

**CURRICULUM VITAE
OF
MOHAMMAD HOSSEIN RAHBAR, PhD**

**Professor of Epidemiology, Biostatistics, and Clinical & Translational
Sciences**

**The University of Texas School of Public Health at Houston
and**

**Director, Division of Clinical and Translational Sciences
Department of Internal Medicine, Medical School
and**

**Director, Biostatistics/Epidemiology/Research Design (BERD) Core
Center for Clinical and Translational Sciences
The University of Texas Health Science Center at Houston**

PERSONAL

Name: Mohammad Hossein Rahbar

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UNIVERSITY EDUCATION

1984 - 1988 PhD in Statistics, Michigan State University (MSU), MI, USA

1978 - 1980 MS in Statistics, Shiraz University, Shiraz, Iran

1974 - 1978 BS in Statistics, Shiraz University, Shiraz, Iran

Shiraz University had an affiliation with University of Pennsylvania-Philadelphia, in the 70's.

PROFESSIONAL BACKGROUND

- 12/1/12-Present Professor & Director, Division of Clinical and Translational Sciences
Department of Internal Medicine, Medical School
The University of Texas Health Science Center at Houston
- 2/1/08-Present Professor of Epidemiology & Biostatistics (with tenure)
The University of Texas School of Public Health at Houston
Director, Biostatistics/Epidemiology/Research Design Core
Center for Clinical and Translational Sciences
The University of Texas Health Science Center at Houston
- 4/1/05-1/31/08: Professor of Epidemiology (Biostatistics) with tenure, and Adjunct
Professor, Statistics & Probability, and Director, MSU Clinical
Epidemiology Research & Training Center (CERTC), Canadian – USA
Clinical Epidemiology Network (CanUSACLEN)
- 9/2001- 3/2005: Director, Data Coordinating Center
Professor of Epidemiology (Biostatistics), College of Human Medicine,
and Adjunct Professor, Statistics & Probability, MSU
- 2/1999 -9/2001: Professor & Head, Division of Epidemiology and Biostatistics,
Department of Community Health Sciences (CHS), Aga Khan University
(AKU)
- 1996 - 2001: Director, MSc. Epidemiology & Biostatistics Program, CHS, AKU
- 1997 - 2001: Professor of Biostatistics, CHS, AKU
- 1995 - 1996: Associate Professor of Biostatistics, CHS, AKU
- 1992 - 1994: Associate Professor of Statistics, Department of Mathematics,
University of Wisconsin-La Crosse (UW-L). Note: (Promoted to
Professor of Statistics, Math Department, UW-L, July 1995)
- 1988 - 1991: Assistant Professor of Statistics, Math Department, UW-L
- 1988 - 1994: Gundersen Medical Foundation, Biostatistical Consultant
- 1984 - 1988: Teaching Assistant in Statistics, Statistics & Probability, MSU,
Michigan, USA
- 1983 - 1984: Statistics Instructor, Math Department, Isfahan University of
Technology, Isfahan, Iran
- 1981 - 1983 Mandatory Military Services, Iran
- 1978 - 1980 Teaching Assistant, Math Department, Shiraz University, Iran

PROFESSIONAL SOCIETIES AFFILIATIONS

- Editor-in-Chief, American Journal of Autism (AJA), January 2012-January 2017
- Statistical Editor: Journal of Pediatric Infectious Diseases
- Member, Hispanic Health Research Center Community Advisory Board
- Reviewer, Special Emphasis Panel, Office of Extramural Research, CDC National Center for Chronic Disease Prevention and Health Promotion, Study Section for Pregnancy Risk Assessment Monitoring System (PRAMS)
- Member, American Statistical Associations
- Member, International Clinical Epidemiology Network (INCLLEN)
- Executive Committee Member, Canadian – USA Clinical Epidemiology Network (CanUSACLEN)
- Member, Maternal and Perinatal Health Research and Reproductive Epidemiology Advisory Group (MAPREG), World Health Organization (WHO), Geneva
- NIH-NCRR Clinical and Translational Sciences Awards, Biostatistics Epidemiology, Research Design (BERD) Key Functions Committee, member 2008-2013; Evaluations Task Force, member 2008-2013; Online Resources Task Force; member 2010-2013
- Served as a Reviewer for 2003 Non-Formula Grants, Pennsylvania Final Performance Review 2009
- Served as a Reviewer for 2008 Non-Formula Grants, Pennsylvania Interim Performance Review 2009
- Member, Houston Area Chapter American Statistical Association (HACASA)
- Served as a Reviewer for Agency for Healthcare Quality Research (AHRQ) Developing Evidence to Inform Decisions about Effectiveness Research Network-2 (DEcIDE-2) Review 2010
- Member, External Advisory Committee for an NIMH funded project, “Study of Health Outcomes in Children with Autism and Their Families”.
- Member of Environmental Epidemiology of Autism Research Network at Autism Speaks
- Served as a Reviewer for Qatar Foundation since 2010
- Serve as a member of External Advisory Board on a NIH R25 training grant awarded to MD Anderson Cancer Center
- Served as a grant reviewer for CDC, NHLBI, NICHD, NIEHS, NIDDK, and DoD
- Reviewer for Selected Topics in Transfusion Medicine, NHLBI (since 2012)
- Reviewer for R13 conference grant applications, NIEHS (2015 and 2017)
- Reviewer for Neurological, Aging and Musculoskeletal Epidemiology (NAME) Study Section (2016)

TEACHING EXPERIENCE

My philosophy in teaching is Problem Based Learning (PBL). I truly enjoy teaching and have tried various innovative teaching and learning methods through assignment of projects on real life problems as well as use of statistical packages. I have experience in teaching both at undergraduate and graduate levels. Since 1978, I have had an opportunity to teach the following courses in five universities with diverse student background.

1. **Advanced Design and Analysis Methods in Epidemiology**
2. **Data Mining**
3. **Survival Analysis**
4. **Nonparametric Methods**
5. **Logistic Regression**
6. **Biostatistical Consulting**
7. **Fundamentals of Biostatistics**
8. **Principles of Epidemiology**
9. **Advanced Epidemiology**
10. **General Linear Models**
11. **Design of Experiments**
12. **Decision Theory**
13. **Cost Effectiveness & Cost Analysis**
14. **Sampling Techniques**
15. **Protocol Writing**
16. **Journal Club & Critical Appraisal**
17. **Quantitative Research Methods**
18. **Mathematical Statistics I & II**
19. **Operations Research**
20. **Calculus I, II, III**
21. **Algebra; Trigonometry; Pre-Calculus**

COMPUTER SKILLS & STATISTICAL PACKAGES

I have taught the following statistical packages in my classes.

- SAS
- SPSS
- Minitab
- Epi-Info

ADDITIONAL INFORMATION

a) Experience during employment at The University of Texas Health Science Center at Houston

- Director, Division of Clinical and Translational Sciences (DCTS), Medical School, The University of Texas Health Science Center at Houston, Dec. 1, 2012 – Present
- Director, Biostatistics/Epidemiology/Research Design Core, Center for Clinical and

Translational Sciences (CCTS), The University of Texas Health Science Center at Houston, Feb. 1, 2008 – Present

- Professor of Epidemiology & Biostatistics, The University of Texas School of Public Health at Houston, The University of Texas Health Science Center at Houston, Feb. 1, 08 – Present
- Member of the Search Committee for Director of Biostatistics Division, The University of Texas School of Public Health at Houston, The University of Texas Health Science Center at Houston, 2008 – 2009
- Member of Planning Committee for the UTSPH concentration in Global Health
- Member of Planning Committee for the UTSPH concentration in Clinical and Translational Sciences
- Member, UTHSC-H CCTS Institutional Data and Safety Monitoring Board, 2008-Present
- Member, UTHSC-H CCTS/CRU Scientific Partners Advancing Research Kick-off (SPARK)
- Served as a member of the advisory group to Community Participation Core of the CCTS
- Served as a statistical consultant to several investigators on campus

b) Experience during employment at Michigan State University

- Director, Data Coordinating Center, October 2001- March 31, 2005
- Director, MSU Clinical Epidemiology Research & Training Center (CERTC), Canadian – USA Clinical Epidemiology Network (CanUSACLEN), since 2002
- Chair, Data Coordinating Center’s Advisory Committee, 2001-2005
- Chair, Data Coordinating Center’s Operations Committee, 2001-2005
- Chair, Search Committee for Biostatistics position, DCC, 2004-2005
- Member, Great Lakes Cancer Institute Scientific Research Group, 2004-2006
- Advisory Board Member, MSU Statistical Consulting & Training Center, since 2004
- Member, Search Committee for Biostatistics position, Epidemiology, 2003, 2005
- Member of Tenure and Promotion Committee, 2002 - 2007
- Member, Epidemiology Admission Committee, 2002-2003
- Chair, Graduate Admission Committee (PhD & Masters), Epidemiology, July 2003 – June 2004
- Chair, PhD thesis Committee, for Dr Azfar Siddiqi, Epidemiology (Successfully Completed in Dec. 2006). Currently he works at the CDC, Atlanta.
- Chair, PhD thesis Committee, for Mr. Sangchoon Jeon, Epidemiology at MSU.

Currently he is employed by Yale School of Nursing as Associate Research Scientist

- Chair, PhD thesis Committee, for Dr. Ali Artaman, Epidemiology, currently he is a consultant to several health organizations in Canada
- Member of PhD Guidance Committee, for Dr M. Mokhtar Arshad, Large Animal Clinical Sciences (Successfully Completed in August 2006)
- Member, Executive Committee of CanUSACLEN, since 2003

c) Experience during employment at the Aga Khan University (AKU)

- Head, Division of Epidemiology and Biostatistics, Feb. 1999 – September 2001
- Founding Director, MSc. Program in Epidemiology & Biostatistics, 1996 - 2001
- Developed and implemented MSc. Program in Epidemiology & Biostatistics at AKU
- As thesis supervisor I supervised 11 graduate students in the MSc. Epidemiology
- Served as thesis committee member of 12 other students in MSc. Epidemiology
- Established a Biostatistical Consulting Center in CHS, AKU
- Established research collaboration with faculty members in the clinical and basic sciences departments at AKU, (See Publications).
- Developed and taught Biostatistics courses to medical students at AKU
- Developed and taught short courses in Biostatistics for residents and interns at AKU
- Developed and taught Epi/Bio short courses in the Regional Training Program at AKU
- Developed and taught courses in the MSc. Epidemiology & Biostatistics at AKU
- Developed Biostatistics courses for the Preparatory Year Program at AKU
- Developed Academic Criteria for selection of Preparatory Year Program students
- Developed Biostatistics course for the BScN program at AKU School of Nursing
- Served as an academic advisor to some undergraduate students at AKU

d) Experience during employment at University of Wisconsin-La Crosse (UWL)

- Developed and taught Statistics courses in the Math Department
- Developed and taught an advanced level Biostatistics course for the students and faculty members in the Physical Therapy program
- Developed and taught an advanced level course in statistics for graduate programs
- Established research collaboration with faculty members in various departments
- Served as statistician on PhD dissertation of Pat Wilder in the Physical Therapy program at UW-Madison

- Served as statistician on PhD dissertation of Margie Sinner in the Psychology program at UW-Madison
- Served as statistician on thesis committees of several students in various Master programs at UW-L
- Served as the advisor of several students at UW-L
- Served as the academic advisor of the international students at UW-L, 1991-1992

COMMITTEE MEMBERSHIP & ADMINISTRATIVE EXPERIENCE

- Chair, MSc. Epidemiology & Biostatistics Committee, 1996 - 2001
- Chair, Operations Subcommittee, Board of Graduate Studies, AKU, 2000 - 2001
- Coordinator of Research Publications in CHS, AKU, 1998 - 2001
- Member, Board of Graduate Studies at AKU, 1997 - 2001
- Member, Graduate Admission Committee at AKU, 1997 - 2001
- Member, Research Council at AKU, 1998 - 2001
- Member, Information and Technology Advisory Committee at AKU, 1998 - 2001
- Member, PhD Committee in Health Sciences at AKU, 1997 - 2001
- Contributed to the development of course work for various graduate programs at AKU
- Alternate member, Academic Council at AKU, since, 1997 - 2001
- Member, Examination and Promotion Committee at AKU, 1996 - 1998
- Member of an ad-hoc committee reviewing the Appointment and Promotion criteria at AKU, 1997- 1998
- Member, Faculty of Health Sciences Research Committee, AKU, 1997 - 2001
- Member, Admission Advisory Group, AKU, 1996 - 2001
- Member, Preparatory Year Program Committee, AKU, 1995 - 2001
- Served on the Planning and Program Review Committee, UW-L, 1990 - 1992
- Served on the Statistics Committee, Mathematics Department, UW-L, 1988 - 1994
- Served on the Merit Committee, Math Department, UW-L, 1989, 1994
- Served on the Physical Therapy Research Committee, UW-L, 1990 - 1994
- Served on the Environmental Science Committee, UW-L, 1994
- Served on the Library Committee, UW-L, 1994

List of graduated MSc Students, Thesis Topics, and my role

Name	Thesis Topic	My Role
Dr. Shaheena Akbani	Factors leading to irrational drug prescribing in general practitioners of Karachi	Thesis Supervisor
Dr. Abdul Wahid Bhurt	Prevalence of gynecological morbidities in Rural Jamshoro, Sindh	Thesis Committee Member
Dr. Farid-ul-Hasnain	Prevalence and risk factors for stunting, wasting and underweight among children under 5	Thesis Supervisor
Dr. Sarah Jamil	Determinants of unsafe abortion in three squatter settlements of Karachi	Thesis Committee Member
Dr. Arshad Quddus	Neonatal tetanus incidence of mortality and risk factors, district Loralai, Balochistan	Thesis Committee Member
Dr. Abdul Bari	A case-control study of risk factors associated with serological evidence of hepatitis c virus infection in Islamabad-Rawalpindi	Thesis Committee Member
Dr. Bilal Iqbal	Factors associated with the cognitive competence of children ages 4 to 5 in Karachi, Pakistan	Thesis Supervisor
Dr. Ashrafunnisa A. Karim	Factors associated with unawareness of elevated blood pressure among Ismaili-Muslims in Karachi, Pakistan	Thesis Supervisor
Dr. Azfar-e-Alam Siddiqi	Risk of development of clinical tuberculosis among infected individuals identified by a single blood PCR test	Thesis Supervisor
Dr. Siroos Hozhabari	Prevalence and predictors of Malaria among febrile children attending the rural health center Jhangara in Sindh	Thesis Supervisor
Dr. Faran Emmanuel	A matched case control study of factors associated with heroin addiction among male adults in Lahore, Pakistan	Thesis Committee Member
Dr. A. Latif Tareen	Anthropometric assessment of nutritional status in children under 5 years of age in district Quetta, Balochistan	Thesis Supervisor
Dr. Haroon R. Afridi	Prevalence and factors associated with elevated blood pressure among age 15 and above in Federally Administered Tribal Areas of Pakistan	Thesis Supervisor
Dr. Suresh Kumar Rathi	Factors for transmission of mycobacterium tuberculosis infection among household contacts of smear-positive pulmonary tuberculosis cases in Umerkot, Sindh	Thesis Committee Member
Dr. Fazal Ather	Risk factors of nosocomial infections in patients with diabetes admitted to medical, surgical and intensive care units of a tertiary care hospital of Karachi, Pakistan	Thesis Committee Member
Dr. S. Arif Hussain	Utilization of government health services and factors associated with choice of health care provider by mothers and children in Peshawar	Thesis Supervisor
Dr. G. H. Akhund	To assess the extent of, and factors influencing individuals' choice for, utilization of health facilities in a rural community of District Dadu, Sindh, Pakistan	Thesis Supervisor
Ms. Naila Baig Ansari	Care and feeding practices and their association with stunting among young children residing in Karachi's squatter settlements	Thesis Supervisor
Dr. Hussain Raza Usman	A case-control study of risk factors for acute hepatitis B virus infection in Karachi, Pakistan	Thesis Committee Member
Dr. Ahsan Raza	Risk factors for neonatal tetanus in Karachi: a matched case control study	Thesis Committee Member
Ms. Tazeen Saeed Ali	Prevalence and factors associated with postpartum morbidities among Muslim married mothers during postpartum period in squatter settlements of Karachi, Pakistan	Thesis Supervisor
Dr. Ali Artaman	Exposure to oxygen and phototherapy during the perinatal period and their potential effects on acute lymphocytic leukemia	Thesis Supervisor
Dr. Sangchoon Jeon	Analysis of factors associated with time to resolution of pain and fatigue among cancer patients with multiple symptoms in a cognitive behavioral intervention group	Thesis Supervisor
Fei Xue	Fish Consumption and Maternal Hair Mercury levels in Relation to the Risk of Preterm Delivery	Thesis Committee Member
Dr. Muhammad Younus	Salmonella Enteritidis infection in Michigan (1995-2001): Incidence and risk factor analysis	Thesis Committee Member
Jianling Wang	Factor analysis as an approach to summarizing placental vascular pathology findings and their relation to preterm delivery	Thesis Committee Member
Veronika Skorokhod	Vaginal bleeding during the first 20 Weeks of pregnancy and risk of preterm delivery	Thesis Committee Member

List of graduated PhD Students at MSU, Dissertation Topics, and my role

Name	Dissertation Topic	My Role
Dr. Sangchoon Jeon	Evaluation of time to response in system management interventions for pain and fatigue experienced by cancer patients	Primarily as PhD Supervisor but my Role changed to Dissertation Committee Member when I left MSU to join UTHSC-Houston
Dr. Azfar Siddiqi	Factors associated with patient attrition: findings from two clinical trials of cognitive behavioral interventions	PhD Dissertation Supervisor
Dr. Muhammad Younus	Risk factors for sporadic non-typhoidal Salmonella infections in Michigan children: a population-based case-control study	PhD Dissertation Committee Member
Dr. Hussain Raza Usman	Randomized Controlled Trial of Low Cost Interventions to Reduce Childhood Immunization Dropouts in Pakistan	PhD Dissertation Committee Member
Dr. Ali Artaman	Neonatal oxygen and phototherapy and risk of acute lymphocytic leukemia	Primarily as PhD Supervisor but my Role changed to Dissertation Committee Member when I left MSU to join UTHSC-Houston
Dr. Julia Gargano	Mid-pregnancy circulating cytokine levels, histologic chorioamnionitis and spontaneous preterm birth	PhD Dissertation Committee Member

List of Graduate Students at UTSPH

Name	School/Degree Sought/Major	My Role
Ana Sanchez Carrasco	School of Public Health, MSc. Epidemiology	Research Supervisor, 2009
Sartaj Alam	School of Public Health, MSc, Biostatistics	Thesis Committee Member, 2008
Amber Trickey	School of Public Health, PhD, Epidemiology	Faculty Advisor, 2008-2012 PhD Dissertation Supervisor, 2009-2012
Sultan Neslihan Karabulut	School of Public Health, MSc., Epidemiology	Faculty Advisor, 2008-2010 Thesis Committee Member 2008-2010
Zachary Franco	School of Public Health, MSc. Epidemiology	Faculty Advisor, 2010 – 2013 Thesis Committee Supervisor, 2012-2013
Catherine Jannise Elrod	School of Public Health, MSc., Health Policy Research	Thesis Committee Member, 2009-2010
Ayika Ijeoma Emenike	School of Public Health, MSc., Health Policy Research	Thesis Committee Member, 2008-2010
Ashley Lowery	School of Public Health, MPH., Health Policy Research	Thesis Committee Member, 2009-2010
Aisha Dickerson	School of Public Health, PhD Epidemiology	Faculty Advisor, 2010-2014 and PhD Dissertation Faculty Supervisor, 2012- 2014
Jun Ying	School of Public Health, MSc. Epidemiology/Biostatistics	Thesis Supervisor, 2010-2012
Michelle Lynn Marshall	School of Public Health, MPH, Community Health Practice	Thesis Committee Member, 2012-2013
Christine Elaine Mathews	School of Public Health, PhD Epidemiology	PhD Dissertation Committee Member 2008 – Spring 2013
Geoffrey Whitfield	School of Public Health, PhD Epidemiology	PhD Dissertation Committee Member 2008 – Spring 2013
Robert Jamison Reynolds	School of Public Health, PhD Epidemiology	Faculty Advisor, 2010-2012 PhD Dissertation Committee Member, 2012-2013
Farhaan Shaheer Vahidy	School of Public Health, PhD Epidemiology	Faculty Advisor, 2011-2014 PhD Dissertation Supervisor, 2012-2014
Shabnam Azadeh	School of Public Health, PhD Biostatistics	PhD Dissertation Committee Member 2013 - 2015
Hiba Zwiya	School of Public Health, MSc. Epidemiology	Faculty Advisor, 2013 - 2014
Hiba Abdulrahman rash Rashak	School of Public Health, MSc. Epidemiology	Faculty Advisor, 2013 – 2016 Thesis Committee Member

Kristina Vatcheva	School of Public Health, PhD Epidemiology	Faculty Advisor, 2010 – 2015 PhD Dissertation Committee Member
Zenab Yusuf	School of Public Health, MSc. Epidemiology	Thesis Committee Member, 2014 – 2015
Jaennie Yoon	School of Public Health, PhD Epidemiology	PhD Dissertation Committee Member, 2014-present (on personal leave)
MacKinsey Christian	School of Public Health, MSc. Epidemiology	Faculty Advisor and Chair of MSc. Thesis Committee, 2015-2017
MacKinsey Christian	School of Public Health, PhD Epidemiology	Faculty Advisor, 2017-Present
Efehi Igbinomwanhia	School of Public Health, MSc. Epidemiology	Faculty Advisor, 2014 – 2017
Bal K Nepal	School of Public Health, PhD Epidemiology	PhD Dissertation Supervisor and Chair, 2014-2017
Hiba Zwiya	School of Public Health, PhD Epidemiology	Faculty Advisor, 2017-Present
Sepideh Saroukhani	School of Public Health, MSc. Epidemiology	Faculty Advisor, 2016- Summer 2018
Gordon Watt	School of Public Health, PhD Epidemiology	PhD Dissertation Committee Member, 2014-Summer 2018
Sepideh Saroukhani	School of Public Health, PhD Epidemiology	Faculty Advisor, 2018-Present
Bassent Abdelbary	School of Public Health, PhD Epidemiology	PhD Dissertation Committee Member, 2012- Fall 2016
Julie A St. John	School of Public Health, DrPH Health Policy Research	PhD Dissertation Committee Member
Syed Shahzeb aqeel h Jafri	School of Public Health, MSc. Epidemiology	Faculty Advisor
Shezeen Gillani	School of Public Health, MSc. Epidemiology	Faculty Advisor, 2018
Jan Eberth	School of Public Health, PhD Epidemiology	PhD Dissertation Committee Member

New Course Development and Teaching activities at the UTSPH

I developed and taught the following course in Spring Semesters since 2009: Advanced Design and Analysis Methods in Epidemiology. This course is designed for advanced MS and PhD students at the UTSPH.

My Teaching Evaluations by Students

Since 1988, I have taught biostatistics and epidemiology courses and supervised at least 25 Epidemiology graduate students (MSc and PhD) in three different institutions. My student evaluations in all these three institutions classify me as an excellent to an outstanding teacher.

ACTIVE RESEARCH GRANTS

UL1TR003167 (Corresponding PI: McPherson) 07/24/2019-06/30/202

NIH/NCATS (20% effort)

Center for Clinical and Translational Sciences-CCTS

This is the renewal of our University of Texas CTSA award, which is designed to transform clinical research at academic institutions. The award funds the Center for Clinical and Translational Sciences (CCTS). The goal of the CCTS is to facilitate clinical and translational research at The University of Texas Health Science Center at Houston, The University of Texas M. D. Anderson Cancer Center, The University of Texas Health Science Center at Tyler, The University of Texas – Rio Grande Valley, Rice University, and the Memorial Hermann Hospital System, by providing resources and expert advice to investigators.

(Role: Co-Investigator and Director of Biostatistics/Epidemiology/Research Design (BERD))

R01ES022165-01 (PI: Rahbar) 09/12/2013 - 04/30/2020 (30% effort)
NIEHS \$ 2,846,888

Epidemiological Research on Autism Spectrum Disorders (ASD) in Jamaica: Phase 2

On this project, the UTHSC-H collaborates with a team of multidisciplinary researchers in the Faculty of Medical Sciences at The University of the West Indies (UWI), Mona Campus, in Kingston, Jamaica, to develop and evaluate the capacity for creating a database of genetic and phenotypic information in Jamaica among ASD cases and their family members. We are conducting population-based etiologic studies of autism in Jamaica, with a particular focus on genetic and environmental factors including six heavy metals (Lead, Mercury, Arsenic, Cadmium, Manganese, and Aluminum), PCBs and OC Pesticides as environmental contaminants and their potential interactions with the GST genes in relation to ASD.

Role: PI

19TPA34860013 (PI: Govindarajan) 07/01/2019-06/30/2022
AHA (3% effort)

A Novel Surgical Planning Strategy for Optimal Mitral Intervention

The major goal of this project is to extend the in-house developed finite element (FE) and fluid-structure interaction (FSI) algorithm to simulate mitral valve function and left ventricular flow dynamics across cardiac cycle, automating the workflow for image-FE/FSI evaluation, and create patient-specific mitral valve models to perform virtual surgeries.

(Role: Co-Investigator/Statistician)

10001646 (PI: McCormick) 08/01/2013 - 7/31/2020 (NCE) (10% effort)
UTHSCSA / CCMS \$1,707,714

Implement Medical Homes in HPSA and Other Rural and Impoverished Areas

The investigators of this project are supported by experienced biostatisticians and data management analysts from the BERD component of the Center for Clinical and Translational Sciences (CCTS) at the University of Texas Health Science Center at Houston. CCTS-BERD provides study design, data management, and statistical support.

Role: Co-Investigator and PI of Data Management and Statistics Core

1451HTX001/10003425 (PI: Reininger) 08/01/2015 - 07/31/2020 (NEC) (5% effort)
 Methodist Healthcare Ministries of South Texas, Inc./Valley Baptist Legacy Foundation
**Salud y Vida 2.0: Enhancing Integrated Behavioral Health for Individuals with Diabetes
 in the Rio Grande Valley** \$3,444,576

The goal of this project is to expand integrated behavioral health for individual at-risk for and living with diabetes in the Rio Grande Valley.

Role: Co-Investigator/Statistician

1R01NS094543-01A1 (PI: McCullough) 06/01/2016 – 03/31/2021 (2% effort)
 NINDS \$2,165,539

Reversing Age Related Inflammation

Systemic elevation in chronic, low grade inflammation is seen across almost all peripheral organ systems with aging. This systemic “inflammaging” has a major impact on brain function and leaves the brain vulnerable to injury. The main goal of this proposal is to investigate and manipulate the mechanisms by which chronic inflammation impacts the response to ischemic stroke, the leading cause of long-term disability in the elderly.

Role: Co-Investigator/Statistician

1R01HL135092-01 (PI: McPherson) 04/15/2017 - 03/31/2022 (5% effort)
 NIH/NHLBI \$2,770,726 / \$791,949

Echogenic Target Liposomes: Transfection/Drug Delivery

The major goal of this project is to develop a carrier (echogenic immunoliposomes) with novel ultrasound delivery methodologies that have the ability to incorporate therapeutics and enhance delivery to stabilize atherosclerotic beds at the time of intervention.

Role: Co-Investigator/Statistician

Texas Higher Education Coordinating Board (THECB Award Number: 19436) (PI: Rhoads)
 07/01/2017 - 6/30/2019 \$ 205,225. (Each year) (2% effort)

Road to discovery for Bifidobacterium lactis BB-12 + Lactobacillus rhamnosus GG (BB-12+LGG) in treating autism spectrum disorders: Parent-Directed Treatment

The major goal of this project is to gain insight into the effect size of probiotic treatment on autistic behaviors, gastrointestinal symptoms, gut inflammation and the fecal microbial community in children with ASD.

Role: Co-Investigator/Statistician

Investigator Initiated Research Project (PI: Reveille) 01/01/2019 – 12/31/2019
 Spondylitis Association of America

Outcome Studies in Ankylosing Spondylitis (2% effort)

The goal of this study is to provide data management and biostatistical support for the PSOAS longitudinal cohort study.

Role: Co-Investigator/Director of Data Management and Statistical Core (DMSC)

W81XWH-18-C0163 (PI: Fox)
MMRD/University of Pittsburgh

09/24/2018 – 09/23/2019
(2% effort)

Decision Support for damage Control Resuscitation: Hemorrhage Helper

The major goal of this project is to determine whether the Hemorrhage Helper integrated decision support system for damage control resuscitation will enable more rapid identification of patients who need massive transfusion (MT) and will improve the adherence to specific principles of Damage Control Resuscitation (DCR) during the initial course of management.

Role: Co-Investigator/Statistician

T32ES027801 (PI: Walker)
NIH/NIEHS

09/01/2018 - 08/31/2023 Mentor

Training in Precision Environmental Health Sciences (TPEHS)

This is a call for predoctoral and postdoctoral applications for the Training in Precision Environmental Health Sciences (TPEHS) program. The goal of this new program is to train young scientists working at the interface of genetics/epigenetics, environmental health and data science (GxExD). Supported by the National Institute of Environmental Health Sciences, the program offers interdisciplinary training to prepare the next generation of researchers to make important research advances and improve our understanding of environment influences on health and disease. Role: Mentor.

GRANTS and CONTRACTS 2017-2018 (Pending, submitted, or not funded).

Prenatal and postnatal exposure to heavy metals, and neurodevelopment and behavior in Jamaican children

(PI: Dr. Rahbar)

Start/End Date 01/01/2018 - 12/30/2023

Funding Agency/Role/Status FIC/NIEHS/PI/ Not funded

Direct Costs/ Indirect Costs \$ 2,499,995 / \$ 499,999

Mitral Value Dynamic Analysis and Potential Clinical Applications (R01) (McPherson)

Start/End Date 04/01/2018 – 03/31/2023

Funding Agency/Role/Status NIH/NHLBI/Co-I/Renewal Submitted

Direct Costs/ Indirect Costs \$1,249,388/\$688,169

Identification of active lesions without Gd administration using texture analysis

(PI: Dr. Narayana)

Start/End Date 04/01/2018 - 03/31/2023

Funding Agency/Role/Status National Multiple Sclerosis Society (NMSS)/Co-I/ Submitted

Direct Costs/ Indirect Costs \$885,350 / \$88,535

Diffusely abnormal white matter and its correlation with disease progression in Multiple Sclerosis (PI: Dr. Narayana)

Start/End Date 04/1/2018 – 03/31/2021

Funding Agency/Role/Status National Multiple Sclerosis Society (DOD)/Co-I/ Submitted

October 30, 2019

Direct Costs/ Indirect Costs \$596,097 / \$318,094

Predicting contrast enhancement in Multiple Sclerosis with real time texture analysis (PI: Dr. Narayana)

Start/End Date 03/01/2018 – 02/28/2023

Funding Agency/Role/Status NIH/Co-I/ Submitted

Direct Costs/ Indirect Costs \$1,718,917 / \$924,418

Modeling the Risk of Hepatocellular Carcinoma in Hispanics

(PI: Fisher-Hoch)

Start/End Date 01/01/2018 - 12/30/2023

Funding Agency/Role/Status NCI/ Co-I / Not funded/Resubmitted

Direct Costs/ Indirect Costs \$8,277,403 / \$3,037,985

Pathogenic Mechanisms in AS Outcome: Core B - Data Management and Statistical Core (DMSC) (P50)

(PI: Reveille)

Start/End Date 07/01/2017 - 06/30/2022

Funding Agency/Role/Status NIH/ Co-I / Not funded

Direct Costs/ Indirect Costs \$879,060 / \$474,690

Resource-Based Center on the Longitudinal Studies of Ankylosing Spondylitis and Scleroderma (P30)

(PI: Reveille)

Start/End Date 01/01/2018 - 12/30/2020

Funding Agency/Role/Status NIH/ Co-I / Not funded

Direct Costs/ Indirect Costs \$2,765,000 / \$1,093,500

Translational studies of MICA variants risk to ankylosing spondylitis (R01)

(PI: Xiaodong Zhou)

Start/End Date 07/01/2017 - 06/30/2022

Funding Agency/Role/Status NIH/ Co-I / Not funded

Direct Costs/ Indirect Costs \$1,250,000 / \$670,680

Road to discovery for Bifidobacterium lactis BB-12 + Lactobacillus rhamnosus GG (BB-12+LGG) in treating autism spectrum disorders (R01)

(PI: Dr. Rhoads)

Start/End Date 05/01/2018 - 4/30/2023

Funding Agency/Role/Status EUNICE KENNEDY SHRIVER NATIONAL INSTITUTE OF CHILD HEALTH H/ Co-I / Not funded

Direct Costs/ Indirect Costs \$1,739,629/\$934,758

The Effects of Cell Therapy on Myocardial Recovery in Heart Failure Patients Undergoing Long-Term Mechanical Circulatory Support (R16/R33)

(PI: Dr. Gregoric)

Start/End Date 1/1/2019 – 12/31/2023
 Funding Agency/Role/Status NIH/ Co-I / Submitted
 Direct Costs/ Indirect Costs \$2,621,575 / \$825,989

Modeling the Risk of Hepatocellular Carcinoma in Hispanics

(PI: Dr. Fisher-Hoch)

Start/End Date 07/01/2018 – 06/30/2023
 Funding Agency/Role/Status NIH/ Co-I / Submitted
 Direct Costs/ Indirect Costs \$8,277,403 / \$3,037,985

Novel evidence-based predictive tool for mitral valve surgical planning in near-real time (R21)

(PI: Dr. Govindarajan)

Start/End Date 04/01/2019 - 03/31/2022
 Funding Agency/Role/Status NIH/NHLBI/Co-I/ Submitted
 Direct Costs/ Indirect Costs \$400,000 / \$216,000

Allele specific functional association of MICA with ankylosing spondylitis

(PI: Dr. Zhou)

Start/End Date 09/01/2019 - 08/31/2022
 Funding Agency/Role/Status DOD/Co-I/ Submitted
 Direct Costs/ Indirect Costs \$1,200,000 / \$642,000

GRANTS and CONTRACTS before September 1, 2017 (Pending, submitted, or not funded)

Data Coordinating Center for Sickle Cell Disease Implementation Consortium (DCC-SCDIC)

(PI: Rahbar)

Start/End Date 07/01/2016 - 06/30/2022
 Funding Agency/Role/Status NIH-NHLBI / PI / Not funded
 Direct Costs/ Indirect Costs \$ 4,116,846 / \$ 2,138,784

Statistical Methodology Development in Blood Transfusion Research: Phase 2 (SMD-BTR-2)

(PIs: Rahbar/Ning)

Start/End Date 07/01/2016 - 06/30/2021
 Funding Agency/Role/Status NIH-NHLBI / PI / Not funded
 Direct Costs/ Indirect Costs \$2,511,425 / \$787,753

Pathogenic Mechanisms in AS Outcome: Core B - Data Management and Statistical Core (DMSC) (PI: Rahbar)

Start/End Date 09/01/2016 - 08/31/2021
 Funding Agency/Role/Status NIH / Co-I / Not funded
 Direct Costs/ Indirect Costs \$ 743,720 / \$ 401,610

Rheumatic Disease Core at Houston

Start/End Date 07/01/2016 - 06/30/2021

Funding Agency/Role/Status UH-NIH / Co-I / Not funded
 Direct Costs/ Indirect Costs \$ 925,000 / \$ 499,500

Beyond Clinic Walls: Comparison of Diabetes Control in the Rio Grande Valley

Start/End Date 09/01/2016 - 08/31/2019
 Funding Agency/Role/Status PCORI / Co-I / Not funded
 Direct Costs/ Indirect Costs \$ 3,053,488 / \$ 1,234,439

Telemedicine-Guided Inpatient Consultative Care for Patients with Acute Ischemic Stroke in a Community Hospital

Start/End Date 01/01/2017 - 12/31/2018
 Funding Agency/Role/Status AHA / Co-I / Not funded
 Direct Costs/ Indirect Costs \$ 140,000 / \$ 14,000

Metformin: candidate for TB host-directed therapy in humans with and without diabetes

Start/End Date 05/01/2016 – 04/30/2019
 Funding Agency/Role/Status CRDF Global / Co-Investigator / Not funded
 Direct Costs/ Indirect Costs \$ 31,893 / \$3,189

Tuberculosis Latency, Persistence and Reactivation Humans and Animals. Mechanisms and Biomarkers of Progression.

Start/End Date 10/01/2014 - 09/30/2021
 Funding Agency/Role/Status NIH / Co-I / Not funded
 Direct Costs/ Indirect Costs \$782,859 / \$407,085

Epidemiologic Research on Autism in Romania

Start/End Date 06/01/2016 – 05/31/2018
 Funding Agency/Role/Status NIH/FIC /PI/ Not funded
 Direct Costs/ Indirect Costs \$258,800 / \$78,300

The Disparate Burden of Subclinical Cardiovascular Disease in Mexican Americans

Start/End Date 07/01/2016 – 06/30/2021
 Funding Agency/Role/Status NIH / Co-I/ Not funded
 Direct Costs/ Indirect Costs \$2,705,607 / \$865,562

Predicting Risk for Cognitive Impairment, an FMRI Longitudinal Study of Multiple Sclerosis (R01) (PI: Dr. Nelson Flavia)

Start/End Date 4/1/2015 – 3/31/2020
 Funding Agency/Role/Status NIH/NINDS/Co-I/Not funded
 Direct Costs/ Indirect Costs \$1,568,185/\$738,820

Advance lung cancer Inflammation Index (ALI) in Metastatic Lung Cancer (Dr. Syed H. Jafri)

Start/End Date 01/01/2015 – 12/31/2018
 Funding Agency/Role/Status American Cancer Society/Co-I/Not funded

Direct Costs/ Indirect Costs \$608,518/\$77,026

Thawed Plasma Storage Age and Outcomes in Trauma Patients (R21)

Start/End Date 09/01/2014 – 08/31/2015

Funding Agency/Role/Status NIH/Washington University/Co-I/Not funded

Direct Costs/ Indirect Costs \$30,000

Metabolomic profiling reveals new insight and innovative therapies for priapism and erectile dysfunction

Start/End Date 07/01/2016 – 06/30/2021

Funding Agency/Role/Status NIH/Co-I/Not funded

Direct Costs/ Indirect Costs \$ 1,250,000 / \$ 661,540

Road to discovery Lactobacillus reuteri in Treating Autism Spectrum Disorders (Dr. Rhoads)

Start/End Date 10/01/2017 – 09/30/2020

Funding Agency/Role/Status DOD/Co-I/Not funded

Direct Costs/ Indirect Costs \$377,000/\$203,580

Road to discovery for combination probiotic BB-12 with LGG in treating autism spectrum disorder (R01) (Dr. Rhoads)

Start/End Date 04/01/2018 – 03/31/2023

Funding Agency/Role/Status NIH/NCI/Co-I/ Not funded

Direct Costs/ Indirect Costs \$1,476,821/\$797,483

COMPLETED GRANTS and CONTRACTS

1R56NS105857-01 (PI: Narayana) 04/01/2018 - 03/31/2019 (5% effort)

NIH/NINDS \$408,919

Predicting contrast enhancement in multiple sclerosis with real time texture analysis

The main aim of this prospective study is to identify optimal texture signature based on machine learning to identify active lesions on non-contrast MRI that could minimize the need for GBCA administration. The performance of this texture signature will be evaluated on the CombiRx data acquired on a large cohort of patients with MS in a multi-center setting. Similarly, texture signature will be determined that can identify which lesions are likely to convert into tissue destructive lesions.

(Role: Co-Investigator/Statistician)

4UL1TR000371-10 (PI: McPherson) 06/27/2012-05/31/2019 (NEC) (20% effort)

NIH / NCATS \$20,000,000 (for 5 years)

Center for Clinical and Translational Sciences (CCTS)

This is renewal of our University of Texas CTSA award, which is designed to transform clinical research at academic institutions. The award funds the Center for Clinical and Translational Sciences (CCTS). The goal of the CCTS is to facilitate clinical and translational research at The University of Texas Health Science Center at Houston, The University of Texas M. D. Anderson

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Cancer Center, and the Memorial Hermann Hospital System, by providing resources and expert advice to investigators.

Role: Co-Investigator and Director, Biostatistics/Epidemiology/Research Design (BERD) Core

R25 HS023214 (PI: Suarez-Almazor) 07/01/2014 – 06/30/2019 (2% effort)

NIH/AHRQ

Methods Training in Patient-Centered Cancer Outcomes Research

The overall goal of this application is to increase the U.S. workforce of cancer researchers conducting Comparative Effectiveness Research/Patient Centered Outcomes Research by providing a comprehensive learning and training program that will be innovative, accessible, and tailored to the needs and expertise of individual participants. CERC offers training in CER/PCOR methodology, provides guidance on promoting stakeholder involvement, assists researchers in obtaining external funding, and fosters collaborations between researchers and established CER/PCOR methodologists.

Role: Co-investigator

5 R01 HL109597-02 (PI: Kim/McPherson) 08/22/2011 - 06/30/2018 (NCE) (2% effort)

NIH/NHLBI

\$371,982 (each year)

Mitral Value Dynamic Analysis and Potential Clinical Applications

Mitral valve (MV) repair is the preferred treatment in patients with MV insufficiency. The unsolved problem in MV repair surgery is predicting which repair is optimal for each patient. The principal aim of this project is to develop a novel computational technique combining 3-D echocardiography with finite element (FE) and fluid-structure interaction (FSI) analyses to evaluate the effects of MV morphology (normal vs. diseased valves, and pre- vs. post-repair) on MV function.

Role: Co-Investigator/Statistician

(PI: Johnson, Nils)

07/15/2014 – 12/31/2018

(2% effort)

Volcano Corp.

\$ 137,031

Data Coordination Center for Distal Evaluation of Functional performance with Intravascular sensors to assess the Narrowing Effect – Combined pressure and Doppler FLOW velocity measurements (DEFINE-FLOW)

The investigators of this project are supported by experienced biostatisticians and data management analysts from the BERD component of the Center for Clinical and Translational Sciences (CCTS) at the University of Texas Health Science Center at Houston. CCTS-BERD provides study design, data management, and statistical support.

Role: Co-Investigator and PI of Data Coordination Center

P01-AR052915 Overall PI: Reveille 9/1/2012 - 8/30/2018 (NEC) (10% effort)

PI of Data Management and Statistics Core: Rahbar

NIH/NIAMS

\$163,390 (Each Year)

Data Management and Statistical Core (DMSC) for Genetics and Ankylosing Spondylitis

(AS) Pathogenesis. The overall theme of this P01 research project is to characterize the genetic basis of AS that will be explored by 4 projects. The investigators of these four projects in the P01

program project application are supported by experienced biostatisticians and epidemiologists from the BERD component of the Center for Clinical and Translational Sciences (CCTS) at the University of Texas Health Science Center at Houston. CCTS-BERD provides study design, data management, and statistical support.

Role: PI of Data Management and Statistical Core

1U10N5086496-01 (PI: Sean Savitz) 09/29/2013-07/31/2018 (5% effort)

NIH/NINDS \$ 1,900,000 (5 years)

The University of Texas Houston Regional Stroke Center

The goal of this proposal is for the University of Texas Houston to serve as a regional clinical coordinating center for the NINDS Stroke Trials Network to conduct multi-site clinical trials focusing on stroke prevention, intervention and recovery.

Role: Co-investigator and PI of Data Core

16GRNT29170013 (Kulmacz) 07/01/2016-06/30/2018 (5% effort)

AHA \$139,995

Cytochrome b reductase 1 (CYBRD1) and Erythrocyte Antioxidant Defenses

The goals of this project are understanding dysfunctions of blood antioxidant defenses, identifying individuals with impaired defenses and devising interventions to block oxidative damage.

Role: Co-Investigator/Statistician

1 R21 HL109479-01A1 (PIs: Ning/Rahbar) 07/15/2013-04/30/2016 (15% effort)

NIH/NHLBI \$422,091

Statistical Methodology Development in Blood Transfusion Protocol Research

The overall objective of this project is to address issues in blood transfusion research by developing latent class analysis and recurrent event data analysis methodology to apply to this field.

Role: Corresponding PI

R34 HL105563 PI: Marian 12/01/2011 - 11/30/2016 (NCE) (8.0% effort)

NIH/NHLBI \$190,000 (each year)

Hypertrophy Regression with N-Acetylcysteine in Hypertrophic Cardiomyopathy (HALT-HCM)

The primary objective is to perform a pilot study in patients with hypertrophic cardiomyopathy (HCM) to establish safety and gather the pre-requisite data for subsequent robust randomized placebo-controlled efficacy studies with N-acetylcysteine (NAC). We will gather data on the recruitment, accrual, retention, and compliance rates of HCM patients randomized to treatment with a placebo or two escalating doses of NAC. Likewise, we will determine any potential side effects and estimate the effect size of NAC on indices of cardiac hypertrophy.

Role: Co-Investigator/Statistician/PI of the Data Core

R34 AT006727 PI: Rhoads 07/01/2011 - 12/31/2015 (6% effort)

NIH/NCCAM \$150,000 (each year)

Safety of Reuteri and Effect on Microbiota and Biomarkers of Intestinal Health in Healthy Infants with Coli

This project is focused on a population of healthy infants with colic to show safety of a probiotic

that has been shown to reduce crying time in infants with colic. Our Primary Aim is to demonstrate (in a two-year trial) the safety of *L. reuteri* in healthy newborns with colic (n=30), by administering 5×10^8 c.f.u. by mouth once daily for 6 weeks. Our Secondary Aims are to determine the effect of *L. reuteri* on: (a) regulating gastrointestinal inflammation as assessed by fecal calprotectin; (b) serum cytokines; (c) circulating regulatory T-cells; and (d) fecal microbiota.

Role: Co-Investigator/Statistician

R21 HD057808 PI: Rahbar 06/01/2009-05/30/2013 (12% effort)
NIH/Fogarty International Center \$104,000 (Each Year)

Epidemiological Research on Autism in Jamaica

On this project faculty at The University of Texas Health Science Center at Houston (UTHSC-H) will collaborate with a team of multidisciplinary researchers in the Faculty of Medical Sciences at The University of the West Indies (UWI), Mona Campus, to develop and evaluate the capacity for creating a database of genetic and phenotypic information in Jamaica among cases with Autism Spectrum Disorder (ASD) and their family members. We provided research training and enhanced the infrastructure to support future large-scale epidemiologic research on ASD in Jamaica. We also conducted pilot work to set the stage for conducting future population-based etiologic studies of autism in Jamaica, with a particular focus on genetic and environmental factors including heavy metals and other environmental contaminants and their potential interactions in relation to ASD.

Role: PI

W81XWH-08-C-0712 PI: Rahbar 09/15/2008-3/15/2013 (30% effort)
US Army Institute of Surgical Research \$9,800,000 (5-years)

Data Coordination Center (DCC) for a Prospective, Observational, Multi-center Major Transfusion sTudy (PROMMTT)

The purpose of this project was for the Center for Clinical and Translational Sciences (CCTS) at The University of Texas Health Science Center at Houston (UTHSC-H) to serve as the Data Coordination Center (DCC) for PROMMTT which involved at least 10 major trauma research centers in the US. The PROMMTT-DCC will provide comprehensive administration including the establishment and management of a Consortium of at least 10 clinical sites and the coordination of data collection, data management and statistical analysis activities to achieve the overall objectives of this project.

Role: PI

5 P50 NS044227-07 PI: Grotta 03/01/2008-04/30/2013 (16.9% effort)

5 P50 NS044227-07-18565, PI of Data Core: Rahbar

NIH/NINDS \$1,136,922 (each year)

University of Texas Specialized Program in Acute Stroke (UT SPOTRIAS)

This program was a renewal of The University of Texas Health Science Center at Houston Specialized Program in Translational Research in Acute Stroke. This program included implementation of two clinical trials in stroke patients. This program also included 3 Cores (Clinical, Data, and Tissue) to support these clinical and translational studies, as well as a Career Development Program to train new investigators to carry out future translational studies in Stroke.

Role: PI of Data Core (5 P50 NS044227-07-18565)

3P50NS044227-06A1 PI: Grotta/Barreto 09/01/2009-08/31/2015 (10.0% effort)
NIH/NINDS & FARB Foundation \$959,571 (5 years)

A pilot, phase IIb, randomized, multi-center, safety and activity trial of Argatroban in combination with TPA Stroke Study (ARTSS-2)

This project was a supplement to the study: **University of Texas Specialized Program in Acute Stroke**. This program project includes 2 pilot clinical trials and community outreach programs in acute stroke plus 4 supporting cores. This supplemental pilot study will determine the safety of Argatroban injection in combination with acute stroke.

Role: PI of Data Coordinating Center and Co-Investigator

NIH (PI: Tilley) 07/01/2012 - 06/30/2015 \$458,671

Training Grant Program in Biostatistics at UTHSC-SPH

Role: Mentor

R01 NS070888-01A1 PI: Sheikh 04/01/2011 - 02/29/2016 (10% effort)
NIH/NINDS \$ 520,000 (each year)

Non-invasive Imaging to Quantify Peripheral Nerve Injury and Repair in Clinic

The objectives of this project include: to establish in vivo DTI-based techniques of imaging intact peripheral nerves in humans; and to establish in vivo DTI-based techniques of imaging peripheral nerve degeneration and regeneration in traumatic peripheral nerve disorders in humans. The goal of the proposed studies are to collect normative data in controls and apply it to patients with complete nerve injuries undergoing nerve repairs.

Role: Co-Investigator/Statistician

R21 CA135669 PI: Ybarra 07/01/2009–06/30/2012 (5% effort)
NIH-Internet Solutions for Kids, Inc. \$150,000

Smoking Cessation via Text Messaging: Feasibility Testing of STOMP USA

The purpose of this research is to design and test SMS (Stop My Smoking) USA, a cell-phone based smoking cessation program for young adults ages 18-25. This innovative smoking cessation program used technology widely adopted by young adults, an under-targeted population, to deliver a proactive, cognitive behavioral therapy (CBT)-based intervention. Role: PI of subcontract and biostatistician

R21 AI079624 PI: Restrepo 09/16/2009-08/31/2012 NCE (5% effort)
NIH/NIAID \$155,057 (per year)

Uncontrolled Diabetes, Immune Dysregulation and Tuberculosis

The long term goal is to understand the mechanisms explaining the association between TB and DM, to develop new recommendations for improved management and prevention of TB in DM patients. Our ability to propose studies on diseases that affects millions of patients worldwide rests on our access to a population of TB patients where 36% present DM, and our state-of-the-art laboratory which is close to the TB clinics.

Role: Statistician/Co-Investigator

U01AT003519 PI: Rhoads 08/01/2009-07/31/2012 (5% effort)

NIH/NCCAM \$184,346 (per year)

Phase I Safety and Tolerability of *Lactobacillus Reuteri* in Healthy Adults

This research project aims to 1) treat healthy adults with the probiotic, *L. reuteri*; 2) Fecal calprotectin will demonstrate normal or improved values after *L. reuteri* treatment, producing less inflammation 3) Cultivation-independent analyses of feces will reveal changes in flora; and 4) the serum profile of cytokines will not change in subjects treated with *L. reuteri*, while circulating TLRs will increase.

Role: Co-Investigator /Senior Biostatistician

PI: Reininger 10/01/2009-8/31/2012 (10% effort)

UTMB/Texas Diabetes Council \$500,000

Texas Diabetes Council Stark Model of Community

Increase opportunities for implementing positive behavior and lifestyle changes (e.g., increased and continuing physical activity and healthy eating) in people who already have diabetes and those who are at risk of developing diabetes. Increase community, environmental, and systems changes in various community sectors (i.e., health systems, worksites/businesses, food industry, faith communities, non-profits, local government, neighborhoods, and schools) that facilitate ongoing, increased physical activity and healthy eating among the general population, especially those with diabetes and pre-diabetes. Role: Co-Investigator/Senior Biostatistician

R21 HD060978 PI: Savitz 12/01/2009-11/30/2011 (3% effort)

NIH/NICHD \$150,000 (each year)

Safety and Feasibility of Autologous Mononuclear Bone Marrow Cells in Stroke Patients

Stroke is the leading cause of adult disability but there are few effective therapies for this devastating condition. Cell therapy is a promising new approach to enhance recovery from stroke. This application proposes to assess the safety and feasibility of autologous bone marrow mononuclear cells in stroke patients. The data from these proposed experiments are essential to begin developing this new therapeutic approach to enhance recovery from stroke.

Role: Co-Investigator/Biostatistician

Investigator Initiated Trial PI: Rhoads 08/01/2010-07/31/2012 (3% effort)

Mead Johnson

Effect of *Lactobacillus rhamnosus* GG (LGG) on Infant Crying

Our specific aims are to determine in premature low birth weight (LBW) infants if LGG supplementation to the infant formula will (1) reduce Barr diary crying time; (2) change the composition of intestinal microbiota; and (3) reduce intestinal inflammation, as determined by fecal calprotectin. We predict furthermore that LGG supplementation will facilitate its establishment as an important component of the neonatal intestinal microbial community.

Role: Co-Investigator/Biostatistician

U54 Subcontract (Lindsell/McPherson) 04/01/2011 – 03/31/2012 (2% effort)

NIH/NCRR/University of Cincinnati \$81,600

Leveraging biostatistics to speed clinical testing of therapeutic strategies

This project is to develop a suite of educational modules, both electronic and paper based, about Bayesian adaptive clinical trial design. The modules will be based around the real case of a clinical

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trial in acute heart failure that is being designed to answer questions about which treatments work best for which patient phenotypes. Modules will be developed geared towards the interests of several key stakeholder groups: regulatory bodies, funding agencies, data managers, methodologists and investigators.

Role: PI of the UT Health Subcontract/Co-Investigator

5 U10 DD000007-03 PI: Rahbar 2/1/2004 - 5/30/2009 (30% effort)
CDC/DHHS \$3,000,000

Data Coordinating Center for Autism & Other Disabilities

The purpose of this project is to serve as the Data Coordinating Center (DCC) for the Centers for Disease Control and Prevention (CDC)-funded national network of autism research centers (U10-DD000007) during 2004-2009. Since I left Michigan State University in 2008, to take a new senior faculty position at UTSPH at Houston my role changed to Co-PI and PI of UTSPH subcontract during 2/1/08 – 4/30/2009.

Role: PI during 5/1/04 – 1/31/2008. Co-PI during 2/1/2008-5/30/2009.

2 P20 MD000170-06 PI: McCormick 3/1/2008 - 2/28/2013 (2% effort)
NIH/NCMHD

Center of Excellence for Diabetes in Americans of Mexican Descent

This project will conduct research on the physiological progression of diabetes and its complications among Mexican Americans and develop diabetes prevention strategies and test innovative approaches to effective intervention in minorities.

Role: Senior Statistician of Administrative Core; will oversee statistical analysis for all cores.

Contract # 2008-0276741-001. PI: Reininger 4/1/2008 - 10/31/2008 (2% effort)
Texas Department of State Health Services

Department of State Health Services (DSHS) Evacuation Assessment

This project will identify the special needs population within Cameron, Hidalgo and Willacy Counties in South Texas who will need assistance in being evacuated in case of emergency.

Role: Senior Statistician and Co-Investigator

1R01 CA104883-01A1 PI: Wyatt 6/01/2005 – 5/31/2010 (2% effort)
NIH/NCI \$ 3,127,692 (for 5 years)

Reflexology: An Intervention for Advanced Breast Cancer

Role: Co-Investigator/Statistician but my role changed to Consultant effective 2/1/08 due to taking a new position at UTSPH at Houston.

5R03CA108361-02 PI: Velie 9/01/2004 – 5/31/2006 (10% effort)
NIH/NCI \$150,000 (per year)

Race/Socioeconomic Area Characteristics & Cancer-Detroit

Role: Co-Investigator/Biostatistician

1R01CA030724-01 PI: Given C. 5/01/2003 – 4/30/2007 (10% effort)
NIH/NCI \$ 4,038,617 (for 4 years)

Automated Telephone Monitoring for Symptom Management

Role: Co-Investigator/ Director of DCC

5T32HD046377 PI: Paneth 5/1/05-4/30/10 (10% effort)
NIH/NICHD \$298,104 (per year)

Training Program in Perinatal Epidemiology (T32)

Role: Program faculty

2R01HD034543-05A1 PI: Holzman 9/01/2002 – 8/31/2007 (15% effort)
NIH/NICHD \$ 5,241,835 (for 5-years)

Etiologic Heterogeneity in Preterm Delivery

Role: Co-Investigator/ Senior biostatistician

5R01CA079280-12 PI: Given B. 4/01/2003 – 3/30/2007 (10% effort)
NIH/NCI \$2,961,924 (for 4 years)

Family Home Care for Cancer – A Community Based Model

Role: Co-Investigator/Director of DCC

1R01CA101835-01A1 PI: Bradley 5/1/2004 – 2/28/2008 (20% effort)
NIH/NCI \$1,630,646 (for 4 years)

In-Depth Examination of Disparities in Cancer Outcomes

Role: Co-Investigator/Statistician

1R01HS014206-01 PI: Gardiner 5/1/2004 – 4/30/2007 (10% effort)
Agency for Health Care Policy and Research \$977,244 (for 3 years)

Use of Regression Models in Cost-Effectiveness Analysis

Role: Co-Investigator

5R01HS009514-06 PI: Gardiner 7/1/2001 – 6/30/2002 (10% effort)
Agency for Health Care Policy and Research \$323,000 (for 1 year)

Statistical Inference for Cost-Effectiveness Analysis

Role: Co-Investigator

5R01NS045109 PI: LaGamma 12/1/2004-11/30/2008 (10% effort)
NIH/NINDS \$980,178 (for 4 years)

Phase 1 Study of Thyroid Hormone in Prematures

Role: Co-Investigator/Statistician

Michigan Department of Community Health \$669,414 2003-2004 (10% effort)

Multilevel Analysis of Medicaid Maternal and Infant Support Services in Michigan

Role: Co-Investigator/ Statistician

Health & Human Services US Dept. of (HRSA) \$99,830 2003-2004 (10% effort)

Multi-level analysis of disparities in Preterm Delivery

Role: Co-Investigator/Statistician

US Dept. of Health & Human Services (HRSA) \$74,598 2002-2003 (10% effort)
Using Multi-level Analyses to Explore Ethnic & Socioeconomic Disparities in Rates of Preterm Delivery
 Role: Co-Investigator

Michigan Department of Community Health, **2002-2003** \$50,530 (5% effort)
Cancer Prevention
 Role: Co-Investigator

Health Resources and Services Administration, 2001-2002 \$101,427 (5% effort)
African American Women's Health Study: National Study Operation Plan
 Role: Statistician

1U01HD040607-01 PI: Goldenberg 9/1/2001-8/31/2006
 NIH/FIC (\$1.6 million over 5-year period for the AKU site)
 Global Network for Women's & Children's Health Research
Capacity building in Reproductive Health Research in Pakistan as the leading public health priority in the country
 Role: Statistician when the grant was submitted but I move to MSU later in 2001

PI: Fikree \$200,000 1996-1998
John Snow Inc./Mother Care Project and USAID project aimed at training of reproductive health care providers, community-based information, education and communication campaign and establishment of a referral system from community to the hospital for women with pregnancy complications.
 Role: Co-Investigator/Biostatistician

PI: Fikree /Ali \$11,677 2000-2001
 Population Council New York
Traditional Postpartum Practices, Perceived Postpartum Morbidity, and Health Seeking Behavior: A community-based study in Karachi, Pakistan
 Role: Co-Investigator

PI: Rahbar
 International Clinical Epidemiology Network (INCLIN) \$9,886 2000-2001
Capacity building in clinical epidemiology at the Aga Khan University, \$2000
 Role: PI

PI: Rahbar 1998-1999
 WHO/EMRO \$15,000
Lead levels and sources of lead among the children living near Karachi, Pakistan
 Role: PI

AKU Research Council grant entitled "**Development of improved complementary feeding practices and foods in Pakistan: a baseline survey of care and feeding practices and their**

determinants” 2000 US \$9819.50

Role: Co-Investigator

AKU Research Council grant entitled “**Prevalence and factors associated with dental carries among children aged 12-14 years in District Bannu, NWFP, Pakistan**” 2000 US \$1800

Role: Co-Investigator

AKU Research Council grant entitled “**The effect of counseling on level of Anxiety and Depression in poor urban women, Karachi, Pakistan**” 2000 US \$18,642

Role: Co-Investigator

AKU Research Council grant entitled “**Determinants of periodontal disease among adults population of Bahawalpur, Punjab, Pakistan**” 2000 US \$2120

Role: Co-Investigator

AKU Research Council grant entitled “**Risk factors for neonatal tetanus in Karachi: A Case-Control study**” 2000 US \$3,404

Role: Co-Investigator

AKU Research Council grant entitled “**Risk factors for non-fatal Myocardial Infarction in young male adults (15-40 years) in Karachi: A Case-Control study**” 2000 US \$3,500

Role: Co-Investigator

Karachi Reproductive Health Project grant for conducting research entitled “**Assessment of the Karachi reproductive Health Project's Program Effectiveness in improving female Sexual Health**” 1997 US \$65,000

Role: Co-Investigator

Aga Khan University seed grant entitled “**Risk factors for intra-familial transmission of hepatitis C virus**” 1998 US \$9000

Role: Co-Investigator

Aga Khan University seed grant entitled “**In urine citrate excretion genetically determined?**” 1997 US \$10,000, Role: Co-Investigator

Aga Khan University seed grant entitled “**Relationship between tumor markers with established predictors and nodal status in carcinoma of the breast**” 1996 US \$6000 Role: Co-Investigator

UW-L Faculty Research Grant entitled “**Optimal Estimation of Regression Parameters using Censored Data with a Discrete Covariates**” 1994 US \$4,500

Role: PI

UW-L Faculty Research Grant entitled “**Nonparametric Estimation of Regression Parameters using Censored Data with two discrete Covariates**” 1993 US \$4,000

Role: PI

UW-L Faculty Research Grant entitled “**Sequential Fixed Width Confidence Intervals for Regression Parameters from Censored Data with a Discrete Covariate**” 1992 US \$3,500
Role: PI

UW-L Faculty Research Grant entitled “**Nonparametric Estimation of Regression Parameters using Censored Data with a Discrete Covariate**” 1991 US \$3,000
Role: PI

UW-L Faculty Research Grant entitled “**Sequential Estimation of Functionals of the Survival Curve under Random Censorship**” 1989 US \$2,500
Role: PI

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1. White, F., **Rahbar, M. H.**, Agboatwalla, M., Luby, S., Iqbal, A., Hozhabri, S. Elevated blood lead levels in Karachi children. *Bull. World Health Organ*, 2001, 79: 173. PMC2566351

ABSTRACTS, CONFERENCE PROCEEDINGS, AND CONFERENCE PRESENTATIONS

ABSTRACTS & CONFERENCE PRESENTATIONS

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2. Factors associated with unawareness about elevated blood pressure in an urban community of Karachi, Pakistan. Presented at the 17th INCLIN Global Meeting in Bangkok, Oct. 15-18, 2000.
3. Traditional Practices, Morbidity and Care Seeking Among 525 Recently Delivered Women in Low Socio-Economic Settlements of Karachi. Presented at the 2nd Annual Population Conference. Population Association of Pakistan, Islamabad, 31 Oct–02 Nov, 2001.
4. Given, B., Given, C. W., McCorkle, R., Kozachik, S., Cimprich, B., **Rahbar, M. H.**, and Wojcik, C. Pain and fatigue management: results of a nursing randomized clinical trial. 2002. Washington, D.C. Oncology Nursing Society 27th Annual Congress, April 18-21, 2002.
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 10. **Rahbar, M. H.**, White, F., Agboatwalla, M., Hozhabri, S., and Luby, S. Factors associated with elevated blood lead concentrations in children in Karachi, Pakistan. 2003. Kunming, China. INCLIN XIX Global Meeting, February 19-22, 2003.
 11. Given, B., Given, C. W., Bradley, C., McCorkle, R., **Rahbar, M. H.**, Jeon, S., Cimprich, B., and Kozachik, S. Clinical Trial of Behavioral Intervention Results in Fewer Hospitalizations Among Cancer Patients Undergoing Chemotherapy. 2003. Denver, CO. 28th Annual Congress of the Oncology Nursing Society, May 3, 2003.
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 68. Gensler, L. S., Reveille, J. D., Lee, M., **Rahbar, M. H.**, Ardjomand-Hessabi, M., Brown, M. A., Weisman, M. H., and Ward, M. M. Regular Exercise Is Associated With Better Functional Outcomes In Ankylosing Spondylitis. [Presentation Number: 1542]. 2013. San Diego, CA. 2013 ACR/ARHP Annual Meeting, October 25-30.
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- Multi-ethnic Cohort Of Patients With Ankylosing Spondylitis. [Presentation Number: 2840]. 2013. San Diego, CA. 2013 ACR/ARHP Annual Meeting, October 25-30, 2013.
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 75. Choi, S., Ning, J., **Rahbar, M. H.**, Piao, J., Hong, C., Huang, H., del Junco, D. J., Fox, E. E., and Holcomb, J. B. A Latent-Class Joint Mixture Model for Defining Severe Hemorrhage in Trauma Patients. [Abstract # 312209]. 2014. Boston, Massachusetts. 2014 Joint Statistical Meetings. August 2-7, 2014
 76. **Rahbar, M. H.**, Samms-Vaughan, M., Ma, J., Bressler, J., Loveland, K. A., Ardjomand-Hessabi, M., Dickerson, A. S., Grove, M. L., Shakespeare-Pellington, S., Beecher, C., McLaughlin, W., and Boerwinkle, E. Role of metabolic genes in blood concentrations of arsenic in Jamaican children with and without autism spectrum disorders. 2014. Seattle, WA. Society for Epidemiologic Research (SER) 47th annual Meeting, June 24-27, 2014.
 77. Reynolds, R. J., Delclos, G. L., **Rahbar, M. H.**, and Cooper, S. P. Ionizing radiation from extraterrestrial environments and the risk of death from cancer and all natural causes among US astronauts, 1959-2011. 2014a. Seattle, WA. Society for Epidemiologic Research (SER) 47th annual Meeting, June 24-27, 2014.
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81. **Rahbar, M. H.**, Samms-Vaughan, M. Role of metabolic genes and environmental toxins in Autism Spectrum Disorder in Jamaican children. 2015. Houston, Texas. 3rd Annual Houston Global Health Collaborative Connect Conference (HGHC). March 21-22, 2015.
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84. Jia, J., Cai, C., **Rahbar, M. H.**, Pandurengan, R. Collateral Score and Neurologic Worsening in Patients with Carotid Dissection. 2015. Washington, DC. American Academy of Neurology Conference, Annual Meeting, April 18-25, 2015.
85. Dickerson, A. S., **Rahbar, M. H.**, Han, I., Pearson, D. A., Moyé, L., Bakian, A. V., Bilder, D. A., Harrington, R. A., Pettygrove, S., Durkin, M. S., Kirby, R. S., Wingate, M. S., Tian, L. H., Zahorodny, W. M., Baio, J. Autism Spectrum Disorder prevalence and proximity to industrial facilities releasing arsenic, lead or mercury. 2015. Salt Lake City, Utah, USA. The International Meeting for Autism Research (IMFAR), 14th Annual Meeting May 13-16, 2014.
86. Mazumdar, M., Messinger, S., Finkelstein, D. M., Goldberg, J. D., Lindsell, C. J., Morton, S. C., Pollock, B. H., **Rahbar, M. H.**, Welty, L., Parker, R., Research Design Key Function Committee of the Clinical and Translational Science (CTSA) Consortium. Evaluating Scientists Collaborating in Team-Based Research: a proposed framework (Accepted). 2015. Bethesda, Maryland. The Science of Team Science (SciTS) 2015 Conference, June 2-5, 2015.
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88. Dickerson, A. S., **Rahbar, M. H.**, Bakian, A. V., Bilder, D. A., Kirby, R. S., Harrington, R. A., Pettygrove, S., Durkin, M. S., Wingate, M. S., Tian, L. H., Zahorodny, W. M., Han, I., Moyé, L., Pearson, D. A., Baio, J. Autism Spectrum Disorder Prevalence and Associations with Ambient Air Concentrations of Lead, Mercury, and Arsenic. 2015. Denver, CO. Society for Epidemiologic Research (SER) 48th annual Meeting, June 16-19, 2015.
89. **Rahbar, M. H.** Role of Culture in Designing and Conducting Global Epidemiologic Research in Autism Spectrum Disorder. 2015. Tuxtla Gutierrez, Chiapas, Mexico. IACCP Symposium, Central America Regional Conference, July 28-31, 2015.

90. Lee, M., **Rahbar, M. H.**, Reveille, J. D., Weitzel, J. N., Ward, M. M., Gensler, L. S., Brown, M. A. A Weighted Quantile Regression Model based Multiple Imputation method for Left Censored and Partially Observed Biomarker Data. 2015. Seattle, WA., 2015 Joint Statistical Meetings, Section on Nonparametric Statistics. 2015 Joint Statistical Meetings, August 8-13, 2015.
91. Mandal, J., Simard, J., Lee, M., Weisman, M. H., Ward, M. M., Brown, M. A., **Rahbar, M. H.**, Reveille, J. D., Gensler, L. Gender Differences in Ankylosing Spondylitis: Men Derive Greater Benefit from Tumor Necrosis Factor Alpha Inhibitors. 2015. San Francisco, CA. 2015 American College of Rheumatology (ACR)/ARHP Annual Meeting, November 6-11.
92. Huang, M., Lee, M., Ward, M. M., Gensler, L., Brown, M. A., Assassi, S., Diekman, L. A., **Rahbar, M. H.**, Weisman, M. H., Reveille, J. D. Predictors of Depression Severity in Ankylosing Spondylitis. 2015. San Francisco, CA. 2015 American College of Rheumatology (ACR)/ARHP Annual Meeting, November 6-11.
93. Gibson, M. C., Lee, M., Ward, M. M., Gensler, L., Brown, M. A., Assassi, S., Pence, C. J., Diekman, L. A., **Rahbar, M. H.**, Weisman, M. H., Reveille, J. D. Factors Associated With TNF-a Inhibitor Utilization in Patients with Ankylosing Spondylitis Over 13 Year Period (2003-2015). 2015. San Francisco, CA. 2015 American College of Rheumatology (ACR)/ARHP Annual Meeting, November 6-11.
94. **Rahbar, M. H.**, Samms-Vaughan, M., Bressler, J., Dickerson, A. S., Hessabi, M., Loveland, K. A., Grove, M. L., Shakespeare-Pellington, S., Beecher, C., McLaughlin, W., Boerwinkle, E. Role of metabolic genes and environmental toxins in Autism Spectrum Disorder in Jamaican children. 2015. Shanghai, China. Asia Pacific Regional IMFAR: November 6-8, 2015.
95. Vahidy, F. S., **Rahbar, M. H.**, Lee, M. Spleen contraction in patients with ischemic stroke and brain hemorrhage: validating animal studies. 2015. Orlando FL. American Heart Association (AHA) Scientific Sessions 2015, November 9, 2015.
96. **Rahbar, M. H.**, Samms-Vaughan, M., Ma, J., Bressler, J., Dickerson, A. S., Hessabi, M., Loveland, K. A., Grove, M. L., Shakespeare-Pellington, S., Beecher, C., McLaughlin, W., Boerwinkle, E. Synergic effect of GSTP1 and blood manganese concentrations in Autism Spectrum Disorder. 2015. Salt Lake City, Utah, USA. The International Meeting for Autism Research (IMFAR), 14th Annual Meeting May 13-16, 2015.
97. Jagolino, A. L., Cai, C., **Rahbar, M. H.**, Parker, S., Bowry, R., Grotta, J. C. Door to Groin Puncture Times in Patients Managed on a Mobile Stroke Unit: Pilot Data. 2016. Los Angeles, CA. International Stroke Conference 2016, February 17-19, 2016.
98. Wyatt, G., Sikorskii, A., Flanigan, M., **Rahbar, M. H.**, Victorson, D., You, M. Home-based Involvement in Symptom Management for Advanced Breast Cancer. 2016. Milwaukee, Wisconsin. Midwest Nursing Research Society (MNRS) 40th Annual Research Conference, March 17-20, 2016.
99. Jagolino, A., Cai, C., **Rahbar, M. H.**, Ritvij, B., Parker, S. A., Grotta, J. C. Reversible Cerebral Vasoconstriction Syndrome and CNS Vasculitis. 2016. Vancouver, BC, Canada.

AAN 68th Annual Meeting, 2016, April 15-21.

100. Yusuf, Z., Ostermaier, K., **Rahbar, M. H.**, Selwyn, B. Risk factors for Autism Spectrum Disorders in Children with Down Syndrome: A Case-Control Study. 2016. Baltimore, MD. American Pediatric Societies (PAS), April 30- May 6, 2016.
101. Samms-Vaughan, M., **Rahbar, M. H.**, Dickerson, A. S., Loveland, K. A., Hessabi, M., Pearson, D. A., Bressler, J., Shakespeare-Pellington, S., Grove, M. L., Boerwinkle, E. The Diagnosis of Autism Spectrum Disorder in Low and Middle Income Countries: Concordance of Assessment Instruments in Jamaica. 2016. Baltimore, Maryland, USA. The International Meeting for Autism Research (IMFAR), 15th Annual Meeting May 11-14, 2016.
102. **Rahbar, M. H.**, Samms-Vaughan, M., Hessabi, M., Dickerson, A. S., Lee, M., Bressler, J., Tomechko, S. E., Moreno, E. K., Loveland, K. A., Coore Desai, C., Shakespeare-Pellington, S., Reece, J-A., Morgan, R., Geiger, M. J., O'Keefe, M. E., Grove, M. L., Boerwinkle, E. A. Concentrations of polychlorinated biphenyls (PCBs) and organochlorine (OC) pesticides in umbilical cord serum of Jamaican newborns. 2016. Miami, Florida. Society for Epidemiologic Research (SER) 49th annual Meeting, June 21-14, 2016.
103. **Rahbar, M. H.**, Samms-Vaughan, M., Pitcher, M. R., Bressler, J., Hessabi, M., Loveland, K. A., Christian, M., Grove, M. L., Shakespeare-Pellington, S., Beecher, C., McLaughlin, W., Boerwinkle, E. Role of metabolic genes in blood aluminum concentrations of Jamaican children with and without autism spectrum disorder. 2016. Baltimore, MD. 2016 Environmental Epidemiology of Autism Research Network Meeting (EEARN), May 12, 2016.
104. Dau, J., Weisman, M. H., Lee, M., Ward, M. M., Brown, M. A., Diekman, L., **Rahbar, M. H.**, Gensler, L., Reveille, J. D. Clinical Factors Impacting Statin Usage in A Longitudinal Ankylosing Spondylitis Cohort. 2016. London, UK. EULAR Annual European Congress of Rheumatology 2016, 8 to 11 June.
105. Gensler, L., Reveille, J. D., Ward, M. M., Brown, M. A., **Rahbar, M. H.**, Lee, M., Weisman, M. H. Pharmacologic Therapy and Radiographic Progression in Ankylosing Spondylitis: A Growing Controversy. 2016. London, UK. EULAR Annual European Congress of Rheumatology 2016, 8 to 11 June.
106. Gensler, L., Reveille, J. D., Ward, M. M., Brown, M. A., **Rahbar, M. H.**, Lee, M., Weisman, M. H. NSAID Modify the Effect of Tumor Necrosis Factor Inhibitors on New Bone Formation in Ankylosing Spondylitis. 2016. London, UK. EULAR Annual European Congress of Rheumatology 2016, 8 to 11 June.
107. **Rahbar, M. H.**, Dickerson, A. S., Ahn, C., Carter, R. E., Hessabi, M., Lindsell, C. J., Nietert, P. J., Oster, R. A., Pollock, B. H., Welty, L. J. Characteristics of Biostatistics, Epidemiology, and Research Design Programs in Institutions with Clinical & Translational Science Awards. 2016. Chicago, IL. 2016 Joint Statistical Meetings, July 30-August 4.
108. **Rahbar, M. H.**, Choi, S., Hong, C., Zhu, L., Jeon, S., Gardiner, J. C. Nonparametric

- Estimation of Median Survival Times with Applications to Multisite or Multicenter Studies. 2017. Baltimore, MD, USA. Joint Statistical Meetings, July 29 - August 3, 2017.
109. Lee, M., **Rahbar, M. H.**, Reveille, J. D., Weisman, M., Ward, M. M., Gensler, L., Brown, M. A. Multiple Imputation method based on Weighted Quantile Regression Models for Longitudinal Censored Biomarker data with missing early visits. 2016. Chicago, IL. 2016 Joint Statistical Meetings, July 30- August 4.
 110. Gensler, L. S., Reveille, J. D., Ward, M. M., Lee, M., Leach, T. J., **Rahbar, M. H.**, Weisman, M. High Dose Nonsteroidal Anti-Inflammatory Drugs (NSAIDs) and Tumor Necrosis Factor Inhibitor Use Results in Less Radiographic Progression in Ankylosing Spondylitis - a Longitudinal Analysis (Oral presentation). [Abstract ID: 60454]. 2016. Washington, DC. 2016 American College of Rheumatology (ACR)/ARHP Annual Meeting, November 11-16.
 111. Christian, M. A., Samms-Vaughan, M., Lee, M., Bressler, J., Hessabi, M., Grove, M. L., Shakespeare-Pellington, S., Coore Desai, C., Reece, J-A., Loveland, K. A., Boerwinkle, E., **Rahbar, M. H.** *Maternal Exposures Associated with Autism Spectrum Disorder in Jamaica.* **2018.** Rotterdam, Netherlands. INSAR 2018 Annual Meeting (formerly IMFAR), May 9-12, 2018.
 112. **Rahbar, M. H.**, Samms-Vaughan, M., Lee, M., Christian, M., Bressler, J., Hessabi, M., Grove, M. L., Shakespeare-Pellington, S., Coore Desai, C., Reece, J-A., Loveland, K. A., Boerwinkle, E. *Interaction between Manganese and GSTP1 in relation to Autism Spectrum Disorder while controlling for exposure to mixture of Lead, Mercury, Arsenic, and Cadmium.* **2018.** Rotterdam, Netherlands. INSAR 2018 Annual Meeting (formerly IMFAR), May 9-12, 2018.
 113. Lee, M., Samms-Vaughan, M., Bressler, J., Christian, M. A., Hessabi, M., Grove, L. Megan, Shakespeare-Pellington, S., Coore Desai, C., Reece, J-A., Loveland, A. Katherine, Boerwinkle, E., **Rahbar, M. H.** *A generalized weighted quantile sums approach that accounts for interaction between mixtures of highly correlated exposures and other factors.* **2018.** Vancouver, British Columbia. JSM 2018 (the Joint Statistical Meetings), July 28-August 2, 2018.
 114. **Rahbar, M. H.**, Samms-Vaughan, M., Lee, M., Christian, M. A., Bressler, J., Hessabi, M., Grove, M. L., Shakespeare-Pellington, S., Coore Desai, C., Reece, J. A., Loveland, K. A., Beecher, C., McLaughlin, W., Boerwinkle, E. *Interaction between manganese and GSTP1 in relation to autism spectrum disorder while controlling for exposure to mixture of lead, mercury, arsenic, and cadmium.* 2019. Washington, D.C. Translational Science 2019 Meeting, March 5-8, 2019.
 115. Hessabi, M., **Rahbar, M. H.**, Dobrescu, I., Bach, M. A., Kobylinska, L., Bressler, J., Grove, M.L., Loveland, K. A., Georgeta Moisescu, M., Mircea Matei, B., Oktaviani Matei, C., Rad, F. *Concentrations of Lead, Mercury, Arsenic, Cadmium, Manganese, and Aluminum in Blood of Romanian Children Suspected of Having Autism Spectrum Disorder.* 2019. Montreal, QC, Canada. INSAR 2019 Annual Meeting (formerly IMFAR), May 1-4, 2019.

116. **Rahbar, M. H.**, Samms-Vaughan, M., Lee, M., Zhang, J., Bach, M. A., Bressler, J., Hessabi, M., Grove, M. L., Shakespeare-Pellington, S., Beecher, C., McLaughlin, W., Loveland, K. A. *Interaction between a Mixture of Heavy Metals (Lead, Mercury, Arsenic, Cadmium, Manganese, Aluminum) and GSTP1 in Relation to Autism Spectrum Disorder*. 2019. Montreal, QC, Canada. INSAR 2019 Annual Meeting (formerly IMFAR), May 1-4, 2019.
117. Bach, M. A., Samms-Vaughan, M., Hessabi, M., Bressler, J., Shakespeare-Pellington, S., Grove, M. L., Loveland, K. A., **Rahbar, M. H.** *Association of Polychlorinated Biphenyls and Organochlorine Pesticides with Autism Spectrum Disorder in Jamaican Children*. 2019. Montreal, QC, Canada. INSAR 2019 Annual Meeting (formerly IMFAR), May 1-4, 2019.
118. Bach, M. A., Rahbar, M. H., Dobrescu, I., Stancu, M., Hessabi, M., Rad, F. *Knowledge, Attitudes, and Practices of Family Physicians Related to Autism Spectrum Disorder in Romania: A Preliminary Analysis*. 2019. Montreal, QC, Canada. INSAR 2019 Annual Meeting (formerly IMFAR), May 1-4, 2019.
119. Saroukhani, S., Samms-Vaughan, M., Lee, M., Bach, M. A., Bressler, J., Hessabi, M., Grove, M. L., Shakespeare-Pellington, S., Loveland, K. A., **Rahbar, M. H.** *Perinatal Factors Associated with Autism Spectrum Disorder in Jamaican Children*. 2019. Montreal, QC, Canada. INSAR 2018 Annual Meeting (formerly IMFAR), May 1-4, 2019.
120. Saroukhani, S., Samms-Vaughan, M., Lee, M., Bach, M. A., Bressler, J., Hessabi, M., Grove, M. L., Shakespeare-Pellington, S., Loveland, K. A., **Rahbar, M. H.** *The Possible Modifying Effect of Maternal Age on the Association between Breastfeeding and Autism Spectrum Disorder in Jamaican Children*. 2019. Montreal, QC, Canada. INSAR 2019 Annual Meeting (formerly IMFAR), May 1-4, 2019.
121. Porter, N., Posey, Y., Saroukhani, S., Morimoto, K., Fukuda, E., Rahbar, M. H., Loveland, K. A., *Association of Child Autistic Characteristics with Parenting Stress in Mothers of Children with Autism Spectrum Disorder: A Comparison between the United States and Japan*. 2019. Montreal, QC, Canada. INSAR 2019 Annual Meeting (formerly IMFAR), May 1-4, 2019
122. **Rahbar, M. H.**, Samms-Vaughan, M., Lee, M., Zhang, J., Bach, M. A., Bressler, J., Hessabi, M., Grove, M. L., Shakespeare-Pellington, S., Beecher, C., McLaughlin, W., Loveland, K. A. *Interaction between a Mixture of Heavy Metals (Lead, Mercury, Arsenic, Cadmium, Manganese, Aluminum) and GSTP1 in Relation to Autism Spectrum Disorder*. 2019. Denver, CO. 2019 Joint Statistical Meetings, July 27-August 1, 2019.
123. Maldonado, Y. R., Weisman, M. H., Gensler, L. S., Ward, M. M., Brown, M., Lee, M., Hwang, M. C., Ishimori, M. L., Tahanan, A., Learch, T. J., **Rahbar, M. H.**, Reveille, J. D. *Factors Associated with Complete Spinal Fusion in Patients with Ankylosing Spondylitis*. [Abstract ID: 693375]. 2019. Atlanta, Georgia. 2019 ACR/ARP Annual Meeting, November 8-13, 2019.
124. Monga, K., Lee, M., Ward, M. M., Weisman, M. H., Gensler, L. S., Ishimori, M. L., Tahanan, A., **Rahbar, M. H.**, Brown, M., Oliver, L., Daliri, S., Reveille, J. D., Hwang,

- M. C. Associations of Work-Related Abilities with Disability in Ankylosing Spondylitis. [Abstract ID: 699006]. 2019. Atlanta, Georgia. 2019 ACR/ARP Annual Meeting, November 8-13, 2019.
125. Naovaratt, B. S., Weisman, M. H., Gensler, L. S., Ward, M. M., Hwang, M. C., Tahanan, A., Lee, M., **Rahbar, M. H.**, Ishimori, M. L., Brown, M., Reveille, J. D. Associations of HLA-B Alleles, Enthesitis and Peripheral Arthritis in Ankylosing Spondylitis. [Abstract ID: 695616]. 2019. Atlanta, Georgia. 2019 ACR/ARP Annual Meeting, November 8-13, 2019.

CONFERENCE PROCEEDINGS

1. Flynn, J. M., **Rahbar, M. H.** The Effect of Age, Sex, Socioeconomic Status, and Kindergarten Screening Scores on Reading Achievement. Proceedings of American Statistical Association 1993-Winter Conference 36(785), 790. **1994**.
2. **Rahbar, M. H.** Stochastic Modeling: A Nonparametric Approach. Mathematical Modeling in the Undergraduate Curriculum. Proceedings of the 1994 Modeling symposium at the University of Wisconsin-La Crosse , 98-106. **1995**.
3. **Rahbar, M. H.**, Bhutta, Z. A., Arif, M. A., Maqbool, S., Akram, D. S., Bhutta, T. I., Anwer, C. M., Imran, M., Fikree, F. F. National Neonatal Anthropometrics Study: Methodological Aspects of Centile Construction. Proceedings of the fifth Islamic Countries Conference on Statistical Sciences, 2, AP28. **1996**. Malang, Indonesia.
4. **Rahbar, M. H.**, Gardiner, J. C. A Statistical Method for Measuring Cost-Effectiveness Ratio. Proceedings of the Fifth Iranian Statistics Conference , 251-261. **2000**. Isfahan University of Technology, Isfahan, Iran. August 22-24.
5. **Rahbar, M. H.**, Sikorskii, A., Gardiner, J. C. Regression analysis of medical costs with right censored data in the presence of discrete covariates. Proceedings of the 2003 Joint Statistical Meetings-Biometrics Section-to include ENAR & WNAR , 3405-3410. **2003**.
6. Siebert, JE., Holland, TL., Sharp, SJ., Bonner, DJ., Kuhn, ME., Marable, kL., Thompson, PA., Artaman, A., **Rahbar, M. H.** Information System Design for the National CADDRE Study. International Meeting for Autism Research . **2007**. Seattle, WA.
7. **Rahbar, M. H.**, Talebi, H., Sangchoon, J. A Nonparametric Method for Assessment of Interactions in a Multi-factor Design with Censored Data. 9 th Iranian Statistics Conference. 9 th Iranian Statistics Conference , 510-523. **2008**. Isfahan, Iran, University of Isfahan.
8. Azizzadeh, Ali, Charlton-Ouw, Kristofer M., Chen, Zhongxue., Estrera, Anthony L., Coogan, Sheila M., **Rahbar, M. H.**, Holcomb, John B., Safi, Hazim J. A Cost and Outcome Analysis of Endovascular vs Open Repair of Blunt Traumatic Aortic Injuries. 2011 Southern Association for Vascular Surgery annual meeting, January 19 - 22, 2011. Journal of vascular surgery 52(6), 1731. **2011**. Ritz Carlton, Naples, Florida.
9. **Rahbar, M. H.**, Huang, Hanwen., Ning, J., del Junco, D., Fox, E., Holcomb, J. B. A latent class model for analyzing impact of damage control resuscitation on survival and blood

product utilization. **2012**. San Diego, CA. Joint Statistical Meetings (JSM) 2012, July 28-August 2, 2012.

10. Mandal, J., Ward, M. M., Weisman, M. H., Simard, J., Brown, M. A., Lee, M., **Rahbar, M. H.**, Reveille, J. D., Gensler, L. S. Gender Differences in Ankylosing Spondylitis: Men Derive Greater Benefit from Tumor Necrosis Factor Alpha Inhibitors. 2015 ACR/ARHP Annual Meeting, Nov 6-11. Arthritis & Rheumatism (**2015** Annual Meeting Abstract Supplement) 67[S10], Abstract Number: 1743.
11. Hwang, M., Lee, M., Ward, M. M., Gensler, L., Brown, M. A., Assassi, S., Diekman, L. A., **Rahbar, M. H.**, Weisman, M. H., Reveille, J. D. Factor Associated with Depression Severity in Ankylosing Spondylitis. 2015 ACR/ARHP Annual Meeting, Nov 6-11. Arthritis & Rheumatism (**2015** Annual Meeting Abstract Supplement) 67[S10], Abstract Number: 1708.
12. Gibson, M., Lee, M., Ward, M. M., Gensler, L., Brown, M. A., Assassi, S., Pence, C., Diekman, L. A., **Rahbar, M. H.**, Weisman, M. H., Reveille, J. D. Factors Associated with Anti-TNF Treatment in a Longitudinally Followed Ankylosing Spondylitis (AS) Cohort. 2015 ACR/ARHP Annual Meeting, Nov 6-11. Arthritis & Rheumatism (**2015** Annual Meeting Abstract Supplement) 67[S10], Abstract Number: 712.
13. Huang, M., Lee, M., Ward, M. M., Gensler, L., Brown, M. A., Assassi, S., Diekman, L. A., **Rahbar, M. H.**, Weisman, M. H., Reveille, J. D. Predictors of Depression Severity in Ankylosing Spondylitis. Arthritis & Rheumatology 67[S10], Abstract Number: 1708. **2015**. San Francisco, CA. 2015 ACR/ARHP Annual Meeting, Nov 6-11.

BOOK CHAPTERS

1. Rahbar, E., Desai, S., Mowatt-Larssen, E., & **Rahbar, M.** (2014). Biostatistics. In E. Mowatt-Larssen, S. S. Desai, A. Dua, & C. E. K. Shortell (Eds.), *Phlebology, Vein Surgery and Ultrasonography* (pp. 355-368) Springer International Publishing.

PRESENTATIONS (Invited Speaker)

1. Introduction to Data Mining with a particular focus on predictive modeling, Eastern Virginia Medical School (EVMS)-Sentara Healthcare Analytics and Delivery Science Institute (HADSI), March 5, 2019
2. Knowledge, Attitude, and Practices of General Practitioners in Karachi, Pakistan. The University of the West Indies, Mona, September 9, 2010.
3. Elements of Research. The University of the West Indies, Mona, Jamaica, September 9, 2010.
4. A Nonparametric Method for Assessment of Interactions in a Multi-factor Design with Censored Data. UTSPH Biostatistics Seminar, March 31, 2009.
5. Nonparametric modeling of the mean survival time in a multi-factor design based on randomly right-censored data. Presented to the faculty and staff at the New England Research Institute (NERI), Watertown, MA, May 2006

6. Epidemiology of Autism Spectrum Disorders: A Review. Presented to the faculty at the School of Public Health, The University Texas, Houston, February 2006
7. Factors Associated with Elevated Blood Lead Concentration among Children in Karachi, Pakistan. Presented to the faculty at the School of Public Health, The University Texas, Houston, December 2005
8. Faculty Research Enhancement in Health Sciences: Experience from Michigan State University. Presented to faculty at Virginia Commonwealth University, November 2005
9. Nonparametric modeling of the mean survival time in a multi-factor design based on randomly right-censored data. Presented to the Department of Community Medicine, Faculty of Medicine and Health Sciences at the United Arab Emirates University, Dubai UAE, May 22, 2004
10. Factors Associated with Elevated Blood Lead Concentration among Children in Karachi, Pakistan. Presented to the Institute of Pediatrics, Tashkent, Uzbekistan, February 8, 2004
11. Elevated Concentrations of Blood Lead among Children in Karachi, Pakistan. Presented to the Michigan State University CASID-WID Friday Forum, East Lansing, MI, October 3, 2003
12. Role of Statistics and Epidemiology in Health Research. Presented to the Michigan State University Cardiology Grand Rounds, Lansing, MI., July 1, 2002
13. Cost-Effectiveness Analysis when comparing different strategies for controlling hypertension: A simulation Exercise from Pakistan. Presented at the 13th Asian Pacific Cardiology Congress in Manila, October 3-6, 2001
14. Estimation of Link Function between Cost and Effectiveness Measures. Presented at the 7th Islamic Countries Conference on Statistical Sciences, Lahore, Pakistan, Jan. 2-5, 2001. (I also chaired the Biostatistics session).
15. Growth Standards for Pakistani Children during the first two years of life. Presented at the 7th Statistics Seminar at Karachi University, Karachi, Pakistan, March 8-10, 1999. (I also chaired the Biostatistics session).
16. Pretest Nonparametric Estimation of Regression Parameters from Censored Data. Presented at the 27th annual meeting of Statistics Canada, at the University of Regina, Canada, June 6-9, 1999. (I also chaired the Biostatistics session).
17. Nonparametric Estimation of Regression Parameters from Censored Data with a Continuous Covariate. Presented at the 28th Iranian Mathematical Conference, Tabriz University, Tabriz, Iran, March, 1997.
18. Status of epidemiology, biostatistics and public health activities in Pakistan. Presented at the Skemp-St. Francis-Mayo Clinic in La Crosse, Wisconsin, July 3, 1997.