award (Inaugural)

2011 American Medical Informatics Association (AMIA) Leadership Award

2011 Best Doctors in America, Selected (and annually since)

**PROFESSIONAL SOCIETY MEMBERSHIP and SELECTED POSITIONS (2010 and later)**

2000-Present American Medical Informatics Association (AMIA), Member

 Past Chair, Board of Directors, January 2020 – Current

Chair, Board of Directors, Elected, Jan 2018-Dec 2019

Chair-Elect, Board of Directors, Elected, Jan 2017-Dec 2017

Director, Board of Directors, Elected, Jan 2015 - Dec 2017

Chair, Ethics Committee, Jan 2014 - Jan 2016

Chair, Clinical Research Informatics Working Group, Jan 2009-Dec 2010

Scientific Program Chair, 1st Annual CRI Summit, 2009-2010

Ethics Committee Member, 2006-Present

Clinical Research Informatics Steering Task Force Member, 2007-2010

Chair-Elect, Clinical Research Informatics Working Group, 2008

Secretary, Clinical Research Informatics Working Group, 2006-2007

2013-Present Member, Academy Health

2012-Present Elected Fellow, American College of Medical Informatics

2009-2014 Informatics Key Function Committee (IKFC), CTSA Consortium

IKFC Operations (Executive) Committee, Elected, 2011-2013

Education Affinity Group, Co-Chair, 2009-2012

2003-Present American College of Rheumatology (ACR), Fellow Member (FACR)

Chair, Registry and Health IT Committee, 2011-2014

Lead, RISE Registry Initiative, 2011-2014

Director, Board of Directors (BOD), 2008-2011

Chair, EHR-Registry Sub-committee, Health IT Committee, 2010-2011

BOD Liason to Committee on Rheumatologic Care, 2009-2010

BOD Liason to Government Affairs Committee, 2008-2009

Member, Committee on Education, 2007-2008

Member, Annual Meeting Planning Committee, 2006-2008

Associate Editor, ARHP Post-Graduate Rheumatology Training Program, 2006-2008

Member, Professional Meetings Committee, 2005-2006

1995-Present American College of Physicians (ACP), Fellow Member (FACP)

Member, Medical Informatics Committee, 2015-Present

Representative, Oregon ACP Chapter Council of Associates, 1997–2000
Oregon Chapter Webmaster, Creator and Content Manger, 1997 – 2000
Associate Member, 1997 – 2001; Student Member, 1995 – 1997

**BIBLIOGRAPHY**

**PEER-REVIEWED publications (2010 and later)**

1. Weng, Chunhua, **Embi PJ**. Informatics Approaches to Participant Recruitment. Clinical Research Informatics. Springer, Cham. 2019. 109-122.
2. **Embi PJ**, Richesson, R, Tenebaum J, Kannry J, Freidman C, Sarkar N, Indra N, Smith J. Reimaging the Research-Practice Relationship: Policy Recommendations for Informatics-Enabled Evidence-Generation Across the US Health System. JAMIA Open. 2019 Feb.
3. **Embi PJ**. Future Directions in Clinical Research Informatics. Springer, Cham. 2019. 481-491.
4. Knosp B, Barnett W, Anderson N, **Embi PJ**. Corrigendum: Research IT Maturity Models for Academic Health Centers: Early Development and Initial Evaluation. Journal of Clinical and Translational Science. Cambridge University Press. 2019. 45.
5. **Embi PJ**, Richesson R, Tenenbaum J, Kannry J, Friedman C, Sarkar IN, Smith J. Reimagining the Research-Practice Relationship: Policy Recommendations for Informatics-Enabled Evidence- Generation across the US Health System. J Am Med Inform Assoc – Open. 2019 Jan. (in press)
6. Petersen C, Berner ES, **Embi PJ**, Fultz Hollis K, Goodman KW, Koppel R, Lehmann CU, Lehmann H, Maulden SA, McGregor KA, Solomonides A, Subbian V, Terrazas E, Winkelstein P. AMIA's code of professional and ethical conduct 2018. J Am Med Inform Assoc. 2018 Nov 1;25(11):1579-1582.
7. Dixon BE, **Embi PJ**, Haggstrom DA. Information technologies that facilitate care coordination: provider and patient perspectives. Translational behavioral medicine. 2018. 8 (3), 522-525
8. Wright A, Ai A, Ash J, Wiesen JF, Hickman TT, Aaron S, McEvoy D, Borkowsky S, Dissanayake PI, **Embi P**, Galanter W, Harper J, Kassakian SZ, Ramoni R, Schreiber R, Sirajuddin A, Bates DW, Sittig DF. Clinical decision support alert malfunctions: analysis and empirically derived taxonomy. J Am Med Inform Assoc. 2018 May 1;25(5):496-506.
9. Sanchez-Pinto LN, Mosa ASM, Fultz-Hollis K, Tachinardi U, Barnett WK, **Embi PJ**. The Emerging Role of the Chief Research Informatics Officer in Academic Health Centers. Appl Clin Inform. 2017 Aug 16;8(3):845-853.
10. Obeid JS, Beskow LM, Rape M, Gouripeddi R, Black RA, Cimino JJ, **Embi PJ**, Weng C, Marnocha R, Buse JB. A survey of practices for the use of electronic health records to support research recruitment. J Clin Transl Sci. 2017 Aug;1(4):246-252. doi: 10.1017/cts.2017.301.
11. Adler-Milstein J, **Embi PJ**, Middleton B, Sarkar IN, Smith J. Crossing the health IT chasm: considerations and policy recommendations to overcome current challenges and enable value-based care. J Am Med Inform Assoc. 2017 Sep 1;24(5):1036-1043.
12. Luzum JA, Pakyz RE, Elsey AR, Haidar CE, Peterson JF, Whirl-Carrillo M, Handelman SK, Palmer K, Pulley JM, Beller M, Schildcrout JS, Field JR, Weitzel KW, Cooper-DeHoff RM, Cavallari LH, O'Donnell PH, Altman RB, Pereira N, Ratain MJ, Roden DM, **Embi PJ**, Sadee W, Klein TE, Johnson JA, Relling MV, Wang L, Weinshilboum RM, Shuldiner AR, Freimuth RR; Pharmacogenomics Research Network Translational Pharmacogenetics Program. The Pharmacogenomics Research Network Translational Pharmacogenetics Program: Outcomes and Metrics of Pharmacogenetic Implementations Across Diverse Healthcare Systems. Clin Pharmacol Ther. 2017 Sep;102(3):502-510. Epub 2017 Jun 9.
13. Finney Rutten LJ, Alexander A, **Embi PJ**, Flores G, Friedman C, Haller IV, Haug P, Jensen D, Khosla S, Runger G, Shah ND, Winden T, Roger VL. Patient-Centered Network of Learning Health Systems: Developing a resource for clinical translational research. J Clin Transl Sci. 2017 Feb;1(1):40-44. Epub 2017 Feb 2.
14. Smoyer WE, **Embi PJ**, Moffatt-Bruce S. Creating Local Learning Health Systems: Think Globally, Act Locally. JAMA. 2016 Dec 20;316(23):2481-2482.
15. Yen PY, Lara B, Lopetegui M, Bharat A, Ardoin S, Johnson B, Mathur P, **Embi PJ**, Curtis JR. Usability and Workflow Evaluation of "RhEumAtic Disease activitY" (READY). A Mobile Application for Rheumatology Patients and Providers. *Appl Clin Inform.* 2016 Nov 2;7(4):1007-1024.
16. Lowes LP, Noritz GH, Newmeyer A, **Embi PJ**, Yin H, Smoyer WE; ‘Learn from Every Patient’ Study Group. 'Learn From Every Patient': implementation and early results of a learning health system. *Dev Med Child Neurol.* 2016 Aug 22. doi: 10.1111/dmcn.13227. [Epub ahead of print]
17. Payne PR, Lussier Y, Foraker RE, **Embi PJ.** Rethinking The Role and Impact of Health Information Technology: Informatics as an Interventional Discipline. (2016) *BMC Medical Informatics and Decision Making.* 16:40.
18. Lehmann CU, Longhurst CA, Hersh W, Mohan V, Levy BP, **Embi PJ,** Finnell JT, Turner AM, Martin R, Williamson J, & Munger B (2015) Clinical Informatics Fellowship Programs: In Search of a Viable Financial Model: An open letter to the Centers for Medicare and Medicaid Services. *Appl Clin Inform* 6(2):267-270.
19. Wyatt MC, Hendrickson RC, Ames M, Bondy J, Ranauro P, English TM, Bobitt K, Davidson A, Houston TK, **Embi PJ,** & Berner ES (2014) Federated Aggregate Cohort Estimator (FACE): an easy to deploy, vendor neutral, multi-institutional cohort query architecture. *J Biomed Inform* 52:65-71.
20. Wilcox A, Randhawa G, **Embi P**, Cao H, & Kuperman GJ (2014) Sustainability considerations for health research and analytic data infrastructures. *EGEMS (Wash DC)* 2(2):1113.
21. Hebert C, Shivade C, Foraker R, Wasserman J, Roth C, Mekhjian H, Lemeshow S, & **Embi P** (2014) Diagnosis-specific readmission risk prediction using electronic health data: a retrospective cohort study. *BMC Med Inform Decis Mak* 14:65.
22. Roth C, Foraker RE, Payne PR, & **Embi PJ** (2014) Community-level determinants of obesity: harnessing the power of electronic health records for retrospective data analysis. *BMC Med Inform Decis Mak* 14:36.
23. Lopetegui M, Yen PY, Lai A, Jeffries J, **Embi P**, & Payne P (2014) Time motion studies in healthcare: what are we talking about? *J Biomed Inform* 49:292-299.
24. Hripcsak G, Bloomrosen M, FlatelyBrennan P, Chute CG, Cimino J, Detmer DE, Edmunds M, **Embi PJ,** Goldstein MM, Hammond WE, Keenan GM, Labkoff S, Murphy S, Safran C, Speedie S, Strasberg H, Temple F, & Wilcox AB (2014) Health data use, stewardship, and governance: ongoing gaps and challenges: a report from AMIA's 2012 Health Policy Meeting. *J Am Med Inform Assoc* 21(2):204-211.
25. Shivade C, Raghavan P, Fosler-Lussier E, **Embi PJ,** Elhadad N, Johnson SB, & Lai AM (2014) A review of approaches to identifying patient phenotype cohorts using electronic health records. *J Am Med Inform Assoc* 21(2):221-230.
26. Sweet K, Gordon ES, Sturm AC, Schmidlen TJ, Manickam K, Toland AE, Keller MA, Stack CB, Garcia-Espana JF, Bellafante M, Tayal N, **Embi P,** Binkley P, Hershberger RE, Sadee W, Christman M, & Marsh C (2014) Design and implementation of a randomized controlled trial of genomic counseling for patients with chronic disease. *J Pers Med* 4(1):1-19.
27. Otsuka SH, Tayal NH, Porter K, **Embi PJ,** & Beatty SJ (2013) Improving herpes zoster vaccination rates through use of a clinical pharmacist and a personal health record. *Am J Med* 126(9):832 e831-836.
28. **Embi PJ,** Weir C, Efthimiadis EN, Thielke SM, Hedeen 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):718-726.
29. Hersh WR, Cimino J, Payne PR, **Embi P**, Logan J, Weiner M, Bernstam EV, Lehmann H, Hripcsak G, Hartzog T, & Saltz J (2013) Recommendations for the use of operational electronic health record data in comparative effectiveness research. *EGEMS (Wash DC)* 1(1):1018.
30. **Embi PJ** (2013) Clinical research informatics: survey of recent advances and trends in a maturing field. *Yearb Med Inform* 8:178-184.
31. **Embi PJ** & Payne PR (2013) Evidence generating medicine: redefining the research-practice relationship to complete the evidence cycle. *Med Care* 51(8 Suppl 3):S87-91.
32. **Embi PJ,** Hebert C, Gordillo G, Kelleher K, & Payne PR (2013) Knowledge management and informatics considerations for comparative effectiveness research: a case-driven exploration. *Med Care* 51(8 Suppl 3):S38-44.
33. Hersh WR, Weiner MG, **Embi PJ,** Logan JR, Payne PR, Bernstam EV, Lehmann HP, Hripcsak G, Hartzog TH, Cimino JJ, & Saltz JH (2013) Caveats for the use of operational electronic health record data in comparative effectiveness research. *Med Care* 51(8 Suppl 3):S30-37.
34. Goodman KW, Adams S, Berner ES, **Embi PJ,** Hsiung R, Hurdle J, Jones DA, Lehmann CU, Maulden S, Petersen C, Terrazas E, & Winkelstein P (2013) AMIA's code of professional and ethical conduct. *J Am Med Inform Assoc* 20(1):141-143.
35. Shuldiner AR, Relling MV, Peterson JF, Hicks JK, Freimuth RR, Sadee W, Pereira NL, Roden DM, Johnson JA, Klein TE, Pharmacogenomics Research Network Translational Pharmacogenetics Program G, Shuldiner AR, Vesely M, Robinson SW, Ambulos N, Jr., Stass SA, Kelemen MD, Brown LA, Pollin TI, Beitelshees AL, Zhao RY, Pakyz RE, Palmer K, Alestock T, O'Neill C, Maloney K, Branham A, Sewell D, Relling MV, Crews K, Hoffman J, Cross S, Haidar C, Baker D, Hicks JK, Bell G, Greeson F, Gaur A, Reiss U, Huettel A, Cheng C, Gajjar A, Pappo A, Howard S, Hudson M, Pui CH, Jeha S, Evans WE, Broeckel U, Altman RB, Gong L, Whirl-Carrillo M, Klein TE, Sadee W, Manickam K, Sweet KM, **Embi PJ,** Roden D, Peterson J, Denny J, Schildcrout J, Bowton E, Pulley J, Beller M, Mitchell J, Danciu I, Price L, Pereira NL, Weinshilboum R, Wang L, Johnson JA, Nelson D, Clare-Salzler M, Elsey A, Burkley B, Langaee T, Liu F, Nessl D, Dong HJ, Lesko L, Freimuth RR, & Chute CG (2013) The Pharmacogenomics Research Network Translational Pharmacogenetics Program: overcoming challenges of real-world implementation. *Clin Pharmacol Ther* 94(2):207-210.
36. Roth C, Shivade CP, Foraker RE, & **Embi PJ** (2013) Integrating population- and patient-level data for secondary use of electronic health records to study overweight and obesity. *Stud Health Technol Inform* 192:1100.
37. **Embi PJ** & Leonard AC (2012) Evaluating alert fatigue over time to EHR-based clinical trial alerts: findings from a randomized controlled study. *J Am Med Inform Assoc* 19(e1):e145-148.
38. Lopetegui M, Yen PY, Lai AM, **Embi PJ,** & Payne PR (2012) Time Capture Tool (TimeCaT): development of a comprehensive application to support data capture for Time Motion Studies. *AMIA Annu Symp Proc* 2012:596-605.
39. Pressler TR, Yen PY, Ding J, Liu J, **Embi PJ,** & Payne PR (2012) Computational challenges and human factors influencing the design and use of clinical research participant eligibility pre-screening tools. *BMC Med Inform Decis Mak* 12:47.
40. Murphy SN, Dubey A, **Embi PJ,** Harris PA, Richter BG, Turisco F, Weber GM, Tcheng JE, & Keogh D (2012) Current state of information technologies for the clinical research enterprise across academic medical centers. *Clin Transl Sci* 5(3):281-284.
41. Kitzmiller JP, **Embi PJ,** Manickam K, Sweet KM, Phelps MA, Jackson RD, Marsh CB, & Sadee W (2012) Program in pharmacogenomics at the Ohio State University Medical Center. *Pharmacogenomics* 13(7):751-756.
42. Embi A, Scherlag BJ, **Embi PJ,** Menes M, & Po SS (2012) Targeted cellular ionic calcium chelation by oxalates: Implications for the treatment of tumor cells. *Cancer Cell Int* 12(1):51.
43. **Embi PJ** & Tsevat J (2012) Commentary: the relative research unit: providing incentives for clinician participation in research activities. *Acad Med* 87(1):11-14.
44. Weir CR, Hammond KW, **Embi PJ,** Efthimiadis EN, Thielke SM, & Hedeen AN (2011) An exploration of the impact of computerized patient documentation on clinical collaboration. *Int J Med Inform* 80(8):e62-71.
45. Hersh W, Jacko JA, Greenes R, Tan J, Janies D, **Embi PJ,** & Payne PR (2011) Health-care hit or miss? *Nature* 470(7334):327-329.
46. Hammond K, Efthimiadis EN, Laundry R, Thielke SM, Weir C, **Embi P**, Hedeen A. (2011) Preliminary Validation of a Method to Measure Information Value in Clinical Documentation. *Proceeding of the 44th Hawaii International Conference on Systems Sciences* (HICSS-44). January; (44)1-7.
47. Payne PR, **Embi PJ,** & Niland J (2010) Foundational biomedical informatics research in the clinical and translational science era: a call to action. *J Am Med Inform Assoc* 17(6):615-616.
48. Hammond KW, Efthimiadis EN, Weir CR, **Embi PJ,** Thielke SM, Laundry RM, & Hedeen A (2010) Initial Steps toward Validating and Measuring the Quality of Computerized Provider Documentation. *AMIA Annu Symp Proc* 2010:271-275.
49. Payne PR, **Embi PJ,** Johnson SB, Mendonca E, & Starren J (2010) Improving Clinical Trial Participant Tracking Tools Using Knowledge-anchored Design Methodologies. *Appl Clin Inform* 1(2):177-196.
50. Payne PR, Borlawsky TB, Rice R, & **Embi PJ** (2010) Evaluating the impact of conceptual knowledge engineering on the design and usability of a clinical and translational science collaboration portal. *AMIA Jt Summits Transl Sci Proc* 2010:41-45.
51. Yackel TR & **Embi PJ** (2010) Unintended errors with EHR-based result management: a case series. *J Am Med Inform Assoc* 17(1):104-107.

**Editorials, Letters, and invited papers (2010 and later)**

1. **Embi PJ** & Tenenbaum J (2016) Letter: More on Data Sharing. *NEJM* May 12;374(19):1896
2. **Embi PJ** & Tsevat J (2016) Letter: In Reply to Severance. *Acad Med* 91(1):10.
3. **Embi PJ** & Payne PR (2014) Editorial: Advancing methodologies in Clinical Research Informatics (CRI): foundational work for a maturing field. *J Biomed Inform* 52:1-3.
4. Payne PR, **Embi PJ,** & Kahn MG (2011) Editorial: Selected papers from the 2011 Summit on Clinical Research Informatics. *J Biomed Inform* 44 Suppl 1:S54-55.

**Published Refereed Abstracts (2010 and later)**

1. Schleyer TK, Callahan C, Williams L, Martin D, Gottlieb J, Frederick C, **Embi PJ**: Developing the Indiana Learning Health System Initiative. *AMIA Annual Symposium Proceedings, November 2018. (Poster)*
2. Hood DR, Barnett WK, **Embi PJ**. Selecting EHR-Driven Recruitment Strategies: An Evidence-Based Approach. *AMIA Jt. Summits on Trans Sci Proc, Mar 2018. (Poster)*
3. Barnett WK, Pierce D, French T, Mamlin B, Biondich P, Grannis S, **Embi PJ**, Barber T, Fuller D. Informatics Infrastructure: Tip of the Spear for the Indiana University Precision Health Initiative. *AMIA Jt. Summits on Trans Sci Proc, Mar 2018. (Poster)*
4. Obeid J, Wehbe F, Harris P, Barnett W, Anderson N, **Embi PJ**, Hogan W, Bell D, McIntosh L, Tachinardi U, Cimino J, Tarczy-Hornoch P. Research Informatics Infrastructure: Landscape and Sustainability. *AMIA Jt. Summits on Trans Sci Proc, Mar 2018. (Podium Abstract)*
5. En-Ju L, Johnson S, Shivade C, **Embi PJ**, Lai A. Understanding the Role of Technology for Screening Participants in Clinical Studies. *AMIA Jt. Summits on Trans Sci Proc, Mar 2017. (Poster Abstract)*
6. Knosp BM, Barnett W, **Embi PJ**, Anderson N. Maturity Models for Research IT and Informatics – Reports from the Field. *AMIA Jt. Summits on Trans Sci Proc, Mar 2017.*
7. Cantor MN, **Embi PJ**, Hsiao A. Developing Governance Structures for Informatics: Approaches to Research Recruitment. *AMIA Jt. Summits on Trans Sci Proc, Mar 2017.*
8. Lele O; Mathur P; **Embi PJ**. Design of a Scalable and Affordable Local Research Registry Pipeline. *AMIA Jt Summits on Transl Sci Proc,* Mar 2016*.*
9. Mathur P, Southern LA, Bharat A, Wang S, Heckler C, Lele O, **Embi PJ** Curtis, JR. High Level Architecture and Evaluation of Patient Linkages for READY - An Electronic Measurement Tool for Rheumatoid Arthritis. *AMIA Annual Symposium Proceedings,* November 2015, San Francisco, CA.
10. Hebert CL, **Embi PJ**. Admission data predict risk as well as discharge data in patients with pneumonia: A readmission risk-model evaluation. *AMIA Annual Symposium Proceedings,* November 2014, Washington DC.
11. Lara BA, Alexa M, Ardoin S, **Embi PJ**, Yen P.Challenges Faced When Designing and Conducting Time Motion Studies in Health Care Environments. *AMIA Annual Symposium Proceedings,* November 2014, Washington DC.
12. Wright A, Maloney FL, Ramoni R, Hauskrecht, M, **Embi PJ**, Neri P, Sittig DF, Bates DW. Identifying Cinical Decision Support Failures using Change-Point Detection. *AMIA Annual Symposium Proceedings,* November 2014, Washington DC.
13. **Embi PJ**, Stephens, W, Myslinski, R. American College Of Rheumatology's “Rheumatology Informatics System for Effectiveness” (RISE) Registry Pilot. Arthritis & Rheumatism, Volume 65, October 2013 Abstract Supplement
14. **Embi PJ**, Lopetegui M, Borlawsky TB, Lamantia F, Rice, R. Transforming Research Program Management: From a Ticketing System to a Computerized Research Record (CoRR). *AMIA Jt Summits on Transl Sci Proc,* Mar 2014*.*
15. Patterson ES, Roth C, Elder E, Cotton S, **Embi PJ**. Impact of Electronic Health Record Alerts on Recruitment for Clinical Trials: A Study of Patients’ Perceptions. *AMIA Jt Summits on Transl Sci Proc, Mar 2014.*
16. Hebert C, Shivanade C, Payne P, **Embi P**. Analyzing Problem List Data for Real-time Re-Use. *AMIA Jt Summits on Transl Sci Proc, Mar 2014.*
17. **Embi PJ**, Lopetegui MA, Lamantia F, Borlawsky T, Hamon D, Nielsen T, Rice R. The Computerized Research Record (CoRR): A Web-based Research Record System for Managing Research Support Requests Based on an EHR Metaphor. *AMIA Annual Symposium Proceedings*, November 18, 2013. (Poster Abstract)
18. Lopetegui MA, Bai S, Yen P, Lai AM, **Embi PJ**, Payne P. Inter-Observer Reliability Assessments in Time Motion Studies: The Foundation for Meaningful Clinical Workflow Analysis. *AMIA Annual Symposium Proceedings*, November 20, 2013. (Podium Abstract)
19. Shivade C, Hebert C, Roth C, Foraker R, Payne P, **Embi P**. Evaluating Multiple Methods for Predictive Modeling of 30-Day Hospital Readmissions: Lessons for Secondary Use of Clinical Data. *AMIA Jt Summits Transl Sci Proc.* 2013 Mar 21, 2013. (Poster Abstract)
20. Wyatt M, Berner E, Hendrickson R, Davidson A, Bondy J, Ames A, **Embi P**, Ervin D, Houston T, Zottola R, English T, Wang S, Thota N, Ranauro P. A Model for Secure Multi-Institutional Cohort Query. AMIA Jt Summits Transl Sci Proc. 2013 Mar 20, 2013. (Poster Abstract)
21. Roth C, Khan YM, Foraker RE, **Embi PJ**. Augmenting EHR-Derived Clinical Data with Geographic-Level Public Information to Develop Research Hypotheses for Population Obesity Rates. *AMIA Jt Summits Transl Sci Proc.* 2013 Mar 18:226. eCollection 2013. (Podium Abstract)
22. Khan Y, Roth C, Payne P, Patterson E, Leonard A, Elder N, Eckman M, **Embi PJ**. EHR-based Clinical Trial Alert Effects on Recruitment to a Neurology Trial across Institutions: Interim Analysis of a Randomized Controlled Study. *AMIA Jt Summits Transl Sci Proc.* 2013 Mar 18:117. (Podium Abstract)
23. Hebert C, Wasserman J, Foraker R, Lemeshow S, Mekhjian H, Payne P, **Embi PJ**. Development of an Informatics-Based Predictive Model for 30-Day Readmission Customized for a Single Hospital System. AMIA 2012 Annual Symposium Proceedings, November 2012. (Podium Abstract)
24. Kissela BM, Rademacher E, Alwell K, Moomaw C, Lindsell C, **Embi PJ**, Woo D, Flaherty M, Khatri P, Adeoye O, Khoury J, Ferioli S, Kleindorfer D. A Pilot Population-Based Outcomes Study using a Health Information Exchange: Preliminary Feasibility Results. *Stroke* (proceedings of the International Stroke Conference). Feb, 2012. (*Podium Presentation*.)
25. Payne P, **Embi PJ**, Borlawsky T, Frost J, Teater P. Translating Informatics Innovations: From Prototype to Production. *Proceedings of the AMIA Annual Symposium*, October 2011.
26. **Embi PJ**, Kissella B, et al. Leveraging a Regional Health Information Exchange (HIE) to Accelerate a Population-Based Epidemiology Study. *Proceedings of the AMIA Annual Symposium*, October 2011. (Poster Presentation)
27. **Embi PJ**, Leonard A. Physician Response Patterns to EHR-based, Clinical Trial Alerts: Findings from a Randomized Controlled Study. *Proceedings of the AMIA Joint Summits in Translational Science*, March 2011. (Podium Presentation)
28. Kissela BM, **Embi PJ**, Alwell K, et al. Use of a Regional Health Information Exchange (HIE) to Facilitate Outcomes Epidemiology. *Stroke* (proceedings of the International Stroke Conference). 42 (3): E278-E278. Mar 2011. (Podium Presentation)
29. **Embi PJ**, Elder NC, Cotton S, Patterson E, Weber D. Patient Perceptions Following Exposure to EHR-based Clinical Trial Alerts. *Proceedings of the AMIA Annual Symposium*, Nov 2010. (Poster Presentation)
30. **Embi PJ**, Eckman M, Payne PR, Leonard A, Elder N, Cotton S, Patterson E, Wise R. EHR-Based Clinical Trial Alert Effects on Recruitment to a Neurology Trial Across Settings: Interim Analysis of a Randomized Controlled Study. *Proceedings of the AMIA Summits on Translational Informatics*, March, 2010.
31. **Embi PJ**, Lindsell C, Witzke R, Morrow A, Kues J, Tsevat J, Heubi J. Design and Early Experience with a Web-based Research Record System (RRS) Based on an EMR Metaphor for Managing Research Support Requests. *Proceedings of the AMIA Summits on Translational Informatics*, March, 2010.

**Books, Book Chapters, Special Issues and THESES (2010 and later)**

1. Payne PR, **Embi PJ** and Cimino JJ. Book Chapter: *Clinical Research Informatics* in Biomedical Informatics: Computer Applications in Health Care and Biomedicine (Shortliffe EH and Cimino JJ, Editors). 2019 edition (pending). Springer-Verlag.
2. **Embi PJ**. Book Chapter: *Future Challenges and Opportunities in Research Informatics*. In: Richesson RL, Andrews J, Editors. Clinical Research Informatics. Springer; 2019 (second) edition. p. 409-417.
3. Payne PR, **Embi PJ**, Editors, Book. *Translational Informatics: Realizing the Promise of Knowledge-Driven Healthcare*. Springer; 2015.
4. Payne PR, **Embi PJ**. Book Chapter: *An Introduction to Translational Informatics and The Future of Knowledge-Driven Healthcare*. Book: Translational Informatics. Springer; 2015. (pps. 3-19)
5. Payne PR, **Embi PJ**. Book Chapter: *Driving Clinical and Translational Research using Biomedical Informatics.* Book: Translational Informatics. Springer; 2015. (pps. 99-117)
6. **Embi PJ**, Payne PR. Book Chapter: *Future Directions for Translational Informatics*. Book: Translational Informatics. Springer; 2015. (pps. 165-178)
7. Payne PR, **Embi PJ** and Cimino JJ. Book Chapter: *Clinical Research Informatics* in Biomedical Informatics: Computer Applications in Health Care and Biomedicine (Shortliffe EH and Cimino JJ, Editors). 2015. Springer-Verlag.
8. Payne PR, **Embi PJ**, Editors, Special Issue: *Methods in Clinical Research Informatics*.
Journal of Biomedical Informatics. 2014, Dec. 52 (pps. 1-468)
9. **Embi PJ**, Payne PR. Book Chapter: *Clinical and Translational Research Informatics Education and Training*. In: Berner ES, Editor. Informatics Education in Healthcare. Springer; 2014. p. 167-178.
10. **Embi PJ**. Book Chapter: *Future Challenges and Opportunities in Research Informatics*. In: Richesson RL, Andrews J, Editors. Clinical Research Informatics. Springer; 2012 edition. p. 409-417.
11. Weng C, **Embi PJ** (senior author). Book Chapter: *Informatics Approaches to Participant Recruitment*. In: Richesson RL, Andrews J, Editors. Clinical Research Informatics. Springer; 2012 edition. p. 81-94.

**Funding support**

**Active Support**

1. AHRQ/PCORI: **Indiana Learning Health System Fellowship Training Program** (K12)
Co-PIs: Carroll A, Embi PJ
Awarded: Sep 2018 – Sep 2023
Role: Co-PI
2. U Addictions Grand Challenge Initiatives: **Indiana Addictions Data Commons (IADC)**
PI: Embi, PJ
Awarded: Feb 2018 – Jan 2021
Role: PI: Leading development of data resources to support addictions grand challenges intiative
$3.7M (total funding) I
3. NIH/NCRR: **Indiana Clinical and Translational Science Institute (CTSA)**
PI: Shekhar, A (Indiana University)
Awarded: Sep 2013 – Apr 2018
*Role:* Co-I*,* Associated Director, and Director of Biomedical Informatics (Dec 2017 - Present)
4. Walther Cancer Foundation: **Cancer Informatics Program Development**
PIs: Embi, P; Loehrer P
Awarded: May 2017 – May 2021
Role: Co-PI (Charged with establishing program, leadership)
5. NIH/NCATS: **Improving Clinical trial Education, Recruitment, and Enrollment at CTSA Hubs (ICERCH)**/**Recruitment Innovation Center (RIC);**
PI: Harris, P (Vanderbilt – Prime)
Awarded July 2016 – July 2021
Role: Co-PI and Site PI (Leader of the EHR-based Recruitment Core)

**COMPLETED SUPPORT (2010 and later)**

1. NIH/NLM: 1R01LM011966; **Improving Clinical Decision Support Reliability Using Anomaly Detection Methods**;
PI: Wright, A (Harvard-Prime)
Awarded: Sep 2014-Sep 2018; Total Costs: $691,638
Role: Co-I and Site-PI
2. P60AR064172-01; **Multidisciplinary Clinical Research Center**; Sub-Project: 5135 ***Facilitating Treat-to-Target Using Novel Health Technology with Decision Support***
Bridges (PI) (University of Alabama at Birmingham – Prime)
Awarded: 09/16/2013-07/31/2018
Role: Consultant (Dec 2016-Present); Co-I and Site PI (2013-2016)
3. PCORI: **Clinical Data Research Network (CDNR) Phase II; LHSNet CDRN**;
PI: Roger, VL (Mayo Clinic – Prime);
Awarded Oct 2015 – Sep 2018; Total Costs: $8,635,740 (network); OSU Subcontract: $879,870
Role: Co-PI and Site PI at Ohio State: Oct 2015 – Nov 2016
4. NIH/NCRR: UL1TR001070; **The Ohio State University Center for Clinical and Translational Science (CTSA)**
PI: Jackson R (Ohio State University)
Awarded: Sep 2013 – Apr 2018
*Role:* Co-I*,* Director of Biomedical Informatics (Sep 2013 - Nov 2016)
5. NIH/NLM: T15LM011270; **The OSU Clinical and Translational Research Informatics Training Program (CTRIP)**
Total costs: $1,333,332
Co-PIs: **Embi P**, Payne PR
Awarded: July 1, 2012-June 30, 2017
Role: Co-PI: Jul 2012 – Nov 2016
6. NIH/NLM: R01LM011116; PI: **An Information Fusion Approach to Longitudinal Health Records;** Total Costs: $980,000
PI: Lai, A (Ohio State)
Awarded: September 1, 2012 – August 31, 2016
Role: Co-I
7. Subcontract University of Maryland: SR00002331/ U01 HL105198; **Translational Pharmacogenetics Project** (Supplement to Pharmacogenomics Research Network**)**; Total Costs: $240,000
Awarded: August 30, 2011 – June 30, 2015
Role: Co-I, Site PI
8. NIH/NINDS: R01 NS30678; PIs: Kissela B and Kleindorfer D; **Comparison of Hemorrhagic and Ischemic Stroke Among Blacks and Whites** (Renewal);
Total Direct Costs Requested: $4,505,418/5yrs
Status: Awarded, July 1 2009-June 30, 2014
Past Role: Co-Investigator, 7.5% (Informatics lead for Aim leveraging Regional Health Information Exchange to enhance quality/efficiency of stroke epidemiology study); Jul 2009-Sep 2010.
*Current Role: Consultant*
9. NIH/NCRR: 3UL1TR000090; PI: Jackson R; **The Ohio State University Center for Clinical and Translational Science (CTSA)**
Awarded: May 2008 – Sep 2013
*Role: Co-Investigator, Co-Director of Biomedical Informatics – 20%*
10. NIH/NCRR: **The CTSA Federated Aggregate Cohort Estimator (FACE)**
CTSA Supplement Total Costs: Approx $250,000; OSU Subcontract: $25,000
Announced: August 2011
*Role: Site PI*
11. NIH/NLM: 1R01LM009533-01A1; PI: Embi P.; **Evaluating EHR-based, Point-of-Care Trial Recruitment Across Clinical Settings**; Total Direct Costs: $263,032
Awarded, September 30, 2008 – December 31, 2013
*Role: PI – 35%*
12. Office of the National Coordinator for Health IT (ONC): Beacon Initiative. **The Greater Cincinnati Beacon Community Initiative**. Total Costs: $15 Million over 3 years.
Awarded: September 2010 - September 2013
Role: Co-Investigator, Site PI, U of Cincinnati component ($800K3 yrs); (September 2010).
13. American College of Rheumatology (ACR): **Rheumatology Informatics System for Effectiveness (RISE)** project; Total Costs: $563,000
Awarded May 1, 2011 – December 31, 2012
Role: PI – 10%
14. NIH/NLM: **Administrative Supplement to R01-LM009533; Evaluating EHR-based, Point-of-Care Trial Recruitment Across Clinical Settings**; (aim: to expand study of patient, physician perceptions)
Total Costs Requested: $137,891
Awarded, September 30, 2009 – September 29, 2012
Role: PI
15. OSU Medical Center: **Predicting and Avoiding Preventable Readmissions**
Total Costs: $250,000
Awarded August 2011 – April 2012
*Role: PI – 5%*
16. NIH/NCRR: Administrative Supplement to CTSA 1UL1RR026314-01; **Accelerating and Expanding Research Informatics Education and Workforce Development**
Submitted: May 18, 2009; Total Costs Requested: $599,891
Awarded: September 1, 2009 – August 30, 2011
Role: Project PI (5% effort beyond 40% allocation to parent CTSA grant); (Sep 2009 – Sep 2010)
17. NIH/NCRR: 1UL1RR026314-01; PIs: Heubi J and Tsevat J; **Cincinnati Center for Clinical and Translational Science and Training (CTSA)**;
Submitted: June, 2008; Total Direct Costs Requested: $17,111,708/5yrs;
Awarded, April 2009 – March 2014
Role: Co-Investigator and Director of Biomedical Informatics – 40% (April 2009 – September 2010)
18. NIH/NIEHS: P30ES00609616; PI: Ho, S.; **Center for Environmental Genetics** (Renewal);
Role: Co-Investigator – 10%; Co-Director, Integrative Health Sciences Core (core sub-budget direct costs: $552,626/5yrs) Total Direct Costs: $5,000,000/5yrs
Awarded, April 2008 – April 2013
My involvement: April 2008 – September 2010
19. NIH/NCRR: K30 RR022273; PI: Tsevat, J; **University of Cincinnati Clinical Curriculum Award**;
Aug 2005 – Jul 2010; Total Direct Costs: $1,000,000/5yrs
Role: Co-Investigator – 7% yr 2, 3.5% yrs 3-5 (co-director, medical informatics courses)

**PRESENTATIONS (2010 and later)**

**INTERNATIONAL/NATIONAL - PRESENTATIONS, LECTURES, TUTORIALS**

1. Invited Learning Showcase Speaker: “Regenstrief Institute: 50 Years of Informatics, Innovation, and Thought Leadership”

November 18, 2019 AMIA Symposium. Washington, DC

1. Invited Panelist: “Potential Tradeoffs and Unintended Consequences of Artificial Intelligence”

November 8, 2019. Artificial Intelligence in Healthcare: The Hope, The Hype, The Promise, The Peril. Stanford, CA

1. Invited Speaker: “Future of Healthcare”

September 26, 2019. Purdue 2050: Conference of the Future. West Lafayette, IN

1. Invited Panelist: “Leveraging Clinical Data”

September 25, 2019. 2nd Annual Health Data Leadership Institute. Washington, DC

1. Invited Keynote: “Leveraging Informatics to Create Learning Health Systems: Now it’s Personal!”

April 26, 2019. 2019 Brown Center for Biomedical Informatics Symposium. Providence, RI

1. Invited Speaker: “Exploring the Intersections between Data Science and Health Systems Research”

April 8, 2019. 2019 HCSRN Conference. Portland, OR

1. Invited Keynote Speaker: “Leveraging Informatics Enable Evidence Generating Medicine and Create Learning Health Systems”

March 21, 2019. CCEB Brian Strom Lecture Series and Research Day. Philadelphia, PA

1. Invited Panelist: “Enabling Medicine-based Evidence Using Large-Scale Clinical Data Research Networks: State of Art, Impact, Challenges, and Future Work”

January 28, 2019. ACMI Winter Symposium. Ft. Myers, FL

1. Invited Keynote and Panelist: “Enabling Learning Health Systems with Informatics”
XII Jornadas Universitarias de Información en Salud
November 15-16, 2018. Buenos Aires, Argentina
2. Invited Speaker and Panel Organizer: “Leveraging Clinical Data: Responding to Multiple Demands”
Academy Health: Health Data Policy & Strategy Orientation
August 26-27, 2018. Washington, DC
3. Invited Keynote: “Leveraging Informatics to Create a Learning Health System”
Washington University Cordell Institute for Health Ethics and Law: Inaugural Event
August 13, 2018. St. Louis, MO.
4. Invited Speaker and Panelist: Computable Knowledge for Learning Health Systems
Mobilizing Computable Biomedical Knowledge: NIH/National Library of Medicine
July 9-10, 2018, NIH Campus, Bethesda, MD
5. Invited Lecturer: “Leveraging Informatics to Create a Learning Health System”
Washington University Institute for Informatics
May 20, 2018. St. Louis, MO.
6. Invited Panelist: “Informatics Enabled Learning Health Systems”
Learning Health 4 Michigan Conference
May 3, 2018; East Lansing, MI
7. Invited Keynote: “Clinical Research Informatics Year-in-Review”
March 16, 2018. AMIA Informatics Summit in San Francisco, CA
8. Invited speaker/panelist: IEEE Advancing Technology for Humanity. Panel: “Engineering in Biology, Medicine, and Nanotechnology” November 11, 2017. Bloomington, IN
9. Keynote speaker: Research IT Maturity Models: An Update
November 3, 2017. CR Forum 2017 IT Roundtable. Washington, DC
10. Keynote Address: “Leveraging Informatics to Create a Precision Learning Health System”
Annual Symposium for Hall Center for Law and Health – All Data is Health Data Symposium
October 20, 2017. Indianapolis, IN.
11. Invited panelist: Technology and the Future for Academic Health Centers: Panel Discussion
October 12, 2017. Association of Academic Health Centers (AAHC). Boston MA
12. Invited Lecturer: Hutton Lecture. “Leveraging Informatics to Create a Learning Health System”
October 6, 2017. The Cincinnati Children’s Hospital, Cincinnati, OH
13. Speaker: Work in Progress Series: “Leveraging Informatics to Enable a Learning Precision Health System” September 13, 2017. Indianapolis, IN
14. Invited Keynote: “Leveraging Informatics to Create Learning Health Systems”
July 17-20, 2017. National Health Symposium. Santiago, Chile
15. Invited Keynote: “Ethics and Health Information Technology”
April 7, 2017. Florida Bioethics Network Annual Conference. Miami, FL
16. AMIA Hill Briefing at the Senate Offices: Bridging the Health IT Chasm
April 5, 2017. Washington, DC.
17. Invited Keynote: “Clinical Research Informatics Year-in-Review”
March 30, 2017. AMIA Joint Summits in San Francisco, CA
18. Panelist: Maturity Models for Research IT and Informatics – Reports from the Field.
March 26-30, 2017. AMIA Joint Summits in San Francisco, CA
19. Panelist: Developing Governance Structures for Informatics Approaches to Research Recruitment. March 26-30, 2017. AMIA Joint Summits in San Francisco, CA
20. Speaker/Panelist: “Informatics: Is it Research or Service?”
February 3, 2017. ACMI 2017 Winter Symposium. Duck Key, FL
21. Invited Speaker/Panelist: “The View from Inside the Tent: What the Tech Convergence Means for Academic Health Centers”
January 27, 2017. AAHC Conference. Ft. Lauderdale, FL
22. Invited Keynote Speaker: October 2016, *2nd Annual Chilean Symposium on Health Informatics (ISChile 2016),* Santiago, Chile
23. Invited Keynote: Clinical Research Informatics Year-In-Review
March 24, 2016, AMIA Joint Summits in Translational Science, San Francisco, CA
24. Invited Speaker: The Role of the Chief Research Information Officer
March 24, 2016, AMIA Joint Summits in Translational Science, San Francisco, CA
25. Panelist: Innovative Informatics Approaches to Assist with Recruitment and Retention
March 23, 2016, AMIA Joint Summits in Translational Science, San Francisco, CA
26. Panelist: How Do I Become an Operational Leader?
March 21, 2016, AMIA Joint Summits in Translational Science, San Francisco, CA
27. Panelist: Efficiently and Sustainably Delivering Integrated Research Registries in Academic Health Centers: Experiences from the Trenches
March 21, 2016, AMIA Joint Summits in Translational Science, San Francisco, CA
28. Invited Speaker: “Standardizing-customization” of EHRs to Enable Evidence Generation
February 19, 2016, EHR Thinktank: Leveraging EHRs for Research now! Washington DC
29. Invited Speaker: “Standardizing-customization" of EHRs and clinical workflows to enable Evidence Generating Medicine and realize a Learning Health System
February 5, 2016, American College of Medical Informatics Winter Symposium, Waikoloa, Hawaii
30. Invited Keynote: Maturity, Deployment and Adoption Models for Research IT/ Informatics
October 22, 2015, Clinical Research Forum IT Roundtable, Washington DC
31. Invited Speaker and Panel Leader: Research Participation in a Learning Health System
September 22, 2015, *Concordium 2015*, Academy Health/EDM Forum annual meeting, Washington DC
32. Invited Speaker and Panelist: Health Informatics Training in the USA: History and Lessons Learned
August 2015, *1st Annual Chilean Symposium on Health Informatics (ISChile 2015),* Santiago, Chile
33. Invited Plenary: Evidence Generating Medicine: Integrating Research and Practice with Informatics to Enable a Learning Health System
June 4, 2015, AAMC Information Technology in Academic Medicine Conference, San Diego, CA
34. Invited Keynote: Clinical Research Informatics Year-In-Review
March 27, 2015, AMIA Summit in Clinical Research Informatics, San Francisco, CA
35. Panel: Clinical Trial Results Data Sharing: The Time is Now. Sim I, Fu P, Louzao DM, Embi PJ
March 26, 2015, AMIA Summit in Clinical Research Informatics, San Francisco, CA
36. Invited Speaker: *“Meet the Expert” session*, American College of Medical Informatics
November 17, 2014, AMIA 2014 Annual Symposium, Washington, DC
37. Invited Grand Rounds: Evidence Generating Medicine: Integrating Research and Practice with Informatics to Enable and Learning Health System
April 14, 2014, The Cleveland Clinic, Center for Neurosciences, Cleveland, OH
38. Invited Keynote: Clinical Research Informatics Year-In-Review
April 11, 2014, AMIA Summit in Clinical Research Informatics, San Francisco, CA
39. Invited Speaker: Facilitating Research via Health IT Processes and Governance
March 17, 2014, Epic Research Advisory Council, Verona, WI
40. Panelist and Moderator: Evidence Generation to Address Operational Priorities
Febuary 1, 2014, AMIA iHealth Symposium, Orlando, FL
41. Invited Speaker: Enabling Evidence Generating Medicine to Accelerate Research and Improve Care
December 2, 2013, NCI Director’s Consumer Liaison Group, Bethesda, MD
42. Panelist: Research Informatics: Re-Engineering the Research Enterprise
Weiner M; Payne P; Embi PJ; Murphy SN
November 20, 2013, AMIA Annual Symposium, Washington DC
43. Panelist: Informatics Challenges and the Future of Electronic Clinical Documentation
Vawdrey D; Rosenbloom ST; Stetson PD, Payne TH, Embi PJ
November 18, 2013, AMIA Annual Symposium, Washington DC
44. Invited Speaker: Rheumatology Informatics System for Effectiveness (RISE)
October 27, 2013, American College of Rheumatology Annual Meeting, San Diego, CA
45. Invited Speaker: Epic Research Data Network Initiative: Report from the Chair
September 2013, Epic User Group Meeting, Verona, WI
46. Invited Speaker: Experiences, Lessons Learned, and Considerations for Enterprise-wide use of EHR-based Clinical Trial Alerts
April 23, 2013, Epic Researach Advisory Council, Verona, WI
47. Organizer/Moderator, Panelist: Integrating Governance of Research Informatics and Health Care IT Across an Enterprise: Experiences from the Trenches. Embi PJ, Tachinardi U, Lussier Y, Starren J, Silverstein J.
March 18, 2013, AMIA Joint Summits on Translational Science, San Francisco, CA
48. Tutorial: Research Informatics: From Lab to Laptop. Payne, P; Embi PJ
March 18, 2013, AMIA Joint Summits on Translational Science, San Francisco, CA
49. Invited Keynote: Clinical Research Informatics Year-In-Review
March 22, 2013, AMIA Summit in Clinical Research Informatics, San Francisco, CA
50. Invited Presentation and Discussion Leader: Organizational Leadership in CRI, CRIO Role and Definition*.* March 22, 2013, AMIA Summit in Clinical Research Informatics, San Francisco, CA
51. Organizer, Panelist: Computerized Provider Documentation: Impact and Implications for Healthcare Practice, Quality, and Research in the Meaningful Use Era. Embi P; Weir C; Hammond K; Rosenboom ST. November 2012. AMIA Annual Symposium, Chicago, IL.
52. Invited Keynote: Leveraging EHRs to Improve Recruitment for Cilnical Trials at the Point-of-Care: Successes, challenges, and future directions. German Medical Informatics Association/GMDS – Informatik 2012, Braunschweig, Germany. September 17, 2012
53. Invited Keynote: Leveraging EHRs to Advance Resaerch and Improve Healthcare: Challenges and Opportunities. University of Cincinnati EHR Symposium, August 2, 2012
54. Invited Speaker: Leveraging Informatics and Health IT to Create a Learning Health System
July 26, 2012, University of Nebraska Medical Center, Omaha, NE
55. Invited Speaker: Realizing EHR-Enabled Evidence Generating Medicine
April 24, 2012, Epic Researach Advisory Council, Verona, WI
56. Panelist: Improving Participant Recruitment via EHR-based, Point-of-Care Approaches
April 25, 2012, Epic Research Advisory Council, Verona, WI
57. Invited Panelist: New Governance Models for Research IT in Academic Health CentersBlumenthal D, Dvorak C, Embi PJ, Athey B, Califf RApril 18, 2012, Clinical Research Forum Annual Meeting, Washington DC
58. Invited Speaker: Accelerating Trial Recruitment via EHR-based, Point-of-Care Approaches
April 17, 2012, Clinical Research Forum IT Roundtable, Washington DC
59. Invited Speaker: Chief Research Information Officer: A new Leadership Role for Academic Centers
April 17, 2012, Clinical Research Forum IT Roundtable, Washington DC
60. Invited Keynote: Clinical Research Informatics Year-In-Review
March 23, 2012, AMIA Summit in Clinical Research Informatics, San Francisco, CA
61. Invited Workshop: Designing Websites for Medical Practices
American College of Rheumatology/ARHP Annual Scientific Meeting, Atlanta, GA
November 6, 2011
62. Invited Tutorial: Clinical Research Informatics: Theory, Methods, and Best Practices
**Embi PJ**, Payne PR
October 22, 2011, AMIA Annual Symposium, Washington, DC
63. Invited Panelist: Creating Sustainable Clinical Research IT Support Modules: Unmet challenges in Clinical Research Informatics
**Embi PJ,** Murphy S, Woody S, Richter B
April 26, 2011, Clinical Research Forum IT Roundtable, Washington DC
64. Invited Keynote: Clinical Research Informatics Year-In-Review
March 11, 2011, AMIA Summit in Clinical Research Informatics, San Francisco, CA
65. Panel Presentation: Evidence Generating Medicine
**Embi PJ** (organizer), Payne P, Weiner M, Hersh B
March 11, 2011, AMIA Summit in Clinical Research Informatics, San Francisco, CA
66. Scientific Podium Presenation: Physician Response Patterns to EHR-based, Clinical Trial Alerts: Findings from a Randomized Controlled Study
**Embi PJ**, Leonard A
March 10, 2011, AMIA Summit in Clinical Research Informatics, San Francisco, CA
67. Panel presentation: Perspectives on Research Informatics Education
Berner E, **Embi PJ** (co-organizer), Boyd A, Mostafa J, Hersh B
March 10, 2011, AMIA Summit in Clinical Research Informatics, San Francisco, CA
68. Invited Tutorial: Clinical Research Informatics: Theory, Methods, and Best Practices
**Embi PJ**, Payne PR
November 13 2010, AMIA Annual Symposium, Washington, DC
69. Workshop: Should AMIA’s Code of Ethics Be Enforced?
Hsuing R, **Embi PJ**, Weinstein P
November 13, 2010, AMIA Annual Symposium, Washington, DC
70. Invited Workshop: Designing Websites for Medical Practices
American College of Rheumatology/ARHP Annual Scientific Meeting, Atlanta, GA
November 8, 2010
71. Invited Presentation: A New Approach to Research Support Tracking: The Research Record System
June 22, 2010, Third Annual Clinical Research Management Workshop, Bethesda, MD
72. Invited Lecture: The Emerging Role of Electronic Health Records in the Care of Patients with Rheumatoid Arthritis
Posted online on April 14, 2010, Cleveland Clinic Virtual Grand Rounds Series, Cleveland, OH
73. Scientific Podium Presentation: EHR-Based Clinical Trial Alert Effects on Recruitment to a Neurology Trial Across Settings: Interim Analysis of a Randomized Controlled Study
March 13, 2010, AMIA Summit on Clinical Research Informatics, San Francisco, CA
74. Podium presentation: Design and Early Experience with a Web-based Research Record System (RRS) Based on an EMR Metaphor for Managing Research Support Requests
March 13, 2010, AMIA Summit on Clinical Research Informatics, San Francisco, CA
75. Scientific Panel: Informatics Education for Clinical and Translational Researchers from the CTSAParticipants: Hersh W, **Embi PJ**, Friedman R, Berner, E
March 12, 2010, AMIA Summit on Clinical Research Informatics, San Francisco, CA
76. Invited Lecture: Accelerating Clinical and Translational Science with Informatics-Enabled Evidence-Generating MedicineOhio State University Comprehensive Cancer Center/CCTS Guest Lecture, Columbus, OH
February 25, 2010
77. Invited Lecture: Accelerating Clinical and Translational Science with Informatics-Enabled Evidence-

 **NATIONAL – UNPUBLISHED ABSTRACT/POSTER PRESENTATIONS**

1. Three Complementary Research Participant Recruitment Initiatives at OSU: An Overview
Albrigo J, Hallarn RK, Para M, Payne PR, Reider C, Springer J, **Embi PJ**
Third Annual Clinical Research Management Workshop, Bethesda, MD, June 21, 2010

**OTHER SCIENTIFIC ACTIVITIES**

**SCIENTIFIC JOURNAL EDITORIAL BOARD**

International Journal of Medical Informatics, Associate Editor, 2015-2016

Journal of the American Medical Informatics Association (JAMIA), Editorial Board, 2010-2016

**SCIENTIFIC PEER REVIEW ACTIVITIES (2010 and later)**

***JOURNAL/PROCEEDINGS PEER REVIEWER***

IMIA Yearbook of Medical Informatics 2014, 2015, 2016, 2017, 2018, 2019

Journal of the American Medical Informatics Association 2009, 2010, 11, 12, 13, 14, 15, 16

International Journal of Medical Informatics 2015, 2016,

PLOS One 2014

Proceedings of the AMIA Annual Symposium 2003, 2005 – 2013

AMIA Summit on Clinical Research Informatics 2010 – 2013, 2015

Journal of Biomedical Informatics 2010, 2013

Applied Clinical Informatics 2010, 2014

BMC Medical Informatics and Decision Making 2009, 2010

***NIH REVIEWER***

Biomedical Computing and Health Informatics (BCHI) Study Section 2014-Present (2019 term)

 **Chair 2017-2019**

 (BCHI reviews applications to advance the development and use of health information and communications technology in multidisciplinary clinical care and clinical research, personal health management, population and environmental health, translational science, and related training.)

NHLBI, special emphasis panel, SBIR 2012

 (Computer Generated Diet and Exercise Reminders Promoting Cardiovascular Health)

NHLBI, special emphasis panel, SBIR 2011

 (Innovative Tools, Techniques, and Software for the Screening, Recruitment, and Follow-up of Participants in Pediatric Research)

OD, special emphasis panel ZRG1 HDM-K, RC4 2010

 (Director's Opportunity - Healthcare Deliveries and Methodologies)

NHLBI, special emphasis panel ZHL1 CCT-Y (03), SBIR 2010

 (Innovative Tools in Pediatric Research)

**PROFESSIONAL AND COMMUNITY SERVICE (2010 and later)**

**CONTRIBUTIONS TO NATIONAL OR INTERNATIONAL CONFERENCES**

*2018 Clinical Research Forum IT Roundtable Conference*October 2018; Washington DCRole: **Planning Committee member**

*2017 Clinical Research Forum IT Roundtable Conference*October 2017; Washington DCRole: **Meeting Co-Chair/Planning Committee member**

*2017 AMIA Annual Symposium*November 2017; Washington DCRole: **SPC Vice-Chair**

*2017 Clinical Research Forum IT Roundtable Conference*November 2017; Washington DCRole: **Meeting Co-Chair/Planning Committee member**

*2016 Clinical Research Forum IT Roundtable Conference*October 2016; Washington DCRole: **Meeting Co-Chair/Planning Committee member**

*2016 ISChile: The Chilean Annual Symposium on Health Informatics*October 2016; Santiago, ChileRole:***Member, Conference Advisory Board***

*2016 AMIA Policy Invitational Conference
September, 2016;* Washington DC
Role: **Program Chair**

*2016 AMIA INSPIRE Conference, AMIA Academic Forum annual meeting*June 2016; Columbus, OhioRole: **Planning Committee member**

*2016 AMIA Summits on Translational Science*March 2016; San Francisco, CA
Role: **Invited Session Moderator:** Data Mining and Reuse

*2015 AMIA Annual Symposium*November 2015; San Francisco, CA
Role: **Invited Session Moderator**

*2015 Clinical Research Forum IT Roundtable Conference*October 2015; Washington DCRole: **Meeting Co-Chair/Planning Committee member**

*2015 MEDINFO: International Medical Informatics Association Bi-Annual Meeting*August, 2015; Sao Paolo, Brazil
Role: **Invited session moderator**

*First Annual Chilean Symposium on Health Informatics (ISChile 2015)*August, 2015; Santiago, Chile
Role: **Advisor to Program Chair**

*2015 Workshop on EHR-Driven Participant Recruitment.*June 2015; The Ohio State University, Columbus, OhioRole: **Meeting Organizer and Chair**

*2014 AMIA Annual Symposium*November 2015; Washington DC
Role: **Invited session moderator**

*2014 Clinical Research Forum IT Roundtable Conference (Leveraging EHRs for Research)*October 2014; Washington DCRole: **Meeting Co-Chair/Planning Committee member**

*2014 AMIA Academic Forum Meeting
May 2014, Ann Arbor, MI
Role:* **Planning Committee member**

*2014 iHealth Symposium*Febuary 2014; Orlando, FLRole: **Co-Chair/Planning Committee member**

*2013 AMIA Annual Symposium*November 2013; Washington DC
Role: **Invited session moderator**

*2013 Clinical Research Forum IT Roundtable Special Conference (Leveraging EHRs for Research)*October 2013; Washington DCRole: **Meeting Co-Chair/Planning Committee member**

*2012 Clinical Research Forum IT Roundtable*April 2012; Washington DCRole: **Planning Committee member**

*2011 AMIA Annual Symposium*October 22-26; Washington, DC
Role: **Invited session chair – two sessions**:
S86 *Research Models & Collaborations*S94 *Making Clinical Research Easier: Tools and Methods*

*2011 Clinical Research Forum IT Roundtable Conference*April 26, 2011; Washington, DC
Role: **Invited session moderator**

*2011 AMIA Summit on Clinical Research Informatics, 2nd Annual*
March 9-11, 2011; San Francisco, CA
Role: **Advisory committee (founding chair)**

*2010 AMIA Annual Symposium*
November 13-17, 2010; Washington, DC
Role: **Invited session chair**: Clinical Information Warehouses
Role: **Session organizer** (migrated previously free-standing Expo to be part of official peer-reviewed abstract sessions): Clinical Research Informatics Expo

*2010 AMIA Summit on Clinical Research Informatics (Inaugural meeting)*
March 12-13, 2010; San Francisco, CA
Role: **Founding Scientific Program/Meeting Chairperson**

**CONTRIBUTIONS TO REGIONAL CONFERENCES**

*2018 Biocrossroads Frameworxx Conference*Regenstrief Institute, Indianapolis, IN; Role: Program Organizer

*2012 OSU Center for Information Technology Innovation in Healthcare (CITIH) Summit*
April 2012, Columbus, OH; Role: **Program Committee Member**

*2011 OSU Center for Information Technology Innovation in Healthcare (CITIH) Summit*
April 18, 2010; Columbus, OH

Role: **Program Committee Member, Panelist, Moderator**

INSTITUTIONAL COMMITTEE/ADMINISTRATIVE ACTIVITIES

2019-Present Agency for Healthcare Research and Quality (AHRQ) National Advisory Council

 Role: Member

2018-Present IU-IUHealth Learning Health System Executive Governance Committee
 Role: Chair

2018-Present IU Health Data Management Executive Committee
Role: Member

2018-Present IU School of Medicine LCME Module Review Committee
Role: Member

2018-Present Indiana University School of Medicine Universal Bioreporitories Program Committee
Role: Member

2017-Present Indiana University School of Medicine Research Executive Committee
Role: Associate Dean for Informatics & Health Services Research

2015-2016 OSU Research IT Policy Committee
Role: Chair

2015-2016 OSU Wexner Medical Center Healthcare Transformation Steering Committee
Role: Member

2014-2016 OSU Department of Biomedical Informatics Service Line Director’s Meeting
Role: *Chair, Vice-Chair for Operations*

2012-2016 OSUMC IHIS Optimization/Prioritization Committee
Role: *Member*

2011-2016 OSUMC Information Enterprise Advisory Board
Role: Member

2011-2016 OSU Department of Biomedical Informatics Executive Committee
Role: Member/Vice-Chair for Operations

2010-2016 OSUMC Research Information Systems Steering Team (RISST)
Role: *Chair* (2011-Present); *Member (2010)*

2014-2016 OSU Department of Biomedical Informatics BMI/DAC Faculty Search Committee

 Role: Co-Chair

2011-2014 OSUMC Research IT Operations Team
Role: *Chair*

2009-2010 UC Department of Biomedical Informatics Chairperson Search Committee
Role: *Participant*

2009-2010 UC College of Medicine Grievance Committee for Clinical Faculty
Role: *Chairperson*

2007-2010 UC Center for Clinical and Translational Science and Training Steering Committee
Role: *Director of Biomedical Informatics Program*

**Consultancies and OTHER Professional Activities**

2017-Present External Advisory Board, CD2H Informatics Coordinating Center
CTSA Consortium

2017-Present External Advisory Board, Georgetown Clinical and Translational Science Institute (CTSA)
Georgetown University, Washington, DC

2017-Present External Advisory Board, Colorado Clinical and Translational Science Institute (CTSA)
University of Colorado, Denver, CO

2016-Present External Advisory Board (Chairperson), Pittsburgh Department of Biomedical Informatics
University of Pittsburgh, Pittsburgh, PA

2016-Present External Advisory Board, *Iowa Institute for Clincial and Translational Science* (CTSA)
University of Iowa, Iowa City, IA

2016-Present *External Scientific Advisory Board, Yale Center for Clinical Investigation (CTSA)*
Yale University, New Haven, CT

2015-Present *External Advisory Board (Chair), OneFlorida Clinical Research Consortium*
PCORI Clinical Data Research Network (CDRN)

2015-Present *External Advisory Council, Clinical and Translational Science Institute (CTSA)*
University of Miami, Miami, FL

2015-Present *External Advisory Board, Clinical and Translational Science Institute (CTSA)*
Univeristy of Florida, Gainesville, FL

2015-Present *National Library of Medicine Board of Scientific Counselors (Chairperson, 2017-2018)*
NIH, Bethesda, MD

2014-Present *Senior Medical Advisor/Consultant*
Signet Accel LLC, Columbus, OH

2011-Present *External Advisory Board, Center for Clinical and Translational Research*Virginia Commonwealth University, Richmond, VA

2011-Present *External Advisory Board Comprehensive Cancer Center,* Massey Cancer Center, Virginia Commonwealth University, Richmond, VA

2014-2018 *Clinical Informatics Fellowship Pre-Review Panel*
ACGME, Chicago, IL

2014-2015 *Clinical Informatics Fellowship Milestones Initiative*
ACGME, Chicago, IL

2013-2016 *EPIC Data Sharing Network Advisory Committee (Uncompensated)*
Epic Coproration, Verona WI (Role: Re-elected Member; Elected Chair, 2013-2015)

2015 *Patient Centered Outcomes Research (PCOR) Privacy and Security Research Scenario Initiative and Legal Analysis and Ethics Framework Work Group*
Office of the National Coordinator for Health IT (ONC)

2013 *NYU Research Informatics Program EAB*
NYU Langone Medical Center, New York, NY

2012 *Resaerch Informatics Advising*, University of Nebraska Health Center
Omaha, Nebraska

2012 *Data Warehousing Strategy Advising*, Univeristy of California in San Francisco (UCSF) Medical Center, San Francisco, CA

2010 *External Reviewer for Biomedical Informatics section of CTSA Initial Proposal,* Michigan State University (MSU); requester Phil Reed, PhD

2010 *External Reviewer for Biomedical Informatics section of CTSA Renewal Proposal,* University of California San Francisco (UCSF); requester Michael Kamerick

2009-2010 *External Advisor to CTSA-supported Biomedical Informatics program*
Virginia Commonwealth University, Richmond, VA

2009-2010 *Medical Center Fund of Cincinnati* (a non-profit corporation associated with UC); Elected At-Large Member of Executive Committee for 5 year term (cut short by move to OSU)

2009-2010 UC/*CCHMC T32 Adult and Pediatric Training Grant Rheumatology Advisory and Executive Committee*

2007-2010 *Health IT Workgroup,* *Cincinnati Aligning Forces for Quality Initiative*, Robert Wood Johnson Foundation funded project

2006-2010 *Advisory Board*, Master of Health Informatics Degree Program, Northern Kentucky University

**PATENTS, COPYRIGHTS, AND TECHNOLOGY/COMMERCIALIZATION ACTIVITIES**

2014 Co-Inventor of licensed technology and Co-Founder of Signet Accel, LLC
Licensed tech: N-Vision, TRIAD, and related federated software platform components

**SELECTED CIVIC VOLUNTEER ACTIVITIES (2010 and later)**

2008-2010 Den Leader and WebMaster, Cub Scout Pack 163, Cincinnati, Boy Scouts of America

**EDUCATIONAL ACTIVITIES (2010 and later)**

**PROGRAM/CURRICULUM DEVELOPMENT**

2018-Present Co-Director, Regenstrief/IU Learning Health System Fellowship Program

2016 Founding Director, OSU Clinical Informatics Fellowship Program (ACGME accredited)

2012-2016 Co-Director, NLM T15 OSU Clinical and Translational Research Informatics Program

2012-2016 Co-Director, Biomedical Informatics Specialization, OSU MS/MPH Programs

2011-2016 Co-Director, Health Systems, Informatics, and Quality Curriculum Design Committee. OSU College of Medicine *Lead, Serve, Inspire (LSI)* Curriculum

2011-2016 Contributor, OSU College of Medicine MD Curriculum Redesign – Informatics Portion

2010-2016 Director, OSU/AMIA 10x10 Clinical Research Informatics Program

2008-2010 Director, UC/AMIA 10x10 Clinical Research Informatics Program

2008-2010 Co-Director, Research Informatics Tracks, UC MS in Clinical Research Program

**TEACHING ACTIVITIES**

2012-2016 Course Director (annual), OSU BMI 5740 Introduction to Research Informatics

2012-2016 Course Director (annual), OSU/AMIA 10x10 Introduction to Clinical Research Informatics

2011-2016 Co-Instructor (annual), OSU BMI 5710, Introduction to Biomedical Informatics

2011 Guest Instructor, OSU Biomedical Informatics Interns lecture series

2011 Guest Instructor, OSU College of Medicine P4-Medicine Medical Student Elective

2011 Lead Instructor, OSU/AMIA 10x10 Introduction to Clinical Research Informatics course

2008-2010 Lead Instructor, UC/AMIA 10x10 Introduction to Clinical Research Informatics course

2006-2010 Co-Instructor, Introduction to Medical Informatics course, UC MS in Clinical Research

2005-2010 Instructor, UC Rheumatology Fellowship Core Curriculum; Topics: Vasculitis, Informatics

2004-2010 Attending Physician, Weekly Rheumatology Clinic, Cincinnati VAMC