

Curriculum Vitae

G.K. BALASUBRAMANI

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Education:

INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Presidency College, India	B.Sc.	1984	Statistics
University of Madras, India	M.Sc.	1986	Statistics
University of Madras, India	M.Phil.	1987	Statistics
University of Madras, India	Ph.D.	1992	Statistics
University of Western Ontario, Canada	Post Doc.	1995-'96	Statistics

Positions and Employment

1993-1995	Lecturer in Statistics, Department of Statistics, MS University, India
1995-1996	Assistant Professor/Post Doc. Trainee, Department of Actuarial Sciences and Statistics, University of Western Ontario, Ontario, Canada
1996-1998	Senior Lecturer, Department of Statistics, MS University, India
1998-2000	Research Officer, State Council for Higher Education, Madras, India
Aug.- Dec.2000	Visiting Fellow, Department of Statistics, University of Pittsburgh, Pittsburgh, PA
2001-2004	Statistician, Epidemiology Data Center, Graduate School of Public Health (GSPH), University of Pittsburgh, Pittsburgh, PA
2004-2014	Senior Statistician, Epidemiology Data Center, GSPH, University of Pittsburgh, Pittsburgh, PA
2014- 2020	Assistant Professor-Research, Department of Epidemiology and Clinical and Translational Sciences Institute, GSPH, University of Pittsburgh, Pittsburgh, PA
2020-Present	Associate Professor-Research, Department of Epidemiology and Clinical and Translational Sciences Institute, GSPH, University of Pittsburgh, Pittsburgh, PA

University Teaching Experience:

Department of Statistics, University of Pittsburgh, Pittsburgh **Aug-Dec, 2000**
Instructor for the Statistics course with 50 students; Taught Introductory to Business Statistics

Department of Actuarial Statistics, University of Western Ontario, London, Canada **1995-1996**
Teaching Sample Survey Methods to Graduate Statistics students and mentored Ph.D. students

Department of Statistics, M S University, India **1993-1995; 1996-1998**
Teaching Design of Experiments, Sample Survey Methods, Statistical Inference to Graduate Statistics students; Supervised Master's thesis and mentored Ph.D. students

Research Experience

Department of Epidemiology, University of Pittsburgh, Pittsburgh **2001-Present**

An active collaborator with the Influenza research team and in the last ten years contributed to the US Influenza Vaccine Effectiveness Network studies. In the last fifteen years' research experience, handling clinical research design, data collection, data mining, and data analysis with statistical methods. Actively involved in research areas of major importance to public health, these include statistical analysis on research studies to identify effective treatment modalities for major depression disorders, pulmonary complications of HIV, acute pediatric Traumatic Brain Injury, and Genomic Research in Alpha 1 anti-trypsin (A1AT) deficiency and Sarcoidosis. Published these randomized and observational clinical trials studies on in high impact peer reviewed journals. *My current research interest is in the development and application of statistical methodologies are on (i) Primary Open-Angle Glaucoma, (ii) Vaccine Effectiveness of Influenza and other respiratory virus infections in outpatients and inpatients with medically attended acute respiratory infection.*

Department of Statistics, University of Madras, India **1990-1992**

Doctoral thesis, we developed a new method of sampling Markov sampling with finite populations, resulted in publication in the Journal Biometrika.

Mentored Experience

Department of Statistics, M S University, India **1993-1995; 1996-1998**

Advisor for Doctoral thesis and Supervisor for several Master's theses in Statistics, specifically in the area of design of experiments and survey sampling.

Clinical and Translational Services Institute **2015-present**

Providing high level statistical service to the researchers in clinical setting

University Service

Member, Senate Benefits and Welfare Committee, University of Pittsburgh **2015-Present**

The committee is concerned with the broad areas of health and welfare benefits, wellness programs, retirement programs and other related matters for active and retired faculty and staff at the University of Pittsburgh.

Member, Faculty Assembly and Senate Council, University of Pittsburgh **2018-**

Awards

Young Statistician Award, International Statistical Institute, the Netherlands. 1993
Young Scientist Fellowship Award, Tamil Nadu State Council for Science and Technology, India. 1994

Current research

Outpatient COVID-19 Surveillance: COVID-19 testing results for symptomatic persons tested at UPMC South-Side are delivered to EDC project team. Those tested are invited to enroll in a longitudinal observational study. Manuscript about CART analysis of clinical indicators and burden is under review. Funded by CDC.

Hospitalized Inpatient COVID-19 Surveillance: COVID-19 results for admitted patients in any UPMC acute care, non-specialty hospital is delivered weekly to EDC project team. Medical records are abstracted for medical history, prior meds, treatment medications, relevant labs, severity indicators (ventilator, RRT), and disposition. Case-control study to compare COVID-19 cases with influenza and RSV hospitalized cases. Funded by CDC.

COVID-19 Vaccine Trials: Providing platform for Pittsburgh Vaccine Clinical Trials Unit to conceptualize, design, implement, and analyze clinical research vaccine studies across a wide variety of infectious diseases, and populations. Funded by NIH.

Pitt returning student COVID-19 surveillance Developed computing resources for University's COVID-19 Medical Response Office (CMRO) in testing returning students for COVID-19. Tracking specimens, reporting results, and monitoring and optimizing student flow. Funded by University of Pittsburgh.

Ongoing Research

Clarifying the Optimal Application of SLT Therapy (COAST)

Agency:UG1EY031651-01- NEI Collaborative Clinical Vision Research Project- UG1

Role: Principal Investigator - Data Coordinating Center – 09/01/2020 – 08/31/2025

This trial will clarify the optimal first-line therapy for newly-diagnosed open-angle glaucoma in Africa (selective laser trabeculoplasty [SLT] versus latanoprost) and will also characterize the relative costs and benefits of a laser-based (SLT repeated as needed) versus medication-based (latanoprost ± timolol) treatment strategy in this region. The lessons learned from this trial will inform treatment decisions for physicians and patients, as well as policy decisions by government and non-government agencies allocating scarce resources for glaucoma care in low-resource settings.

Pittsburgh Vaccine Clinical Trials treatment and evaluation Unit Registry.

Agency: NIH - Role: Co-Investigator

07/01/2020 -06/30/2023

Our intention is to collaborate with industry leaders in pediatric, adolescent and adult vaccine clinical trials for a variety of conditions and infections. We propose to enroll a large, representative sample of Pittsburgh-area residents in this registry. Specific Aim 1: Identify and register a group of residents of the Pittsburgh area who have expressed an interest in participating in a vaccine clinical study. Specific Aim 2: Identify and register a group of UPMC/Pitt investigators who have experience or are interested in conducting vaccine clinical studies. Specific Aim 3: Establish the necessary infrastructure at the University of Pittsburgh with the help of the Clinical and Translations Science Institute (CTSI) to conduct large clinical vaccine trials.

Outpatient VE for seasonal flu, pandemic flu and RSV in a large, diverse network

U01IP001035: CDC NCIRD – Role: Co-Investigator- Data Coordinating Center

08/01/2016 – 07/31/2022

This CDC project determines the effectiveness of influenza vaccine and of future RSV vaccines, if licensed, among outpatients. It also determines the incidence of influenza and RSV among outpatients.

Protective effect of maternal influenza immunization and breastmilk against infant influenza.

5 K12 HD052892 – NIH – Role: Co-Investigator

07/01/2020 – 06/30/2022

Thus, the overall goal of this work is to investigate the epidemiologic and immunologic relationships between MII, breastmilk and infant influenza disease to determine if breastmilk exposure after MII results in meaningful protection for the infant against influenza disease. Leveraging the expertise of our research team and the unique resources of UPMC, we will elucidate the nuanced relationships between these factors using electronic health record (EHR) data and establish feasibility and pilot immunologic data from prospectively enrolled mother-infant pairs in preparation for future work on infant influenza disease.

Flu vaccine effectiveness in those hospitalized in a large diverse health system:

U01IP000969, CDC NICRD: Role: Co-Investigator-Data Coordinating Center

08/01/2015 – 07/31/2021

The main purpose of this study is to overcome some of the weakness by using real time reverse transcription polymerase chain reaction assay to confirm presence of influenza and a test-negative case-control design to study the vaccine effectiveness. The project also described how patients hospitalized with ARI will be identified and enrolled during each influenza season covered by the five-year project period.

Enhanced Surveillance for New Vaccine Preventable Diseases – New Vaccine Surveillance Network (NVSN)

CDC NCIRD – Role: Co-Investigator- Data Coordinating Center

09/01/2016 – 08/31/2021

This project will provide active, prospective surveillance of licensed vaccine available for influenza and rotavirus in order to establish “real-world” vaccine effectiveness.

Epidemiology, Burden, and Cost of respiratory syncytial virus (RSV) infection in adults

Agency: MERCK Pharmaceuticals. Role: Principal Investigator

09/01/2019-08/31/2021

Objective (s): Evaluate the epidemiology, burden of illness and cost of RSV infection in adults (≥ 18 years of age) over three seasons in Allegheny County, Pennsylvania.

- Determine hospitalizations with RSV by age and risk group
- Determine severity of illness based on complications by age and risk group
- Determine economic burden of RSV hospitalization by risk and age group

Estimates will be calculated overall and for subgroups of RSV-A and RSV-B infected patients, as well as for subgroups of pregnant women, adults with underlying cardiopulmonary conditions, transplant recipients, and older adults (≥ 65 years).

SAR- CoV-2 Surveillance in Child Care Centers

Agency: MERCK Pharmaceuticals. Role: Co-Investigator

01/01/2021-12/31/2021

The overall goal of this study is to describe the epidemiology of SARS-CoV-2 transmission among children in child care, their child care providers, and their household contacts in order to create evidence based policies and practices for safely re-opening and operating group child care. The specific

objectives to accomplish the overall goal are to: 1) characterize prior SARS-CoV-2 infection, 2) detect new infections and 3) detect secondary infections.

Platform to Measure SARS-CoV-2 against Laboratory-Confirmed COVID-19 Associated Hospitalization

Agency: CDC: Role: Co- Investigator Data Coordinating Center

05/01/2020 – 07/31/2021

The Department of Epidemiology Data Center participates in the data management component of this project designed to establish the characteristics and clinical course of patients hospitalized with SARS-CoV2. The projects aim to identify the independent factors associated with severity of illness among the patients hospitalized with COVID-19. This project is a matched case-control study. Classification and Regression Tree (CART) method will be employed to identify signs and laboratory measures for the hospitalized patients.

George M. O'Brien Cooperative Research Centers Program

Agency: NIDDK – Role: Co-Investigator

07/01/2016 – 06/30/2021

1.20 Cal

This project aims to improve strategies for the prevention and treatment of benign prostatic hyperplasia (BPH). To achieve this objective, the project has three broad objectives: 1) to provide a multidisciplinary foundation and resource for collaboration among basic, translational and clinical researchers in the field of BPH and related LUTS, 2) to attract established investigators with unique scientific expertise and new investigators to study BPH and LUTS, and 3) to integrate BPH and LUTS research into the University of Pittsburgh.

Invasive Aspergillosis complicating severe influenza

Agency: NIH - Role: Co-Investigator

07/01/2020 – 06/30/2022

1.20 Cal

The Epidemiology Data Center investigator is responsible for the data management aspects of this study whose objectives are to define the incidence and clinical features of influenza-associated Aspergillosis (IAA) infections, identify clinical, host immune, and microbiome risk factors for IAA, and develop a clinically useful prediction model for identifying patients with influenza who will develop IAA.

Virtual Histology of the bladder wall for bladder cancer staging

Agency: NIH - Role: Co-Investigator

07/01/2020 – 06/30/2022

0.6 Cal

Pittsburgh Phage Project (P3)

University of Pittsburgh – Role- Co-Investigator

07/01/2020 – 06/30/2021

Pitt and the UPMC health system provide an ideal environment to develop a world class phage therapy program. We propose to assemble a team of experts in phage biology & discovery, immunology, clinical trials, and immunology. Moreover, we have direct access to a local population of high-risk patients with MDRO infections who are in desperate need of better treatments. Finally, the infrastructure to bring patients from other geographic locations to receive specialized care at UPMC is well established. Overall, the P3 holds great promise to significantly advance the field of phage therapy and establish Pitt as a leading center.

Submitted Grants Application:

Enhanced Surveillance for New Vaccine Preventable Diseases – New Vaccine Surveillance Network (NVSN)

CDC NCIRD – Role: Co-Investigator- Data Coordinating Center
09/01/2021 – 08/31/2026.

This project objective is 1. To determine population based active surveillance for respiratory and enteric viral pathogens in pediatric inpatient and emergency department settings and asymptomatic controls, 2. Establish surveillance and epidemiologic characterization of acute flaccid myelitis (AFM) syndrome in children, 3. Estimate population-based active surveillance for respiratory and enteric viral pathogens in outpatient settings, and 4. Estimate population based active surveillance for respiratory and enteric viral pathogens in outpatient settings.

COVID-19 and Evaluating Effectiveness of Respiratory Virus Vaccines –CDC BAA

CDC NCIRD – Role: Co-Investigator- Data Coordinating Center
09/01/2021 – 08/31/2022.

Develop innovative methods, tools and strategies to evaluate effectiveness of influenza and COVID-vaccines in preventing laboratory-confirmed illness.

University of Pittsburgh O'Brien Cooperative Research Center Program.

NIDDK – Role: Co-Investigator -07/01/2021 – 06/30/2026

This competing renewal application from the University of Pittsburgh is for an O'Brien Urology Cooperative Research Center Grant to elucidate "Causes and consequences of prostatic inflammation in benign prostatic hyperplasia (BPH) and related lower urinary tract symptoms (LUTS)". The Center investigators have expertise in an array of fields, including urology endocrinology, molecular biology, pharmacology, physiology, neuroscience, genetics and pathology. Using their various expertise, investigators developed multidisciplinary projects that involve basic mechanistic components, animal studies, the use of human clinical specimens, and/or MRI imaging of BPH in patients. Focusing on prostatic inflammation, two highly interactive projects are proposed to study molecular and cellular mechanisms driving BPH/LUTS and the potential of targeting these mechanisms for diagnosis, and/or treatment of BPH/LUTS.

Mesenchymal Stromal Cells (MSC) for Idiopathic Pulmonary Fibrosis (IPF)-A single center phase 1 trial examining effect of multiple doses of MSC on IPF macrophage and epithelial transcriptome.

Agency: NIH – Role: Co-Investigator
07/01/2021 – 06/30/2026

Idiopathic pulmonary fibrosis (IPF) is a lethal disease for which no specific therapy is available. Stem cell therapies are a valid alternative to treat IPF. However, our understanding of the mechanisms of action and the rationale for conducting clinical trials of stem cells in IPF is only now being realized.

Elevated BMI's potential role in obesity and sedentary in developing age-related prostatic disease

NIDDK – Role: Co-Investigator
07/01/2021 – 06/30/2026

Our recent publications demonstrated that epithelial barrier proteins inversely correlated with aging and inflammation in the human prostate and that inflammatory cytokine TGFβ-1 could damage the prostate epithelial barrier. It will be fascinating to establish whether obesity, which is endemic in the US, is associated with increased BPH/LUTS severity and whether exercise can mitigate this in your murine BPH/LUTS model.

Impact of FluBlok in UPMC Health Plan Databases

Sanofi Pasteur Biologics, LLC - Role: Co-Investigator Data Coordinating Center

07/01/2021 - 06/30/2023

2.4 Cal

Among vaccinees 4 thru 64 years of age from the Fall of 2018 and Fall of 2019, does acute respiratory-related health care utilization differ between recombinant/cell-based and egg-based influenza vaccines, after controlling for age, sex, time since vaccination to event, and influenza season? Propensity analyses and instrumental variable analyses will be used to control for potential selection biases and for differences found in demographics of egg-free vs. egg-based vaccinees.

Completed Research Support

Glaucoma Management in the African Derived Developing World Using Laser Trabeculoplasty.

R01 EY023620: Role: Principal Investigator- Data Coordinating Center

09/01/2015 – 08/31/2020

Recent research demonstrated that laser trabeculoplasty lowers IOP by an amount likely to favorably alter clinical course of glaucoma (versus no treatment) and has the potential to bend the glaucoma-related blindness curve in the African-derived developing world. The long term goal of the proposed project is to translate this finding through a public health initiative by establishing a Pan-Caribbean laser program to provide safe, effective, and cost-effective therapy for glaucoma in this underserved and overburdened region.

Approaches and Decisions for acute pediatric traumatic brain injury (ADAPT) trial

5U01NS081041-03, NIH: Role: Analyst

07/01/13-06/30/18

This is a five-year international study by NIH to evaluate treatments for pediatric traumatic brain injuries. The aim is to provide evidence to change clinical practices and provide recommendations for guidelines that could improve outcomes for injured children.

Influenza surveillance and vaccine effectiveness in a large network

U01 IP000467-05, CDC: Role: Co-Investigator/Statistician

07/01/11-06/30/16

The purpose of the study was to determine the effectiveness of seasonal influenza vaccine using a test negative case-control study design, where the proportion vaccinated among those who test positive for influenza is compared with the proportion vaccinated among those who test negative.

Effect of Atorvastatin on Endothelial Function and Raynaud in diffuse Scleroderma

R21 AR066305, NIH: Role: Co-Investigator

02/01/15-01/31/16

This is 16-week Pilot study of oral atorvastatin versus placebo in early diffuse systemic sclerosis patients and to determine the effect size and impact on microvascular endothelial function and microcirculatory flow.

Genomic research in Alpha 1 antitrypsin (A1AT) and Sarcoidosis program

5U01HL112707-03, NHLBI: Role: Analyst

05/01/12-11/30/15

The study will address the hypothesis that shifts in the lung microbiome to determine the extent of lung involvement in A1AT and that they are reflected in mRNA and microRNA changes in surrogate tissues.

Pulmonary Disease and HIV During the HAART era

T32 HL007563, NIH: Role: Co-Investigator - 09/01/08-09/01/12

Respiratory diseases are important causes of morbidity and mortality in HIV. No single study has examined changes in respiratory disease incidence spanning different treatment eras of the HIV epidemic. To address this, this study has reviewed the incidence of respiratory conditions and their effect on mortality in the era of HAART in two large cohorts comparing HIV infected and uninfected individuals. My role in this study as a Co-investigator and had full access to all of the data in the study and supervised the entire study.

Prevalence and Pathogenesis of Pulmonary Disease in a Large Multi-center HIV cohort

HL-07-008, NIH: Role: Co-Investigator - 09/28/07-06/30/11

The goal of the project is to systematically study pulmonary complications of HIV infected subjects.

Sequenced treatment alternatives to relieve depression (STAR*D)

N01-MH-90003, NIMH: Role: Statistical Analyst - 01/10/99-09/28/09

This study compares various treatment options for those who do not attain a satisfactory response with Citalopram, a SSRI antidepressant. The main idea of the study attempts to fill in major clinical information gaps and to evaluate the theoretical principles and clinical beliefs that currently guide pharmacotherapy of Major Depressive Disorder. I served as an analyst and analyzed the primary data for this study.

Effect of paramedic airway experience on patient outcomes

R21-HL08452801A1, NHLBI: Role: Co-Principal Investigator - 12/01/06-11/30/08

The goal of this study is to determine if paramedic endotracheal intubation (ETI) procedural experience is associated with patient outcomes and in hospital course of care. I wrote the study design, statistical analysis section and analyzed the patient outcomes.

Training

Missing data Analysis, Statistical Horizons, New York	Nov. 10-11, 2006
Meta-Analysis, Joint Statistical Meeting, Washington DC	Aug. 31, 2009
Linkage Analysis Course, University of Pittsburgh	Sep.-Dec., 2009
Propensity Score Weighting, University of Pittsburgh	Oct. 13, 2015
Propensity Score Analysis, Statistical Horizons, LA	Oct. 16-17, 2015

Peer Reviewed Publications (in chronological order)

1. Suresh Chandra, K., Sampath,S, **Balasubramani GK** (1992). Markov sampling for finite population. *Biometrika*, 79(1), 210-213.
2. Sidney Zisook, A.John Rush, Ari Albala, Jonathan Alpert, **Balasubramani GK**, Maurizio Fava, Mustafa Husain, Harold Sackheim, Madhukar H. Trivedi, Stephen R.Wisniewski (2004): Factors that differentiate early vs. later onset of Major Depression Disorder. *Psychiatry Research*, 129(2), 127-140. PMID:15590040.
3. Maurizio Fava, Jonathan E.Alpert, Cheryl N.Carmin, Stephen R.Wisniewski, Madhukar H.Trivedi, Melanie M.Biggs, Kathy Shores-Wilson, Don Morgan, Terry Schwartz, **Balasubramani GK**, A.John Rush (2004): Clinical correlates and symptom patterns of anxious depression among patients with major depressive disorder in STAR*D. *Psychological Medicine*, 34(7), 1299-1308. PMID:15697056.
4. Lori L.Davis, A.John Rush, Stephen R.Wisniewski, Kayla Rice, Paolo Cassano, Michele E.Jewell, Melanie M.Biggs, Kathy Shores-Wilson, **Balasubramani GK**, Mustafa M.Husain, Federic M.Quitkin, Patrick

- J.McGarth (2005): Substance use disorder comorbidity in major depressive disorder: an exploratory analysis of the Sequenced Treatment Alternatives to Relieve Depression cohort. *Comprehensive Psychiatry*, 46(2), 81-89. PMID: 15723023.
5. Bradley N. Gaynes, A. John Rush, Madhukar Trivedi, Stephen R. Wisniewski, **Balasubramani GK**, Donald C. Spencer, Timothy Petersen, Michael Klinkman, Diane Warden, Robert K.Schneider, Daniel B.Castro, Robert N. Golden (2005): A direct comparison of presenting characteristics of depressed outpatients from primary vs. specialty care settings: preliminary findings from the STAR*D clinical trial. *General Hospital Psychiatry*, 27(2), 87-96. PMID: 15763119.
 6. **Balasubramani GK**, Stephen R.Wisniewski, Hongwei Zhang, Heather F. Eng (2005): Development of an efficient SAS[®] Macro to perform permutation test for two independent samples. *Computer Methods and Programs in Biomedicine*, 79(2), 179-187. PMID: 15904990.
 7. Sheila M. Marcus, Elizabeth A.Young, Kevin B. Kerber, Susan Kornstein, Amy H. Farabaugh, Jeff Mitchell, Stephen R.Wisniewski, **Balasubramani GK**, Madhukar H.Trivedi, A.John Rush (2005): Gender Differences at Baseline: Findings from the STAR*D study. *Journal of Affective Disorder*, 87(2-3), 141-150. PMID: 15982748.
 8. Jon S.Novick, Jonathan W.Stewart, Stephen R.Wisniewski, Ian A.Cook, Radmila Manev, Andrew A. Nierenberg, Jerrold Rosenbaum, Kathy Shores-Wilson, **Balasubramani GK**, Melanie M.Biggs, Sid Zisook, A.John Rush (2005): Clinical and Demographic features of Atypical Depression in outpatients with Major Depressive Disorder: Preliminary findings from STAR*D. *The Journal of Clinical Psychiatry*, 66(8), 1002-1011. PMID: 16086615.
 9. Ira M. Lesser, Andrew F. Leuchter, Madhukar H. Trivedi, Lori L. Davis, Stephen R. Wisniewski, **Balasubramani GK**, Timothy Petersen, Diane Stegman, A. John Rush (2005): Characteristics of insured and non-insured outpatients with depression in STAR*D. *Psychiatric Services*, 56(8), 995-1004. PMID: 16088018.
 10. Mustafa M.Husain, A.John Rush, Harold A. Sackeim, Stephen R.Wisniewski, Shawn M. McClintock, Nicoletta Craven, Joel Holiner, Jeff R. Mitchell, **Balasubramani GK** Robert Hauger (2005): Age Related Characteristics of Depression: A Preliminary STAR*D Report. *American Journal of Geriatric Psychiatry*, 13(10), 852-860. PMID: 16223963.
 11. Madhukar H.Trivedi, A.John Rush, Stephen R.Wisniewski, Andrew A. Nierenberg, Diane Warden, Louise Ritz, Grayson Norquist, Robert H. Howland, Barry Lebowitz, Patrick J. McGrath, Kathy Shores-Wilson, Melanie M.Biggs, **Balasubramani GK**, Maurizio Fava, for the STAR*D study team (2006): Evaluation of outcomes with Citalopram for depression using measurement based care in STAR*D: Implications for clinical research and practice. *American Journal of Psychiatry*, 163(1), 28-40. PMID: 16390886.
 12. Andrew A. Nierenberg, Madhukar H.Trivedi, Maurizio Fava, Melanie M.Biggs, Kathy Shores-Wilson, Stephen R.Wisniewski, **Balasubramani GK**, A.John Rush (2007): Family history of mood disorder and characteristics of major depressive disorder: A STAR*D (Sequenced Treatment Alternatives to Relieve Depression) study. *Journal of Psychiatric Research*, 41(3-4), 214-221. PMID: 16690084.
 13. Stephen R.Wisniewski, A.John Rush, **Balasubramani GK**, Madhukar H.Trivedi, Andrew A. Nierenberg for the STAR*D Investigators (2006): Self-Rated Global Measure of the frequency, intensity and burden of side effects. *Journal of Psychiatric Practice*, 12(2), 71-79. PMID: 16728903.
 14. Anthony Fabio, Rolf Loeber, **Balasubramani GK**, Jeffrey Roth, Wenjiang Fu, David Farrington, (2006): Why some generations are more violent than others: Assessment of age, period and cohort effects. *American Journal of Epidemiology*, 164(2), 151-160. PMID: 16775045.
 15. Cynthia A. Claassen, Madhukar H. Trivedi, A.John Rush, Mustafa M. Husain, Sidney Zisook, Elizabeth Young, Andrew Leuchter, Stephen R. Wisniewski, **Balasubramani GK**, Jonathan Alpert (2007): Clinical differences among depressed patients with and without a history of suicide attempts: Findings from the STAR*D trial. *Journal of Affective Disorder*, 97(1-3), 77-84. PMID: 16824617.

16. Lori L. Davis, Elizabeth Frazier, Mustafa M.Husain, Diane Warden, Madhukar H.Trivedi, Maurizio Fava, Paolo Cassano, Patrick J. McGrath, **Balasubramani GK**, Stephen R.Wisniewski, A.John Rush (2006): Substance use disorder comorbidity in major depressive disorder: A confirmatory analysis of the STAR*D cohort. *The American Journal on Addictions*, 15(4), 278-285. PMID: 16867922.
17. Maurizio Fava, A.John Rush, Jonathan E.Alpert, Cheryl N.Carmin, **Balasubramani GK**, Stephen R.Wisniewski, Madhukar H.Trivedi, Melanie M.Biggs, Kathy Shores-Wilson (2006): What Clinical and Symptom Features Comorbid Disorders Characterize Outpatients with Anxious Major Depressive Disorder: A Replication and Extension. *The Canadian Journal of Psychiatry*. 51(13), 823-835. PMID: 17195602.
18. Ian A.Cook, **Balasubramani GK**, Heather Eng, Edward Friedman, Young EA, Jeff Martin, William Nay, Louise Ritz, A. John Rush, Diane Stegman, Madhukar H. Trivedi Stephen R.Wisniewski (2007): Electronic source materials in clinical research: Acceptability and validity of symptom self-rating in depression. *Journal of Psychiatric Research*, 41(9), 737-743. PMID: 17275840.
19. Sidney Zisook, A.John Rush, Ira Lesser, Stephen R.Wisniewski, Madhukar H.Trivedi, Mustafa M.Husain, **Balasubramani GK**, Jonathan E. Alpert, Maurizio Fava (2007): Pre-adult onset vs. adult onset of major depression disorder: A replication study. *Acta Psychiatrica Scandinavica*, 115(3), 196-205. PMID: 17302619.
20. Bradley N. Gayens, A.John Rush, Madhukar H.Trivedi, Stephen R.Wisniewski, **Balasubramani GK**, Donald C. Spencer, Timothy Petersen, Michael Klinkman, Diane Warden, Linda Nicholas, Maurizio Fava (2007): Major Depressions in Primary care and Psychiatric care settings are minimally different: A cross-sectional analysis. *Annals of Family Medicine*, 5(2), 126-134. PMID: 17389536.
21. Ira M. Lesser, Andrew F. Leuchter, Madhukar H.Trivedi, Lori L.Davis, Stephen R.Wisniewski, **Balasubramani GK**, Maurizio Fava, A.John Rush (2007): Insured and non-insured depressed outpatients in public and private sectors: How do they compare? *Annals of Clinical Psychiatry*, 19(2), 73-82. PMID: 17612846. PMID: 17612846.
22. Diane Warden, Madhukar H. Trivedi, Stephen R. Wisniewski, Lori Davis, Andrew A. Nierenberg, Bradley N. Gaynes, Sidney Zisook, Steven D. Hollon, **Balasubramani GK**, Robert Howland, Maurizio Fava, Jonathan W. Stewart, A. John Rush (2007): Predictors of attrition during initial (Citalopram) treatment for depression: A STAR*D Report. *American Journal of Psychiatry*, 164(8), 1189-1197. PMID: 17671281.
23. Sidney Zisook, Ira Lesser, Jonathan W.Stewart, Stephen R.Wisniewski, **Balasubramani GK**, Maurizio Fava, William S. Gilmer, Timothy R. Dresselhaus, Michael E. Thase Andrew Nierenberg, Madhukar H. Trivedi, A.John Rush (2007): Effect of Age of onset on the course of major depressive disorder. *American Journal of Psychiatry*, 164(10), 1539-1546. PMID: 17898345.
24. David W. Morris, A.John Rush, Shailesh Jain, Maurizio Fava, Stephen R. Wisniewski, **Balasubramani GK**, Ahsan Y.Khan, Madhukar H. Trivedi (2007): Diurnal mood variation in outpatients with major depressive disorder: Implications for DSM-V, from an analysis of the Sequenced Treatment Alternatives to Relieve Depression Study Data. *Journal of Clinical Psychiatry*, 68(9), 1339-1347. PMID: 17915971.
25. Maurizio Fava, A.John Rush, Jonathan E.Alpert, **Balasubramani GK**, Stephen R.Wisniewski, Cheryl N.Carmin, Melanie M. Biggs, Sidney Zisook, Andrew Leuchter, Robert Howland, Diane Warden, Madhukar H.Trivedi (2008): Difference in treatment outcome in outpatients with anxious vs. non-anxious depression: A STAR*D report. *American Journal of Psychiatry*, 165(3), 342-351. PMID: 18172020.
26. Bradley N. Gaynes, A.John Rush, Madhukar H. Trivedi, Stephen R. Wisniewski, **Balasubramani GK**, Patrick McGrath, Michael Thase, Michael Klinkman, Andrew A. Nierenberg, William Yates, Maurizio Fava (2008): Primary vs. specialty care outcomes for depressed outpatients managed with measurement based care: Results from STAR*D. *Journal of General Internal Medicine*, 23(5), 551-560. PMID: 18247097.
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WORKING MANUSCRIPTS

US Influenza Study

1. Influenza vaccine effectiveness and factors associated with outcomes in hospitalized adult patients with chronic lung disease.
2. Hospitalization of high functioning adults for respiratory illness is associated with changes in mental status.
3. Propensity score matching method to estimate VE for hospitalized adults with influenza
4. Burden Comparison: Influenza vs. RSV vs. HMPV for the Hospitalized adult inpatient
5. Comparison of the influenza vaccine effectiveness in the United States residents with self-reported history of asthma and those with asthma history identified by ICD code.
6. Influenza vaccine effectiveness in the United States residents with smoking history with or without Asthma/COPD

Glaucoma Study

7. West Indies Glaucoma Laser Study (WIGLS)

GRADS Study

8. Race and clinical phenotypes of Sarcoidosis
9. Sarcoidosis Clinical descriptions and Clustering of Phenotypes
10. Chest CT clarifies Radiographic classification of thoracic sarcoidosis and predicts pulmonary physiology
11. Clinical descriptions and clustering of phenotypes among individuals with abnormal Alpha-1 antitrypsin genotypes from genomic research in Alpha-1 and Sarcoidosis (GRADS) study
12. Changes in Clinical Data over Time by Phenotype

ADAPT Study

13. Caloric Intake Analysis
14. Use hyperventilation therapy after traumatic brain injury: An analysis of ADAPT data set.

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26. BS Gill, S Beriwal, U Duvvuri, **Balasubramani GK**, DE Heron, DA Clump. External Beam Radiation Therapy (EBRT) for pT4-Differentiated Thyroid Carcinomas: A National Cancer Data Base (NCDB) Analysis. 2016, *International Journal of Radiation Oncology• Biology• Physics* 94 (4), 952.
27. SM Glaser, SF Mandish, BS Gill, **Balasubramani GK**, DA Clump, S Beriwal. Anaplastic Thyroid Cancer (ATC): Prognostic Factors, Patterns of Care, and Overall Survival. 2016, *International Journal of Radiation Oncology• Biology• Physics* 94 (4), 950-951

28. Vargo J, **Balasubramani GK**, Beriwal S. Alarming Rates of Omission or Inadequate Radiation Therapy in Extranodal Natural Killer T-cell Lymphoma Nasal Type in the United States. *Int J Radiat Oncol Biol Phys*. 2016 Oct 1;96(25):S164-S165. Doi: 10.1016/j.ijrobp.2016.06.415.
29. Bhavana V. Chapman, Beant S. Gill, Akila N. Viswanathan, **Balasubramani GK**, Paniti Sukumvanich, Sushil Beriwal: Adjuvant radiotherapy for margin-positive vulvar squamous cell carcinoma: Defining the ideal dose-response using the National Cancer Data. *International Journal of Radiation Oncology • Biology • Physics*.
30. ZD Horne, BJ Gebhardt, **Balasubramani G.K.**, Beriwal S. Utilization of post-mastectomy radiotherapy in women with 1-3 positive nodes following neoadjuvant chemotherapy: a multiply-imputed propensity adjusted National Cancer database analysis. *Cancer Research*, February 2015, Vol.77, issue 4 suppl., pp P1-10-01.
31. Vargo JA, **Balasubramani GK**, Beriwal S.: Treatment Selection and survival outcomes in Early-Stage Peripheral T-Cell Lymphomas: Does Anaplastic Lymphoma Kinase Mutation impact the benefit of Consolidate Radiation Therapy. *International Journal of Radiation Oncology*Biological*Physics*, October 2017, Vol.99, Issue 2, Number 25, S141.
32. Vargo JA, Ghareeb ER, **Balasubramani GK**, Beriwal S.: The impact of surgical modality on the benefit of Adjuvant radiation therapy for Merkel Cell Carcinoma. *International Journal of Radiation Oncology*Biological*Physics*, October 2017, Vol.99, Issue 2, E758-E759.
33. Dohopolski MJ, Glaser SM, Vargo JS, **Balasubramani GK**, Beriwal S.: Stereotactic body radiotherapy for locally advanced unresectable pancreatic cancer patterns of care and overall survival. *Journal of Gastrointestinal Oncology*, October 2017 Vol.8, issue 5, 766.
34. Tony Realini, Hazel Shillingford-Ricketts, Darra Burt, **Balasubramani G.K.** Efficacy of Repeat Selective Laser Trabeculoplasty in Afro-Caribbeans with Primary Open-Angle Glaucoma. *Investigative Ophthalmology and Visual Science*, 2018, Vol. 59, issue 9, 3458-3458.
35. Fernanda P. Silverira, Kailey L. Hughes, **Balasubramani GK**, Donald Middleton, Mary Patricia Nowalk, Emily T. Martin, Manjusha Gaglani, H. Keipp Talbot, Jill Ferdinands, Richard Zimmerman. Effective of Influenza vaccine for prevention of influenza associated hospitalizations among immunocompromised adults: 2017-2018. *Open Forum Infectious Diseases*, 2019. Oct 6(Suppl 2): S967.

Web Presentation

Respiratory Syntactical Virus (RSV) Burden Analysis for the adult inpatient Influenza Study, **Presented to the Influenza Researchers and the Infectious Division at the CDC, February 14, 2017**

Invited Talk, oral/poster presentation

1. **Balasubramani GK**, Wisniewski, SR. "A Simulation Study to Compare the Reproducibility index through Intraclass Correlation using One-Way Random Effects Model and Concordance Correlation Coefficient". Society for Clinical Trials, Arlington, VA, May 12-15, 2002.
2. **Balasubramani GK**, Hongwei Zhang, Wisniewski, SR. "An elegant SAS[®] Macro to perform permutation test for two independent samples", Society for Clinical Trials, New Orleans, Louisiana, May 23-25, 2004.
3. **Balasubramani GK**, Wisniewski, SR. "Use of auxiliary variables in Markov sampling for finite population". International Biometric Society, ENAR Spring Meeting, Pittsburgh, March 28-31, 2004.

4. **Balasubramani GK.** “Generalized estimating equations: Comparing subject specific model with population averaged models, Center for Injury Research, University of Pittsburgh, May 18, 2005. –Invited Talk.
5. **Balasubramani GK,** Wisniewski, SR. “Challenges of non-ignorable missing data in clinical trials: A pattern-mixture model approach”. International Biometric Society, ENAR Spring Meeting, Austin, Texas, March 20-23, 2005.
6. **Balasubramani GK,** Wisniewski, SR. “Comparison of multivariate strategies for the analysis of skewed psychometric data with many zeros”. ENAR spring meeting, Atlanta, Georgia, March 11-14, 2007.
7. **Balasubramani GK,** Wisniewski, SR. “Propensity score matching in outpatients with nonpsychotic major depressive disorder”, International Conference on New Horizons in Statistical Modeling and Applications, Chennai, India, February 27-28, 2015. – Invited Talk.
8. **Balasubramani GK,** Wisniewski, SR. A Model for estimating missing items score on self-reported psychometric scales – Joint Statistical Meeting, Chicago, Illinois, July 30- August 4, 2016. Accepted for Oral Presentation.
9. **Balasubramani GK.:** Nutritional Epidemiology- Understanding and role in public health research. *International conference on Innovative Food and Nutrition Technologies for Public Health Care*, Salem, India, January 4-5, 2018.
10. **Balasubramani GK,** Wisniewski SR.: Sample size and power calculations for ordinal outcome model with interaction effect. *International Conference on theory and applications of statistics and information sciences, Indian Society for Probability and Statistics (ISPS)*, Coimbatore, India, January 6-7, 2018.
11. **Balasubramani GK,** Wisniewski SR.: Estimating missing psychometric items score on self-reported psychometric scales using weighted means model. *International Conference on recent trends in stochastic modeling and its applications*, Tirunelveli, India, January 8-9, 2018.
12. **Balasubramani GK,** Nowalk MP, Clarke LG, Lyons JA, Dauer K, Silveira F, Middleton DB, Yassin M, Zimmerman RK. Using Capture-Recapture Methods to Estimate Local Influenza Hospitalization Incidence Rates. *National Foundations for Infectious Diseases Virtual Conference*, April 26-27, 2021.

Conference Presentations:

1. **Balasubramani GK,** Darra Burt, Hazel Shillingford-Ricketts, Tony Realini: West Indies Glaucoma Laser Study (WIGLS) 6: Factors Associated with 3-Year Treatment Success Using Selective Laser Trabeculoplasty in Afro-Caribbean Patients with Open-Angle Glaucoma. ARVO 2019, Vancouver, Canada, April 28-May 2, 2019.
2. Tony Realini, Darra Burt, Hazel Shillingford-Ricketts, **Balasubramani GK:** West Indies Glaucoma Laser Study (WIGLS) 7: clinical Outcomes following Selective Laser Trabeculoplasty in Afro-Caribbean Glaucoma Patients at High Risk for Progression. ARVO 2019, Vancouver, Canada, April 28-May 2, 2019.
3. Brian McMillan, Eva DeVience, Ronald Gross, Jad Ramadan, **Balasubramani GK,** Tony Realini: Comparison of Intraocular Pressure Measurement Variability with Goldmann and iCare Tonometry. ARVO 2019, Vancouver, Canada, April 28-May 2, 2019.

4. Mary Patricia Nowalk, **Balasubramani GK**, Emily Bobyock, Theresa M. Sax, Richard K. Zimmerman: Influenza Vaccine Effectiveness among Outpatients in Pittsburgh: Combined Results from Five Seasons of the US Flu Vaccine Effectiveness Network 2011-2016. National Adult and Influenza Immunization Summit, Atlanta, May 14-16, 2019.
5. **Balasubramani GK**, Mary Patricia Nowalk, Theresa M. Sax, Sean Saul, Richard K. Zimmerman: Influenza vaccine effectiveness and factors associated with outcomes in hospitalized adult patients with chronic lung disease. The 10th Editions of Options for the control of Influenza, Singapore, August 28 – September 1, 2019.
6. Mary Patricia Nowalk, **Balasubramani GK**, Theresa M. Sax, Heather Eng, Sean Saul, Michael Susick, Richard K. Zimmerman: Hospitalization of high functioning adults for respiratory illness is associated with changes in mental status. The 10th Editions of Options for the control of Influenza, Singapore, August 28 – September 1, 2019.
7. Robyn Domsic, Maureen M. Laffoon, **Balasubramani GK**, Thomas Medsger, Robert Lafyatis, Wisniewski S.R.: The Effect of Atorvastatin on microvascular endothelial function and Raynaud phenomenon in early diffuse scleroderma: Results of the TAMER study. American College of Rheumatology, November 8-13, 2019, Atlanta, GA.
8. Fernanda Silveira, Kailey Huges, **Balasubramani GK**, Middleton D, Nowalk MP, Martin ET, Gaglani M, Talbot HK, Ferdinands J, Zimmerman RK: Effectiveness of Influenza Vaccine for prevention of influenza associated hospitalizations among Immunocompromised adults- 2017-2018. ID Week, October 2-6, 2019, Washington DC.
9. Importance of Clinical Trials: Statisticians Starring role- Workshop on Recent trends in Stochastic Modelling and its Applications (IWRTSMA 2020). Organized by the Department of Statistics, Manonmaniam Sundaranar University, Tirunelveli, India January 9-11, 2020.

Conference Session Chair

Chaired ‘Design and Analysis in Clinical and Hybrid Research’, with the ‘Mental Health Statistics Section’ at the Joint Statistical Meeting held at Chicago July 30- August 4, 2016.

Workshop Organized

- National Workshop on “Bayesian Analysis and Big Data Analytics”, Bharathiar University, Coimbatore, India, January 3, 2018. Jointly with Dr. Anbupalam from University of South Wales, Australia.
- International Workshop on “Spline Regression, Cluster, CART and Meta-Analysis using R and SAS”, Sowdeswari College, Salem, India, January 4, 2018. Jointly with Dr. Anbupalam from University of South Wales, Australia.

Other conference presentations

1. Impact of Adjuvant Radiotherapy and Chemotherapy on Stage I-II Clear Cell Endometrial Carcinoma: A National Cancer Data Base (NCDB) Analysis – 57th American Society for Therapeutic Radiology and Oncology (ASTRO), San Antonio, TX, October 18-21, 2015.
2. Impact of Adjuvant Radiotherapy and Chemotherapy on Stage I-II Clear Cell Endometrial Carcinoma: A National Cancer Data Base (NCDB) Analysis – 57th American Society for Therapeutic Radiology and Oncology (ASTRO), San Antonio, TX, October 18-21, 2015.
3. External beam radiotherapy (EBRT) for pT4 differentiated thyroid carcinomas: A National Cancer Data Base (NCDB) analysis – American Head and Neck Society Symposium, Scottsdale, Arizona, February 18-20, 2016.
4. Validation of proposed AJCC/UICC TNM restaging of HPV positive oropharyngeal carcinomas – American Head and Neck Society Symposium, Scottsdale, Arizona, February 18-20, 2016.
5. Early Nutritional Support is Associated with Favorable Outcome in Pediatric Traumatic Brain Injury – 45th Society for Critical Care Medicine, Orlando, FL, February 20-24, 2016.
6. Underutilization of Radiotherapy in Early-Stage Marginal Zone Lymphoma”, oral presentation at ACRO 2016, March 17, 2016, Orlando, FL.
7. Predicting Influenza in Primary Care Using Classification and Regression Tree Analysis (CART) – the National Foundation for Infectious Diseases, 19th Annual Conference on Vaccine Research, April 18-20,2016, Baltimore, Maryland.
8. Development of a Stochastic Model using Setting the Clock Back to Zero (SCBZ) for expected time to seroconversion under correlated inter-contact times- Joint Statistical Meeting, Chicago, Illinois, July 30- August 4, 2016.
9. Implication of adjuvant radiotherapy and dose-response relationship for margin-positive vulvar squamous cell carcinoma – American Society for Therapeutic Radiology and Oncology (ASTRO), Boston, Massachusetts, September 25-28, 2016. Accepted for Oral Presentation.
10. Adjuvant radiation therapy (RT) with or without chemotherapy in resected high-risk salivary gland malignancies (SGM): A National Cancer Data Base (NCDB) analysis- American Society for Therapeutic Radiology and Oncology (ASTRO), Boston, Massachusetts, September 25-28, 2016.
11. Glioblastoma Multiforme (GBM) in the Elderly: Initial Treatment Strategy and Overall Survival carcinoma – American Society for Therapeutic Radiology and Oncology (ASTRO), Boston, Massachusetts, September 25-28, 2016.
12. Adult Ependymoma (AE) patients: P Practice patterns and overall survival – American Society for Therapeutic Radiology and Oncology (ASTRO), Boston, Massachusetts, September 25-28, 2016.
13. National patterns of care and outcomes of oropharyngeal squamous cell carcinomas in patients over 70 – 16th Conference of the International Society of Geriatric Oncology – SIOG 2016 to be held in Milan, Italy from November 17 to 19, 2016
14. The Cost of Prostate Cancer Treatment by Initial Treatment Strategy within an Integrated Delivery System – Western Section of the American Urological Association, Kauai, Hawaii, October 23-28, 2016.
15. Tony Realini, Hazel Shillingford-Ricketts, Darra Burt, **Balasubramani G.K.**: West Indies Glaucoma Laser study (WIGLS). The Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO), May 7-11, 2017. Baltimore, Maryland.

16. Patterson KC, Gibson KF, **Balasubramani GK**, Gulati M, Hamzeh NY, Moller DR, O'Neal S, Strange CB, Wisniewski SR, Koth LL on behalf of the GRADS: Sarcoidosis clinical descriptions and clustering of phenotypes from the genomic research in Alpha-1 antitrypsin and Sarcoidosis (GRADS) study. ATS International Conference. May 19-24, 2017, Washington, DC.
17. Andy Levy, Koth LL, **Balasubramani GK**: Race and clinical Phenotypes of Sarcoidosis. ATS International Conference. May 19-24, 2017, Washington, DC.
18. Adult Ependymoma: Practice patterns and overall survival – American Society for Therapeutic Radiology and Oncology (ASTRO), 2017.
19. Impact of Race on Sarcoidosis Phenotypes – American Thoracic Society International conference, Washington DC, May 19-24, 2017.
20. Sarcoidosis Clinical Descriptions and Clustering of Phenotypes- American Thoracic Society International conference, Washington DC, May 19-24, 2017
21. Scott M. Glaser, Dante R. Bongiorno, **Balasubramani GK**, Mark S. Roberts, Bruce L. Jacobs Sushil Beriwal, Dwight E. Heron, Joel S. Greenberger: Multimodality Evaluation of Global Healthcare Spending for Prostate Cancer Patients within an Integrated Delivery and Finance System (IDFS)
22. Scott M Glaser, Michael J Dohopolski, **Balasubramani GK**, John C Flickinger, Sushil Beriwal: Glioblastoma (GBM) in the Elderly: Radiotherapy Fractionation with Concurrent Single Agent Chemotherapy –2017 ACRO Conference.
23. John A. Vargo, Scott M Glaser, **Balasubramani GK**, Sushil Beriwal: Does Radiation alone remain an appropriate treatment strategy in NK T-Cell Lymphoma Nasal type? – 2017 ACRO Conference.
24. John A. Vargo, Erica R Ghareeb, **Balasubramani GK**, Sushil Beriwal: The Impact of Surgical Modality on the Benefit of Adjuvant Radiotherapy for Merkel Cell Carcinoma. 2017 ACRO Conference.
25. John A. Vargo, **Balasubramani GK**, Sushil Beriwal: Treatment selection and survival outcomes in Early-stage peripheral T-Cell Lymphomas: Does Anaplastic Lymphoma Kinase Mutation Impact the benefit of consolidative Radiotherapy? 2017 NCDB ASTRO Conference.
26. Courtney Strickland, Erin McSpadden, Elif Alyanak, Emily T. Martin, H. Keipp Talbot, Richard Zimmerman, **Balasubramani GK**, Manjusha Gaglani, Alicia M. Fry, and Jill M. Ferdinands: Predictors of Clinical Respiratory Virus Testing Among Adults Hospitalized with Acute Respiratory Illness (ARI) (2015-16). IDWeek, SanDiego, October, 2017.
27. Realini Tony, Shillingford-Ricketts Hazel, Burt Darra, **Balasubramani GK**: Efficacy of Repeat Selective Laser Trabeculoplasty in Afro-Caribbeans with Primary Open-Angle Glaucoma. **ARVO**, Honolulu, April 28 – May 03, 2018.
28. Mary Patricia Nowalk, **Balasubramani G.K.**, Richard K. Zimmerman, Theresa Sax, Heather Eng, Michael Susick, Samantha E. Ford: influenza vaccine intention after a medically-attended acute respiratory infection. **2018 National Adult and Influenza Immunization Summit**, Atlanta, May 17-18, 2018.
29. Realini Tony, **Balasubramani GK**: Post-treatment inflammation following selective laser trabeculoplasty in Afro-Caribbeans with primary open-angle glaucoma. **13th European Glaucoma Society Congress**, Florence, Italy, May 19 – 22, 2018.

30. Realini Tony, **Balasubramani GK**: Long-Term Changes in the Crystalline Lens following Selective Laser Trabeculoplasty in Afro-Caribbeans with Primary open angle Glaucoma. **World Ophthalmology Congress**, Barcelona, June 16-19, 2018.
31. Lindsay Kim, Jill Ferdinands, Arnold S. Monto, Richard K. Zimmerman, Manjusha J. Gaglani, Keipp Talbot, Emily T. Martin, **Balasubramani G.K.**, Kempapura Murthy, Bryanna Cikesh, Elif Alyanak, Susan I. Gerber, Gayle Langley: Epidemiology of Respiratory Syncytial Virus (RSV) among hospitalized Adults-United States, 2017-2018. **11th International RSV Symposium**, Asheville, North Carolina, Oct.31-Nov.4, 2018.

NIH -Review Panel

- Member in Clinical Research and Field Studies (CRFS) Study Section
- Member in NIH-review panel “Infectious Diseases Clinical Research and Field Studies for SARS-CoV-2 Applications” as part of the ECR program.

Member in NIH-review panel “Infectious Diseases Clinical Research and Field Studies for SARS-CoV-2 Applications” as part of the ECR program.

The review panel “Infectious Diseases Clinical Research and Field Studies” is an expansion of the Clinical Research and Field Studies (CRFS) study section as NIH received too many applications to be handled by a single CRFS meeting. The meeting contains a mixture of R01s and small grant applications in which the number of R21 applications predominates. Although most applications in this meeting focuses on the development of novel diagnostic procedures, mostly on SARS-Cov2, there are applications involving other SRAS-Cov2 topics as well as applications addressing other viruses and bacterial pathogens, and a few other applications dealing with fungal and parasitic pathogens. I will be a member expert for epidemiology for the review of the applications.

Editorial Board / Journal Reviewer

Journal Name	Position	Period
Computer Methods and Programs in Bio-Medicine	Reviewer	2006-Present
Expert Review of Pharmacoeconomics and Outcomes Research	Reviewer	2015-Present
Influenza and Other Respiratory Viruses	Reviewer	2015-Present
Journal of Clinical Oncology	Reviewer	2017-Present
Expert Opinion On Drug Discovery	Reviewer	2019-Present
PLOS one	Reviewer	2019-Present
Journal of Clinical Medicine	Reviewer	2020-Present

Professional Membership

Society	Status	Period
Indian Society for Probability and Statistics (ISPS)	Life Member	1990-Present
Infectious Disease Society of America (IDSA)	Member	2017-Present
Association of Research in Vision and Ophthalmology (ARVO)	Member	2018-Present
International Society for Influenza and other Respiratory Virus Diseases	Board Member	2019-Present
International Society for Infectious Diseases (ISID)	Member	2019-Present
Eastern North American Society, Biometric Society (ENAR)	Member	2001-2012
Society for Clinical Trials (SCT)	Member	2011-2012
American Statistical Association (ASA)	Member	2001-2016

Advisory Member – Data/Observational Safety and Monitoring (DSMB/OSMB) Board

Study	Period
1. NHLBI study on Translational Evaluation of Aging and Lung Disease in HIV (TEAL) Study. To evaluate the progress of the study.	2014 to present
2. Longitudinal Evaluation of HIV-associated Lung Disease Phenotypes. Evaluate the Progress of the study.	2014 to present
3. Adiposity and Airway Inflammation in HIV-Associated Airway Disease.	2016 present
4. NIH -Oral Nitrite in patients with pulmonary hypertension and heart failure with preserved ejection fraction (PH-HfpEF)	2017 present
5. NIH -Phase 2 Open-Label Study of safety and Efficacy Trial of CXA-10 in Pulmonary Arterial Hypertension.	2019-Present
6. NIH-PMED (An Open Label Study of Oral Nitrate in Adults with Pulmonary Hypertension with Heart Failure and Preserved Ejection Fraction and Normal Healthy Adults)	July 2020-Present
7. NIH- A Randomized trial of chlorhexidine mouthwash and oral nitrate in adults with pulmonary hypertension (GARGLE).	July 2020-Present
8. NIH/NIAID: A Phase I Study to Evaluate the Safety, Tolerability, and Immunogenicity of a Therapeutic HIV Vaccine Composed of Autologous Dendritic Cells Loaded with Autologous Inactivated Whole Virus or Conserved Peptides in ART-treated, HIV-infected Adults (DC-HIV 04).	2018 - Present
9. Study of Tranexamic Acid during Air Medical Prehospital transport (STAAMP) Trial Phase 3 Multi-center, Prospective, Randomized, Double Blinded, Controlled Interventional Trial.	2016 - Present
10. NIH/NICHHD Study on ‘The NICU Antibiotics and Outcomes Trial (NANO)’.	2019 - Present

Research Papers Reviewed

Date Reviewed	Journal name	Title of the Paper Reviewed
07.01.2015	<i>Expert Review of Pharmacoeconomics and Outcomes Research</i>	Prevalence, Awareness, and Burden of Major Depressive Disorder in Urban China
07.13.2015	<i>Influenza and Other Respiratory Viruses</i>	Pacific Rim influenza: Virus Surveillance Using RT-PCR Mass Spectrometry
02.08.2016	<i>Journal of Infection and Public health</i>	Bacterial Resistance and Immunological Profiles in HIV Infected and non-Infected Patients at Mbouda AD LUCEM Hospital in Cameroon
03.02.2016	<i>Journal of Infection and Public health</i>	Revised submission of the above paper
02.15.2016	<i>Pediatrics</i>	Major depressive Disorder in Canadian School-Aged Children: Rare Disorder or rarely detected?
03.09.2016	<i>Journal of Infection and Public health</i>	Service providers' perspectives and experience on sexual and reproductive health needs of HIV positive young adults in Udupi district, Karnataka: A Qualitative Study
07.05.2016	<i>Advances in Medicine</i>	A study of blood biomarkers and its predictive value in treatment resistant depression
07.08.2016	<i>Children and Youth Services</i>	Effectiveness of a cross-sectorial differential model of services in reducing emotional and behavioral difficulties in school-aged children at risk of familial abuse and neglect Children and Youth Services Review
09.09.2016	<i>Expert Review of Pharmacoeconomics & Outcomes Research</i>	Conducting Patient Interviews Within a Clinical Trial Setting
11.08.2017	<i>Therapeutics & Clinical Risk Management</i>	Clinical and chest X-ray studies on influenza B Virus-associated neonatal pneumonia
12.14.2017	<i>Journal of clinical Oncology</i>	Efficacy and Safety of Nivolumab and Nivolumab plus Ipillimumab in patients with Metastatic Esophagogastric Cancer
02.28.2018	<i>Journal of Clinical Oncology</i>	Treatment related adverse events in African American Cancer patients with sickle cell trait Inherited Hemoglobinopathies in a SEER-Medicare claims cohort
03.14.2018	<i>Journal of clinical Oncology</i>	Second, Revised review of the "Efficacy and Safety of Nivolumab and Nivolumab plus Ipillimumab in patients with Metastatic Esophagogastric Cancer
04.24.2018	<i>Journal of Clinical Oncology</i>	Development and external validation of a CT radiomic nomogram for preoperative N staging in patients with advanced gastric cancer: a five-center analysis of tumor habitats
05.09.2018	<i>Journal of clinical Oncology</i>	Third, Revised review of the "Efficacy and Safety of Nivolumab and Nivolumab plus Ipillimumab in patients with Metastatic Esophagogastric

06.18.2019	<i>Journal of clinical Oncology</i>	Cancer Effect of Exercise Therapy Dosing Schedule on Impaired Cardiovascular Function in Patients with Operable Breast Cancer: A Randomized Clinical Trial.
08.11.2020	<i>Journal of Clinical Oncology</i>	B7H3-directed Intraperitoneal Radioimmunotherapy with Radioiodinated Omburtamab for Desmoplastic Small Round Cell Tumor and other Peritoneal Tumors: Results of a Phase I Study.
08.27.2020	<i>Expert Opinion On Drug Discovery</i>	Are long-term influenza vaccines possible and how do we discover them?
09.29.2020	<i>Computer Methods and Programs in Bio-Medicine</i>	The Prediction of Influenza-Like Illness and Respiratory Disease Using LSTM and ARIMA
12.23.2020 01.04.2021	<i>Journal of clinical Medicine</i> <i>Journal of Clinical Oncology</i>	Glaucoma management: An updated Review Assessment of long-term survival benefits in immunology vs non-immunology agents approved by the FDA: a pooled-analysis of randomized controlled trials
01.26.2021	<i>PLOS One</i>	Effectiveness of influenza vaccination in preventing severe laboratory-confirmed influenza-related illness in patients admitted to a tertiary hospital in Catalonia (Spain) during the 2018-2019 epidemic season.

Mentorship

Serving as a Mentor for Emily Bobyock for MPH Essay Advisor – Fall 2018

Project Title: ***“Influenza Vaccine Effectiveness among Outpatients: Combined Results from Five seasons of US Flu VE Network Study 2011-2016”***- University of Pittsburgh, Institutional Review Board approved PRO18040144.

OTHER ACTIVITIES

- GSPH Dean’s Day Judge: Participated and Judged Graduate Student Research presentation on April 07, 2017, GSPH, University of Pittsburgh.
- GSPH Dean’s Day Judge: Participated and Judged Graduate Student Research presentation on April 03, 2019, GSPH, University of Pittsburgh.
- Served as Judge for the Annual UPPDA Postdoctoral Data and Dine Symposium, May 16, 2017; 5:00 – 7:00 PM at O’Hara Student Center.

STUDY MEETINGS ATTENDED

Influenza Study

Hospitalized Adult Influenza Vaccine Effectiveness Network (HAIVEN) Study 2016 Annual Meeting, July 11-13, 2016 at Ann Arbor, MI

Outpatient Vaccine Effectiveness for seasonal Flu, pandemic Flu and RSV in a large, diverse Network, Annual Meeting at the CDC, August 29-31, 2016 at Atlanta, GA.

New Vaccine Surveillance Network, First Study Meeting at CDC, October 19-20, 2016, Atlanta, GA.

New Vaccine Surveillance Network, Second Study Meeting at Seattle Children Research Center, August 23-25, 2017, Seattle, WA

ID Week: ID week meeting, Convention Center, San Diego, October 4-8, 2017

Glaucoma Study: The Association for Research in Vision and Ophthalmology (ARVO) Meeting, Convention center, Honolulu, Hawaii, April 29 – May 03, 2018

Urology Study: Urology Program Director's Meeting, NIH, December 7-9, 2016, Asilomar Conference Grounds, Pacific Grove, CA

Workshop Attended

- Faculty workshop on “Designing Courses using essential questions”, July 25, 2016 9-12:00 noon, University of Pittsburgh, Alumni Hall B-26.

The objective of the course is: identify the characteristics of essential questions; distinguish between overarching and topical essential questions and their functions; utilize design tools for developing essential questions; sequence a basic learning plan to address the essential questions; map essential questions to forms of assessment.

- Sense about Science: Scientifically Speaking, November 18, 2016: 8:00 – 12:00 PM, S100 Starz Biomedical Science Tower, University of Pittsburgh.
- Workshop on “Modeling the Opioid Epidemic”, October 02, 2017 8:00- 5:00 PM, University of Pittsburgh, University Club.
- Workshop on “Innovations in informed Consent and Recruitment”, September 29, 2017, CTSI, University of Pittsburgh.

LEADERSHIP PROGRAM: (Leadership Academy for Early Career Faculty)

- The year-long professional development program highlighted various features of leadership relevant to faculty in the health sciences.

- The topics we gained experience includes: Shared Leadership, Mentoring, Conflict Management, Negotiation, and Unconscious bias.

UNIVERSITY SERVICE:

Member – University Senate Faculty Assembly, representing the School of Public Health 2018-
 Member - University Senate Benefits and Welfare Committee Meeting 2015-

Meeting Date	Main Topic Discussed	Speakers
09.20.2016	Update on Retirement Plans by TIAA	Jay Mahoney, & Linda G. Pasquini Field Consulting Group
10.26.2016	Benefits and Retirements	University Benefits Office
09.20.2017	Retirement oversite committee presentation	John Kozar
11.08.2017	Comprehensive Medication Management	Luke Berenbrock, Val Jamison
12.06.2017	Education Benefits	John Kozar
01.23.2018	Ways to feel good while working at Pitt	Dr. Ron Glick, Director, Center for Integrative Medicine

Community Service activities

Boy Scouts Troop 36, Franklin Park, PA 2012-2014
 Helping out the boy scouts during the weekly meeting and assisting the scout masters for various activities.

Pittsburgh Cricket Association, Pittsburgh, PA 2013-2015
 Coaching the Youth Cricket ball game

SV Temple, Pittsburgh 2006 to present
 Volunteer, served in the Executive committee, Board of Directors of the organization and Treasurer

Administrative Experience

Research Officer, Tamil Nadu State Council for Higher Education, Chennai, India 1998-2000
 Identified training needs and conducted training activities for College and University teachers
 Assisted in the implementation and co-ordination of Higher Educational Programs viz., organizing seminars and symposia.

External Examiner for Ph.D. Thesis

Date	Thesis Title	University
12.15.2017	Point and Interval Estimation in Reliability – An Order Statistics Approach	Mother Teresa Women’s University, Kodaikanal, Tamil Nadu, India
01.24.2018	Statistical Study on the efficiency of Generalized linear model for the Determinants of child mortality in India	University of Madras, Tamil Nadu, India
11.02.2020	Machine Learning based Novel approaches for modeling high dimensional biological databases	University of Madras, Tamil Nadu, India
02.01.2021	An assessment of multi-hazard vulnerability and disaster resilient communities in greater Chennai, Tamil Nadu, India	University of Madras, Tamil Nadu, India