



Tina Hernandez-Boussard

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 Dean of Research and Professor of Medicine (Biomedical Informatics), Biomedical Data Sciences, Surgery and Epidemiology & Population Health (by courtesy) at Stanford University. With a rich background and vast expertise in biomedical informatics, health services research, and epidemiology, she is at the forefront of advancing healthcare through the development, evaluation and application of innovative methods. Through her research, she aims to effectively monitor, measure, and predict equitable healthcare outcomes. By leveraging real-world data, her team works diligently to construct a solid body of evidence that can significantly enhance patient outcomes, streamline healthcare delivery, and provide valuable guidance for health policy decisions. In addition, Dr. Hernandez-Boussard focuses intensively on mitigating bias and enhancing equity within artificial intelligence applications in healthcare settings. Through her research and evaluation of AI technology, she seeks to advance healthcare practices while ensuring that diverse populations receive equitable resources, care, and outcomes.

ACADEMIC APPOINTMENTS

- Professor, Medicine - Biomedical Informatics Research
- Professor, Biomedical Data Science
- Professor, Surgery
- 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

- Associate Dean of Research, Stanford School of Medicine, (2022- present)
- Division Representative, Team Science, Stanford University, Department of Medicine, (2022- present)
- Director, Faculty Development, Biomedical Informatics, (2018-2022)
- 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

2023-24

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

2022-23

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

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, EPI 220 (Spr)

STANFORD ADVISEES

Med Scholar Project Advisor

Vaibhavi Shah

Postdoctoral Faculty Sponsor

Yeon Mi Hwang, Tushar Mungle, Madelena Ng, Malvika Pillai, Yuqing Wang

Doctoral Dissertation Advisor (AC)

Ashley Lewis

Doctoral Dissertation Co-Advisor (AC)

Cesar Baeta

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

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

Publications

PUBLICATIONS

- **Perceptions of Data Set Experts on Important Characteristics of Health Data Sets Ready for Machine Learning: A Qualitative Study.** *JAMA network open*
Ng, M. Y., Youssef, A., Miner, A. S., Sarellano, D., Long, J., Larson, D. B., Hernandez-Boussard, T., Langlotz, C. P.
2023; 6 (12): e2345892
- **Guiding Principles to Address the Impact of Algorithm Bias on Racial and Ethnic Disparities in Health and Health Care.** *JAMA network open*
Chin, M. H., Afsar-Manesh, N., Bierman, A. S., Chang, C., Colon-Rodriguez, C. J., Dullabh, P., Duran, D. G., Fair, M., Hernandez-Boussard, T., Hightower, M., Jain, A., Jordan, W. B., Konya, et al
2023; 6 (12): e2345050
- **Promoting Equity In Clinical Decision Making: Dismantling Race-Based Medicine.** *Health affairs (Project Hope)*
Hernandez-Boussard, T., Siddique, S. M., Bierman, A. S., Hightower, M., Burstin, H.
2023; 42 (10): 1369-1373
- **Contemporary attitudes and beliefs on coronary artery calcium from social media using artificial intelligence.** *NPJ digital medicine*
Somani, S., Balla, S., Peng, A. W., Dudum, R., Jain, S., Nasir, K., Maron, D. J., Hernandez-Boussard, T., Rodriguez, F.
2024; 7 (1): 83

- **Towards global model generalizability: independent cross-site feature evaluation for patient-level risk prediction models using the OHDSI network.** *Journal of the American Medical Informatics Association : JAMIA*
Nadervaljoud, B., Curtin, C. M., Yanover, C., El-Hay, T., Choi, B., Park, R. W., Tabuenca, J. G., Reeve, M. P., Falconer, T., Humphreys, K., Asch, S. M., Hernandez-Boussard, T.
2024
- **Measuring quality-of-care in treatment of young children with attention-deficit/hyperactivity disorder using pre-trained language models.** *Journal of the American Medical Informatics Association : JAMIA*
Pillai, M., Posada, J., Gardner, R. M., Hernandez-Boussard, T., Bennett, Y.
2024
- **Predicting Depression Risk in Patients With Cancer Using Multimodal Data: Algorithm Development Study.** *JMIR medical informatics*
de Hond, A., van Buchem, M., Fanconi, C., Roy, M., Blayney, D., Kant, I., Steyerberg, E., Hernandez-Boussard, T.
2024; 12: e51925
- **The Next Era of Assessment: Building a Trustworthy Assessment System.** *Perspectives on medical education*
Caretta-Weyer, H. A., Smirnova, A., Barone, M. A., Frank, J. R., Hernandez-Boussard, T., Levinson, D., Lombarts, K. M., Lomis, K. D., Martini, A., Schumacher, D. J., Turner, D. A., Schuh, A.
2024; 13 (1): 12-23
- **Organizational Factors in Clinical Data Sharing for Artificial Intelligence in Health Care.** *JAMA network open*
Youssef, A., Ng, M. Y., Long, J., Hernandez-Boussard, T., Shah, N., Miner, A., Larson, D., Langlotz, C. P.
2023; 6 (12): e2348422
- **Trends in Influenza Vaccination Rates among a Medicaid Population from 2016 to 2021.** *Vaccines*
Nadervaljoud, B., Shah, N. D., Mutanga, J. N., Belov, A., Staiger, R., Chen, J. H., Whitaker, B., Hernandez-Boussard, T.
2023; 11 (11)
- **Postoperative opioid prescribing patients with diabetes: Opportunities for personalized pain management.** *PloS one*
Zammit, A., Coquet, J., Hah, J., El Hajouji, O., Asch, S. M., Carroll, I., Curtin, C. M., Hernandez-Boussard, T.
2023; 18 (8): e0287697
- **Prediction of opioid-related outcomes in a medicaid surgical population: Evidence to guide postoperative opiate therapy and monitoring.** *PLoS computational biology*
El Hajouji, O., Sun, R. S., Zammit, A., Humphreys, K., Asch, S. M., Carroll, I., Curtin, C. M., Hernandez-Boussard, T.
2023; 19 (8): e1011376
- **Preoperative Versus Perioperative Risk Factors for Delayed Pain and Opioid Cessation After Total Joint Arthroplasty: A Prospective Cohort Study.** *Pain and therapy*
Hah, J. M., Vialard, J. D., Efron, B., Mackey, S. C., Carroll, I. R., Amanatullah, D. F., Narasimhan, B., Hernandez-Boussard, T.
2023
- **Patient-reported distress at a cancer center during the COVID-19 pandemic.** *Scientific reports*
Shah, M. P., Rosenthal, S. W., Roy, M., Khaki, A. R., Hernandez-Boussard, T., Ramchandran, K.
2023; 13 (1): 9581
- **Natural language processing to identify reasons for sex disparity in statin prescriptions.** *American journal of preventive cardiology*
Witting, C., Azizi, Z., Gomez, S. E., Zammit, A., Sarraju, A., Ngo, S., Hernandez-Boussard, T., Rodriguez, F.
2023; 14: 100496
- **A Bayesian approach to predictive uncertainty in chemotherapy patients at risk of acute care utilization.** *EBioMedicine*
Fanconi, C., de Hond, A., Peterson, D., Capodici, A., Hernandez-Boussard, T.
2023; 92: 104632
- **Predicting Depression Risk in Patients with Cancer Using Multimodal Data.** *Studies in health technology and informatics*
de Hond, A., van Buchem, M., Fanconi, C., Roy, M., Blayney, D., Kant, I., Steyerberg, E., Hernandez-Boussard, T.
2023; 302: 817-818
- **Perspectives on validation of clinical predictive algorithms.** *NPJ digital medicine*
de Hond, A. A., Shah, V. B., Kant, I. M., Van Calster, B., Steyerberg, E. W., Hernandez-Boussard, T.

2023; 6 (1): 86

- **Multimodal data fusion for cancer biomarker discovery with deep learning** *NATURE MACHINE INTELLIGENCE*
Steyaert, S., Pizurica, M., Nagaraj, D., Khandelwal, P., Hernandez-Boussard, T., Gentles, A. J., Gevaert, O.
2023
- **Artificial Intelligence-Enabled Analysis of Statin-Related Topics and Sentiments on Social Media.** *JAMA network open*
Somani, S., van Buchem, M. M., Sarraju, A., Hernandez-Boussard, T., Rodriguez, F.
2023; 6 (4): e239747
- **Multimodal data fusion for cancer biomarker discovery with deep learning.** *Nature machine intelligence*
Steyaert, S., Pizurica, M., Nagaraj, D., Khandelwal, P., Hernandez-Boussard, T., Gentles, A. J., Gevaert, O.
2023; 5 (4): 351-362
- **Identifying Reasons for Statin Nonuse in Patients With Diabetes Using Deep Learning of Electronic Health Records.** *Journal of the American Heart Association*
Sarraj, A., Zammit, A., Ngo, S., Witting, C., Hernandez-Boussard, T., Rodriguez, F.
2023: e028120
- **TOPICS AND SENTIMENTS AROUND STATINS ON REDDIT USING ARTIFICIAL INTELLIGENCE**
Somani, S., Van Buchem, M., Sarraju, A., Hernandez-Boussard, T., Rodriguez, F.
ELSEVIER SCIENCE INC.2023: 1637
- **Correction to: Predict, diagnose, and treat chronic kidney disease with machine learning: a systematic literature review.** *Journal of nephrology*
Sanmarchi, F., Fanconi, C., Golinelli, D., Gori, D., Hernandez-Boussard, T., Capodici, A.
2023
- **A deep-learning algorithm to classify skin lesions from mpox virus infection.** *Nature medicine*
Thieme, A. H., Zheng, Y., Machiraju, G., Sadee, C., Mittermaier, M., Gertler, M., Salinas, J. L., Srinivasan, K., Gyawali, P., Carrillo-Perez, F., Capodici, A., Uhlig, M., Habenicht, et al
2023
- **Predict, diagnose, and treat chronic kidney disease with machine learning: a systematic literature review.** *Journal of nephrology*
Sanmarchi, F., Fanconi, C., Golinelli, D., Gori, D., Hernandez-Boussard, T., Capodici, A.
2023
- **Predicting premature discontinuation of medication for opioid use disorder from electronic medical records.** *AMIA ... Annual Symposium proceedings. AMIA Symposium*
Lopez, I., Fouladvand, S., Kollins, S., Chen, C. A., Bertz, J., Hernandez-Boussard, T., Lembke, A., Humphreys, K., Miner, A. S., Chen, J. H.
2023; 2023: 1067-1076
- **Improving machine learning with ensemble learning on observational healthcare data.** *AMIA ... Annual Symposium proceedings. AMIA Symposium*
Naderalvojud, B., Hernandez-Boussard, T.
2023; 2023: 521-529
- **Natural Language Processing Methods to Identify Oncology Patients at High Risk for Acute Care with Clinical Notes.** *AMIA Joint Summits on Translational Science proceedings. AMIA Joint Summits on Translational Science*
Fanconi, C., van Buchem, M., Hernandez-Boussard, T.
2023; 2023: 138-147
- **Changes in Medicaid enrollment during the COVID-19 pandemic across 6 states.** *Medicine*
Sun, R., Staiger, B., Chan, A., Baker, L. C., Hernandez-Boussard, T.
2022; 101 (52): e32487
- **Predictors of Incident HeartFailure Diagnosis Setting: Insights From the Veterans Affairs Healthcare System.** *JACC. Heart failure*
Tisdale, R. L., Fan, J., Calma, J., Cyr, K., Podchiyska, T., Stafford, R. S., Maron, D. J., Hernandez-Boussard, T., Ambrosy, A., Heidenreich, P. A., Sandhu, A. T.
2022
- **The AI life cycle: a holistic approach to creating ethical AI for health decisions.** *Nature medicine*
Ng, M. Y., Kapur, S., Blizinsky, K. D., Hernandez-Boussard, T.
2022

- **Leveraging weak supervision to perform named entity recognition in electronic health records progress notes to identify the ophthalmology exam.** *International journal of medical informatics*
Wang, S. Y., Huang, J., Hwang, H., Hu, W., Tao, S., Hernandez-Boussard, T.
2022; 167: 104864
- **Picture a data scientist: a call to action for increasing diversity, equity, and inclusion in the age of AI.** *Journal of the American Medical Informatics Association : JAMIA*
de Hond, A. A., van Buchem, M. M., Hernandez-Boussard, T.
2022
- **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
- **Patient-reported distress at a cancer center during the COVID-19 pandemic.**
Shah, M. P., Rosenthal, S., Roy, M., Khaki, A., Hernandez-Boussard, T., Ramchandran, K.
LIPPINCOTT WILLIAMS & WILKINS.2022: E18644
- **Deep Learning Approaches for Predicting Glaucoma Progression Using Electronic Health Records and Natural Language Processing.** *Ophthalmology science*
Wang, S. Y., Tseng, B., Hernandez-Boussard, T.
2022; 2 (2): 100127
- **Named entity recognition in ophthalmology clinical progress notes: What's in the eye exam?**
Wang, S. Y., Huang, J., Hwang, H., Hu, W., Hernandez-Boussard, T.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2022
- **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
- **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
- **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
- **Clinical concept recognition: Evaluation of existing systems on EHRs.** *Frontiers in artificial intelligence*
Lossio-Ventura, J. A., Sun, R., Boussard, S., Hernandez-Boussard, T.
2022; 5: 1051724
- **Changes in postoperative opioid prescribing across three diverse healthcare systems, 2010-2020.** *Frontiers in digital health*
Coquet, J., Zammit, A., Hajouji, O. E., Humphreys, K., Asch, S. M., Osborne, T. F., Curtin, C. M., Hernandez-Boussard, T.

2022; 4: 995497

- **Exploring approaches for predictive cancer patient digital twins: Opportunities for collaboration and innovation.** *Frontiers in digital health*
Stahlberg, E. A., Abdel-Rahman, M., Aguilar, B., Asadpoure, A., Beckman, R. A., Borkon, L. L., Bryan, J. N., Cebulla, C. M., Chang, Y. H., Chatterjee, A., Deng, J., Dolatshahi, S., Gevaert, et al
2022; 4: 1007784
- **Prescription quantity and duration predict progression from acute to chronic opioid use in opioid-naive Medicaid patients.** *PLOS digital health*
Johnson, D. G., Ho, V. T., Hah, J. M., Humphreys, K., Carroll, I., Curtin, C., Asch, S. M., Hernandez-Boussard, T.
2022; 1 (8)
- **Using deep learning-based natural language processing to identify reasons for statin nonuse in patients with atherosclerotic cardiovascular disease.** *Communications medicine*
Saraju, A., Coquet, J., Zammit, A., Chan, A., Ngo, S., Hernandez-Boussard, T., Rodriguez, F.
2022; 2: 88
- **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
- **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., Erdogan, 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., Alatrasta-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**
Sarraj, 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 neurology 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
- **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
- **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

- **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
- **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
- **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
- **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
- **MINIMAR (MINimum Information for Medical AI Reporting): Developing reporting standards for artificial intelligence in health care.** *Journal of the American Medical Informatics Association : JAMIA*
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- 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)