



Tina Hernandez-Boussard

Associate Professor of Medicine (Biomedical Informatics), of Biomedical Data Science, of Surgery and, by courtesy, of Epidemiology and Population Health
Medicine - Biomedical Informatics Research

CONTACT INFORMATION

- **Alternate Contact**

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Bio

BIO

Dr. Hernandez-Boussard is an Associate Professor at Stanford University in Medicine (Biomedical Informatics), Biomedical Data Sciences, Surgery and Epidemiology & Population Health (by courtesy). Her background and expertise are in the field of biomedical informatics, health services research, and epidemiology. In her current work, Dr. Hernandez-Boussard develops and evaluates AI technology to accurately and efficiently monitor, measure, and predict healthcare outcomes. She has developed the infrastructure to efficiently capture heterogeneous data sources, transform these diverse data to knowledge, and use this knowledge to improve patient outcomes, healthcare delivery, and guide policy.

ACADEMIC APPOINTMENTS

- Associate Professor, Medicine - Biomedical Informatics Research
- Associate Professor, Biomedical Data Science
- Associate Professor, Surgery
- Associate Professor (By courtesy), Epidemiology and Population Health
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Director, Faculty Development, Biomedical Informatics, (2018- present)
- Director, Surgical Health Services Research Unit, (2015-2017)
- Co-Director, Surgical Center for Outcomes Research & Evaluation, (2009-2015)

HONORS AND AWARDS

- Fellow, American College of Medical Informatics (2020)
- Innovation Award in Population Science, Stanford University (2012)

- Innovation Award in Population Science, Stanford University (2011)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Chairmen, National Advisory Council for Healthcare Research and Quality of the AHRQ (2020 - 2020)
- Member, National Advisory Council for Healthcare Research and Quality of the AHRQ (2018 - 2019)
- Member, Leading the Biomedical Revolution Workgroup (2016 - 2018)
- Member, Health Services Research & Quality Review Section, AHRQ (2016 - 2018)
- Member, VA BD-Step Executive Committee (2015 - 2018)
- Member, Stanford Precision Health Committee (2015 - 2018)
- Member, Stanford Surgical Council Committee (2015 - 2017)
- Member, AHRQ Quality Indicators wrokgroup (2013 - 2015)
- Member, AHRQ Quality Indicator™ ICD-10-CM/PCS Conversion Project (2012 - 2013)

PROFESSIONAL EDUCATION

- M.S., Stanford University , Health Services Research (2013)
- Ph.D., University Claude Bernard, Lyon 1 , Computational Biology (1999)
- M.P.H., Yale University , Epidemiology (1993)
- B.A., University California, Irvine , Psychology (1991)
- B.S., University of California, Irvine , Biology (1991)

COMMUNITY AND INTERNATIONAL WORK

- International Quality Improvement, Bologna, Italy

LINKS

- Boussard Lab: <http://med.stanford.edu/boussard-lab.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My background and expertise is in the field of computational biology, with concentration in health services research. A key focus of my research is to apply novel methods and tools to large clinical datasets for hypothesis generation, comparative effectiveness research, and the evaluation of quality healthcare delivery. My research involves managing and manipulating big data, which range from administrative claims data to electronic health records, and applying novel biostatistical techniques to innovatively assess clinical and policy related research questions at the population level. This research enables us to create formal, statistically rigid, evaluations of healthcare data using unique combinations of large datasets.

PROJECTS

- Improving Quality of Postoperative Pain Care Through use of Electronic Health Records - Agency for Healthcare Research and Quality (AHRQ) (September 1, 2015 - 6/30/2020)
- Utilizing Electronic Health Records to Measure and Improve Prostate Cancer Care - National Cancer Institute (NCI) (7/1/2015 - 6/30/2020)
- Surgical Health Services Research - Stanford University
- Developing individual predictive models for pain management and opioids - Stanford University

Teaching

COURSES

2021-22

- Deploying and Evaluating Fair AI in Healthcare: BIOMEDIN 223, EPI 220 (Spr)

2020-21

- Deploying and Evaluating Fair AI in Healthcare: BIOMEDIN 223 (Spr)

2018-19

- Quality & Safety in U.S. Healthcare: BIOMEDIN 254, HRP 254 (Aut)

STANFORD ADVISEES

Med Scholar Project Advisor

Antonia Chan

Postdoctoral Faculty Sponsor

Behzad Naderalvojud, Madelena Ng, Rebecca Staiger

Master's Program Advisor

Qianhui Zheng

Postdoctoral Research Mentor

Behzad Naderalvojud

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biomedical Informatics (Phd Program)
- Biomedical Informatics (Masters Program)

Publications

PUBLICATIONS

- **Peeking into a black box, the fairness and generalizability of a MIMIC-III benchmarking model** *SCIENTIFIC DATA*
Roosli, E., Bozkurt, S., Hernandez-Boussard, T.
2022; 9 (1): 24
- **Digital twins for predictive oncology will be a paradigm shift for precision cancer care.** *Nature medicine*
Hernandez-Boussard, T., Macklin, P., Greenspan, E. J., Gryshuk, A. L., Stahlberg, E., Syeda-Mahmood, T., Shmulevich, I.
2021
- **Assessment of a Clinical Trial-Derived Survival Model in Patients With Metastatic Castration-Resistant Prostate Cancer.** *JAMA network open*
Coquet, J. n., Bievre, N. n., Billaut, V. n., Seneviratne, M. n., Magnani, C. J., Bozkurt, S. n., Brooks, J. D., Hernandez-Boussard, T. n.
2021; 4 (1): e2031730
- **Machine Learning Applied to Electronic Health Records: Identification of Chemotherapy Patients at High Risk for Preventable Emergency Department Visits and Hospital Admissions.** *JCO clinical cancer informatics*
Peterson, D. J., Ostberg, N. P., Blayney, D. W., Brooks, J. D., Hernandez-Boussard, T.
2021; 5: 1106-1126
- **Bias at Warp Speed: How AI may Contribute to the Disparities Gap in the Time of COVID-19.** *Journal of the American Medical Informatics Association : JAMIA*
Roosli, E., Rice, B., Hernandez-Boussard, T.

2020

- **MINIMAR (MINimum Information for Medical AI Reporting): Developing reporting standards for artificial intelligence in health care.** *Journal of the American Medical Informatics Association : JAMIA*
Hernandez-Boussard, T., Bozkurt, S., Ioannidis, J. P., Shah, N. H.
2020
- **A Comparison of Logistic Regression Against Machine Learning Algorithms for Gastric Cancer Risk Prediction Within Real-World Clinical Data Streams.** *JCO clinical cancer informatics*
Huang, R. J., Kwon, N. S., Tomizawa, Y., Choi, A. Y., Hernandez-Boussard, T., Hwang, J. H.
2022; 6: e2200039
- **Analyzing real world data of blood transfusion adverse events: Opportunities and challenges.** *Transfusion*
Jhaveri, P., Bozkurt, S., Moyal, A., Belov, A., Anderson, S., Shan, H., Whitaker, B., Hernandez-Boussard, T.
2022
- **Outcomes of Primary Trabeculectomy versus Combined Phacoemulsification-Trabeculectomy Using Automated Electronic Health Record Data Extraction.** *Current eye research*
Davila, J. R., Singh, K., Hernandez-Boussard, T., Wang, S.
2022: 1-7
- **Opioid2MME: Standardizing opioid prescriptions to morphine milligram equivalents from electronic health records.** *International journal of medical informatics*
Lossio-Ventura, J. A., Song, W., Sainlaire, M., Dykes, P. C., Hernandez-Boussard, T.
2022; 162: 104739
- **Cost-Effectiveness Analysis and Microsimulation of Serial Multiparametric Magnetic Resonance Imaging in Active Surveillance of Localized Prostate Cancer.** *The Journal of urology*
Magnani, C. J., Hernandez-Boussard, T., Baker, L. C., Goldhaber-Fiebert, J. D., Brooks, J. D.
2022: 101097JU00000000000002490
- **Expanding the Secondary Use of Prostate Cancer Real World Data: Automated Classifiers for Clinical and Pathological Stage.** *Frontiers in digital health*
Bozkurt, S., Magnani, C. J., Seneviratne, M. G., Brooks, J. D., Hernandez-Boussard, T.
2022; 4: 793316
- **Using deep learning-based natural language processing to identify reasons for statin nonuse in patients with atherosclerotic cardiovascular disease.** *Communications medicine*
Sarraju, A., Coquet, J., Zammit, A., Chan, A., Ngo, S., Hernandez-Boussard, T., Rodriguez, F.
2022; 2: 88
- **Major disparities in COVID-19 test positivity for patients with non-English preferred language even after accounting for race and social factors in the United States in 2020.** *BMC public health*
Cohen-Cline, H., Li, H., Gill, M., Rodriguez, F., Hernandez-Boussard, T., Wolberg, H., Lippa, J., Vartanian, K.
2021; 21 (1): 2121
- **Characterizing patient flow after an academic hospital merger and acquisition.** *The American journal of managed care*
Sun, R., Bozkurt, S., Winget, M., Cullen, M. R., Seto, T., Hernandez-Boussard, T.
2021; 27 (10): e343-e348
- **Patients' perception of meaning of life and needed support before and after cancer treatment initiation**
Roy, M., Rosenthal, S., Shah, M., Khaki, A., Hernandez-Boussard, T., Ramchandran, K.
SPRINGER.2021: S156-S157
- **Association of treatment type with patient-reported quality of life in cancer distress screening**
Roy, M., Rosenthal, S., Shah, M. P., Khaki, A., Bozkurt, S., Seto, T., Blayney, D. W., Hernandez-Boussard, T., Ramchandran, K.
LIPPINCOTT WILLIAMS & WILKINS.2021
- **Gaps in standardized postoperative pain management quality measures: A systematic review.** *Surgery*
Joseph, J. M., Gori, D., Curtin, C., Hah, J., Ho, V. T., Asch, S. M., Hernandez-Boussard, T.
2021

- **REAL-WORLD VALIDATION AND GENERALIZABILITY OF A PSAK PREDICTION TOOL FOR ACTIVE SURVEILLANCE RECLASSIFICATION**
Magnani, C. J., Moyal, A., Erdogdu, B., Peterson, D. J., Bozkurt, S., Hernandez-Boussard, T., Brooks, J. D.
LIPPINCOTT WILLIAMS & WILKINS.2021: E1094-E1095
- **Health management via telemedicine: Learning from the COVID-19 experience.** *Journal of the American Medical Informatics Association : JAMIA*
Sun, R., Blayney, D. W., Hernandez-Boussard, T.
2021
- **Disparity in the Setting of Incident Heart Failure Diagnosis.** *Circulation. Heart failure*
Sandhu, A. T., Tisdale, R. L., Rodriguez, F., Stafford, R. S., Maron, D. J., Hernandez-Boussard, T., Lewis, E., Heidenreich, P. A.
2021: CIRCHEARTFAILURE121008538
- **Diverse patient trajectories during cytotoxic chemotherapy: Capturing longitudinal patient-reported outcomes.** *Cancer medicine*
Azad, A. D., Yilmaz, M., Bozkurt, S., Brooks, J. D., Blayney, D. W., Hernandez-Boussard, T.
2021
- **Evaluation of clustering and topic modeling methods over health-related tweets and emails.** *Artificial intelligence in medicine*
Lossio-Ventura, J. A., Gonzales, S., Morzan, J., Alatriza-Salas, H., Hernandez-Boussard, T., Bian, J.
2021; 117: 102096
- **Type 1 Diabetes Management With Technology: Patterns of Utilization and Effects on Glucose Control Using Real-World Evidence.** *Clinical diabetes : a publication of the American Diabetes Association*
Sun, R., Banerjee, I., Sang, S., Joseph, J., Schneider, J., Hernandez-Boussard, T.
2021; 39 (3): 284-292
- **Increases in SARS-CoV-2 Test Positivity Rates Among Hispanic People in a Northern California Health System.** *Public health reports (Washington, D.C. : 1974)*
Rodriguez, F., Coquet, J., Harrington, R., Hernandez-Boussard, T.
2021: 333549211026778
- **Identification of patients at high risk for preventable emergency department visits and inpatient admissions after starting chemotherapy: Machine learning applied to comprehensive electronic health record data.**
Peterson, D. J., Ostberg, N. P., Blayney, D. W., Brooks, J. D., Hernandez-Boussard, T.
LIPPINCOTT WILLIAMS & WILKINS.2021
- **PREDICTORS OF SETTING OF HEART FAILURE DIAGNOSIS**
Tisdale, R., Stafford, R., Maron, D., Hernandez-Boussard, T., Rodriguez, F., Heidenreich, P., Sandhu, A.
ELSEVIER SCIENCE INC.2021: 676
- **IDENTIFYING REASONS FOR STATIN NONADHERENCE IN A DIVERSE, REAL-WORLD POPULATION USING ELECTRONIC HEALTH RECORDS AND NATURAL LANGUAGE PROCESSING**
Sarraju, A., Coquet, J., Chan, A., Ngo, S., Lossio-Ventura, J., Hernandez-Boussard, T., Rodriguez, F.
ELSEVIER SCIENCE INC.2021: 1665
- **Learning from Past Respiratory Failure Patients to Triage COVID-19 Patient Ventilator Needs: A Multi-Institutional Study.** *Journal of biomedical informatics*
Carmichael, H., Coquet, J., Sun, R., Sang, S., Groat, D., Asch, S. M., Bledsoe, J., Peltan, I. D., Jacobs, J. R., Hernandez-Boussard, T.
2021: 103802
- **Development and evaluation of novel ophthalmology domain-specific neural word embeddings to predict visual prognosis.** *International journal of medical informatics*
Wang, S., Tseng, B., Hernandez-Boussard, T.
2021; 150: 104464
- **Prevalence of Postprostatectomy Incontinence Requiring Anti-incontinence Surgery After Radical Prostatectomy for Prostate Cancer: A Retrospective Population-Based Analysis.** *International neurourology journal*
Kim, J. H., Jeong, I. G., Khandwala, Y. S., Hernandez-Boussard, T., Brooks, J. D., Chung, B. I.
2021

- **Conflicting information from the Food and Drug Administration: Missed opportunity to lead standards for safe and effective medical artificial intelligence solutions.** *Journal of the American Medical Informatics Association : JAMIA*
Hernandez-Boussard, T., Lundgren, M. P., Shah, N.
2021
- **Understanding the impact of the COVID-19 pandemic on physical and mental health**
Cao, S., Din, H., Warren, C., Fitzpatrick, J., Hernandez-Boussard, T., Desai, M., Chinthrajah, S., Nadeau, K.
MOSBY-ELSEVIER.2021: AB115
- **Real-world Evidence to Estimate Prostate Cancer Costs for First-line Treatment or Active Surveillance.** *European urology open science*
Magnani, C. J., Bievre, N., Baker, L. C., Brooks, J. D., Blayne, D. W., Hernandez-Boussard, T.
2021; 23: 20–29
- **Learning from past respiratory infections to predict COVID-19 Outcomes: A retrospective study.** *Journal of medical Internet research*
Sang, S. n., Sun, R. n., Coquet, J. n., Carmichael, H. n., Seto, T. n., Hernandez-Boussard, T. n.
2021
- **Phenotyping severity of patient-centered outcomes using clinical notes: A prostate cancer use case.** *Learning health systems*
Bozkurt, S., Paul, R., Coquet, J., Sun, R., Banerjee, I., Brooks, J. D., Hernandez-Boussard, T.
2020; 4 (4): e10237
- **Linking heterogeneous data to enable knowledge discovery in health care.**
Hernandez-Boussard, T.
AMER ASSOC CANCER RESEARCH.2020: 19
- **Is the firearm epidemic in the US getting worse?**
Tedesco, D., Adja, K. C., Rallo, F., Reno, C., Fantini, M. P., Hernandez-Boussard, T.
OXFORD UNIV PRESS.2020: V411
- **Phenotyping severity of patient-centered outcomes using clinical notes: A prostate cancer use case** *LEARNING HEALTH SYSTEMS*
Bozkurt, S., Paul, R., Coquet, J., Sun, R., Banerjee, I., Brooks, J. D., Hernandez-Boussard, T.
2020
- **Intraocular Pressure Changes after Cataract Surgery in Patients with and without Glaucoma: An Informatics-Based Approach.** *Ophthalmology. Glaucoma*
Wang, S. Y., Azad, A. D., Lin, S. C., Hernandez-Boussard, T., Pershing, S.
2020
- **Four distinct patient-reported outcome (PRO) trajectories in longitudinal responses collected before, during, and after chemotherapy.**
Blayne, D. W., Azad, A., Yilmaz, M., Bozkurt, S., Brooks, J. D., Hernandez-Boussard, T.
AMER SOC CLINICAL ONCOLOGY.2020
- **MULTIPARAMETRIC MAGNETIC RESONANCE IMAGING AND RECLASSIFICATION FROM ACTIVE SURVEILLANCE**
Magnani, C. J., Bievre, N., Erdogdu, B., Baker, L. C., Brooks, J. D., Hernandez-Boussard, T.
LIPPINCOTT WILLIAMS & WILKINS.2020: E342–E343
- **Leveraging Digital Data to Inform and Improve Quality Cancer Care.** *Cancer epidemiology, biomarkers & prevention : a publication of the American Association for Cancer Research, cosponsored by the American Society of Preventive Oncology*
Hernandez-Boussard, T., Blayne, D. W., Brooks, J. D.
2020
- **The rise of non-traumatic extremity compartment syndrome in light of the opioid epidemic.** *The American journal of emergency medicine*
Sheckter, C. C., Cebon, U., Suarez, P., Rochlin, D., Tedesco, D., Hernandez-Boussard, T., Curtin, C.
2020
- **The Impact of Hospital Quality on Thyroid Cancer Survival.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
Megwalu, U. C., Ma, Y. n., Hernandez-Boussard, T. n., Divi, V. n., Gomez, S. L.
2020: 194599819900760
- **Contemporary Practices and Complications of Surgery for Thoracic Outlet Syndrome in the United States.** *Annals of vascular surgery*

- George, E. L., Arya, S. n., Rothenberg, K. A., Hernandez-Boussard, T. n., Ho, V. T., Stern, J. R., Gelabert, H. A., Lee, J. T.
2020
- **Clinical Documentation to Predict Factors Associated with Urinary Incontinence Following Prostatectomy for Prostate Cancer** *RESEARCH AND REPORTS IN UROLOGY*
Li, K., Banerjee, I., Magnani, C. J., Blayney, D. W., Brooks, J. D., Hernandez-Boussard, T.
2020; 12: 7–14
 - **Reporting of demographic data and representativeness in machine learning models using electronic health records.** *Journal of the American Medical Informatics Association : JAMIA*
Bozkurt, S. n., Cahan, E. M., Seneviratne, M. G., Sun, R. n., Lossio-Ventura, J. A., Ioannidis, J. P., Hernandez-Boussard, T. n.
2020
 - **Preoperative Factors Associated with Remote Postoperative Pain Resolution and Opioid Cessation in a Mixed Surgical Cohort: Post Hoc Analysis of a Perioperative Gabapentin Trial.** *Journal of pain research*
Hah, J. M., Hilmoe, H. n., Schmidt, P. n., McCue, R. n., Trafton, J. n., Clay, D. n., Sharifzadeh, Y. n., Ruchelli, G. n., Hernandez Boussard, T. n., Goodman, S. n., Huddleston, J. n., Maloney, W. J., Dirbas, et al
2020; 13: 2959–70
 - **Integrating Adjuvant Analgesics into Perioperative Pain Practice: Results from an Academic Medical Center** *PAIN MEDICINE*
Chin, K., Carroll, I., Desai, K., Asch, S., Seto, T., McDonald, K. M., Curtin, C., Hernandez-Boussard, T.
2020; 21 (1): 161–70
 - **Patient Electronic Health Records Score for Preoperative Risk Assessment Before Total Knee Arthroplasty.** *JB & JS open access*
Osborne, T. F., Suarez, P. n., Edwards, D. n., Hernandez-Boussard, T. n., Curtin, C. n.
2020; 5 (2): e0061
 - **Acute pain after breast surgery and reconstruction: A two-institution study of surgical factors influencing short-term pain outcomes.** *Journal of surgical oncology*
Azad, A. D., Bozkurt, S. n., Wheeler, A. J., Curtin, C. n., Wagner, T. H., Hernandez-Boussard, T. n.
2020
 - **Improvement in Patient Safety May Precede Policy Changes: Trends in Patient Safety Indicators in the United States, 2000-2013.** *Journal of patient safety*
Tedesco, D. n., Moghavem, N. n., Weng, Y. n., Fantini, M. P., Hernandez-Boussard, T. n.
2020
 - **Clinical Trial Outcomes in Urology: Assessing Early Discontinuation, Results Reporting, and Publication in ClinicalTrials.gov Registrations 2007-2019.** *The Journal of urology*
Magnani, C. J., Steinberg, J. R., Harmange, C. I., Zhang, X. n., Driscoll, C. n., Bell, A. n., Larson, J. n., You, J. G., Weeks, B. T., Turner, B. E., Brooks, J. D.
2020: 101097JU0000000000001432
 - **Association between patient-initiated emails and overall 2-year survival in cancer patients undergoing chemotherapy: Evidence from the real-world setting.** *Cancer medicine*
Coquet, J. n., Blayney, D. W., Brooks, J. D., Hernandez-Boussard, T. n.
2020
 - **Preoperative opioid use and postoperative pain associated with surgical readmissions** *AMERICAN JOURNAL OF SURGERY*
Dasinger, E. A., Graham, L. A., Wahl, T. S., Richman, J. S., Baker, S. J., Hawn, M. T., Hernandez-Boussard, T., Rosen, A. K., Mull, H. J., Copeland, L. A., Whittle, J. C., Burns, E. A., Morris, et al
2019; 218 (5): 828–35
 - **Clinical named-entity recognition: A short comparison.** *Proceedings. IEEE International Conference on Bioinformatics and Biomedicine*
Lossio-Ventura, J. A., Boussard, S., Morzan, J., Hernandez-Boussard, T.
2019; 2019: 1548-1550
 - **Clustering and topic modeling over tweets: A comparison over a health dataset.** *Proceedings. IEEE International Conference on Bioinformatics and Biomedicine*
Lossio-Ventura, J. A., Morzan, J., Alatriza-Salas, H., Hernandez-Boussard, T., Bian, J.
2019; 2019: 1544-1547
 - **Trajectory analysis for postoperative pain using electronic health records: A nonparametric method with robust linear regression and K-medians cluster analysis.** *Health informatics journal*

- Weng, Y., Tian, L., Tedesco, D., Desai, K., Asch, S. M., Carroll, I., Curtin, C., McDonald, K. M., Hernandez-Boussard, T.
2019; 1460458219881339
- **Automated extraction of ophthalmic surgery outcomes from the electronic health record.** *International journal of medical informatics*
Wang, S. Y., Pershing, S., Tran, E., Hernandez-Boussard, T.
2019; 133: 104007
 - **Predicting the Incidence of Pressure Ulcers in the Intensive Care Unit Using Machine Learning.** *EGEMS (Washington, DC)*
Cramer, E. M., Seneviratne, M. G., Sharifi, H., Ozturk, A., Hernandez-Boussard, T.
2019; 7 (1): 49
 - **Extracting Patient-Centered Outcomes from Clinical Notes in Electronic Health Records: Assessment of Urinary Incontinence After Radical Prostatectomy.** *EGEMS (Washington, DC)*
Gori, D., Banerjee, I., Chung, B. I., Ferrari, M., Rucci, P., Blayney, D. W., Brooks, J. D., Hernandez-Boussard, T.
2019; 7 (1): 43
 - **Putting the data before the algorithm in big data addressing personalized healthcare** *NPJ DIGITAL MEDICINE*
Cahan, E. M., Hernandez-Boussard, T., Thadanev-Israni, S., Rubin, D. L.
2019; 2: 78
 - **Real world evidence in cardiovascular medicine: assuring data validity in electronic health record-based studies.** *Journal of the American Medical Informatics Association : JAMIA*
Hernandez-Boussard, T., Monda, K. L., Crespo, B. C., Riskin, D.
2019
 - **Perioperative opioid use and pain-related outcomes in the Veterans Health Administration.** *American journal of surgery*
Hernandez-Boussard, T., Graham, L. A., Carroll, I., Dasinger, E. A., Titan, A. L., Morris, M. S., Hawn, M. T.
2019
 - **Comparison of orthogonal NLP methods for clinical phenotyping and assessment of bone scan utilization among prostate cancer patients** *JOURNAL OF BIOMEDICAL INFORMATICS*
Coquet, J., Bozkurt, S., Kan, K. M., Ferrari, M. K., Blayney, D. W., Brooks, J. D., Hernandez-Boussard, T.
2019; 94
 - **Integrating Adjuvant Analgesics into Perioperative Pain Practice: Results from an Academic Medical Center.** *Pain medicine (Malden, Mass.)*
Chin, K., Carroll, I., Desai, K., Asch, S., Seto, T., McDonald, K. M., Curtin, C., Hernandez-Boussard, T.
2019
 - **Utilization of Prostate Cancer Quality Metrics for Research and Quality Improvement: A Structured Review** *JOINT COMMISSION JOURNAL ON QUALITY AND PATIENT SAFETY*
Gori, D., Dulal, R., Blayney, D. W., Brooks, J. D., Fantini, M. P., McDonald, K. M., Hernandez-Boussard, T.
2019; 45 (3): 217–26
 - **Preoperative opioid use and postoperative pain associated with surgical readmissions.** *American journal of surgery*
Dasinger, E. A., Graham, L. A., Wahl, T. S., Richman, J. S., Baker, S. J., Hawn, M. T., Hernandez-Boussard, T., Rosen, A. K., Mull, H. J., Copeland, L. A., Whittle, J. C., Burns, E. A., Morris, et al
2019
 - **Disparities in Access to Care Following Traumatic Digit Amputation.** *Hand (New York, N.Y.)*
Long, C., Suarez, P. A., Hernandez-Boussard, T., Curtin, C.
2019; 1558944718824700
 - **PSA Testing Use and Prostate Cancer Diagnostic Stage After the 2012 U.S. Preventive Services Task Force Guideline Changes.** *Journal of the National Comprehensive Cancer Network : JNCCN*
Magnani, C. J., Li, K. n., Seto, T. n., McDonald, K. M., Blayney, D. W., Brooks, J. D., Hernandez-Boussard, T. n.
2019; 17 (7): 795–803
 - **Clustering and topic modeling over tweets: A comparison over a health dataset**
Lossio-Ventura, J., Morzan, J., Alatrasta-Salas, H., Hernandez-Boussard, T., Bian, J., Yoo, I. H., Bi, J. B., Hu
IEEE.2019; 1544–47

- **Clinical named-entity recognition: A short comparison**
Lossio-Ventura, J., Boussard, S., Morzan, J., Hernandez-Boussard, T., Yoo, I. H., Bi, J. B., Hu
IEEE.2019: 1548–50
- **Understanding Patient Attitudes Toward Multifocal Intraocular Lenses in Online Medical Forums Through Sentiment Analysis**
Wang, S. Y., Hernandez-Boussard, T., Chang, R. T., Pershing, S., OhnoMachado, L., Seroussi, B.
IOS PRESS.2019: 1378–82
- **Practice Patterns in Perioperative Nonopioid Analgesic Administration by Anesthesiologists in a Veterans Affairs Hospital.** *Pain medicine (Malden, Mass.)*
Kwong, J. Z., Mudumbai, S. C., Hernandez-Boussard, T. n., Papat, R. A., Mariano, E. R.
2019
- **Understanding Patient Attitudes Toward Multifocal Intraocular Lenses in Online Medical Forums Through Sentiment Analysis.** *Studies in health technology and informatics*
Wang, S. Y., Hernandez-Boussard, T. n., Chang, R. T., Pershing, S. n.
2019; 264: 1378–82
- **Machine Learning Approaches for Extracting Stage from Pathology Reports in Prostate Cancer.** *Studies in health technology and informatics*
Lenain, R. n., Seneviratne, M. G., Bozkurt, S. n., Blayney, D. W., Brooks, J. D., Hernandez-Boussard, T. n.
2019; 264: 1522–23
- **Weakly supervised natural language processing for assessing patient-centered outcome following prostate cancer treatment.** *JAMIA open*
Banerjee, I. n., Li, K. n., Seneviratne, M. n., Ferrari, M. n., Seto, T. n., Brooks, J. D., Rubin, D. L., Hernandez-Boussard, T. n.
2019; 2 (1): 150–59
- **Predicting inadequate postoperative pain management in depressed patients: A machine learning approach.** *PloS one*
Parthipan, A., Banerjee, I., Humphreys, K., Asch, S. M., Curtin, C., Carroll, I., Hernandez-Boussard, T.
2019; 14 (2): e0210575
- **Merging heterogeneous clinical data to enable knowledge discovery.** *Pacific Symposium on Biocomputing. Pacific Symposium on Biocomputing*
Seneviratne, M. G., Kahn, M. G., Hernandez-Boussard, T.
2019; 24: 439–43
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PRESENTATIONS

- Generating Value from EHRs for Quality Measure Analytics in Prostate Cancer Patients - National Cancer Institute (1/31/2017)
- Building Trust Through the Intersection of Data & Technology in Healthcare - MediaX Stanford University
- Leveraging Clinical Narrative Text at Scale: Applying Natural Language Processing to Understand the Patient Care Experience - NCI, Cancer Control and Population Sciences (November 5, 2020)