

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-to present	Assistant 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 seven 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.

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

Grants Application: (Submitted to NEI)

Title: African Glaucoma Laser Trial (AGLT)

Agency: NEI Collaborative Clinical Vision Research Project- UG1

Role: PI- Data Coordinating Center

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.

Grants

Ongoing Research Support

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

R01 EY023620: Role: Principal Investigator

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.

George M. O'Brien Cooperative Research Centers Program

NIDDK – Role: Co-Investigator

07/01/2016 – 06/30/2021

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

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

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

08/01/2015 – 07/31/2020

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: Principal 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.

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

U01IP001035: CDC NCIRD – Role: Principal Investigator- Data Coordinating Center
08/01/2016 – 07/31/2021

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.

Completed Research Support

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

HI-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.
27. Sheila M. Marcus, Kevin B. Kerber, A. John Rush, Stephen R. Wisniewski, Andrew A. Nierenberg, **Balasubramani GK**, Louise Ritz, Susan Kornstein, Elizabeth A. Young, Madhukar H. Trivedi (2008): Sex differences in depression symptoms in treatment seeking adults: confirmatory analyses from the Sequenced Treatment Alternatives to Relieve Depression study. *Comprehensive Psychiatry*, 49(3), 238-246. PMID: 18396182.
 28. Diane Warden, A. John Rush, Stephen R. Wisniewski, Ira M. Lesser, Susan G. Kornstein, **Balasubramani GK**, Michael E. Thase, Sheldon H. Preskorn, Andrew A. Nierenberg, Elizabeth A. Young, Kathy Shores-Wilson, Madhukar H. Trivedi (2008): What predicts attrition in second step medication treatments for depression? A STAR*D Report. *The International Journal of Neuropsychopharmacology*, 1-15. PMID: 18611293.
 29. Elizabeth A. Young, Susan G. Kornstein, Sheila M. Marcus, Anne T. Harvey, Diane Warden, Stephen R. Wisniewski, **Balasubramani GK**, Maurizio Fava, Madhukar H. Trivedi, A. John Rush (2009): Sex differences in response to Citalopram: A STAR*D Report. *Journal of Psychiatric Research*, 43(5), 503-511. PMID: 18752809.
 30. Robert H. Howland, A. John Rush, Stephen R. Wisniewski, Madhukar H. Trivedi, Diane Warden, Maurizio Fava, Lori L. Davis, **Balasubramani GK**, Patrick McGrath, Susan R. Berman (2009): Concurrent anxiety and substance use disorders among outpatients with major depression: Clinical features and effect on treatment outcome. *Drug and Alcohol Dependence*, 99, 248-260. PMID: 18986774.
 31. Mustafa M. Husain, A. John Rush, Stephen R. Wisniewski, Shawn M. McClintock, Maurizio Fava, Andrew A. Nierenberg, Lori Davis, **Balasubramani GK**, Elizabeth Young, A. Ari Abala, Madhukar H. Trivedi (2009): Family history of depression and Therapeutic outcome: Findings from STAR*D. *Journal of Clinical Psychiatry*, 70(2), 185-195. PMID: 19192454.
 32. David W. Morris, Madhukar H. Trivedi, Maurizio Fava, Stephen R. Wisniewski, **Balasubramani GK**, Ahsan Y. Khan, Shailesh Jain, A. John Rush (2009): Diurnal mood variation in outpatients with major depressive disorder. *Depression and Anxiety*, 26(9):851-863.
 33. Jonathan W. Stewart, Patrick J. McGrath, Maurizio Fava, Stephen R. Wisniewski, Sidney Zisook, Ian Cook, Andrew A. Nierenberg, Madhukar H. Trivedi, **Balasubramani GK**, Diane Warden, Ira Lesser, A. John Rush (2010): Do atypical features affect outcome in depressed outpatients treated with Citalopram? *International Journal of Neuropsychopharmacology*, 13(1):15-30.
 34. Edward S. Friedman, Stephen R. Wisniewski, William Gilmer, Andrew Nierenberg, A. John Rush, Maurizio Fava, Sidney Zisook, **Balasubramani GK**, Madhukar H. Trivedi (2009): Sociodemographic and clinical and treatment characteristics associated with worsened depression during treatment with Citalopram: Results of the NIMH STAR*D trial. *Depression and Anxiety*, 26(7): 612-621.
 35. Diane Warden, A. John Rush, Stephen R. Wisniewski, Ira M. Lesser, Michael E. Thase, **Balasubramani GK**, Kathy Shores-Wilson, Andrew A. Nierenberg, Madhukar H. Trivedi (2009): Income and attrition in the treatment of depression: A STAR*D Report. *Depression and Anxiety*, 26(7): 622-633.
 36. Diane Warden, Madhukar H. Trivedi, Stephen R. Wisniewski, Ira M. Lesser, Jeff Mitchell, **Balasubramani GK**, Maurizio Fava, Kathy Shores-Wilson, Diane Stegman, A. John Rush (2009): Identifying Risk for attrition during treatment for depression. *Psychotherapy and Psychosomatics*, 78(6):372-379.
 37. Richard C. Shelton, Steve D. Hollon, Stephen R. Wisniewski, Jonathan E. Alpert, **Balasubramani GK**, Edward S. Friedman, A. John Rush, Madhukar H. Trivedi, Sheldon H. Preskorn (2009): Factors

associated with concomitant psychotropic drug use in the treatment of major depression: A STAR*D report. *CNS Spectrum*, 14(9): 487-498.

38. Lori L. Davis, Stephen R. Wisniewski, Robert H. Howland, Madhukar H. Trivedi, Mustafa M. Husain, Maurizio Fava, Patrick J. McGrath, **Balasubramani GK**, Diane Warden, A. John Rush (2010): Does Comorbid Substance Use Disorder Impair Recovery from Major Depression with SSRI Treatment? An Analysis of the STAR*D Level One Treatment Outcomes. *Drug and Alcohol Dependence*, 107: 161-170.
39. Charlene Bryan, Thomas Songer, Maria Mori Brooks, Michael E. Thase, Bradley Gaynes, Michael Klinkman, **Balasubramani GK**, A. John Rush, Madhukar H. Trivedi, Maurizio Fava, Stephen R. Wisniewski (2009). Do depressed patients with diabetes experience more side effects when treated with Citalopram than their counterparts without diabetes? A STAR*D study. *The Primary Care Companion of the Journal of Clinical Psychiatry*, 11(5):186-196.
40. Charlene Bryan, Thomas Songer, Maria Mori Brooks, A. John Rush, Michael E. Thase, Bradley Gaynes, **Balasubramani GK**, Madhukar H. Trivedi, Maurizio Fava, Stephen R. Wisniewski (2010), The impact of diabetes on depression treatment outcomes. *General Hospital Psychiatry*, 32(1): 33-41.
41. Wang HE, **Balasubramani GK**, Cook LJ, Lave JR, Yealy DM (2010): Out-of-Hospital Endotracheal Intubation Experience and Patient Outcomes. *Annals of Emergency Medicine*, 55(6): 527-537. E6.
42. Balasubramani M, Schreiber EM, Candiello J, **Balasubramani GK**, Kurtz J, Halfter W. (2010): Molecular interactions in the retinal basement membrane system: A proteomic approach. *Matrix Biology*, 29(6): 471-483.
43. Wang HE, **Balasubramani GK**, Cook LJ, Lave JR, Yealy DM (2011): Medical Conditions associated with out-of-hospital endotracheal intubation. *Prehospital Emergency Care*, 15: 338-346.
44. Rush AJ, Wisniewski SR, Zisook S, Fava M, Sung SC, Haley CL, Chan HN, Gilmer WS, Warden D, Nierenberg AA, **Balasubramani GK**, Gaynes BN, Trivedi MH, Hollon SD.(2012): Is prior course of illness relevant to acute or longer-term outcomes in depressed out-patients? A STAR*D report. *Psychological Medicine*, 42(6):1131-49. PMID:22008447
45. Chan HN, Rush AJ, Nierenberg AA, Trivedi M, Wisniewski SR, **Balasubramani GK**, Friedman ES, Gaynes BN, Davis L, Morris D, Fava M.(2012): Correlates and outcomes of depressed out-patients with greater and fewer anxious symptoms: a CO-MED report. *International Journal of Neuropsychopharmacology*, 15(10):1387-99. PMID:22129562
46. Davis LL, Pilkinton P, Wisniewski SR, Trivedi MH, Gaynes BN, Howland RH, Zisook S, **Balasubramani GK**, Fava M, Rush AJ.(2012): Effect of concurrent substance use disorder on the effectiveness of single and combination antidepressant medications for the treatment of major depression: an exploratory analysis of a single-blind randomized trial. *Depression and Anxiety*, 29(2):111-22. PMID:22495941
47. Farabaugh A, Alpert J, Wisniewski SR, Otto MW, Fava M, Baer L, Perlis R, Friedman E, Nyer M, Bitran S, **Balasubramani GK**, Inamori A, Trivedi M, Thase ME.(2012): Cognitive therapy for anxious depression in STAR*D: What have we learned?. *Journal of Affective Disorders*, 142(1-3):213-8. PMID:22877961.
48. Sung SC, Wisniewski SR, **Balasubramani GK**, Zisook S, Kurian B, Warden D, Trivedi MH, Rush AJ.(2012): Does early-onset chronic or recurrent major depression impact outcomes with antidepressant medications? A CO-MED Trial Report. *Psychological Medicine*, Dec.11:1-16. PMID: 23228340.
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Book Chapters

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- Karen C. Patterson, Kevin F. Gibson, **Balasubramani GK**, Mirudu Gulati, Nabeel Y. Hamzeh, David R. Moller, Scott O'Neal, Charlie B. Strange, Wisniewski, S.R., Laura L. Koth. Sarcoidosis descriptions and clustering of phenotypes. *Sarcoidosis: Clinical studies on diagnosis, prognosis and Therapy-Book*, American Thoracic Society, A4767-A4767.

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- Fernanda P. Silveira, Melissa Saul, Mary Patricia Nowalk, Sean Saul, Theresa Sax, Heather Eng, Richard K. Zimmerman, **Balasubramani GK**: Determination of Eligibility in Influenza Research: A Clinical Informatics Approach. *Open Forum of Infectious Disease*.
- Tony Realini, Hazel Shillingford, -Ricketts, Darra Burt, **Balasubramani GK**: West Indies Glaucoma Laser Study (WIGLS) 4. Crystalline Lens Changes following Selective Laser Trabeculoplasty in Afro-Caribbeans with Open-Angle Glaucoma. *Journal of Cataract and Refractive Surgery*.
- Feng Li, Laura E. Pascal, Donna B. Stolz, Ke Wang, Yibin Zhou, Wei Chen, Yadong Xu, Yule Chen, Rajiv Dhir, Anil V. Parwani, Joel B. Nelson, Donald B. DeFranco, Naoki Yoshimura, **Balasubramani GK**, Jeffrey R. Gingrich, Jodi K. Maranchie, Bruce L. Jacobs, Benjamin J. Davies, Ronald L. Hrebinko, Joel D. Bigley, Dawn McBride, Peng Guo, Dalin He, and Zhou Wang: E-cadherin is

down-regulated in benign prostate hyperplasia and required for tight junction formation and permeability barrier in prostatic epithelial cell monolayer. *The Prostate Journal*.

Submitted for Publication

1. Nahmah Kim-Campbell, Catherine Gretchen, Vladimir B Ritov, Patrick M. Kochanek, **Balasubramani GK**, Elizabeth Kenny, Mahesh Sharma, Melita Viegas, Clifton Callaway, Valerian E. Kagan, Hülya Bayir. Bioactive oxylipins in infants and children with congenital heart disease undergoing pediatric cardiopulmonary bypass. *Pediatric Critical Care Medicine*.
2. Emily Bobyock, **Balasubramani GK**, Mary Patricia Nowalk, 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. **Influenza and Other Respiratory Viruses**.
3. Michael E. Thase, Paul McCrone, Marna S. Barrett, Tracy D. Eells, Wisniewski SR, **Balasubramani GK**, Gregory K. Brown, Jesse H. Wright: Improving the Cost-Effectiveness of Psychotherapy for Depression: Computer-assisted Cognitive-behavior Therapy Versus Standard Cognitive-behavior Therapy. *Psychiatric Research*.

WORKING MANUSCRIPTS

US Influenza Study

1. Propensity score matching method to estimate VE for hospitalized adults with influenza
2. Burden Comparison: Influenza vs. RSV vs. HMPV for the Hospitalized adult inpatient
3. 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.
4. Effectiveness of high-dose versus standard-dose influenza vaccine in the United States residents aged 65 years and older during two influenza season
5. Influenza vaccine effectiveness in the United States residents with smoking history with or without Asthma/COPD

Glaucoma Study

6. West Indies Glaucoma Laser Study (WIGLS)

GRADS Study

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

ADAPT Study

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

Papers published in proceedings

1. **Balasubramani GK.** "Use of Multivariate auxiliary variables in Markov sampling for finite population". *Bulletin of the International Statistical Institute, 49th session*, Florence, Italy, Book 3, 1993. 415-428 (**Received Young Statistician Award for this paper from International Statistical Institute, The Netherlands**).
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Published Abstracts

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5. Henry Wang, **Balasubramani GK,** Cook, Yealy, Lave (2009): Paramedic endotracheal intubation experience improves patient survival. NAEMSP 2009 Meeting, Jacksonville, Florida, January 22-24, 2009.
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HIV during the HAART Era', American Thoracic Society meeting, San Diego, California, May 15-20, 2009

9. Influenza and other viral infections in outpatients with medically attended acute respiratory illness during the 2011-12 influenza season.(2013):Richard K. Zimmerman, Charles R. Rinaldo, Mary Patricia Nowalk, **Balsubramani GK**, Mark S. Thompson, Krissy K. Moehling, Stephen R. Wisniewski. The Infectious Diseases Society of America, at the Moscone Center in San Francisco, CA, October 2-6, 2013.
10. Ilinca D. Metes, Douglas W. Chew, Aarat M. Patel, **Balsubramani GK**, S. Louis Bridges, Jr., Larry W. Moreland, Stephen R. Wisniewski and Marc C. Levesque. (2013): TNF Antagonist Therapy Lowers Serum Amyloid A (SAA) Levels to a Greater Extent than Oral DMARD Therapy in Early Rheumatoid Arthritis Subjects. ACR/ARHP Annual Meeting, in San Diego, CA, October 25 – 30, 2013.
11. Ilinca D. Metes, Doug W. Chew, Aarat M. Patel, **Balsubramani GK**, S. Louis Bridges, Jr., Larry W. Moreland, Stephen R. Wisniewski and Marc C. Levesque.(2013): Serum Amyloid A (SAA) Levels Model Rheumatoid Arthritis Disease Activity Better than CRP levels Especially During Treatment with TNF Antagonists. ACR/ARHP Annual Meeting, in San Diego, CA, October 25 – 30, 2013.
12. Katherin H. Chin, Michael J. Bell, Stephen R. Wisniewski, **Balsubramani GK**, Patrick M. Kochanek, Sue R. Beers, S. Danielle Brown, P. David Adelson for the Pediatric Traumatic Brain Injury Consortium: Hypothermia Investigators.(2013): Effect of administration of Neuromuscular Blocking Agents in Children with Severe Traumatic Brain Injury (TBI) on Acute Complication Rates and Outcomes: A secondary Analysis from a Randomized, Controlled Trial of Therapeutic Hypothermia.
13. Ilinca Metes, Heather Eng, June Feng, **Balsubramani GK**, Stephen R. Wisniewski, Marc C. Levesque.(2013): Identification of Factors with the lack of agreement between Electronic prescription lists and actual disease modifying treatment plans for Rheumatoid Arthritis. ACR/ARHP Annual Meeting, in San Diego, CA, October 25 – 30, 2013.
14. LL Koth, K Gibson, **Balsubramani GK**, NY Hamzeh, EL Herzog, DR Moller, Patterson KC, Wonder PD. Impact of Race on Sarcoidosis Phenotypes C14. 2017 Interstitial Lung Disease: Advances across the field, **American Thoracic Society** A4921-A4921.
15. KC Patterson, KF Gibson, **Balsubramani GK**, M Gulati, NY Hamzeh, Moller DR, O'Neal S, Strange CB, Wisniewski SR, Koth LL. Sarcoidosis Clinical Descriptions and Clustering of Phenotypes B104. 2017 Sarcoidosis: Clinical Studies on Diagnosis, Prognosis and Therapy, **American Thoracic Society** A4767-A4767.
16. Christopher Horvat, Michael Bell, Stephen Wisniewski, **Balsubramani GK**, Patrick Kochanek, Sue Beers, S Danielle Brown, P Adelson. Post resuscitation GCS is associated with outcome in Pediatric severe Traumatic Brain Injury. 2016, **Critical Care Medicine**, Vol.44, Issue 12, page 257
17. Glaser SM, Flickinger JC, **Balsubramani GK**, Beriwal S. Glioblastoma Multiforme (GBM) in the Elderly: Initial Treatment Strategy and Overall Survival. Int J Radiat Oncol Biol Phys. 2016 Oct 1;96(2S):E87-E88. Doi: 10.1016/j.ijrobp.2016.06.812.
18. JA Vargo, ER Ghareeb, **Balsubramani GK**, S Beriwal. Adjuvant Radiation Therapy and Chemotherapy in Merkel Cell Carcinoma: Survival Analyses of 6908 Cases From the National Cancer Data Base. 2016 JNCI: Journal of the National Cancer Institute 109 (10).
19. Horne ZD, Gebhardt BJ, **Balsubramani GK**, Beriwal S. Utilization and outcomes of Post-mastectomy radiotherapy in women with 1-3 positive axillary nodes following neoadjuvant chemotherapy: A multiply-imputed propensity-adjusted National cancer database analysis. Cancer Research. DOI: 10.1158/1538-7445.SABCS16-P1-10-01 Vol.77, Issue 4, February 2017.

20. J Vargo, **Balasubramani GK**, S Beriwal . Alarming Rates of Omission or Inadequate Radiation Therapy in Extranodal Natural Killer T-cell Lymphoma Nasal Type in the United States. *International Journal of Radiation Oncology• Biology• Physics* 96 (2), S164-S165
21. Horne ZD, Glaser SM, Vargo J, Ferris RL, **Balasubramani GK**, Clump DA 2nd, Heron DE, Beriwal S. Validation of Proposed Human Papillomavirus Risk-Adapted Staging According to AJCC/UICC TNM Criteria for Positive Oropharyngeal Carcinomas. *Int J Radiat Oncol Biol Phys.* 2016 Oct 1;96(2S):S82. Doi: 10.1016/j.ijrobp.2016.06.208.
22. Gill BS, Viswanathan AN, **Balasubramani GK**, Sukumvanich P, Beriwal S. Implication of Adjuvant Radiation Therapy and Dose-Response Relationship for Margin-Positive Vulvar Squamous Cell Carcinoma. *Int J Radiat Oncol Biol Phys.* 2016 Oct 1;96(2S):S50. Doi: 10.1016/j.ijrobp.2016.06.131.
23. Gebhardt BJ, Glaser SM, Beriwal S, **Balasubramani GK**, Ferris RL, Heron DE, Clump DA 2nd. Adjuvant Radiation Therapy (RT) With or Without Chemotherapy in Resected High-Risk Salivary Gland Malignancies (SGM): A National Cancer Data Base (NCDB) Analysis. *Int J Radiat Oncol Biol Phys.* 2016 Oct 1;96(2S):E358. Doi: 10.1016/j.ijrobp.2016.06.1531.
24. Kalash R, Glaser SM, **Balasubramani GK**, Flickinger JC Sr, Beriwal S. Adult Ependymoma (AE) Patients: Practice Patterns and Overall Survival. *Int J Radiat Oncol Biol Phys.* 2016 Oct 1;96(2S):E90. Doi: 10.1016/j.ijrobp.2016.06.818.
25. SS Pai, BS Gill, SM Marks, JA Vargo, **Balasubramani GK**, DA Clump, Beriwal S. Application of multi-agent CT among patients with leg-type primary cutaneous B-cell lymphoma. 2016 *Journal of Clinical Oncology* 34 (15_suppl), 7560-7560
26. Scott M Glaser, **Balasubramani GK**, Ronald M Benoit, Ryan P Smith, Sushil Beriwal. The Declining Use of Brachytherapy Boost for Prostate Cancer Despite Associated Survival Advantage. 2016, *Brachytherapy*, Vol.15, S23-S24.
27. SM Glaser, **Balasubramani GK**, S Beriwal. OC-0539: Stage II testicular seminoma: patterns of care and survival by treatment strategy. 2016, *Radiotherapy and Oncology* 119, S255-S256
28. 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.
29. 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
30. 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(2S):S164-S165. Doi: 10.1016/j.ijrobp.2016.06.415.
31. 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*.
32. 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.
33. 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*Biography*Physics*, October 2017, Vol.99, Issue 2, Number 25, S141.

34. Vargo JA, Ghareeb ER, **Balsubramani 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.
35. Dohopolski Mj, Glaser SM, Vargo JS, **Balsubramani GK**, Beriwal S.: Stereotactic body radiotherapy for locally advanced unrespectable pancreatic cancer patterns of care and overall survival. *Journal of Gastrointestinal Oncology*, October 2017 Vol.8, issue 5, 766.
36. Tony Realini, Hazel Shillingford-Ricketts, Darra Burt, **Balsubramani 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.

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. **Balsubramani 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. **Balsubramani 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. **Balsubramani 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. **Balsubramani 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. **Balsubramani 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. **Balsubramani 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. **Balsubramani 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. **Balsubramani 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. **Balsubramani 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. **Balsubramani 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.

Upcoming Conference Submissions:

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.

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: 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.

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
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

Editorial Board / Journal Reviewer

Journal Name	Position	Period
Computer Methods and Programs in Bio-Medicine	Reviewer	2006-Present
ISRN Psychiatry Journal	Editorial Board Member and Reviewer	2011-Present
Expert Review of Pharmacoeconomics and Outcomes Research	Reviewer	2015-Present
Influenza and Other Respiratory Viruses	Reviewer	2015-Present
Pediatrics	Reviewer	2015-Present
Journal of clinical Oncology	Reviewer	2017-Present

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 to present
4. Oral Nitrite in patients with pulmonary hypertension and heart failure with preserved ejection fraction (PH-HfpEF)	2017 to present
CTSI Studies	
5. Study of Tranexamic Acid during Air Medical Prehospital transport (STAAMP) Trial Phase 3 Multi-center, Prospective, Randomized, Double Blinded, Controlled Interventional Trial.	2016 to present
6. A randomized clinical trial to compare the effect of immediate postpartum Nexplanon placement versus standard postpartum contraceptive care on consistent contraceptive use and rapid repeat pregnancy in opioid dependent pregnant women.	2016 to present
7. NIH/NIADS Study-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	2018 to Present

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.

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 Cancer

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 Starzl 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, 2013-2015
Pittsburgh, PA
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

