

# Joshua R. Vest, PhD, MPH

## Curriculum Vitae

Department of Health Policy & Management  
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### EDUCATION

- 2010      Ph.D. in Health Services Research  
            Texas A&M Health Science Center School of Rural Public Health,  
            Department of Health Policy & Management  
            Concentration: Organizational Theory
- 2001      Master of Public Health  
            Saint Louis University, School of Public Health  
            Concentration: Epidemiology
- 1999      Bachelor of Science & Bachelor of Arts  
            Truman State University  
            Major: Biology

### POSITIONS HELD

- 2020-present      Professor, Department of Health Policy & Management, Indiana University Richard M. Fairbanks School of Public Health at Indiana University Purdue University Indianapolis, Indianapolis, IN
- 2019-present      Vice Chair, Department of Health Policy & Management, Indiana University Richard M. Fairbanks School of Public Health at Indiana University Purdue University Indianapolis, Indianapolis, IN
- 2016-present      Director, Center for Health Policy, Indiana University Richard M. Fairbanks School of Public Health at Indiana University Purdue University Indianapolis, Indianapolis, IN
- 2015-present      Research Scientist, Regenstrief Institute, Inc., Indianapolis, IN
- 2015-2020      Associate Professor, Department of Health Policy & Management, Indiana University Richard M. Fairbanks School of Public Health at Indiana University Purdue University Indianapolis, Indianapolis, IN
- 2012-2015      Assistant Professor, Department of Healthcare Policy and Research (formerly Department of Public Health), Weill Cornell Medical College, New York, NY
- 2010-2012      Assistant Professor, Jiann-Ping Hsu College of Public Health, Georgia Southern University, Health Policy & Management, Statesboro, GA
- 2007-2010      Project Coordinator for Center for Health Organization Transformation: a National Science Foundation Industry/University Cooperative Research Center, TAMHSC School of Rural Public Health, College Station, TX
- 2002-2007      Lead Epidemiologist, Austin / Travis County Health & Human Services Department, Austin, TX

2001-2002                      Research Specialist IV, Texas Department of State Health Services, Austin, TX

### **AWARDS & HONORS**

- 2019     CAHME/Wharton Research Data Services Best Paper for Empirical Research  
(Vest JR, Harris LE, Haut DP, Halverson PK, Menachemi N. Health Affairs. 2018)
- 2019     Second place - Morris Kahn & Maccabi Hackathon, Israel - Better interpretation of individual congestive heart failure risk (Apathy, Roberts, Vest)
- 2019     Third place – AHIMA19 Pitch Competition (Kasthurirathne, Vest, Halverson, Menachemi, Grannis)
- 2018     First place - the Inaugural Indiana Inject Tech Challenge (Biocrossroads) for new disruptive solutions designed to improve patient outcomes (Vest, Halverson, Menachemi, Grannis, Kasthurirathne)
- 2018     First place – AMIA Pitch IT Competition (Vest, Halverson, Menachemi, Grannis, Kasthurirathne)
- 2018     Regenstrief Institute Outstanding Investigator Award – Center for Biomedical Informatics
- 2013     The Homer R. Warner Award for best paper describing approaches to improving computerized information acquisition, knowledge data acquisition & management, and experimental results at American Medical Informatics Association Conference
- 2010     Top 10 most accessed article of past year in *Implementation Science*
- 2010     Texas A&M Health Science Center SRPH Award for Excellence in Research
- 2010     *Delta Omega* national public health honor society
- 2008     Healthcare Information & Management Systems Society (HIMSS) PhD Scholarship

### **INVITED PRESENTATIONS & LECTURES**

- 2020     Finger Lakes Data Conference. “Applications of data in health care.” Rochester, NY. November 10.
- 2020     Community Health Care Association of New York State. “Leveraging Health Information Exchange.” New York, NY. January 29.
- 2019     University of Texas at Austin, Dell Medical School. Health Informatics Grand Rounds. “Informatics @ Regenstrief: Ongoing and emerging innovative solution.” Austin, TX. February 22.
- 2018     Indiana University. School of Public and Environmental Affairs Health Policy Workshop. “Pushing and pulling health information.” Bloomington, IN. April 13.
- 2017     Ono Academic College. National Health Record System: local and global challenges and opportunities. “Lessons learned from Implementing HIE in the US.” Tel Aviv, Israel. September 5.
- 2016     National Institute for Health Research. Collaboration for Leadership in Applied Health Research and Care West CLAHSC & SPHERE, University of Bristol. “My patient is where? Automatically notifying providers of patients’ hospitalizations and emergency department visits: fit within the organization and impact.” Bristol, United Kingdom. May 25-26.
- 2016     Collegium de Lyon. Organiser & Partager l’information en santé: Le cas des données sur le patient. “Health information exchange: the US perspective.” Lyon, France. February 4.
- 2013     Pediatric Grand Rounds Series, Department of Pediatrics at New York Presbyterian-Weill Cornell. “Health information exchange in New York State: using information to change cost and quality”. New York, NY. November 12.
- 2013     Lister Hill Health Policy Seminar Series, University of Alabama-Birmingham. “Health information exchange and emergency department admissions: experiences from a NY Regional Health Information Organization evaluation”. Birmingham, AL September 11.
- 2013     Rochester Regional Health Information Organization 2013 Annual Meeting. “Evaluation of the Rochester RHIO’s Virtual Health Record. Findings from HEAL NY Phase 5”. Rochester, NY April 27.

**PEER-REVIEWED PUBLICATIONS**

1. Wiley Jr. KJ<sup>†</sup>, Ellis Hilts K, Ancker JS, Unruh MA, Hye-Young J, **Vest JR**. Organizational characteristics and perceptions of clinical event notification services in health care settings: a study of health information exchange. *JAMIA Open*. 00aa065; 2020. doi: 10.1093/jamiaopen/00aa065.
2. Apathy NC<sup>†</sup>, **Vest JR**, Adler-Milstein J, Blackburn, J, Harle, CA. Practice and market factors associated with provider volume of health information exchange. *Journal of the American Medical Informatics Association*. *In press*.
3. Brown-Podgorski B<sup>†</sup>, Shi Y, **Vest JR**. Patient Need and Provider Referrals to Diabetes Self-Management Education. *American Journal of Managed Care*. *In Press*.
4. Brown-Podgorski B<sup>†</sup>, de Groot M, Shi Y, **Vest JR**. Mandated Benefits for Diabetes Education and the Availability of Accredited Programs and Certified Diabetes Educators. *Population Health Management*. *In Press*.
5. Ben-Assulli O, Heart T, **Vest JR**, Ramon-Gonen R, Shlomo N, Klempfner R. Profiling Readmissions Using Hidden Markov Model - the Case of Congestive Heart Failure. *Information Systems Management*. *In press*.
6. **Vest JR**, Blackburn J, Yeager VA. COVID-19: The challenge of translating national and state reopening plans into local reopening policies. *Public Health Reports*. *In press*. doi:10.1177/0033354920971721. PMID: 33290170.
7. Brown-Podgorski B<sup>†</sup>, Shi Y, Holmes A. **Vest JR**. Patient Need and Provider Referrals to Diabetes Self-Management Education. *American Journal of Managed Care*. *In press*.
8. Bako AT<sup>†</sup>, Taylor HL<sup>†</sup>, Wiley Jr. KJ<sup>†</sup>, Zheng, J, Walter-McCabe HA, Kasthurirathne SN, **Vest JR**. Using natural language processing to classify social work interventions. *American Journal of Managed Care*. 27(1):e24-e31; 2021. doi: 10.37765/ajmc.2021.88580. PMID: 33471465.
9. Rahurkar S, **Vest JR**, Finnell JT, Dixon BE. Trends in User-Initiated Health Information Exchange in the Inpatient, Outpatient and Emergency Setting. *J Am Med Inform Assoc*. *In press*. doi: 10.1093/jamia/ocaa226. PMID: 33067617.
10. Bako AT<sup>†</sup>, Walter-McCabe H, Kasthurirathne SN, Halverson PK, **Vest JR**. Reasons for social work referrals in an urban safety-net population. *Journal of Social Service Research*. *In press*. doi: 10.1080/01488376.2020.1817834.
11. **Vest JR**, Unruh MA, Ellis Hilts K<sup>†</sup>, Sanner L, Jones J, Khokhar S, Jung HY. End user information needs for a SMART on FHIR-based automated transfer form to support the care of nursing home patients during emergency department visits. *AMIA Annual Proceedings 2020*; *In press*.
12. Apathy NC<sup>†</sup>, Harle CA, **Vest JR**, Morea J, Menachemi N. Use of Electronic Health Records on Days Off: Comparing Physicians to Other EHR Users. *Journal of General Internal Medicine*. *In press*. doi: 10.1007/s11606-020-06078-5. PMID: 32748344.
13. **Vest JR**, Freedman S, Unruh MA, Bako AT<sup>†</sup>, Simon K. Strategic use of health information exchange and market share, payer mix, and operating margins. *Health Care Management Review*. *In press*. doi: 10.1097/HMR.0000000000000293. PMID: 33298801.
14. Unroe KT, Caterino JM, Stump TE, Tu W, Carnahan JL, **Vest JR**, Sachs GA, Hickman SE. Long-stay nursing facility resident transfers: Who gets admitted to the hospital? *Journal of the American Geriatrics Association*. 68(9):2082-2089; 2020. doi: 10.1111/jgs.16633. PMID: 33460101.
15. Kasthurirathne S, Grannis S, Menachemi N, Halverson P, **Vest JR**. Precision health-enabled machine learning to identify need for wraparound social services using patient- and population-level data sets: algorithm development and validation. *JMIR Medical Informatics*. 8(7):e16129; 2020. doi: 10.2196/16129. PMID: 32479414

16. Biviji R,† **Vest JR**, Dixon BE, Cullen T, & Harle, C.A. Content analysis of behavior change techniques in maternal and infant health apps. *Translational Behavioral Medicine*. ibaa039; 2020. doi.org/10.1093/tbm/ibaa039
17. Balio C,† Wiley Jr K,† Greene M, **Vest JR**. Opioid-Related Emergency Department Encounters: Patient, Encounter, and Community Characteristics associated with Repeat Encounters. *Annals of Emergency Medicine*. 75(5):568-575; 2020. doi: 10.1016/j.annemergmed.2019.12.005. PMID: 31983498.
18. Biviji R†, **Vest JR**, Dixon BE, Cullen T, Harle CA. Factors related to user ratings and user downloads of mobile apps for Maternal and Child Health. *JMIR mHealth & uHealth*. 8(1):e15663; 2020. doi: 10.2196/15663. PMCID: PMC7007596.
19. Ben-Assuli O. **Vest JR**. Data mining techniques utilizing latent class models to evaluate emergency department revisits. *Journal of Biomedical Informatics*. 101:103341; 2020. doi: 10.1016/j.jbi.2019.103341. PMID: 31747623.
20. **Vest JR**, Unruh MA, Casalino LP, Shapiro JS. The complementary nature of query-based and directed health information exchange in primary care practice. *Journal of the American Medical Informatics Association*. 27(1):73-80; 2020. doi: 10.1093/jamia/ocz134. PMID: 31592529.
21. Golembiewski E†, Allen KS†, Blackmon AM, Hinrichs RJ, **Vest JR**. Combining social determinants of health and clinical data for research and evaluation: a rapid review. *JMIR Public Health and Surveillance*. 5(4):e12846; 2019. doi: 10.2196/12846. PMCID: PMC6803891.
22. **Vest JR**, Ellis Hilts K†, Ancker JS, Unruh MA, Jung HY. Usage of query-based health information exchange after event notifications. *JAMIA Open*. ooz026; 2019. doi: 10.1093/jamiaopen/ooaa065. PMCID: PMC6951916.
23. **Vest JR**, Ben-Assuli O. Prediction of emergency department revisits using area-level social determinants of health measures and health information exchange information. *International Journal of Medical Informatics*. 129; 205-210; 2019. doi: 10.1016/j.ijmedinf.2019.06.013. PMID: 31445257.
24. **Vest JR**, Unruh MA, Freedman S, Simon K. Health systems' use of enterprise health information exchange vs. single electronic health record vendor environments and unplanned readmissions. *Journal of the American Medical Informatics Association*. 26(10):990-998; 2019. doi: 10.1093/jamia/ocz116. PMID: 31348514.
25. Kasthurirathne S, Biondich P, Grannis S, Purkayastha S, **Vest JR**, Jones J. Development and Validation of Machine-Learning Approaches to Identify Patients in Need of Advanced Care for Depression Using Data Extracted from a Statewide Health Information Exchange. *Journal of Medical Internet Research*. 21(7): e13809; 2019. doi:10.2196/13809. PMID: 31333196.
26. **Vest JR**, Unruh MA, Shapiro JS, Casalino LP. The associations between query-based and directed health information exchange with potentially avoidable use of health care services. *Health Services Research*. 54(5):981-993; 2019. doi: 10.1111/1475-6773.13169. PMID: 31112303.
27. Ancker JS, Mauer E, Kalish RB, **Vest JR**, Gossey JT. Early adopters of patient-generated health data (PGHD) upload in an electronic patient portal. *Applied Clinical Informatics*. 10(2):254-260; 2019. doi:10.1055/s-0039-1683987. PMCID: PMC6458021.
28. Grannis S, Xu H, **Vest JR**, Kasthurirathne S, Bo N, Moscovitch B, Torkzadeh R. Evaluating the effect of data standardization and validation on patient matching accuracy. *Journal of the American Medical Association*. 26(5):447-456; 2019. doi:10.1093/jamia/ocy191. PMID: 30848796.
29. **Vest JR**, Menachemi N, Grannis S, Ferrell J, Kasthurirathne S,† Zhang Y, Tong Y, Halverson P. Impact of risk stratification on referrals and uptake of wraparound services to address social determinants: a stepped wedged trial. *American Journal of Preventive Medicine*. 56(4):e125-e133; 2019. doi: 10.1016/j.amepre.2018.11.009. PMID: 30772150.
30. **Vest JR**, Ben-Assuli O. Contribution of different data sources to the prediction of emergency department revisits in a safety-net population. *ICIS 2018 Proceedings*. San Francisco, CA; 2018.

31. Brown-Podgorski BL,† Ellis Hilts K,† Kash BA, Schmit CD, **Vest JR**. The association between state-level health information exchange laws and hospital participation in community health information organizations. *AMIA Annual Symposium Proceedings* 2018. 2018:313-320. PMID: 30815070 PMCID: PMC6371387.
32. **Vest JR**, Jung HY, Wiley Jr K,† Kooreman H, Petit L, Unruh MA. Adoption of health information technology among U.S. nursing facilities. *Journal of the American Medical Directors Association*. 20(8):995–1000; 2019. doi: 10.1016/j.jamda.2018.11.002 PMCID: PMC6591108.
33. **Vest JR**, Harle CA, Menachemi N. Guidance on academic presentations for doctoral students and junior faculty. *Journal of Health Administration Education*. 35(4):587-598; 2018.
34. Williams KS,† Harle CA, **Vest JR**, Johnston A, Menachemi N. How and why health administration students should learn how to use an EHR. *Journal of Health Administration Education*. 35(4):575-585; 2018.
35. **Vest JR**, Harris LE, Haut DP, Halverson PK, Menachemi N. Indianapolis provider's use of wraparound services associated with reduced hospitalizations and emergency department visits. *Health Affairs*. 37(10): 1555-1561; 2018. doi: 10.1377/hlthaff.2018.0075. PMID: 30273041.
36. **Vest JR**, Simon K. Hospitals' adoption of intra-system information exchange is negatively associated with inter-system information exchange. *Journal of the American Medical Informatics Association*. 25(9):1189-1196; 2018. doi: 10.1093/jamia/ocy058. PMID: 29860502.
37. Menachemi N, Rahurkar S, Harle CA, **Vest JR**. The benefits of health information exchange: an updated systematic review. *Journal of the American Medical Informatics Association*. 25(9):1259-1265; 2018. doi: 10.1093/jamia/ocy035. PMID: 29718258.
38. **Vest JR**. Caine V. Harris L. Watson D. Menachemi N. Halverson P. Fostering local health department and health system collaboration through case conferences for at-risk and vulnerable populations. *American Journal of Public Health*. 108(5): 649-651; 2018. doi: 10.2105/AJPH.2018.304345. PMID: 29565669.
39. Unruh MA, Jung HY, Kaushal R, **Vest JR**. Hospital Participation in Meaningful Use and Racial Disparities in Readmissions. *American Journal of Managed Care*. 24(1):38-42; 2018. PMID:29350507.
40. Kasthurirathne SN,† **Vest JR**, Menachemi N, Halverson PK, Grannis SJ. Assessing the Capacity of Social Determinants of Health Data to Augment Predictive Models Identifying Patients in Need of Wraparound Social Services. *Journal of the American Medical Informatics Association*. 25(1):47-53; 2018. doi: 10.1093/jamia/ocx130. PMID: 29177457.\*
41. **Vest JR**, Grannis SJ, Haut DP, Halverson PK, Menachemi N. Using structured and unstructured data to identify patients' need for services that address the social determinants of health. *International Journal of Medical Informatics*. 107:101-106; 2017. doi: 10.1016/j.ijmedinf.2017.09.008. PMID: 29029685.
42. **Vest JR**, Menachemi N. A population ecology perspective on the functioning and future of health information organizations. *Health Care Management Review*. 44(4):344-355; 2019. doi: 10.1097/HMR.000000000000185. PMID: 29095369.
43. **Vest JR**, Greenberger M, Garnatz A. Diverging views on health information exchange organizations. *Learning Health Systems*. 1(3): e10031. doi: 10.1002/lrh2.10031.
44. Yeager VA, **Vest JR**, Walker D, Diana ML, Menachemi N. Challenges to Conducting Health Information Exchange Research and Evaluation. *eGEMs*. 5(1): 1-15; 2017. doi: 10.13063/egems.1290. PMID: 29881735.
45. Unruh MA, Jung HY, **Vest JR**, Casalino LP, Kaushal R, for the HITEC Investigators. Meaningful Use of Electronic Health Records by Outpatient Physicians and Readmissions of Medicare Fee-for-Service Beneficiaries. *Medical Care*. 55(5):493-499; 2017. doi: 10.1097/MLR.0000000000000695. PMID: 28079709.
46. Jung HY, Unruh MA, **Vest JR**, Casalino LP, Kern LM, Grinspan ZM, Boa Y, Kaushal R for the HITEC Investigators. Physician Participation in Meaningful Use and Quality of Care for Medicare Fee-for-Service Enrollees. *Journal of the American Geriatrics Society*. 65(3):608-613; 2017. doi: 10.1111/jgs.14704. PMID: 28008597.

47. Unruh MA, Jung HY, Kaushal R, **Vest JR**. Hospitalization event notifications and reductions in readmissions of Medicare fee-for-service beneficiaries in the Bronx, New York. *Journal of the American Medical Informatics Association*. 24(e1):e150-e156; 2017. doi: 10.1093/jamia/ocw139. PMID: 28395059.
48. Jung HY, Gichoya JW, † **Vest JR**. Providers' access of imaging versus only reports: a system log file analysis. *Journal of the American College of Radiology*. 14(2): 217-223; 2017 doi: 10.1016/j.jacr.2016.06.014. PMID: 27475970.
49. Shah GH, **Vest JR**, Lovelace K, McCullough JM. Local Health Departments' Partners and Challenges in Electronic Exchange of Health Information. *Journal of Public Health Management & Practice*. 22: S44-S50; 2016. doi: 10.1097/PHH.0000000000000442. PMID: 27684617.
50. Harle CA, **Vest JR**, Menachemi N. Using bibliometric big data to analyze health policy and management faculty research productivity. *Journal of Health Administration Education*. *Journal of Health Administration Education*. 33(2): 285-293; 2016.
51. Harle, CA, Mullen CJ, **Vest JR**, Menachemi N. Not only teachers: What do health administration faculty members do? *Journal of Health Administration Education*. *Administration Education*. 33(2): 235-251; 2016.
52. **Vest JR**, Ancker JS. Health information exchange in the wild: association between organizational capability and perceived utility of clinical event notifications in ambulatory and community care. *Journal of the American Medical Informatics Association*. 24(1); 39-46; 2017. doi: 10.1093/jamia/ocw040. PMID: 27107436.
53. **Vest JR**. Geography of community health information organization activity in the US: implications for the effectiveness of health information exchange. *Health Care Management Review*. 42(2):132-141; 2017. doi: 10.1097/HMR.0000000000000103. PMID: 26982490.
54. **Vest JR** and Kash BA. Differing strategies to meet information sharing needs: the publicly supported community health information exchange versus health systems' enterprise health information exchanges. *The Milbank Quarterly*. 94(1): 77-108; 2016. doi: 10.1111/1468-0009.12180.
55. **Vest JR** and Abramson EL. Organizational uses of health information exchange to change cost and utilization outcomes: a typology from a multi-site qualitative analysis. *AMIA Annual Symposium Proceedings 2015*; 2015: 1260-1268. PMID: 26958266. PMCID: PMC4765592.
56. Jung HY, **Vest JR**, Unruh MA, Kern LM, Kaushal R, for the HITEC Investigators. Use of health information exchange and repeat imaging costs. *Journal of the American College of Radiology*. 12(12 Part B): 1364-1370; 2015. doi: dx.doi.org/10.1016/j.jacr.2015.09.010. PMID: 26614881.
57. **Vest JR**, Jung HY, Ostrovsky A, † Das LT, † McGinty GB. Image Sharing Technologies and Reduction of Imaging Utilization: A Systematic Review and Meta-analysis. *Journal of the American College of Radiology*. 12(12 Part B): 1371-1379; 2015. doi: dx.doi.org/10.1016/j.jacr.2015.09.014. PMID: 26614882.
58. Jung HY, Unruh MA, Kaushal R, **Vest JR**. Growth of New York physician participation in Meaningful Use of electronic health records was variable, 2011-12. *Health Affairs*. 34(6): 1035-1043; 2015. doi:10.1377/hlthaff.2014.1189. PMID:26056210.
59. Rahurkar S, † **Vest JR**, Menachemi N. Despite the spread of health information exchange, there is little evidence of impact on cost, use, and quality. *Health Affairs*. 34(3):477-483; 2015. doi:10.1377/hlthaff.2014.0729. PMID:25732499.\*
60. Richardson JE, **Vest JR**, Green CM, Kern LM, Kaushal R and the HITEC investigators. A needs assessment of health information technology for improving care coordination in three leading patient-centered medical homes. *Journal of the American Medical Informatics Association*. 22(4):815-820; 2015. doi:10.1093/jamia/ocu039. PMID:25796597.
61. **Vest JR**, Kaushal R, Silver MD, Hentel K, Kern LM for the HITEC Investigators. Health information exchange and the frequency of repeat medical imaging. *American Journal of Managed Care*. 20(11 Spec No. 17):eSP16-eSP24; 2014. PMID:25811815.

62. Kierkegaard P,† Kaushal R, **Vest JR**. Information retrieval pathways for health information exchange in multiple care settings. *American Journal of Managed Care*. 20(11 Spec No. 17): SP494-SP501; 2014. PMID:25811823.
63. Kierkegaard P,† Kaushal R, **Vest JR**. How could health information exchange better meet the needs of care practitioners? *Applied Clinical Informatics*. 5(4): 861-877; 2014. doi:10.4338/ACI-2014-06-RA-0055. PMID:25589903. PMCID:PMC4287667.
64. **Vest JR**, Kern LM, Silver MD, Kaushal R for the HITEC Investigators. The potential for community-based health information exchange systems to reduce hospital readmissions. *Journal of the American Medical Informatics Association*. 22(2):435-442; 2015. doi:10.1136/amiajnl-2014-002760. PMID:25100447.\*
65. Kierkegaard P,† Kaushal R, **Vest JR**. Applications of health information exchange information to public health practice. *AMIA Annual Symposium Proceedings 2014*; 2014:795-804. PMCID:PMC4419901.
66. Campion Jr TR, **Vest JR**, Kern LM, Kaushal R for the HITEC investigators. Adoption of Clinical Data Exchange in Community Settings: A Comparison of Two Approaches. *AMIA Annual Symposium Proceedings 2014*; 2014:359-365. PMCID:PMC4419957.
67. **Vest JR**, Kern LM, Abramson EL, Ancker JS, Kaushal R for the HITEC Investigators. Effect of a state-based incentive programme on the use of electronic health records. *Journal of Evaluation in Clinical Practice*. 20(5):657-663; 2014. doi:10.1111/jep.12195. PMID:24943902.
68. **Vest JR**, Kern LM, Jung HY, Ancker JS, Richardson JE, Silver MD, Kaushal R for the HITEC Investigators. Patient-centered medical homes: observable types derived from national recognition assessment scores. *Journal of Ambulatory Care Management*. 38(2):144-52; 2015. doi:10.1097/JAC.0000000000000064. PMID:25748263.
69. **Vest JR**, Kern LM, Campion Jr TR, Silver MD, Kaushal R for the HITEC Investigators. Association between use of a health information exchange system and hospital admissions. *Applied Clinical Informatics*. 5(1): 219-231; 2014. doi:10.4338/ACI-2013-10-RA-0083. PMCID:PMC3974257.
70. **Vest JR**, Campion JR TR, Kern LM, Kaushal K for the HITEC investigators. Public and Private Sector Roles in Health Information Technology Policy. *Health Technology & Policy*. 3(2):149-156; 2014. doi:10.1016/j.hlpt.2014.03.002
71. **Vest JR**, Issel LM, and Lee S. Experience of using information systems in public health practice: Findings from a qualitative study. *Online Journal of Public Health Informatics*. 5(3): 227; 2014. doi:10.5210/ojphi.v5i3.484. PMCID:PMC3959909.
72. Abramson EL, Kaushal R, **Vest JR**. Improving Immunization Data Management: An Editorial on the Potential of Electronic Health Records. *Expert Review of Vaccines*. 13(2): 189-191; 2014. doi:10.1586/14760584.2014.870038. PMID:24350664.
73. **Vest JR**, Issel LM. Factors related to public health data sharing between local and state health departments. *Health Services Research*. 40(1 Pt 2): 373-391. 2014. doi:10.1111/1475-6773.12138. PMCID: PMC3925408.
74. **Vest JR**, Campion Jr, TR, Kaushal R for the HITEC Investigators. Challenges, alternatives, and paths to sustainability for health information exchange efforts. *Journal of Medical Systems*. 37(6): 9987; 2013. doi:10.1007/s10916-013-9987-7. PMID:24141531.
75. **Vest JR**, Grinspan ZM,† Kern LM, Campion Jr TR, Kaushal R with the HITEC Investigators. Using a Health Information Exchange System for Imaging Information: Patterns and Predictors. *AMIA Annual Symposium Proceedings 2013*; 2013:1402-11. PMCID:PMC3900154.
76. Campion TR Jr, **Vest JR**, Ancker JS, Kaushal R with the HITEC investigators. Patient encounters and care transitions in one community supported by automated query-based health information exchange. *AMIA Annual Symposium Proceedings 2013*; 2013:175-84. PMCID:PMC3900171.
77. **Vest JR**, Yoon J, Bossak BH. Changes to the electronic health records market in light of health information technology certification and Meaningful Use. *Journal of the American Medical Informatics Association*. 20(2):227-232; 2013. doi:10.1136/amiajnl-2011-000769. PMID:22917839.

78. **Vest JR**, Stephens JH. The use and role of open source software applications in public and not-for-profit hospitals in the United States. *Health Care Management Review*. 38(4):361-370; 2013. doi:0.1097/HMR.0b013e318276f9ed. PMID:23123947.
79. **Vest JR**, Issel LM. Data Sharing between Local Health and State Health Departments: Developing and Describing a Typology of Data Gaps. *Journal of Public Health Management & Practice*. 19(4): 357-365; 2013. doi:10.1097/PHH.0b013e31826d8045. PMID:23719391.
80. **Vest JR**, Kirk HM, Issel LM. Quality and integration of public health information systems: a systematic review focused on immunization and vital records systems. *Online Journal of Public Health Informatics*. 4(2):1-18; 2012. doi:p11: ojphi.v4i2.4198. 10.5210/ojphi.v4i2.4198, PMCID:PMC3615811.
81. **Vest JR**, Shah GH. The extent of interorganizational resource sharing among local health departments: the association with organizational characteristics and institutional factors. *Journal of Public Health Management & Practice*. 18(6):551-560; 2012. doi:10.1097/PHH.0b013e31825b89e4. PMID:23023280.
82. **Vest JR**. Health information exchange: national and international approaches. *Advances in Health Care Management*. 12(1):3-24; 2012. doi:10.1108/S1474-8231(2012)0000012005. PMID:22894043.
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†Mentored student / post-doc fellow co-author

\* Included in the AMIA Annual Symposium Year in Review

### **Publications Currently Under Review**

1. **Vest JR**, Kasthurirathne SN, Ge W†, Gutta J, Ben-Assuli O, Halverson PK. Choice of measurement approach for area-level social determinants of health and risk prediction model performance.
2. Taylor H†, Burmitt G†, Harle CA, Johnston A, Williams K, **Vest JR**. Student perceptions of a teaching electronic medical record in health administration education.
3. **Vest JR**, Blackburn J, Yeager VA, Haut DP, Halverson PK. Primary care-based case conferences and reductions in health care utilization.
4. Ben-Assuli O, **Vest JR**. Return visits to the emergency department: an analysis using group based curve models.
5. Rahrkar S, Rivera RL†, Schaffer J, **Vest JR**, Schleyer TKL. Effects of Integrating Information from a Health Information Exchange into the Electronic Health Record for Emergency Department Chest Pain Patients.

6. Vest JR, Blackburn J, Yeager VA, Haut DP, Halverson PK. Primary care-based case conferences and reductions in health care utilization.
7. Yeager VA, Taylor HL<sup>†</sup>, Menachemi N, Haut DP, Halverson PK, Vest JR. Best Practices for Implementing Case Conferences to Mitigate Social Determinants in Primary Care.
8. Vest JR, Kasthurirathne SK, Ge W<sup>†</sup>, Gutta J, Ben-Assuli O, Halverson PK. Type or Choice of Measurement Approach for Area-level Social Determinants of Health and Risk Prediction Model Performance.

#### COMMENTARIES, BOOK CHAPTERS, REPORTS & OTHER NON-PEER-REVIEWED PUBLICATIONS

1. Ben-Assuli O, **Vest JR**. "ED Revisits Forecasting: Utilizing Latent Models." In Bi Y, Bhatia R, Kapoor S, editors. Intelligent Systems and Applications. IntelliSys 2019. Advances in Intelligent Systems and Computing. vol 1038. Springer, Cham, 2020. doi.org/10.1007/978-3-030-29513-4\_52
2. **Vest JR**, Harle CA, Schleyer T, Dixon BE, Grannis SJ, Halverson P, Menachemi N. Getting from here to there: HIT needs for population health. *American Journal of Managed Care*. 22(12):827-829; 2016. PMID: 27982666s.
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4. **Vest JR**, Martin EG. "Creating a 21st Century Health Information Technology Infrastructure: New York's Health Care Efficiency and Affordability Law for New Yorkers Capital Grant Program." In: Dixon BE, editor. Health Information Exchange: Navigating and Managing a Network of Health Information Systems. San Diego: Elsevier, 2016.
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6. Center for Healthcare Informatics & Policy. User Perspectives on Health Information Exchange Usage and Workflow Fit: A Qualitative Study of Three New York State Regional Health Information Organizations. New York eHealth Collaborative. December 2013.
7. Healthcare Information & Management Systems Society. States Will Transform Healthcare through Health IT and HIE Organizations: a report of the 2011-2012 HIMSS State Advisory Roundtable. June 2012.
8. **Vest JR**, Valadez AM. Perceptions of neighborhood characteristics and leisure-time physical inactivity--Austin/Travis County, Texas, 2004. *MMWR* 54(37):926-8, 2005. PMID:16177684

\* Included in the AMIA Annual Symposium Year in Review

#### CONFERENCE PRESENTATIONS

- Taylor H<sup>†</sup>, Apathy N<sup>†</sup>, Vest JR. Health information exchange use during dental visits. Annual American Medical Informatics Association 2020 Annual Symposium. November 14-18, 2020.
- Vest JR, Halverson PK, Harris LE, Haut DP, Menachemi N. Impact of risk stratification and referral to social services on subsequent emergency and hospital utilization. American Medical Informatics Association Clinical Informatics Conference. Seattle, WA. May 19-21, 2020.
- Apathy NC<sup>†</sup>, Roberts A, Hayden R, Harle CA, Vest JR. Visualizing patient-level risk factors from clinical risk prediction algorithms. American Medical Informatics Association Clinical Informatics Conference. Seattle, WA. May 19-21, 2020.
- Vest JR. Identifying Patients in Need of Services to Address Social Needs and Risks with Machine Learning. Health Datapalooza. Washington, DC. February 10-11, 2020.
- Vest JR. Interoperable information in prediction modeling: contribution and application to patients. 2020 ONC Annual Meeting. Washington, DC. January 27-28, 2020.
- Rivera R<sup>†</sup>, Rahrurkar S, Dixon B, Vest JR, Menachemi N, Menachemi N, Zhang Y, Adler-Milstein J, Schleyer T. Towards Measuring Real-World vs. Theoretical Impact: Development of an Enhanced Method for Evaluating

- Health Information Exchange (HIE). Annual American Medical Informatics Association 2019 Annual Symposium. Washington, DC. November 16-20, 2019.\*
- Apathy N†, Vest JR, Menachemi N, Morea J, Harle CA. Differing patterns in frequency of electronic health records documentation among clinicians following the replacement of a legacy EHR system. Annual American Medical Informatics Association 2019 Annual Symposium. Washington, DC. November 16-20, 2019.\*
- Wiley K†, Balio C†, Greene M, Vest JR. Using natural language processing to detect opioid use disorder in the emergency department. Annual American Medical Informatics Association 2019 Annual Symposium. Washington, DC. November 16-20, 2019.\*
- Apathy N†, Vest JR, Menachemi N, Morea J, Harle CA. Impact of Transitioning from a Homegrown to a Commercial EHR on User Satisfaction. AcademyHealth 2019 Annual Research Meeting. Washington, DC. June 2-4, 2019.\*
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- Bako A†, Vest JR. Reasons for Referral to Social Worker in a Primary Healthcare Setting: A Market Basket Analysis and Natural Language Processing Approach. AcademyHealth 2019 Annual Research Meeting. Washington, DC. June 2-4, 2019.\*
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- Vest JR. Getting the most out of health information exchange. Qual IT. Albany, NY. April 15-16, 2019.
- Dixon B, Grannis SJ, Hollbrook E, Patel C, Vest JR. Navigating the Exposome: Real-world Experiences Connecting Environment, Community, and Behavior to Health. Annual American Medical Informatics Association 2018 Annual Symposium. San Francisco, CA. November 3-7.
- Vest JR, Harris L, Haut D, Halverson PK, Menachemi N. Wraparound Services as a Strategy to Reduce Hospitalizations. AcademyHealth 2018 Annual Research Meeting. Seattle, WA. June 25-27, 2018.
- Vest JR, Wareing Evans T, Werder J, Allen M. Designing for Impact in Integrated Service Delivery Panel Discussion. 2018 State Healthcare IT Connect Summit. Baltimore, MD. April 5-6, 2018.
- Vest JR, Wolf L, Gallego E, Pettit L. Status of HIT Adoption in LTPAC: Drivers and Policy Options Panel Discussion. HIMSS18. Las Vegas, NV. March 5-9, 2018.
- Vest JR, Grannis SJ, Williams JL, Haut DP, Menachemi N. Using EHR and HIE data to identify patients' need for services that address the social determinants of health. Annual American Medical Informatics Association 2017 Annual Symposium. Washington, DC. November 4-8.
- Apathy NC†, Vest JR, Menachemi N, Putz JW, Morea JG, Harle CA. Differing patterns of satisfaction and perception among clinical and non-clinical users following replacement of a legacy EHR system. Annual American Medical Informatics Association 2017 Annual Symposium. Washington, DC. November 4-8.
- Dixon B, Vest JR. Unpacking care coordination alerts: what, how, and why they matter. 2017 Midwest Fall Technology Conference. Indianapolis, IN. October 22-24, 2017.
- Vest JR. Using data to identify patients who need social services. Indiana Health Law Review Symposium. Indianapolis, IN. October 20, 2017.

- Vest JR, Bako A<sup>†</sup>, Kasthurirathne SN<sup>†</sup>, Grannis S. Services for Social Determinants of Health Delivered in Primary Care Settings: Measurement & Prevalence. AcademyHealth 2017 Annual Research Meeting. New Orleans, LA. June 25-27, 2017.
- Apathy N<sup>†</sup>, Vest JR, Menachemi N, Harle CA. Changes in User Perceptions of Their Electronic Health Record Following the Replacement of a Legacy System. AcademyHealth 2017 Annual Research Meeting. New Orleans, LA. June 25-27, 2017.\*
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- Yeager M, Asnaani J, Kendrick D, Galanis C, Fisne J, Vest JR. Real vs. Perceived views on health information exchange organizations – an HIE multi-stakeholder panel. HMISS17. Orlando, FL. February 19-23, 2017.
- Vest JR, Halverson P. Effects of an integrated service delivery approach on health care utilization: Preliminary findings. 2016. American Public Health Association Annual Meeting & Expo. Denver, CO. October 29 – November 2.
- Dixon BE, Shapiro JS, Ancker JS, Vest JR, Haque SN. Wait, my patient is where? Promises, challenges, and impact of automated event notification systems. Annual Medical Informatics Association 2016 Annual Symposium. Chicago, IL. November 12-16.
- Adler-Milstein J, Grannis S, Vest JR. HIE research: looking back & looking forward. 2016 SHIEC Annual Conference. Scottsdale, AZ. September 18-21.
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- Vest JR. Policy insights from health informatics. America College of Radiology Annual Meeting. Washington, DC. May 15-19, 2016.
- Vest JR, Kash BA. Enterprise Health Information Exchange: Motivations & Strategies. AcademyHealth 2015 Annual Research Meeting. Minneapolis, MN. June 14-16, 2015.
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- Unruh MA, Vest JR, Jung HY, Kaushal R. Hospital Participation in Meaningful Use and Rehospitalization of Medicare Beneficiaries. AcademyHealth 2015 Annual Research Meeting. Minneapolis, MN. June 14-16, 2015.
- Jung HY, Unruh MA, Vest JR, Casalino L, Kaushal R. Physician Participation in Meaningful Use and Rehospitalization of the Dually-Eligible. AcademyHealth 2015 Annual Research Meeting. Minneapolis, MN. June 14-16, 2015.
- Yeager VA, Vest JR, Walker D, Diana ML, Menachemi N. Challenges to Conducting HIE Research and Evaluation: Reflections and Recommendations for Examining the Value of HIE. AcademyHealth 2015 Annual Research Meeting. Minneapolis, MN. June 14-16, 2015.\*
- Issel LM, Vest JR, Handler A. Not All Local Health Departments Do It All: LHDs and Provision of Maternal and Child Health Services. AcademyHealth 2015 Annual Research Meeting. Minneapolis, MN. June 14-16, 2015.\*
- Vest JR, Grinspan ZM. Population Health Management: Using Geo-Mapping to Enable Data-Driven Decisions Today HIMSS 2015 Annual Conference & Exhibition. Physicians IT Pre-symposia. Chicago, IL. April 12-16, 2015.
- Vest JR, Yeager VA. The evaluation of health information exchange activities: what we found and how to do it. American Medical Informatics Association Evaluation Working Group Webinar. December 11, 2014.
- Vest JR. How can HIE help information population health? The answer depends on your definition of population, your exchange mechanism, and your organizational relationships. AMIA 2014 PHI Working Group PreSymposium. Washington, DC. November 15, 2014.

- Dixon B, Foldy S, Blackburn C, Karras BT, Vest JR. Using Health Information Exchanges for Public Health – Why, How, and What’s Worked. 2014 Public Health Informatics Conference. Atlanta, GA. April 28-30, 2014.
- Richardson JE, Vest JR, Abramson EL, Pfoh ER, Kaushal R with the HITEC Investigators. Evaluating the Nature of Health Information Technology Client-Vendor Relationships. Annual Medical Informatics Association 2013 Annual Symposium. Washington, DC. November 16-20.
- Vest JR, Kaushal R, Silver M, Hentel K, Kern LM with the HITEC Investigators. Health information exchange usage and repeat medical imaging. AcademyHealth 2013 Annual Research Meeting. Baltimore, MD. June 23-25, 2013.\*
- Vest JR, Kern LM, Campion Jr TR, Silver MD, Kaushal R with the HITEC Investigators. The association between community-wide longitudinal patient record systems and admissions via the ED. AcademyHealth 2013 Annual Research Meeting. Baltimore, MD. June 23-25, 2013.\*
- Singh H, Menachemi, N, Vest JR, Sittig, D. Research challenges and opportunities in assessing EHR safety and effectiveness. AcademyHealth 2013 Annual Research Meeting. Baltimore, MD. June 23-25, 2013.
- Vest JR, Issel LM, Lee S, Heiniger JB. Sharing data between local health departments & state health agencies: needs, challenges, and workarounds. Public Health Services & Systems Research Keeneland Conference. Lexington, KY. April 8-11, 2013.
- Vest JR, Kern LM, Kaushal R, Campion Jr TR, Silver MD, Patel V. The Rochester RHIO’s Virtual Health Record & hospital admissions from the emergency department. NYeC Digital Health Conference. New York, NY. October 14-15, 2012.
- Vest JR, Shah GH. Extent and nature of resource sharing among local health departments. Public Health Services & Systems Research Keeneland Conference. Lexington, KY. April 17-19, 2012.
- Ozkaynak M, Ancker JS, Vest JR, LaVenture M, Ross SE. Evaluating HIE Systems: Understanding the Elephant by Examining Each Body Part. Annual Medical Informatics Association 2011 Annual Symposium.
- Vest JR, Menachemi N, Ford EW. The Role of Governance in the Extent of Information System and Technology Usage in Local Health Departments. AcademyHealth 2011 Annual Research Meeting. Seattle, WA. June 12-14, 2011.\*
- Vest JR, Jasperson, J. Routine and novel search patterns in a health information exchange. Annual Medical Informatics Association 2010 Annual Symposium. Washington, DC. November 13-17, 2010.\*
- Bolin JN, Gamm LD, Vest J, Miller T, Fuller R, Padula E. Patient-Centered Medical Homes: Fundamental Change or Old Wine in New Bottles? AcademyHealth Annual Research Meeting. Boston, MA. June 28, 2010.
- Kash BA, Gamm LD, Spaulding A, Vest JR. Absorptive capacity (ACAP) for transformation in healthcare: a framework for research. AcademyHealth Annual Research Meeting. Chicago, IL. June 28-30, 2009.
- Vest JR, Patton-Levine JK, Schultz JA. Association between frequent restaurant prepared meal consumption and obesity. 2006 American Public Health Association 134<sup>th</sup> Annual Meeting. Boston, MA. November 4-8, 2006.\*
- Vest JR, Castillo-Salgado C, Valadez AM. Use of GIS in health priority setting – a modification of the PAHO Healthy Condition Index. 2005 American Public Health Association 133<sup>rd</sup> Annual Meeting. Philadelphia, PA. December 10-13, 2005.\*
- Conroy JL, Vest JR, Simmons SC, Valadez AM, Schultz JA. Measuring population-level diabetes incidence through a Steps to a Healthier Austin collaboration. 2005 American Public Health Association 133<sup>rd</sup> Annual Meeting. Philadelphia, PA. December 10-13, 2005.\*
- Nordin J, Goodman M, Kulldorff M, Ritzwoller D, Abrams A, Donahue J, Vest J. Using modeled attacks on the Mall of America to assess effectiveness of syndromic surveillance. 2004 Syndromic Surveillance Conference. Boston, MA. November 3, 2004.\*
- Vest JR. Use of GIS in West Nile Virus response - Travis County, 2003. Southwest Conference on Diseases in Nature Transmissible to Man. Austin, TX. June 2, 2004.

*\*Poster presentation*

†Mentored student / post-doc fellow co-author

## PATENTS

US Patent Application US20200035360A1, " Predictive modeling for health services," 07/26/2019

Inventors: Vest, Menachemi, Grannis, Halverson, Ksthurirathne

## RESEARCH SUPPORT

### Ongoing

Vital Strategies	Vest(PI)	9/2020 -5/2021
<i>COVID Mask Study</i>		
Role: Principal Investigator		\$75,000
Indiana Primary Health Care Association	Vest(PI)	10/2020 – 3/2021
<i>COVID Virtual Care at Home Model Evaluation</i>		
Role: Principal Investigator		\$58,000
Agency for Healthcare Research & Quality	Schleyer(PI)	7/2020 – 6/2023
[PA-15-147] – AHRQ Health Services Research Projects (R01)		
<i>Improving healthcare processes and outcomes by directly integrating health information exchange data in the clinical workflow</i>		
Role: Co-Investigator		\$400,000
Agency for Healthcare Research & Quality	Grannis(PI)	7/2017-4/2022
[PA-15-147] – AHRQ Health Services Research Projects (R01)		
<i>Enhancing Patient Matching in Support of Operational Health Information Exchange (1R01HS023808-01A1)</i>		
Role: Co-Investigator		\$1,701,413
The Trustees of Indiana University	Newhouse(PI); Embi(Project PI)	2/2018-1/2021
<i>IU Grand Challenge - Addictions Initiative - The Indiana Addictions Data Commons (IADC)</i>		
Role: Project Level Co-Investigator		\$3,698,290
National Institute on Drug Abuse (NIDA)	Harle(PI)	9/2017 – 8/2022
[RFA-AG-17-013] – Encouraging Appropriate Care Using Behavioral Economics through Electronic Health Records (R21/R33)		
<i>Nudging Primary Care Providers toward Guideline-Recommended Opioid Prescribing through Easier and More Convenient EHR Information Design (1R21DA046085-01)</i>		
Role: Co-Investigator		\$402,261
Eskenazi Health Foundation	Vest (PI)	11/2019-11/2021
<i>Expansion and evaluation of the effectiveness of risk prediction for social needs at Eskenazi Health</i>		
Role: Principal Investigator		\$110,000
City of Indianapolis (US Department of the Treasury)	Dearth(PI)	5/2020 – 12/2020
<i>Contact tracing: Marion County / City of Indianapolis</i>		
Role: Co-Investigator		\$10,328,010

**Grants & Contracts Secured for the Center for Health Policy (Ongoing)**

Marion County Health Department Vest(PI) 4/2020 - ongoing  
*COVID-19 Pandemic Response Technical Assistance*  
 Role: Center Director & Principal Investigator

Indiana State Department of Health Menachemi(PI) 3/2020 – 6/2021  
*Vaccine Plan Evaluation Supplement*  
 Role: Center Director \$7,000

Indiana State Department of Health, Greene (PI) 7/2017-6/2021  
 Division of Mental Health and Addition  
*State Epidemiological Outcome Workgroups*  
 Role: Co-Investigator & Center Director \$704,200

**Completed (±Secured for the Center for Health Policy)**

‡Indiana Primary Health Care Association Yeager (Co-PI) 1/2020-8/2020  
*Impact of community health centers*  
 Role: Center Director \$56,133

‡Indiana State Department of Health Yeager(PI) 7/2018-6/2019  
*Tobacco Prevention & Cessation: Systems Change Partnership (Contract # 27161)*  
 Role: Center Director \$72,000

Robert Wood Johnson Foundation Vest & Halverson (Co-PI) 8/2018-12/2020  
*Addressing upstream determinants of health through collaboration and analytics (RWJF-75549)*  
 Role: Co- Principal Investigator \$1,000,000

New York State Department of Health Vest(Co-PI) 11/2018 – 12/2020  
*Health Information Exchange supported transfer forms for long term care (LTC) patients' ED visits (Contract No.: 14-HITEC-01 SOW 4)*  
 Role: Co-Principal Investigator \$655,000

Agency for Healthcare Research & Quality Dixon(PI) 9/2017-8/2019  
 [PA-14-001] – Exploratory and Developmental Grant to Improve Health Care Quality through Health Information Technology (IT) (R21)  
*Exploring the Utilization of and Outcomes from Health Information Exchange in Emergency Settings (1R21HS025502-01)*  
 Role: Co-Investigator \$396,587

071647-00002B (IU), Supreme Court of Ohio Ray (PI) 1/2018-9/2020  
*Regional Judicial Opioid Initiative*  
 Role: Co-Investigator \$1,000,000

Agency for Healthcare Research & Quality Vest(PI) 4/2017-3/2019

[PA-14-001] – Exploratory and Developmental Grant to Improve Health Care Quality through Health Information Technology (IT) (R21)

*The impact of enterprise health information exchange on organizational performance and local health care markets* (1 R21HS024717-01A1)

Role: Principal investigator \$300,000

Agency for Healthcare Research & Quality Vest(PI) 9/2016-12/2018

[PA-15-147] – AHRQ Health Services Research Projects (R01)

*Use of push and pull health information exchange technologies by ambulatory care practices and the impact on potentially avoidable health care utilization* (R01HS024556-01A1)

Role: Principal Investigator \$299,827

Indian Health Services Cullen (PI) 9/2018-9/2019

*Health Information Technology Modernization Research Project*

Role: Co- Investigator \$2,910,478

Robert Wood Johnson Foundation Halverson & Vest(Co-PI) 3/2016-6/2018

*Establishing a Collaborative Research Center at Indiana University to improve population health through integrated services and advanced analytics* (RWJF-73485)

Role: Co-Principal Investigator \$998,500

‡Community Health Network Yeager(PI) 10/2017-12/2018

*2018 Community Health Needs Assessment and 2019-2021 Implementation Strategy*

Role: Center Director

‡Healthcare Foundation of LaPorte Greene(PI) 8/2017-3/2018

*Needs Assessment in Response to the Indiana Network for the Prevention and Treatment of Opioid Addiction*

Role: Co-Investigator \$72,000

National Library of Medicine (NLM) Dixon & Schleyer (Co-PIs) 9/2017 – 6/2018

*The Indiana Training Program in Public & Population Health Informatics – Administrative Supplement*

(3T15LM012502-01S1)

Role: Co-Investigator \$100,000

New York State Department of Health Vest(Co-PI) 6/2017 – 5/2018

*Effects and value of alert notifications* (Contract No.: 14-HITEC-01 SOW 3)

Role: Co-Principal Investigator \$190,000

The PEW Charitable Trusts Grannis(PI) 6/2017-3/2018

[2016-HIT-01] Research Projects on Health Information Technology: Patient Matching, Electronic Health Record Safety and Usability.

*Evaluating the impact of data standardization and normalization on matching effectiveness*

Role: Co-Investigator \$129,978

National Institute on Drug Abuse (NIDA) Watson(PI) 9/2017-8/2018

[RFA-DA-18-005] - Expanding Medication Assisted Treatment for Opioid Use Disorders in the Context of the SAMHSA Opioid STR Grants (R21/R33)

*Project POINT: Effectiveness and Scalability of an Overdose Survivor Intervention (1R21DA045850-01)*

Role: Co-Investigator		\$288,341
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‡Anthem BCBS Foundation	Staten & Vest(Co-PIs)	12/2016-11/2017
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*Change is in the Air (069371-00002B)*

Co- Principal Investigator		\$77,250
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Marion County Health Department	Vest(PI)	2/2017-1/2018
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*Using health information exchange to support pediatric household asthma exposure assessment*

Role: Principal Investigator		\$58,000
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Health Information & Management System Society (HIMSS)	Vest, Unruh & Jung(Co-PIs)	2/2017-1/2018
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*Environmental Scan of LTPAC Interoperable Health Information Technology Capabilities*

Role: Co-Principal Investigator		\$90,000
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‡Parkview Health Systems	Comer & Vest(Co-PIs)	06/2017 – 01/2018
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*Assessment of the Implementation Strategies Chosen by Parkview Health System*

Role: Co-Principal Investigator		\$80,000
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‡Alaska Department of Health & Social Services	Vest(PI)	1/2017-6/2017
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*Evaluation Services for the Early Childhood Comprehensive Systems (ECCS) (069344-00002B)*

Role: Principal Investigator		\$120,000
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‡Robert Wood Johnson Foundation (Princeton)	Vest(PI)	6/2016-6/2018
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State Health and Value Strategies Program

*Indiana Health Information Exchange Summit*

Principal Investigator		\$39,636
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Centers for Disease Control & Prevention (CDC)	Waston(PI)	3/2016-8/2017
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*[CE15-1501] – Prescription Drug Overdose – Prevention for States**Inspect Prescription Drug Monitoring Program (PDMP) Evaluation Grant (ISDH-16140 / 1U17CE00272)*

Role: Co-Investigator		\$382,189
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National Collegiate Athletic Association	Vest(PI)	11/2015-02/2016
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*Wellness promotion and injury prevention among athletes:**review of risks and impact of periodization, specialization and over use*

Role: Principal Investigator		\$41,265
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New York State Department of Health	Vest(PI)	3/2015-12/2015
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*Effects and value of alert notifications (Contract No.: 14-HITEC-01 SOW 2)*

Role: Principal Investigator		\$285,000
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Agency for Healthcare Research & Quality	Vest(PI)	9/2013 – 12/2015
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*PAR08-268] - Small research grant to improve health care quality through health information technology (R03)**How do you define regional? The geography of health information exchange (Grant No. R03 HS20304-01A1)*

Role: Principal Investigator		\$100,000
Center for Medicare & Medicare Innovation	Kaushal(PI)	7/2012 – 07/2016
<i>Evaluation of Bronx Regional Health Information Organization</i> (Grant No. 1C1CMS331065-01-00)		
Role: Co-Principal Investigator		
Harvey L. Neiman Health Policy Institute / American College of Radiology	Vest & Jung (Co-PIs)	01/2015-01/2016
<i>Usage of image-sharing technology: a taxonomy.</i>		
Role: Co-Principal Investigator		\$43,000
City of New York	Vest(PI)	2015
<i>Public Health Scholars</i>		
Role: Principal Investigator (resigned contract when left WCMC faculty position)		\$695,895
National Institutes of Health [RFA-MD-11-002] - National Institute on Minority Health & Health Disparities NIMHD Exploratory Centers of Excellence (P20)	Luque(PI)	01/2010 – 12/2013
<i>Barbers Against Prostate Cancer - Establishing a Center of Excellence on Health Disparities in Rural Populations</i>		
Role: Investigator		
New York State eHealth Collaborative	Kaushal (PI)	
<i>State-level health information exchange program evaluation</i>		
Role: Investigator		
New York State Department of Health	Kaushal (PI)	1/2010 – 12/2013
<i>Evaluation of the Healthcare Efficiency and Affordability Law for New Yorkers Program (HEAL NY) – Phase 10</i>		
Role: Investigator		
New York State Department of Health	Kaushal (PI)	1/2011-12/2013
<i>Evaluation of the Healthcare Efficiency and Affordability Law for New Yorkers Program (HEAL NY) – Phase 17</i>		
Role: Investigator		
Robert Wood Johnson Foundation	Vest(PI) Mentor: Michelle Issel	2/2012-12/2012
Dissertation and Junior Faculty Awards Proposal		
<i>Effective public health data sharing for local decision making</i>		
Role: Principal Investigator		\$10,000
Georgia Southern University	Vest(PI)	7/2011- 5/2012
Faculty Research Competition Award		
<i>If open source is so great, why aren't hospitals using it?</i>		
Role: Principal Investigator		
McDowell Research Center for Global IT	Vest(PI)	01/2011 – 05/2011
Management Seed Grant		
<i>User Adaption and Workarounds of Electronic Health Record Systems</i>		
Role: Principal Investigator		

National Science Foundation Gamm(PI) 2008-2011  
*Center for Health Organization Transformation:  
 A National Science Foundation Industry / University Cooperative Research Center (IIP-0832439)*  
 Role: Project Coordinator & Affiliated Research Faculty

National Cancer Institute Ohsfeldt(PI) 6/2009-5/2010  
*Factors motivating & affecting information seeking in a health information exchange (1R21CA138605-01A1)*  
 Role: Project Coordinator

### **Grants & Contracts Currently in Review**

National Institutes of Health Vest(PI) Submission: Fall 2020  
 [PAR20-310] - Health Services Research on Minority Health and Health Disparities  
*Analytics-based screening for medical, public health, and social services for patients with diabetes*  
 Role: Principal Investigator

National Science Foundation Vest(PI) Submission: Fall 2020  
 [NSF 17-516] - Industry-University Cooperative Research Centers Program (IUCRC)  
*IUCRC Planning Grant Indiana University: Center for Population Health Analytics & Technology [CPHAT].*  
 Role: Principal Investigator

Agency for Healthcare Research & Quality Vest(PI) Submission: Fall 2020  
 [PA17-246] - Health Information Technology (IT) to Improve Health Care Quality and Outcomes (R21)  
*Improved information sharing to manage care transitions for nursing home residents using standards-based health information technology*  
 Role: Principal Investigator

National Institutes of Health Vest(PI) Submission: Summer 2020  
 [PAR20-243] - Digital Healthcare Interventions to Address the Secondary Health Effects Related to Social, Behavioral, and Economic Impact of COVID-19  
*Advanced point of care digital tools to address vulnerable community-dwelling older adults' social, economic, and behavioral needs*  
 Role: Principal Investigator

Agency for Healthcare Research & Quality Vest(PI) Submission: Spring 2020  
 FOA: [PA18-795] - AHRQ Health Services Research Projects (R01)  
*Predictive modeling for social needs in emergency department settings*  
 Role: Principal Investigator

National Institutes of Health Vest(PI) Submission: Spring 2020  
 [PAR19-070] - Research on Current Topics in Alzheimer's Disease and Its Related Dementias  
*Not lost in transition: Better emergency department care for nursing home residents with Alzheimer's disease and related dementias through improved information sharing*  
 Role: Co-Investigator

Agency for Healthcare Research & Quality Unruh(PI) Submission: Winter 2019

[PAR-18-795] - AHRQ Health Services Research Projects (R01)

*The impact of Health Information Exchange participation among skilled nursing facilities on quality & cost of care.*

Role: Co-Investigator

### **Internally Funded Research, Education & Travel Grants**

Indiana University

OVCR COVID-19 Rapid Response Grant

Vest(PI)

5/2020 – 5/2021

*Measuring patients' social risk factors to understand infectious disease and health disparities*

Role: Principal Investigator

\$15,000

Indiana Clinical Translational Sciences Institute

5/2020 – 5/2022

Project Development Teams

Vest(PI)

*Translating existing electronic data into computable social factor phenotypes*

Role: Principal Investigator

\$10,000

Regenstrief Institute

Unroe & Vest(Co-PIs)

3/2019 – 3/2020

Cross-Center Pilot Grant

An exploration of provider decision-making factors in the Emergency Department

Role: Co-Principal Investigator

\$20,000

Indiana University

Vest(PI)

05/2018-07/2019

IU Overseas Study Program Development - Israel

Role: Principal Investigator

\$3,000

Indiana University

Vest, Harle & Johnston(Co-PIs)

05/2018 – 7/2019

Curriculum Enhancement Grant

*Analytics for administrators: adapting novel clinical data platform for health administration education*

Role: Co-Principal Investigator

\$15,000

Indiana University

Vest(PI)

05/2018-07/2019

International Partnership Development Fund - Israel

Role: Principal Investigator

\$3,200

### **ADVISORY BOARDS, EXPERT PANELS & NATIONAL COMMITTEES**

2019-2020 International Conference on Information Systems, IS in Healthcare Track Associate Editor

2018-2019 AcademyHealth 2019 Annual Research Meeting Planning Committee

2016-2018 Health Information Exchange Community of Experts: Minnesota Health Information Exchange Legislative Study. Minnesota Department of Health. (<http://www.health.state.mn.us/e-health/hie/study/hie-study-report-2018.pdf>)

2016 Advisor to the Community Health Peer Learning Program (AcademyHealth)

2015 Office of the National Coordinator for Health Information Technology Measurement Workgroup. (<https://www.healthit.gov/sites/default/files/measurementfinrpt.pdf>)

2015 AcademyHealth Annual Research Meeting Health Information Technology Theme Committee

2014 Agency for Healthcare Research and Quality's (AHRQ) Effective Health Care (EHC) Program: Technical Expert Panel. Health Information Exchange.

2014 AcademyHealth Annual Research Meeting Health Information Technology Theme Committee

- 2013 Veteran's Administration HSR&D Center of Excellence on Implementing Evidence-Based Practice (Indianapolis, IN): The effect of health information exchange on the quality of care. Expert Panel.
- 2012 American Medical Informatics Association (AMIA) 2012 Scientific Program Committee
- 2011-2013 HIMSS Davies Public Health Awards Committee
- 2011 ChathamHealthLink Information Technology Consortium Board

### EDITORIAL BOARDS

- 2020- Health Care Management Review Editorial Board
- 2019- Journal of the American Medical Informatics Association Editorial Board
- 2013-2017 BMC Medical Informatics and Decision Making (Associate Editor)
- 2009-2010 Journal of the American Medical Informatics Association Student Editorial Board

### GRANT REVIEW PANELS / REVIEWER

- 2019-2020 National Institutes of Health, Health Services Organization and Delivery (HSOD) Member Conflict Special Emphasis Panel (SEP)
- 2019 Robert Wood Johnson Foundation Interdisciplinary Research Leaders
- 2018 The German Israeli Foundation for Scientific Research and Development
- 2018 Israeli Science Foundation
- 2015 Israel National Institute for Health Policy & Health Services Research

### MENTORING & TEACHING

#### Dissertation Committees as Chair

Brown-Podgorski, Brittany (PhD, Health Policy & Management) *The impact of state insurance coverage requirements on access to diabetes self-management education and training (DSME/T) among Medicaid recipients*. Indiana University Purdue University Indianapolis. 2019.

- R36 AHRQ Dissertation Grant (1R36HS026352-01A1).
- President's Diversity Dissertation Year Fellowship at Indiana University Purdue University Indianapolis.
- University of Texas, Post-doctoral fellowship (T32).

Adulaziz Bako (PhD, Health Policy & Management). *The role of social workers in addressing patients' unmet social needs in the primary care setting*. Indiana University Purdue University Indianapolis. 2021.

- Texas Methodist, Post-doctoral fellowship.

Kevin Wiley, Jr. (PhD, Health Policy & Management). Indiana University Purdue University Indianapolis. Current.

- Robert Wood Johnson Foundation Health Policy Research Scholars program (Cohort 3) – 2018.
- T15 NIH National Library of Medicine Pre-Doctoral Fellow in Public & Population Health Informatics.

#### Dissertation Committees (member)

Zhang, Abbie (PhD, Health Economics). *Exploring the statistical advantages of correlated dispersion-flexible count regression in the causal estimation and inference context*. Indiana University Purdue University Indianapolis. 2020.

Biviji-Sharma, Rizwana (PhD, Health Policy & Management). *Evaluating the Quality of Mobile Health Apps for Maternal and Child Health*. Indiana University Purdue University Indianapolis. 2018.

Greene, Marion (PhD, Epidemiology). *Pain Reliever Prescriptions and Subsequent Risk of Opioid Abuse*. Indiana University Purdue University Indianapolis. 2018.

- Kasthurirathne, Suranga (PhD, Computer Science). *The Use of Clinical, Behavioral and Social Determinants of Health to Improve Identification of Patients in Need of Advanced Care for Depression*. Indiana University Purdue University Indianapolis. 2018.
- Omenka, Ogbonnaya Isaac (PhD, Health Policy & Management). *Understanding African Immigrant Health in the United States: An Exploratory Study of The Nigerian Immigrant Healthcare Experience*. Indiana University Purdue University Indianapolis. 2018.
- Rahurkar, Saurabh (DrPH, Public Health Management). *Trends, Market Correlates, and The Impact of Health Information Exchange*. University of Alabama-Birmingham. 2015.

### **Junior Faculty & Postdoc Mentorship Panels**

#### *Past*

Mazurenko, Olena (Assistant Professor, Indiana University Richard M. Fairbanks School of Public Health)

- Awarded KL-2, Fall 2017

Tarver, William (Medical Informatics Fellow, HSR&D Center for Health Information & Communication, Richard L. Roudebush VA Medical Center, Indianapolis, IN).

- Assistant Professor, Ohio State University, Fall 2019.

### **Courses Taught**

Population & Public Health (MHA course covering public health requirements – IUPUI)  
 Contemporary Health Issues (Undergraduate introduction to the health system – IUPUI)  
 Research Seminar in Health Policy and Management: Health Services Research (PhD seminar – IUPUI)  
 Health Care Organizations Research (PhD seminar – IUPUI)  
 Health & Healthcare Delivery (MS level course – Weill Cornell Medical College)  
 Health Informatics & Decision Making (DrPH level course – Georgia Southern University)  
 Healthcare Informatics (MHA level course – Georgia Southern University)  
 Health Policy & Management (MPH level course – Georgia Southern University)  
 ERSI Authorized Training Program – Introduction to ArcGIS I and Introduction to ArcGIS II (2004-2007)

### **PROFESSIONAL AFFILIATIONS**

AcademyHealth  
 Academy of Management  
 American Medical Informatics Association  
 Healthcare Information & Management Systems Society

### **MEDIA INTERVIEWS & APPEARANCES**

Indianapolis Star (8/2020)  
<https://www.indystar.com/story/news/health/2020/09/25/covid-19-reopening-indiana-stage-5-public-health-what-it-means/3525164001/>  
 WFYI Indianapolis “All IN” (5/2020 & 8/2020)  
 Indianapolis Star (5/2020)  
<https://www.indystar.com/story/news/health/2020/05/01/coronavirus-indiana-where-we-stand-reopening-guidelines/3043204001/>  
 WFYI Indianapolis (10/2018)  
<https://www.wfyi.org/news/articles/report-wraparound-services-improve-health-care-limit-cost>  
 WKVI (04/2018)  
<https://wkvi.com/2018/04/secretary-of-family-and-social-services-administration-serves-as-keynote-speaker-at-opioid-study-presentation/>  
 What’s New La Porte (04/2018)  
<http://whatsnewlaporte.com/2018/04/19/130-plus-gather-to-invest-efforts-toward-addressing-laporte-countys-opioid-crisis/>  
 Northwest Indiana Times (04/2018)

[http://www.nwitimes.com/news/local/laporte/laporte-county-opioid-study-sets-stage-for-action/article\\_bdf3ffe9-1ec7-5afb-b651-0f04f8305bbf.html](http://www.nwitimes.com/news/local/laporte/laporte-county-opioid-study-sets-stage-for-action/article_bdf3ffe9-1ec7-5afb-b651-0f04f8305bbf.html)

La Porte County Life (04/2018)

<http://www.laportecountyliife.com/health/education/69436-la-porte-opioid-study-presentation-shines-light-on-possible-solutions>

La Porte Herald Argus (04/2018)

[http://www.heraldargus.com/news/no-easy-solutions-to-opioid-crisis/article\\_b4b6b824-fd4c-5596-a4ea-367663f74580.html](http://www.heraldargus.com/news/no-easy-solutions-to-opioid-crisis/article_b4b6b824-fd4c-5596-a4ea-367663f74580.html)

ABC 57 South Bend (04/2018)

<http://www.abc57.com/news/la-porte-nonprofit-releases-opioid-report>

Northwest Indiana Times (04/2018)

[http://www.nwitimes.com/news/local/laporte/laporte-county-opioid-study-sets-stage-for-action/article\\_bdf3ffe9-1ec7-5afb-b651-0f04f8305bbf.html#tracking-source=home-top-story-2](http://www.nwitimes.com/news/local/laporte/laporte-county-opioid-study-sets-stage-for-action/article_bdf3ffe9-1ec7-5afb-b651-0f04f8305bbf.html#tracking-source=home-top-story-2)

WFYI Indianapolis (02/2018)

<https://www.wfyi.org/news/articles/new-study-focuses-on-social-determinants-health-impact>

Healthcare Informatics (12/2017)

<https://www.healthcare-informatics.com/blogs/david-raths/hie/study-identifies-seven-barriers-research-impact-hies-0>

Chicago Medicine (12/2015)

<http://www.cmsdocs.org/news-publications/chicago-medicine-magazine/2015-issues/December2015.pdf>

Kansas City Star (9/2015)

<http://www.kansascity.com/news/business/health-care/article31574180.html>

WXXI Rochester, NY NPR (1/2015)

<http://wxnews.org/post/more-patient-information-means-less-x-rays-study-shows>

AuntMinnie.com (1/2015)

<http://www.auntminnie.com/index.aspx?sec=ser&sub=def&pag=dis&ItemID=109886>

Medscape (12/2014)

<http://www.medscape.com/viewarticle/835731>

PoliticoNew York (3/2014)

<http://www.capitalnewyork.com/article/city-hall/2014/03/8541991/capital-health-care-budget-day-city-and-state>

## UNIVERSITY SERVICE

- 2019-2020 Administrative Review Committee – Dean Review (Indiana University Purdue University Indianapolis)
- 2019-2020 Faculty Assembly President (Richard M. Fairbanks School of Public Health)
- 2018 Health Policy & Management Faculty Search Committee Chair
- 2018- DrPH Admission Committee (Richard M. Fairbanks School of Public Health)
- 2017- Public Health & Population Health Training Grant (T15) Steering Committee  
(Regenstrief Institute & Richard M. Fairbanks School of Public Health)
- 2017-2019 Faculty Assembly Steering Committee (Richard M. Fairbanks School of Public Health)
- 2017 Indiana Network for Population Health Strategic Initiative Co-Champion (Regenstrief Institute)
- 2017-2019 BSHSM Program Committee (Richard M. Fairbanks School of Public Health)
- 2015-2019 MHA Program Committee (Richard M. Fairbanks School of Public Health)
- 2015- PhD Program Committee (Richard M. Fairbanks School of Public Health)
- 2015 General Faculty Council (Weill Cornell Medical College)
- 2012 Faculty Senate (Georgia Southern University)