



## 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

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### BIO

Dr Hernandez-Boussard is an Associate Professor in Medicine (Biomedical Informatics), Biomedical Data Science, and Surgery at the Stanford University School of Medicine. Dr. Hernandez-Boussard's background and expertise is in the field of clinical informatics and epidemiology, with concentration in predictive analytics, population health, and health policy. A key focus of her research is the application of novel methods and tools to large clinical datasets for hypothesis generation, comparative effectiveness research, and the evaluation of quality healthcare delivery.

### 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 workgroup (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**

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### **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**

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### **COURSES**

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)

#### 2017-18

- Quality & Safety in U.S. Healthcare: BIOMEDIN 254, HRP 254, SURG 255 (Aut)
- Seminar in Healthcare Quality and Safety: HRP 246 (Spr)

### STANFORD ADVISEES

#### Med Scholar Project Advisor

Amee Azad, Chris Magnani, Anthony Nastasi

#### Doctoral Dissertation Reader (AC)

Stephen Pfohl

#### Postdoctoral Faculty Sponsor

Behzad Naderalvojud, Ran Sun

#### Postdoctoral Research Mentor

Behzad Naderalvojud, Ran Sun

### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

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

### Publications

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#### PUBLICATIONS

- **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
- **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
- **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
- **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., Blayney, D. W., Hernandez-Boussard, T.

2021; 23: 20–29

- **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.**

Blayney, 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., Blayney, 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
- **Phenotyping severity of patient-centered outcomes using clinical notes: A prostate cancer use case.** *Learning health systems*  
Bozkurt, S. n., Paul, R. n., Coquet, J. n., Sun, R. n., Banerjee, I. n., Brooks, J. D., Hernandez-Boussard, T. n.  
2020; 4 (4): e10237
- **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
- **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., Thadane-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., Alatrística-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., Popat, 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
- **Comparison of Orthogonal NLP Methods for Clinical Phenotyping and Assessment of Bone Scan Utilization among Prostate Cancer Patients.** *Journal of biomedical informatics*  
Coquet, J. n., Bozkurt, S. n., Kan, K. M., Ferrari, M. K., Blayney, D. W., Brooks, J. D., Hernandez-Boussard, T. n.  
2019: 103184
- **Is it possible to automatically assess pretreatment digital rectal examination documentation using natural language processing? A single-centre retrospective study.** *BMJ open*  
Bozkurt, S. n., Kan, K. M., Ferrari, M. K., Rubin, D. L., Blayney, D. W., Hernandez-Boussard, T. n., Brooks, J. D.  
2019; 9 (7): e027182
- **Extremely large outlier treatment effects may be a footprint of bias in trials from less developed countries: randomized trials of gabapentinoids.** *Journal of clinical epidemiology*  
Desai, K., Carroll, I., Asch, S., Hernandez-Boussard, T., Ioannidis, J. P.  
2018
- **Thirty-day unplanned postoperative inpatient and emergency department visits following thoracotomy.** *The Journal of surgical research*  
Shaffer, R., Backhus, L., Finnegan, M. A., Remington, A. C., Kwong, J. Z., Curtin, C., Hernandez-Boussard, T.  
2018; 230: 117–24
- **Impact of rehabilitation on mortality and readmissions after surgery for hip fracture** *BMC HEALTH SERVICES RESEARCH*  
Tedesco, D., Gibertoni, D., Rucci, P., Hernandez-Boussard, T., Rosa, S., Bianciardi, L., Rolli, M., Fantini, M.  
2018; 18: 701
- **Leveraging Health Information Technology to Measure and Report Patient Centered Outcomes**  
Hernandez-Boussard, T., Zimlichman, E.  
OXFORD UNIV PRESS.2018: 62–63
- **Utilization and effectiveness of multimodal discharge analgesia for postoperative pain management.** *The Journal of surgical research*  
Desai, K., Carroll, I., Asch, S. M., Seto, T., McDonald, K. M., Curtin, C., Hernandez-Boussard, T.  
2018; 228: 160–69
- **Architecture and Implementation of a Clinical Research Data Warehouse for Prostate Cancer.** *EGEMS (Washington, DC)*  
Seneviratne, M. G., Seto, T., Blayney, D. W., Brooks, J. D., Hernandez-Boussard, T.  
2018; 6 (1): 13
- **Treatment of Degenerative Lumbar Spondylolisthesis With Fusion or Decompression Alone Results in Similar Rates of Reoperation at 5 Years.** *Clinical spine surgery*  
Vorhies, J. S., Hernandez-Boussard, T. n., Alamin, T. n.

2018; 31 (1): E74–E79

- **Distribution of global health measures from routinely collected PROMIS surveys in patients with breast cancer or prostate cancer.** *Cancer*  
Seneviratne, M. G., Bozkurt, S. n., Patel, M. I., Seto, T. n., Brooks, J. D., Blayney, D. W., Kurian, A. W., Hernandez-Boussard, T. n.  
2018
- **Advances in Electronic Phenotyping: From Rule-Based Definitions to Machine Learning Models** *ANNUAL REVIEW OF BIOMEDICAL DATA SCIENCE, VOL 1*  
Banda, J. M., Seneviratne, M., Hernandez-Boussard, T., Shah, N. H., Altman, R. B., Levitt, M.  
2018; 1: 53–68
- **Identifying Cases of Metastatic Prostate Cancer Using Machine Learning on Electronic Health Records.** *AMIA ... Annual Symposium proceedings. AMIA Symposium*  
Seneviratne, M. G., Banda, J. M., Brooks, J. D., Shah, N. H., Hernandez-Boussard, T. M.  
2018; 2018: 1498–1504
- **An Automated Feature Engineering for Digital Rectal Examination Documentation using Natural Language Processing.** *AMIA ... Annual Symposium proceedings. AMIA Symposium*  
Bozkurt, S., Park, J. I., Kan, K. M., Ferrari, M., Rubin, D. L., Brooks, J. D., Hernandez-Boussard, T.  
2018; 2018: 288–94
- **Secondary use of electronic medical records for clinical research: Challenges and Opportunities.** *Convergent science physical oncology*  
Yim, W. W., Wheeler, A. J., Curtin, C. n., Wagner, T. H., Hernandez-Boussard, T. n.  
2018; 4 (1)
- **Defining Postoperative Opioid Needs Among Preoperative Opioid Users.** *JAMA surgery*  
Hah, J. n., Hernandez-Boussard, T. n.  
2018
- **Evidence of Drug-Free Interventions for Postoperative Pain Management After Total Knee Arthroplasty-Reply.** *JAMA surgery*  
Hernandez-Boussard, T. n., Gori, D. n., Tedesco, D. n.  
2018
- **IDENTIFICATION OF PATIENTS AT HIGH RISK FOR POOR PAIN MANAGEMENT USING CLINICAL PATHWAYS WITHIN EHRS**  
Hernandez-Boussard, T., Desai, K.  
OXFORD UNIV PRESS.2017: 20
- **Sutureless vs Sutured Gastroschisis Closure: A Prospective Randomized Controlled Trial.** *Journal of the American College of Surgeons*  
Bruzoni, M., Jaramillo, J. D., Dunlap, J. L., Abrajano, C., Stack, S. W., Hintz, S. R., Hernandez-Boussard, T., Dutta, S.  
2017; 224 (6): 1091-1096 e1
- **Effect of Medicare's Nonpayment Policy on Surgical Site Infections Following Orthopedic Procedures.** *Infection control and hospital epidemiology*  
Kwong, J. Z., Weng, Y., Finnegan, M., Schaffer, R., Remington, A., Curtin, C., McDonald, K. M., Bhattacharya, J., Hernandez-Boussard, T.  
2017: 1-6
- **A Double-Blind Placebo Randomized Controlled Trial of Minocycline to Reduce Pain After Carpal Tunnel and Trigger Finger Release.** *journal of hand surgery*  
Curtin, C. M., Kenney, D., Suarez, P., Hentz, V. R., Hernandez-Boussard, T., Mackey, S., Carroll, I. R.  
2017; 42 (3): 166-174
- **The Fifth Vital Sign: Postoperative Pain Predicts 30-day Readmissions and Subsequent Emergency Department Visits.** *Annals of surgery*  
Hernandez-Boussard, T. n., Graham, L. A., Desai, K. n., Wahl, T. S., Aucoin, E. n., Richman, J. S., Morris, M. S., Itani, K. M., Telford, G. L., Hawn, M. T.  
2017
- **Mining Electronic Health Records to Extract Patient-Centered Outcomes Following Prostate Cancer Treatment.** *AMIA ... Annual Symposium proceedings. AMIA Symposium*  
Hernandez-Boussard, T., Kourdis, P. D., Seto, T., Ferrari, M., Blayney, D. W., Rubin, D., Brooks, J. D.  
2017; 2017: 876–82
- **Enhanced Quality Measurement Event Detection: An Application to Physician Reporting.** *EGEMS (Washington, DC)*  
Tamang, S. R., Hernandez-Boussard, T. n., Ross, E. G., Gaskin, G. n., Patel, M. I., Shah, N. H.



2017; 5 (1): 5

- **The Epidemiology of Retinopathy of Prematurity in the United States.** *Ophthalmic surgery, lasers & imaging retina*  
Ludwig, C. A., Chen, T. A., Hernandez-Boussard, T. n., Moshfeghi, A. A., Moshfeghi, D. M.  
2017; 48 (7): 553–62
- **Temporal Relationship of Onset of Necrotizing Enterocolitis and Introduction of Enteric Feedings and Powdered Milk Fortifier.** *American journal of perinatology*  
Vaks, Y. n., Birnie, K. L., Carmichael, S. L., Hernandez-Boussard, T. n., Benitz, W. E.  
2017
- **Emergency Department Visits Following Elective Total Hip and Knee Replacement Surgery: Identifying Gaps in Continuity of Care.** *The Journal of bone and joint surgery. American volume*  
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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)