

CURRICULUM VITAE

Date prepared: May 1, 2020

Jeremiah R. Brown, PhD, MS
 Professor (with Tenure) of Epidemiology,
 Biomedical Data Science,
 Health Policy and Clinical Practice,
 Geisel School of Medicine at Dartmouth

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I. EDUCATION:

DATES	INSTITUTION	DEGREE
1999	St. Lawrence University, Canton, New York	BS
2003	Dartmouth College, Hanover, New Hampshire	MS
2006	Dartmouth College, Hanover, New Hampshire	PhD

II. POSTDOCTORAL TRAINING

DATES	INSTITUTION	SPECIALTY
2006-2008	Dartmouth Medical School, Hanover, New Hampshire	AHA Postdoctoral Fellowship in Cardiovascular Epidemiology
2008-2009	Dartmouth Medical School, Hanover, New Hampshire	AHRQ NRSA Postdoctoral Fellowship in Health Services Research

III. PROFESSIONAL DEVELOPMENT ACTIVITIES

DATES	INSTITUTION	PROGRAM	DURATION	ROLE	CERTIFICATE
2010-2014	TDI, Geisel School of Medicine	Center for Leadership and Improvement Series	4 year	participant	
2011	DCAL, Dartmouth	Course Development Series	Four 2-hour sessions	participant	

2011	Geisel School of Medicine	Synergy Certificate Program			Co-Director
2011	TDI, Geisel School of Medicine	Microsystems Academy	5 months	Level 1 Coach	Microsystems Coach Credentials
2011-2014	TDI, Geisel School of Medicine	Writing Seminar, led by David Stevens			participant
2011-2014	TDI, Geisel School of Medicine	Early Investigator Forum	3-4 years	Presenter, participant	
2013	TDI, Geisel School of Medicine	Advanced Statistics			participant
3/23/2015	Geisel School of Medicine	Writing Winning NIH Grant Proposals, Grant Writers' Seminars and Workshops	One day		participant
11/17-18/2015	Dartmouth-SQUIRE	Squire 2.0 Writing Conference	Two days		participant
12/1/2015	National Center for Faculty Development & Diversity (NCFDD)	How to Manage Your Time So You Can Publish Prolifically and Have a Life Beyond the Ivory Tower	One day		participant
12/11/2015	Dartmouth SYNERGY	Writing for Biomedical Publication	One day		participant
2019	Dartmouth College	DARTSMART-Policies and Procedures	11 hours		participant

IV. ACADEMIC APPOINTMENTS

TITLE	INSTITUTION	DATES
Instructor, The Dartmouth Institute for Health Policy and Clinical Practice	Geisel School of Medicine at Dartmouth	2009-2010
Assistant Professor, The Dartmouth Institute for Health Policy and Clinical Practice	Geisel School of Medicine at Dartmouth	2010-2016
Assistant Professor, Community & Family Medicine	Geisel School of Medicine at Dartmouth	2012-2016
Assistant Professor, Medicine	Geisel School of Medicine at Dartmouth	2012-2016
Adjunct Professor of Applied Health Care Economics	Washington Jefferson University	2016-2018
Associate Professor, The Dartmouth Institute for Health Policy and Clinical Practice	Geisel School of Medicine at Dartmouth	2016-Present
Associate Professor, Medicine	Geisel School of Medicine at Dartmouth	2016-2017
Associate Professor, Epidemiology	Geisel School of Medicine at Dartmouth	2017-2019
Associate Professor, Biomedical Data Science	Geisel School of Medicine at Dartmouth	2017-2019
Professor (with Tenure), Epidemiology	Geisel School of Medicine at Dartmouth	12/1/2019-Present
Professor (with Tenure), The Dartmouth Institute for Health Policy and Clinical Practice	Geisel School of Medicine at Dartmouth	12/1/2019-Present
Professor (with Tenure), Biomedical Data Science	Geisel School of Medicine at Dartmouth	12/1/2019-Present

V. INSTITUTIONAL LEADERSHIP ROLES

TITLE	INSTITUTION	DATES
Statistician, Department of Quality Administration	Dartmouth-Hitchcock Medical Center	2008-2012
Cardiology Fellow Research Advisor	Dartmouth-Hitchcock Medical Center	2008-2017
Co-Director, SYNERGY Translational Science Certificate Programs	Geisel School of Medicine at Dartmouth	2011-2017
Course Director, Research Capstone	Geisel School of Medicine at Dartmouth	2011-2018
Director, MPH and MS Capstone Advisory Committee	Geisel School of Medicine at Dartmouth	2012-2018
Director, TDI Capstone	Geisel School of Medicine at Dartmouth	2013-2018
Co-Director, TDI Continual Improvement of Health and Healthcare	Geisel School of Medicine at Dartmouth	2014-2017
Co-Director, TDI Statistics for Healthcare Improvement	Geisel School of Medicine at Dartmouth	2015-Present
Co-Chair, Cross-Campus Natural Language Processing Taskforce	Dartmouth College, Geisel School of Medicine, Dartmouth-Hitchcock Medical Center, White River Junction Veterans Affairs	2017-Present
Chair, Search Committee for Epi-COBRE Faculty position opened on 2/4/2019	Geisel School of Medicine at Dartmouth	2019

VI. LICENSURE AND CERTIFICATION

VII. HOSPITAL/HEALTH SYSTEM APPOINTMENTS

VIII. OTHER PROFESSIONAL POSITIONS

POSTION	TITLE	DATES
Faculty	American Society of Nephrology	2008
Faculty	Cardiovascular Research & Education Foundation (CREF)	2008-Present
Faculty	McMaster University – First Consult Updates for Acute Kidney Injury	2013-Present
Adjunct Professor of Applied Health Care Economics	Washington-Jefferson University	2016-2018

IX. TEACHING ACTIVITIES

A. Undergraduate teaching

COURSE TITLE	DATES	INSTITUTION	ROLE	HOURS	STUDENTS/PER YEAR
Global Health	2010-2011	Dartmouth College	Lecturer	3	

B. Undergraduate Medical Education Classroom

C. Undergraduate Medical Education Clerkship/Other

D. Graduate Medical Education Teaching

E. Other Clinical Education Programs

F. Graduate Teaching (MS, MPH, PhD)

COURSE TITLE	DATES	INSTITUTION	ROLE	HOURS	STUDENTS/PER YEAR
ECS 140: Epidemiology & Biostatistics I Center for the Evaluative Clinical Sciences	2003-2005	Dartmouth Medical School	Teaching Assistant	80	60
ECS 141: Epidemiology & Biostatistics II Center for the Evaluative Clinical Sciences	2003-2006	Dartmouth Medical School	Teaching Assistant	80	60
Clinical Research Methodology	2004-2005	Dartmouth Medical School, Dartmouth- Hitchcock Medical Center	Co-Director	40	60

Doctoral Seminar-Spring Term	2009	Dartmouth Medical School	Lecturer	4	8-10
Statistical Review of Multivariable Regression and Survival Analysis Leadership and Preventative Medicine Residency Noon Conference	2009	Dartmouth Medical School	Lecturer	1	15-20
Clinical Epidemiology	2004-2017	Dartmouth-Hitchcock Medical Center	Director	10	8-12 Cardiology Fellows
MPH and MS Research Capstone Series 1, 2 and 3 (PH 177, 178, 179) The Dartmouth Institute for Health Policy and Clinical Practice, Dartmouth College	2009-2018	Geisel School of Medicine at Dartmouth	Course Director	80	60
PH 126 Statistical Measurement and Analysis in Quality Improvement	2014-Present	Geisel School of Medicine at Dartmouth	Co-Director	40	30
PH 117 Continual Improvement of Health Care	2014-2017	Geisel School of Medicine at Dartmouth	Co-Director	36	60

Research Methods I in Applied Health Care Economics 603	2016	Washington Jefferson University	Director	23	4
Research Methods II in Applied Health Care Economics 604	2017	Washington Jefferson University	Director	23	3
PH 233 Statistics for Improvement	2017-2018	Geisel School of Medicine at Dartmouth	Co-Director	10	25-30
QBS 184 Epidemiology Capstone	2018-Present	Geisel School of Medicine at Dartmouth	Director	20	2

G. Other Professional/Academic Programs

COURSE TITLE	DATES	INSTITUTION	ROLE	HOURS	STUDENTS/PER YEAR
SYNERGY Translational Science Research Certificate Program	2012-2017	Geisel School of Medicine Dartmouth College	Co-Director	40	30

X. ADVISING/MENTORING

A. Undergraduate

ADVISEE/MENTEE	DATES	PROGRAM	Role
Alex Yerukhimov	2012-2013	N/A	Primary Mentor
Kassundra Amann D'16	2013 – 2015	WISP	Primary Mentor
Natalie Cantave D'17	2013 – 2015	WISP, Sophomore Scholar, Junior Scholar	Primary Mentor
Alex Bishop	2014	NH INBRE	Primary Mentor

Sukriti Raut	2014 – Present	Colby-Sawyer Health Policy Internship	Primary Mentor at Dartmouth
Jessica Kobsa D'20	2017 – 2018	WISP, Sophomore Scholar, Neukom Fellow	Primary Mentor
Jessica Campanile D'20	2017	WISP	Primary Mentor
Kristie Chow Mae Han D'20	2017	WISP	Primary Mentor
Charles M. Smith D'18	2017 – 2018	Neukom Fellow, Junior Scholar	Primary Mentor
Namya Malik D'20	2017 – 2019	Neukom Fellow, Sophomore Scholar	Primary Mentor
Richard Berman D'18	2017 – 2018	Senior Intern	Primary Mentor
Michael Green D'21	2018 – Present	EE Just Fellow Sophomore Scholar	Primary Mentor
Mahalia R. Dalmage D'21	2018 – Present	WISP, Sophomore Scholar	Primary Mentor
Sarina Kothari D'21	2018 – Present	WISP, Sophomore Scholar	Primary Mentor
Ashley C. Francisco D'21	2018 – Present	WISP, Sophomore Scholar, EE Just Fellow	Primary Mentor
Katherine E. Miller D'22	2019 – Present	WISP	Primary Mentor
Catherine D. Parnell D'22	2019 – Present	WISP	Primary Mentor
Sathvika R. Korandla D'22	2019 – Present	WISP	Primary Mentor

B. Graduate Students

ADVISEE/MENTEE	DATES	PROGRAM	Role
Sayyad Kyazimzade	2012 – 2013	MPH, The Dartmouth Institute	Research Project Advisor

Bokyung (Tiffany) Kim	2012 – 2013	MS, The Dartmouth Institute	Research Project Advisor
Elizabeth O’Neil	2014	MPH, The Dartmouth Institute	Research Project Advisor
Nathan Heagarty	2014	MPH, The Dartmouth Institute	Research Project Advisor
Elizabeth Nichols	2014-2018	PhD, The Dartmouth Institute	Primary Mentor Chair, PhD Committee
Devin E. Parker	2013-2014	MS, The Dartmouth Institute	Research Project Advisor
Andrew R. Bohm	2016-2019	MS, PhD, The Dartmouth Institute	Primary Mentor Chair, PhD Committee
Iben Rickett	2018-present	PhD, Quantitative Biological Sciences	Primary Mentor Chair, PhD Committee
Devin E. Parker	2018-present	PhD, The Dartmouth Institute	Primary Mentor Chair, PhD Committee
Nivedetta Ramkamur	2016-present	PhD, The Dartmouth Institute	Primary Mentor Chair, PhD Committee
Todd Miano, PharmD, MS	2016-2019	PhD, University of Pennsylvania	External PhD Committee Member

C. Medical

ADVISEE/MENTEE	DATES	PROGRAM	Role
Alicia True-DaGrosa	2012	GSM	Primary Research Advisor
Melissa Cantave	2017	GSM	Primary Research Mentor
Nick Valentini	2017-2018	GSM	Primary Research Advisor

D. Residents/Fellows

ADVISEE/MENTEE	DATES	PROGRAM	Role
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Ravneet Bhullar, MD	2006-2008	General Internal Medicine Resident and Pain Management Resident	Primary Research Mentor
Mandeep Sidhu MD	2006-2011	Cardiology Fellow Electrophysiology Fellow	Primary Research Mentor
Vijay S. Ramanath, MD	2008 – 2011	Cardiology Fellow	Primary Research Mentor
Scott Friedman, MD	2009 – 2010	Cardiology Fellow	Primary Research Advisor
Ethan M. Fruechte, MD	2009 – 2010	Cardiology Fellow	Primary Research Advisor
Timothy C. Ball, MD, PhD	2009 – 2010	Interventional Fellow	Primary Research Advisor
Pantila Vanichakarn, MD	2009 – 2012	Cardiology Fellow	Primary Research Mentor
David M. Zlotnick, MD	2009 – 2012	Cardiology Fellow	Primary Research Advisor
Ravi Dhingra, MD	2009 – 2012	Cardiology Fellow	Primary Research Advisor
Alina M. Robert, MD	2009 – 2013	General Internal Medicine Resident, Cardiology Fellow	Primary Research Advisor
Jana E. Montgomery, MD	2010 – 2013	Cardiology Fellow	Primary Research Mentor
Syed A. Agha, MD	2010 – 2013	Cardiology Fellow	Primary Research Advisor
Hayah Kassis, MD	2010 – 2013	General Internal Medicine Resident	Primary Research Mentor
Alex Rainow, MD	2010 – 2013	Cardiology Fellow	Primary Research Mentor

Erik Fung, MD	2011 – 2014	Cardiology Fellow	Primary Research Advisor
Anjlee M. Mehta, MD	2011 – 2014	Cardiology Fellow	Primary Research Advisor
Deven M. Patel, MD	2011 – 2014	Cardiology Fellow	Primary Research Advisor
Yasotha Rajeswaran, MD	2012 – 2015	Cardiology Fellow	Primary Research Advisor
Kalyan Ghanta, MD	2012 – 2015	Cardiology Fellow	Primary Research Advisor
Kiran Devaraj, MD	2012 – 2015	Cardiology Fellow	Primary Research Advisor
Nicholas Buss, MD	2012 – 2015	Cardiology Fellow	Primary Research Advisor
Adam Coleman, MD	2013 – 2016	General Internal Medicine, Cardiology Fellow	Primary Research Advisor
Adam Stern, MD	2013 – 2016	Cardiology Fellow	Primary Research Advisor
Chris Russo, MD	2013 – 2016	Cardiology Fellow	Primary Research Advisor
Greg Dadekian, MD	2013 – 2016	Cardiology Fellow	Primary Research Advisor
Shawn Ahmad, MD	2013 – 2017	Cardiology Fellow	Primary Research Advisor
Tom Apridonidze, MD	2014 – 2017	Cardiology Fellow	Primary Research Advisor
Ron Chin, MD	2014 – 2017	Cardiology Fellow	Primary Research Advisor
Brian Porter, MD	2014 – 2017	Cardiology Fellow	Primary Research Advisor

Ryan Van Hoff, MD	2014 – 2017	Cardiology Fellow	Primary Research Advisor
Ryan Svoboda, MD , MS	2012 – 2017	Vascular Surgery	Primary Research Advisor
Sherry Owens, PhD	2017	Postdoctoral Fellow, TDI	Primary Fellowship Mentor
Meagan E. Stabler, PhD	2017 – 2018	Postdoctoral Fellow, TDI	Primary Fellowship Mentor
Maxwell E. Levis, PhD	2018- Present	Postdoctoral Fellow, VA	Primary Fellowship Mentor

E. Non-degree Program Students

F. Faculty

ADVISEE/MENTEE	DATES	PROGRAM	Role
Randy Loftus	2009-2015	Anesthesiology	Research Mentor
Paul Barr	2015-2018	TDI	Career Development Advisor
JoAnna Leyannar	2017 – Present	Pediatrics Health Services Research	Career Development Advisor
Meagan Stabler	2018 – Present	Pediatric Epidemiology	Research Advisor

G. Others

XI. ADVISING/MENTORING (*not research*)

2016. **UNDERGRADUATE STUDENTS**

B. GRADUATE STUDENTS

C. MEDICAL STUDENTS

D. RESIDENTS/FELLOWS

E. NON-DEGREE PROGRAM STUDENTS

XII. ENGAGEMENT, COMMUNITY SERVICE/EDUCATION

DATES	INSTITUTION	COURS E/ACTI VITY	ROLE	HOURS/Y EAR
10/5/2007- 3/28/2010	Lwala Community Alliance	501c3	Founding Board member, Executive Board	80
2015 – Present	Renal Support Network	501c3	Partner and Advocate	10

XIII. RESEARCH ACTIVITIES**A. SPONSORED ACTIITY
CURRENT**

DATES	PROJECT TITLE/AWARD #	ROLE	PERCENT EFFORT	SPONSOR	ANNUAL DIRECT COSTS
8/18/2014 – 6/30/2020	R01 HL119664 Novel Biomarkers to Predict Readmission in Pediatric and Adult Heart Surgery	PI	25%	NHLBI	\$667,739
5/1/2016 – 4/30/2020	R01 HL130828 Information Extraction from EMRs to Predict Readmission following Acute Myocardial Infarction	PI	20%	NHLBI	\$552,715
7/15/2018 – 5/31/2023	R01 DK113201 IMPROVE AKI: A Cluster-Randomized Trial of Team-Based Coaching Interventions to IMPROVE Acute Kidney Injury	PI	25%	NIDDK	\$563,708
7/1/2019 – 6/30/2020	COBRE Pilot Novel Biomarkers to Predict Readmission in Pediatric and Adult Heart Surgery	PI	5%	COBRE	\$25,000

PAST

DATES	PROJECT TITLE/AWARD #	ROLE	PERCENT EFFORT	SPONSOR	ANNUAL DIRECT COSTS
2006 – 2008	AHA 0625950T AHA Postdoctoral Fellowship Using Biomarkers to Improve Pre-Op Prediction of De	PI	100%	American Heart Association – Founders Affiliate	\$36,000
2008 – 2009	T32 HS000070-14 AHRQ National Research Award (NRSA) Postdoctoral Fellowship	Recipient (PI – John E. Wennberg)	100%	AHRQ	\$39,000
2009 – 2015	K01 HS18443-01 Patient Safety and Acute Kidney Injury	PI	75%	AHRQ	\$149,728
2012 – 2017	VA HSR&D IIR-292-1 National Automated Surveillance of Cardiac Catheterization Post- Procedural Acute Kidney Injury	Site PI (PI – Michael Matheny)	25%	VA HRS&D	\$49,960
2013 – 2015	CompX Information Extraction of Hospital Reports for Automating Readmission and Mortality Models	PI	10%	Neukom Institute	\$39,936
2014 – 2015	Combined Post- and Pre- Capillary Pulmonary Hypertension in Heart	PI	5%	Actelion, Inc. Switzerland	\$31,754

Failure with Preserved
Ejection Fraction

B. PENDING SUBMISSIONS

DATES	PROJECT TITLE/AWARD #	ROLE	PERCENT EFFORT	SPONSOR	ANNUAL DIRECT COSTS
1/1/2020 – 12/31/2024 (Scored 7th Percentile)	R01 DK122073A Developing and validating HER- integrated readmission risk prediction models for hospitalized patients with diabetes	Site-PI (PI: Daniel Rubin, Temple University, PA)	9.8%	NIDDK	\$500,000
7/1/2020 – 6/30/2025	2R01 HL119664 Renewal Novel Biomarkers to Predict Readmission in Pediatric and Adult Heart Surgery	PI	20%	NHLBI	\$500,000

XIV. PROGRAM DEVELOPMENT

XV. ENTREPRENEURIAL ACTIVITIES

Pre-clinical evaluation of the VentiFlo pulsatile cardiopulmonary bypass pump and biomarkers organ injury (kidney, brain, heart) in a porcine model in collaboration with Ryan Halter (Thayer) and Design Motor, Inc (Pelham, NH).

Beta-test Health Catalyst platform for DHMC to automate use of clinical notes for predictive analytics called "Dartmouth Test DOS MART".

XVI. MAJOR COMMITTEE ASSIGNMENTS

A. NATIONAL/INTERNATIONAL

DATES	COMMITTEE	ROLE	INSTITUTION
12/1/2006 – 12/31/2009	Workforce on Evidence-Based Medicine. Practice Guideline series on Peri-operative Blood Transfusion and Blood Conservation in Cardiac Surgery	Invited Guidelines Taskforce Member	The Society of Thoracic Surgeons, and The Society of Cardiovascular Anesthesiologists
9/1/2007 – 9/1/2009	International Consortium of Evidence Based Perfusion	Invited Guidelines Taskforce Member	International Consortium of Evidence Based Perfusion
12/10/2008 – 12/31/2011	Acute Kidney Injury Network Taskforce (International)	Taskforce Member	Acute Kidney Injury Network
9/1/2009 – Present	Workforce on Cardiopulmonary Bypass	Invited Guidelines Taskforce Member (Renal Workgroup Lead) Renal Workgroup Chair	The Society of Thoracic Surgeons, The Society of Cardiovascular Anesthesiologist, International Consortium of Evidence Based Perfusion

3/20/2014 – 9/3/2015	Yale-CORE Methodology Workgroup for Care Transitions Project	Expert Consultant on Readmissions	Yale, CMS
2017	Biomedical Computing and Health Informatics Study Section (BCHI)	Invited Study Section Reviewer	NIH
2018	2018/10 ZGM1 BBCB-7 (X0) National Institute of General Medical Sciences Special Emphasis Panel	Invited Special Emphasis Panel Biomedical Technology Research Resource (BTRR, X02)	NIH
2019– Present	Health Research Council of New Zealand HRC 19/401	Invited Study Section Reviewer	INTERNATIONAL – Health Research Council of New Zealand
2019– Present	Precision Cardiovascular Medicine Artificial Intelligence & Machine Learning Peer Review Meeting	Invited Study Section Reviewer	American Heart Association
2019-Present	Dissemination and Implementation in Health (DIRH)	Invited Study Section Reviewer	NIH
2019-Present	Dissemination and Implementation in Health ZRG1 DIRH-K (07) S	Invited Special Emphasis Panel Reviewer for ZRG1 DIRH-K (07) S	NIH
2016-2019	Todd Miano, PharmD, MS Drug-Drug Interactions And Kidney Disease In Hospitalized Patients	External PhD Committee Member	University of Pennsylvania Department of Epidemiology and Biostatistics

2019

Annette L. Mazzone, CCP

External
PhD Examiner

Flinders Medical Centre and
Flinders University
Adelaide South Australia

B. REGIONAL

DATES	COMMITTEE	ROLE	INSTITUTION
2007 – 2009	Medical sub-committee	Founding Board Member	Lwala Community Alliance – Hanover, NH
2008 – 2009	Executive Committee	Member	Lwala Community Alliance – Hanover, NH

C. INSTITUTIONAL

DATES	COMMITTEE	ROLE	INSTITUTION
2006 – 2016	Admissions Committee	Member	The Dartmouth Institute for Health Policy and Clinical Practice
2006 – 2017	Dartmouth Dynamic Registry for catheterization procedures	Founding Member	Dartmouth-Hitchcock Medical Center
2008-2011	Quality Research Grants Program	Reviewer, Statistician	Dartmouth-Hitchcock Medical Center
2013	SYNERGY Scholars Review Committee	Reviewer	Geisel School of Medicine at Dartmouth
2014 – 2017	TDI Council	Member	TDI, Geisel School of Medicine at Dartmouth
2014 – 2017	Curriculum Redesign	Advisor	TDI, Geisel School of Medicine at Dartmouth

XVII. MEMBERSHIPS, OFFICE AND COMMITTEE ASSIGNMENTS – PROFESSIONAL SOCIETIES

DATES	COMMITTEE	ROLE	INSTITUTION/ORGANIZATION
2003 – Present		Member	Northern New England Cardiovascular Disease Study Group (NNECDSG)
2005-Present		Member	American Heart Association
2007-Present	Guidelines Taskforce	Member	International Consortium of Evidence Based Perfusion

2008-Present	Steering Committee on Acute Kidney Injury Endpoints	Member	Acute Kidney Injury Network
2008-Present	Faculty	Member	American Society of Nephrology
2008-Present	Faculty	Member	Cardiovascular Research & Education Foundation (CREF)
2012-2014	First Consult Updates for Acute Kidney Injury	Faculty	McMaster University
2012-Present		Associate Member	Society of Thoracic Surgeons
2017-Present		Member	American Medical Informatics Association

XVIII. INSTITUTIONAL CENTER OR PROGRAM AFFILIATIONS

XIX. EDITORIAL BOARDS

DATES	SOCIETY/JOURNAL	ROLE
2010-Present	Journal of ExtraCorporeal Technology	Epidemiology and Statistics Editor
2015-2016	BioMed Research International	Lead Guest Editor, invited special issue on Acute Kidney Injury
2018 – Present	Journal of Interventional Cardiology	Academic Editor

XX. JOURNAL REFEREE ACTIVITY

DATES	SOCIETY/JOURNAL	ROLE	FREQUENCY
2005 – Present	Circulation	Reviewer	As needed
2006	Expert Review of Cardiovascular Therapy	Reviewer	As needed
2007 – Present	Journal of the American Medical Association (JAMA)	Reviewer	As needed

2007 – Present	Annals of Thoracic Surgery	Reviewer	As needed
2007 – Present	Journal of Extracorporeal Technology	Statistical Reviewer	Annual, as needed
2009 – Present	American Journal of Kidney Disease	Reviewer	As needed
2009 – Present	American Heart Journal	Reviewer	As needed
2009 – Present	Journal of Interventional Cardiology	Reviewer, Academic Editor	As needed
2009 – Present	European Heart Journal	Reviewer	As needed
2010 – Present	American Heart Journal	Reviewer	As needed
2011 – Present	Circulation Cardiovascular Interventions	Reviewer	As needed
2012 – Present	Annals of Internal Medicine	Reviewer	As needed
2012 – Present	American Journal of Nephrology	Reviewer	As needed
2012 – Present	British Medical Journal	Reviewer	As needed
2012 – Present	British Medical Journal Quality and Safety	Reviewer	As needed
2012 – Present	Circulation Cardiovascular Quality and Outcomes	Reviewer	As needed
2012 – Present	Critical Care Medicine	Reviewer	As needed
2013 – Present	The Lancet	Reviewer	As needed
2014 – Present	PlosOne	Reviewer	As needed
2014 – Present	Journal of the American Heart Association	Reviewer	As needed

2015 – Present	New England Journal of Medicine	Reviewer	As needed
2015-2016	BioMed Research International	Lead Guest Editor	Invited special issue on Acute Kidney Injury

XXI. AWARDS AND HONORS

DATE	AWARD NAME
2006 – 2008	Postdoctoral Fellowship (American Heart Association)
2008 – 2009	Postdoctoral Fellowship (AHRQ NRSA)
2008 – 2009	Who's Who In America
2009 – 2014	K-01 Career Development Award (AHRQ)
2015 – 2016	Invited Lead Guest Editor for AKI special edition

XXII. INVITED PRESENTATIONS**invited presentations**#presented a poster or oral talk**^CME activity***INTERNATIONAL**

DATE	TOPIC/TITLE	ORGANIZATION	LOCATION
10/4/2007*^	A Meta-analysis Comparing the Effectiveness and Adverse Outcomes of Anti-fibrinolytic Agents in Cardiac Surgery	AmSECT's Best Practice in Perfusion 2007 in conjunction with the International Consortium for Evidence-Based Perfusion.	Montreal, Quebec, Canada
10/8/2009*^	The Northern New England Cardiovascular Disease Study Group and Acute Kidney Injury	CIHR/NIH Conference for the TRIBE-AKI consortium	Toronto, Ontario, Canada
6/10/2010*^	Multicenter Prevention of Contrast-Induced Acute Kidney Injury: A Mixed Methods Approach	Universita Degli Studi Di Milano, Centro Cardiologico Monzino	Milan, Italy
6/11/2015*	Epidemiology of combined post- and pre-capillary pulmonary hypertension in patients with heart failure and preserved ejection fraction	Actelion Pharmaceuticals Ltd.	Allschwill, Switzerland (via video conference)
3/11/2019*^	Reducing contrast-induced acute kidney injury using a regional multicenter quality improvement intervention	2 nd World Congress on Medicine, Nursing and Healthcare	Milan, Italy

NATIONAL

DATE	TOPIC/TITLE	ORGANIZATION	LOCATION
12/19/2001#	Recombinant Globular Tail Fragment of Myosin-V Blocks	American Society for Cell Biology	Washington, DC

	Vesicle Transport in Squid Nerve Cell Extracts		
12/18/2002#	Globular Tail Fragment of Myosin-V Displaces Vesicle-Associated Motor and Blocks Vesicle Transport in Squid Nerve Cell Extracts	American Society for Cell Biology	San Francisco, CA
11/14/2005#	Perioperative Increases In Serum Creatinine Are Predictive Of Increased 90-Day Mortality.	American Heart Association Session: AOP.77.1. Cardiac Surgery Outcomes After Coronary Artery Bypass (Podium)	Dallas, TX
11/15/2005#	Cardiac Troponin T Levels In On- and Off-pump Coronary Artery Bypass Surgery	American Heart Association Session: AOP.77.2N. Cardiac Surgery Coronary Artery Disease (Podium)	Dallas, TX
11/13/2006#	Serious Renal Dysfunction After Percutaneous Intervention Can Be Predicted	American Heart Association Session: AOP.96.1F. Featured Research: Optimizing Treatments for Individual Patients – The Value of Prediction (Podium)	Chicago, IL
11/13/2006#	Multivariate Prediction of Renal Insufficiency Developing After Cardiac Surgery.	American Heart Association Session: APS.76.2. Surgical Treatment of Coronary Artery Disease II (Podium)	Chicago, IL
11/4/2007#	Transient and Persistent Postprocedural Renal Dysfunction	American Heart Association (Poster)	Orlando, FL

	as Predictors of 8 Year Mortality after Cardiac Catheterization		
11/6/2007#	Long-term Survival and Cardiac Troponin T Levels In On- And Off-Pump Coronary Artery Bypass Surgery	American Heart Association (Podium)	Orlando, FL
11/3/2008*^	Predictive Value of Changes in Serum Creatinine and Transfusion After Cardiac Surgery	American Society of Nephrology	Philadelphia, PA
2/16/2008*^	A Meta-analysis Comparing the effectiveness and Adverse Outcomes of Anti-fibrinolytic Agents in Cardiac Surgery	San Diego Cardiothoracic Surgery Symposium	San Diego, CA
2/13/2009*^	Predictive Value of Changes in Serum Creatinine and Transfusion After Cardiac Surgery	San Diego Cardiothoracic Surgery Symposium	San Diego, CA
2/14/2009*^	Anti-inflammation practice guidelines for cardiac surgery	San Diego Cardiothoracic Surgery Symposium	San Diego, CA
6/27/2009#	Does “Safe” Dosing of Iodinated Contrast Prevent Contrast-Induced Acute Kidney Injury and Death?	15 th Annual NRSA Trainees Research Conference (Podium)	Chicago, IL
11/15/2009#	Duration of Acute Kidney Injury and Long-term Survival Following Cardiac Surgery	American Heart Association (Poster)	Orlando, FL
11/15/2009#	Using Biomarkers to Improve the Pre-operative Prediction of Death in CABG Patients	American Heart Association (Poster)	Orlando, FL
11/15/2009#	Does Safe Dosing of Iodinated Contrast Prevent Contrast-Induced Acute Kidney Injury and Death?	American Heart Association (Poster)	Orlando, FL
2/7/2010*^	Acute Kidney Injury as An Outcome	Acute Kidney Injury Network Consensus Meeting, Co-Chair 3 Sessions	San Diego, CA

3/5/2010*^	Fireside Chat with Jeremiah R. Brown, PhD, on Cardiac Surgery-Associated Acute Kidney Injury	Cardiothoracic Surgery Symposium	Newport Beach, CA
3/6/2010*^	Tight Glycemic Control	Cardiothoracic Surgery Symposium	Newport Beach, CA
3/6/2010*^	The NNE Biomarker Study and Acute Kidney Injury	Cardiothoracic Surgery Symposium	Newport Beach, CA
3/11/2010*^	Patient Safety and Contrast-Induced Acute Kidney Injury	World Kidney Day Symposium at Tufts Medical Center	Boston, MA
4/29/2010*^	Patient Safety and Acute Kidney Injury	University of Pennsylvania School of Medicine	Philadelphia, PA
11/15/2010*	Prevention of Contrast-Induced Acute Kidney Injury: A Mixed Methods Analysis	American Heart Association	Chicago, IL
11/17/2010#	Readmission Prediction after Cardiac Surgery	TRIBE Consortium at the American Society of Nephrology	Chicago, IL
3/11/2011*^	Long-term outcomes of blood transfusion	Cardiothoracic Surgery Symposium	Newport Beach, CA
3/12/2011*^	Mitigation of Acute Kidney Injury	Cardiothoracic Surgery Symposium	Newport Beach, CA
6/13/2011#	Prevention of Contrast-Induced Acute Kidney Injury: A Mixed Methods Analysis.	Academy Health	Seattle, WA
5/7/2012#	Regional Improvement of Contrast-Induced Acute Kidney Injury	Academy for Healthcare Improvement	Arlington, VA
7/25/2012*	Patient Safety and Acute Kidney Injury	The Clinical Assessment, Reporting, and Tracking System for Cardiac Catheterization Laboratories	Denver, CO

(CART-CL)

3/14/2013*^	Patient Safety and Contrast-Induced Acute Kidney Injury	World Kidney Day Symposium at Tufts Medical Center	Boston, MA
6/24/2013#	Regional, Hospital, and Patient Factors Associated with Acute Myocardial Infarction Readmission Rates	Academy Health	Baltimore, MD
10/30/2013*^	Can Contrast-Induced Acute Kidney Injury be Prevented in the Real World: The Northern New England Cardiovascular Disease Study Group Experience	Transcatheter Cardiovascular Therapeutics (TCT)	San Francisco, CA
10/30/2013*^	Association of Contrast-Induced Acute Kidney Injury and Long-term Outcomes: Causal or Confounder? Insights from the VA National Database	Transcatheter Cardiovascular Therapeutics (TCT)	San Francisco, CA
12/9/2013#^	Preventing Acute Kidney Injury Using a Regional Multicenter Quality Improvement Intervention	Institute for Healthcare Improvement (IHI)	Orlando, FL
1/22/2014*^	Predicting Readmission or Death After STEMI	Institute for Health Metrics	Burlington, MA
10/1/2014*^	Improving Risk Prediction for 30-day Hospital Readmission and Mortality	Yale University	New Haven, CT
10/15/2014*^	Reducing Contrast-Induced Acute Kidney Injury Using a Regional Multicenter Quality Improvement Intervention	MedStar Washington Hospital Center	Washington, DC
1/29/2015*^	Pay-for-Performance Value Analysis: US Health Care Delivery Practices and Structure	Hospital Value Based Purchasing Summit Global Healthcare Professional Network	Dallas, TX
2/12/2015*^	Long-term Consequences of Blood Transfusion	Cardiothoracic Surgery Symposium	San Diego, CA

2/12/2015*^	Fire-side Chat Blood Transfusion	Cardiothoracic Surgery Symposium	San Diego, CA
3/12/2015*^	Patient Safety and Acute Kidney Injury	World Kidney Day Tufts Medical Center	Boston, MA
10/13/2015*	Clinical Model Development for Novel Biomarkers R01	Society of Thoracic Surgeons Quality Measurement Task Force	National Taskforce Conference Call
10/20/2015*^	Multivessel Revascularization in Northern New England and Shared Decision Making	Section of Cardiology, Albany Medical Center	Albany, NY
11/3/2015*^	Improving Risk Prediction for 30-day Hospital Readmission and Mortality	Department of Cardiac Surgery, University of Michigan	Ann Arbor, MI
11/4/2015*^	Readmission After Cardiac Surgery	2015 TRIBE Annual Consortium Meeting	San Diego, CA
5/11/2016*^	Improving Risk Prediction for 30-day Hospital Readmission and Mortality	Grand Rounds, Department of Epidemiology and Biostatistics, UPENN	Philadelphia, PA
5/11/2018*^	Renal Failure after Cardiac Surgery	Society of Thoracic Surgeons Webinar	STS Webinar
7/20/2018*^	National Trends in Acute Kidney Injury from Cardiovascular Procedures	Cardio-Renal Connections Conference	San Antonio, TX
9/18/2018	Renewal of the Utility of Biomarkers to Improve Prediction of Readmission or Mortality After Cardiac Surgery R01	Johns Hopkins	Baltimore, MD

REGIONAL/LOCAL

DATE	TOPIC/TITLE	ORGANIZATION	LOCATION
5/3/2003*^	Biological and Biochemical Markers for detection of sub-clinical effects	Northern New England Cardiovascular	Portsmouth, NH

		Disease Study Group, Plenary	
9/26/2003*^	Biomarkers	Northern New England Cardiovascular Disease Study Group, Plenary	Lebanon, NH
2/6/2004*^	Using Biomarkers of Injury to Identify Better Processes of Care	Northern New England Cardiovascular Disease Study Group, Plenary	Boston, MA
5/7/2004*^	Cardiac Troponin T in On- and Off-pump CABG Surgery	Northern New England Cardiovascular Disease Study Group	Bangor, ME
9/24/2004*^	NNE Biomarker Study	Northern New England Cardiovascular Disease Study Group, Plenary	Lewiston, ME
2/4/2005*^	Postoperative creatinine Increase and 90-day survival	Northern New England Cardiovascular Disease Study Group	Concord, NH
2/4/2005*	Biomarker Update	Northern New England Cardiovascular Disease Study Group	Concord, NH
5/5/2005*^	Tight glyceemic control	Northern New England Cardiovascular Disease Study Group, Nurses Meeting	Portland, ME
5/6/2005*^	Tight glyceemic control	Northern New England Cardiovascular Disease Study Group, Surgery Meeting	Portland, ME
9/21/2005*^	Cardiac Troponin T Levels In On- and Off-pump Coronary Artery Bypass Surgery	Northern New England Cardiovascular Disease Study Group	Burlington, VT

11/3/2005*^	Cardiac Troponin T Levels In On- and Off-pump Coronary Artery Bypass Surgery	DHMC Cardiology Grand Rounds	Lebanon, NH
2/3/2006*^	Aprotinin Meta-Analysis	Northern New England Cardiovascular Disease Study Group	Manchester, NH
5/18/2006*^	Continuous Insulin Infusion	Northern New England Cardiovascular Disease Study Group, Nurses Meeting	Portsmouth, NH
5/19/2006*^	Does Tight Glycemic Control Prevent Myocardial Damage and Inflammation?	Northern New England Cardiovascular Disease Study Group, Surgery Meeting	Portsmouth, NH
8/31/2006*	NNE Biomarker Study	Northern New England Cardiovascular Disease Study Group, Surgery Meeting	Portland, ME
9/7/2006*	NNE Biomarker Study	Northern New England Cardiovascular Disease Study Group, Surgery Meeting	Lewiston, ME
9/7/2006*	NNE Biomarker Study	Northern New England Cardiovascular Disease Study Group, Surgery Meeting	Bangor, ME
9/22/2006*^	A Meta-analysis Comparing the Effectiveness and Adverse Outcomes of Anti-fibrinolytic Agents in Cardiac Surgery	Northern New England Cardiovascular Disease Study Group. Dartmouth-Hitchcock Medical Center	Lebanon, NH
11/2/2006*^	Serious Renal Dysfunction After Percutaneous Intervention Can Be Predicted	DHMC Cardiology Grand Rounds	Lebanon, NH
11/20/2006*^	A Meta-analysis Comparing the Effectiveness and Adverse	Cardiopulmonary Sub- Committee of the Pharmacy and	Lebanon, NH

	Outcomes of Anti-fibrinolytic Agents in Cardiac Surgery	Therapeutics Committee. Dartmouth-Hitchcock Medical Center	
2/9/2007*^	Do Transient Elevations in Creatinine Impact Long-term Survival?	Northern New England Cardiovascular Disease Study Group	Bangor, ME
5/14/2007*^	Transient and Persistent Postprocedural Renal Dysfunction as Predictors of 8 Year Mortality after Cardiac Catheterization	Northern New England Cardiovascular Disease Study Group	Lewiston, ME
5/14/2007*^	Long-term survival for On- and Off-pump surgery with or without troponin elevation	Northern New England Cardiovascular Disease Study Group	Lewiston, ME
6/5/2008*	Contrast-Induced Nephropathy: Prevention and Long-term Assessment	Center for Leadership and Improvement. The Dartmouth Institute for Health Policy and Clinical Practice	Lebanon, NH
10/3/2008*^	Prevention and long-term assessment of contrast-induced nephropathy	Northern New England Cardiovascular Disease Study Group. Catholic Medical Center	Manchester, NH
10/3/2008*^	Peri-procedural Kidney Injury	Northern New England Cardiovascular Disease Study Group. Catholic Medical Center	Manchester, NH
10/25/2008*^	Transfusion and Cardiac Surgery	Fletcher Allen Health Care	Burlington, VT
2/6/2009*^	Biomarkers of Acute Kidney Injury	Northern New England Cardiovascular Disease Study Group, Plenary	Lebanon, NH

2/6/2009*^	Peri-procedural Kidney Injury Quality Improvement Initiative	Northern New England Cardiovascular Disease Study Group, Plenary	Lebanon, NH
2/6/2009*^	Contrast-Induced Acute Kidney Injury	Northern New England Cardiovascular Disease Study Group, Cardiology Workgroup	Lebanon, NH
5/8/2009*^	Tight Glucose Control: How to Proceed In Uncertainty	Northern New England Cardiovascular Disease Study Group, Central Maine Medical Center	Bangor, ME
5/8/2009*^	Maximum Acceptable Contrast Dose and Contrast-Induced Acute Kidney Injury	Northern New England Cardiovascular Disease Study Group, Central Maine Medical Center	Bangor, ME
10/23/2009*^	Decreasing Contrast-Induced Acute Kidney Injury	Northern New England Cardiovascular Disease Study Group, Central Maine Medical Center	Auburn, ME
4/22/2010*	The Dartmouth Atlas of Health Care: Measuring and Improving Health Care	Dartmouth College	Hanover, NH
5/27/2010*^	Multicenter Prevention of Contrast-Induced Acute Kidney Injury: A Mixed Methods Approach	Cardiology Grand Rounds, Department of Medicine, Dartmouth Medical School, Dartmouth-Hitchcock Medical Center	Lebanon, NH
6/3/2010*	Multicenter Prevention of Contrast-Induced Acute Kidney Injury: A Mixed Methods Approach	Center for Leadership and Improvement, The Dartmouth Institute for Health Policy and Clinical Practice	Lebanon, NH

8/10/2010*^	Prevention of Contrast-induced Acute Kidney Injury	Same Day Program and Pre-admission Testing Grand Rounds, Dartmouth Hitchcock Medical Center	Lebanon, NH
1/20/2011*^	Research Study Designs	Nursing Research, Dartmouth Hitchcock Medical Center	Lebanon, NH
2/3/2011*^	Cardiac Surgery Associated Acute Kidney Injury	Northern New England Cardiovascular Disease Study Group, Concord Hospital	Concord, NH
4/21/2010*	The Dartmouth Atlas of Health Care: Measuring and Improving Health Care	Dartmouth College	Hanover, NH
9/28/2011*^	Contrast-induced Acute Kidney Injury	Section of Cardiology, Dartmouth-Hitchcock Medical Center	Lebanon, NH
8/9/2011*^	Prevention of Contrast-induced Acute Kidney Injury	Same Day Program and Pre-admission Testing Grand Rounds, Dartmouth-Hitchcock Medical Center	Lebanon, NH
1/17/2012*	Multi-center Prevention of Contrast-Induced Acute Kidney Injury: A Mixed Methods Approach	Analyst Seminar - Dartmouth-Hitchcock Medical Center	Lebanon, NH
2/3/2012*	Patient Safety and Acute Kidney Injury	Health Policy Faculty Workshop. Center for Health Policy Research	Lebanon, NH
2/21/2012*	How Do You Begin the Process of Improvement?	TDI, ECS 126	Lebanon, NH
8/22/2012*^	Patient Safety and Acute Kidney Injury	Interventional Rounds Section of Cardiology	Lebanon, NH

2/10/2012*^	Reducing Post-PCI Acute Kidney Injury – Quality Improvement and Analysis	Northern New England Cardiovascular Disease Study Group, Catholic Medical Center	Manchester, NH
10/25/2012*	Automated Surveillance of Readmission and Clinical Endpoints	Informatics Faculty Interest Dinner	Norwich, VT
1/17/2013*	Automated Surveillance of Readmission and Clinical Endpoints	Text Mining Interest Group	Lebanon, NH
2/8/2013*^	A Simple Tool for Discussing Treatment Options with Patients	Northern New England Cardiovascular Disease Study Group, Plenary	Bedford, NH
2/8/2013*^	Patient Safety and Contrast-induced acute kidney injury	Northern New England Cardiovascular Disease Study Group, Cardiology Workgroup	Bedford, NH
2/8/2013*^	Biomarkers and Readmission after Cardiac Surgery	Northern New England Cardiovascular Disease Study Group, Cardiac Surgery Workgroup	Bedford, NH
2/26/2013*	Patient Safety and Contrast-induced acute kidney injury	TDI, ECS 126	Lebanon, NH
5/20/2013*	Health System Characteristics and Rates of Readmission after Acute Myocardial Infarction in the United States	National Institute on Aging Dartmouth Meeting	Waterville Valley, NH
7/25/2013*	A Regional Quality Improvement Effort to Prevent Contrast-Induced Acute Kidney Injury	Center for Leadership and Improvement	Lebanon, NH
8/9/2013*^	A Regional Quality Improvement Effort to Prevent Contrast-Induced Acute Kidney Injury	Leadership and Preventive Medicine Residency	Lebanon, NH

11/18/2013*	A Regional Quality Improvement Effort to Prevent Contrast-Induced Acute Kidney Injury	IHI Fellows	Lebanon, NH
2/7/2014*^	Decision Making for Patients with Multi-Vascular Disease	Northern New England Cardiovascular Disease Study Group, Plenary	Bedford, NH
10/10/2014*^	Pay-for-Performance Value Analysis: US health care delivery practices and structure	The Dartmouth Institute for Health Policy and Clinical Practice	Lebanon, NH
2/3/2015*^	Automated Surveillance of Readmission	Predictive Analytics Workgroup, DHMC	Lebanon, NH
3/20/2015*^	Quality Improvement and Health Policy Research	Policy Fellows, The Dartmouth Institute for Health Policy and Clinical Practice	Lebanon, NH
9/17/2015*^	Statistical Methods in Cardiology Research: Non-inferiority clinical trials, propensity matching, and boot-strapping	Cardiology Grand Rounds, DHMC	Lebanon, NH
10/8/2015*^	Invited Guest Faculty Lecture to New Dartmouth/DHMC Faculty	Office of Sponsored Projects, DHMC	Lebanon, NH
7/15/2018*^	Utility of Preoperative Biomarkers to Improve Prediction of 30-day Readmission or Mortality after Pediatric Congenital Heart Surgery	Department of Pediatrics, DHMC	Lebanon, NH
8/3/2018*^	Cardiovascular Epidemiology at Dartmouth	Department of Epidemiology, Geisel School of Medicine	Lebanon, NH

XXIII. BIBLIOGRAPHY

A. PEER REVIEWED PUBLICATIONS

MOST SIGNIFICANT

1. **Brown JR**, DeVries JT, Robb JF, Hearne MJ, Ver Lee PM, Kellett MA, Watkins MW, Ryan TJ, Silver MT, Piper WD, Ross CS, MacKenzie TA, O'Connor GT, Malenka DJ. Serious Renal Dysfunction After Percutaneous Intervention Can Be Predicted. *Circulation*. 2006;114(18):3914. PMID: 18215595.
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8. **Brown JR**, Katz R, Ix JH, de Boer IH, Siscovick DS, Grams ME, Shlipak M, Sarnak MJ. Fibroblast Growth Factor-23 and the Long-Term risk of Hospital Associated AKI among Community-Dwelling Older Individuals. *Clin J Am Soc Neph*. 2013; 9(2): 239-246. PMCID: PMC3913242.
9. **Brown JR**, Sox HC, Goodman DC. Financial incentives to improve quality: Skating to the puck or just avoiding the penalty box? *JAMA*. 2014; 311(10):1009-1010. PMID: 24618957.

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13. **Brown JR**, Hisey WM, Marshall EJ, Likosky DS, Nichols EL, Everett ED, Pasquali SK, Jacobs ML, Jacobs JP, Parikh CR. Acute Kidney Injury Severity and Long-term Readmission and Mortality Following Cardiac Surgery. *Annals of Thoracic Surgery.* 2016; 102(5):1482-1489. PMID: PMC5077656.
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5. DeSelm CJ, **Brown JR**, Lu R, Langford GM. Rab-GDI Inhibits Myosin V-Dependent Vesicle Transport in Squid Giant Axon. *Biol Bull.* 2003; 205:190-191. PMID: 14583523.
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XXV. PERSONAL STATEMENT

I am an interdisciplinary research currently PI on three concurrent R01 projects from the NIH (NHLBI and NIDDK) focused on predictive analytics, biomedical informatics, and implementation science. I have engaged in national and international study sections, guideline taskforces, and developed a comprehensive network of interdisciplinary scientists.

I am committed to developing and advancing the academic and scientific programs at Geisel School of Medicine, to the training of undergraduate, masters, medical, and PhD students, and the advancement of our cutting-edge translational research. In my courses and committees at Geisel, I have sought to continuously improve the curriculum to better engage students in the learning process and most importantly to position them for a successful career. I led transformational improvements in the CECS/TDI Masters Thesis and MPH Capstone programs over nine years. I then transferred this expertise to create the QBS Epidemiology Capstone for the new QBS masters program. In my role as an epidemiologist in the Section of Cardiology at DHMC, I developed a clinical epidemiology curriculum to train and equip cardiology fellows and faculty to better conduct the research to fulfill their fellowship requirements. As a developer and co-director of the SYNERGY certificate program, we trained dozens of early stage investigators at Geisel and DHMC in translational science, research methods, grantsmanship, and early career development. I am committed to continuously improving and building these academic and research programs to prepare students from the undergraduate level to junior faculty.

My research has focused primarily in cardiovascular epidemiology, predictive analytics, and implementation science. Through this focus, I identified a concerning patient safety area that had been unaddressed called acute kidney injury (AKI). In my early doctoral career, I was on the cutting-edge in identifying and advocating for determining kidney complications after cardiac surgery and cardiac catheterization. This research led my involvement with an international taskforce, the Acute Kidney Injury Network, charged with bringing international consensus around defining AKI and how to prevent the injury in practice. I recognized the need to conduct quality improvement interventions at various centers in Northern New England, which led to the AHRQ awarding me a 5-year K-01 to work towards AKI prevention and characterize chronic kidney disease progression. In the 21,000-patient AKI quality improvement study, we were able to prevent 21-28% of AKI events and reduced the incidence of end-stage renal disease. This regional intervention led to the funding of a new R01, which I was recently awarded from NIDDK to conduct 2x2 factorial clustered randomized trial of our AKI quality improvement bundle and deploy an automated surveillance reporting toolkit on a national scale in 20 VA catheterization laboratories. All 20 sites have been recruited and the randomized trial interventions will begin in the summer of 2019.

Other seminal collaborations began through my AKI national initiatives. I began collaborating with Chirag Parikh at Yale and PI of the TRIBE consortium, which led the effort to evaluate novel biomarkers in adult and pediatric cardiac surgery. I recognized the value of the 3,000-patient biorepository TRIBE had built and in combination with a 1,800 biorepository I had created among 8 cardiac surgery centers in Northern New England, and the substantial influence

it could have in translational science. I sought the scientific opportunity to use these biorepositories to answer other clinically meaningful questions by proposing to investigate and develop better models using clinical variables and novel biomarkers to predict 30-day and 1-year readmission or mortality following adult and pediatric heart surgery in the United States and Canada. This was awarded NHLBI R01 funding in 2014. Our most recent publications have been focused on the clinical utility of novel biomarker panels to improve readmission prediction after adult cardiac surgery and pediatric congenital heart surgery nationally in the *Annals of Thoracic Surgery*.

I am excited about extending this early work to focus on improving prediction of infections after adult cardiac surgery and pediatric (neonate and infant) congenital heart surgery including pioneering a biorepository for a national pediatric congenital heart surgery trial (R01 renewal submitted). Building on my collaborative work with national adult and pediatric heart surgeons, we propose to measure biomarkers in banked perioperative blood from 500 infants at 25 sites enrolled in the Steroids to Reduce Systemic Inflammation After Infant Heart Surgery (STRESS) trial, with external validation from 176 children in the Corticosteroid Therapy in Neonates Undergoing Cardiopulmonary Bypass (MP) trial. I also have established collaborations with national pediatric consortia from 50 Pediatric Cardiac Critical Care Consortium (PC⁴) sites and 36 Pediatric Acute Care Cardiology Collaborative (PAC³) sites to leverage large-scale registry data to identify children at high risk of infection or readmission due to infection within 30 days of congenital heart surgery.

I am at the cutting edge of biomedical informatics through both the development of externally validated machine learning and natural language processing toolkits and the implementation of these toolkits into clinical practice, including two funded R01s from NHLBI and NIDDK. Early developments in informatics in my career started with collaborating on a VA HSR&D IIR grant to develop an automated surveillance toolkit for AKI. I received the Neukom CompX prize to start the natural language processing work for predicting readmissions at Geisel and DHMC. I was the first investigator to begin to use discharge summaries for natural language processing at Dartmouth. Our predictive analytics team received NHLBI R01 funding to move our research forward with external validation at other Epic EMR hospitals (University of Utah) in collaboration with Wendy Chapman and Michael Matheny (Vanderbilt University and VA). Through this R01 mechanism we have developed an OMOP common data model on over 400 structured data elements from DHMC, retrieved over 130,000 clinical notes and deployed a natural language processing (NLP) toolkit on the full corpus of notes to extract novel social risk factor and functional status measures from the notes. Both the structured data elements and NLP derived unstructured data elements from notes are being used to improve prediction of 30-day readmission after acute myocardial infarction hospitalizations. The strength of the approach with these three institutions has allowed for developing these methods and tools in a parallel cross-validation design with external validation. The R01 is developing a real-time surveillance risk models for readmission for DHMC, Vanderbilt, Utah, and provide these toolkits to be portable to other EMRs. Recently, our team is working closely with DHMC and Health Catalyst to implement and evaluate the DOS Text Mart platform to automate clinic note extraction from Epic to populate informatics pipelines to support real-time predictive analytics. Our collaboration is now working on both an R01 renewal to evaluate the implementation of our

machine learning toolkits as well as transitioning our collaborative to a P01 mechanism in 2020 to focus on novel NLP and machine learning methods and implementation.

I have enjoyed engaging in academic and clinical service opportunities from the local, regional, national, and international levels and developing a comprehensive network of collaborators through national and international study sections, national guideline taskforces, international consortia, and multi-institutional extramurally funded research projects.

Through a developing focus on modeling and evaluating readmissions in the United States, I had the privilege to participate on the Methodology Workgroup on the Care Transitions Measures Re-evaluation Project Team lead by Dr. Leora Horwitz at Yale's Center for Outcomes Research and Evaluation (CORE) and the National Quality Forum (NQF) to advise on the development of a new CMS Readmission measures. The taskforce is now named the Excess Days in Acute Care after Hospitalization for Heart Failure, Pneumonia, and Acute Myocardial Infarction measures. The new measures completed a dry run in Heart failure (completed 10/7/2015).

Nationally, besides currently holding three concurrent R01s from the NIH, I have had the privilege to be invited and serve on three NIH study sections (Biomedical Computing and Health Informatics Study Section, BCHI, Dissemination and Implementation Research in Health, DIRH, and the National Institute of General Medical Sciences Special Emphasis Panel). I recently functioned as a study section reviewer for the American Heart Association Precision Cardiovascular Medicine for Artificial Intelligence and Machine Learning research and training grants. I have also given numerous invited presentations at national meetings and universities across the country. I have been invited and functioned as a taskforce member for two Society of Thoracic Surgeon's guidelines, the most recent of which I am the lead author on a cardiac surgery renal prevention guideline due to be completed this year.

Internationally, I have had the privilege to be invited and serve on the Health Research Council of New Zealand HRC 19/401 study section. I recently accepted an external reviewer role for a dissertation in Australia focused on microRNA's and AKI in cardiopulmonary bypass. I have also been invited and given 4 international oral presentations with more international meeting speaker opportunities upcoming. I have also been invited and served on two international consortiums: the Acute Kidney Injury Network and the International Consortium of Evidence Based Perfusion.

In summary, I am an interdisciplinary researcher at the cutting edge of integrating epidemiological approaches with biomedical informatics and implementation science. I am committed to continuously improving and building academic and research programs in predictive analytics and implementation science to equip the future generation of biomedical scientists.

Updated by: Jeremiah Brown
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