

## Curriculum Vitae

### G.K. BALASUBRAMANI

Department of Epidemiology  
University of Pittsburgh  
127 Parran Hall, 130 DeSoto Street  
Pittsburgh, PA 15261. U.S.A  
Phone: (412)-648-2625 Fax: (412)-624-3775  
Email: [balagk@edc.pitt.edu](mailto:balagk@edc.pitt.edu)

1800, Pioneer Drive  
Sewickley, PA 15143  
U.S.A.

Phone:(412)-367-1422

#### 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 Infectious disease research team and in the last five 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 thesis 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

### **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.

## 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

### **Ongoing Research Support**

U01IP000969 , CDC NICRD : Role: Co-Principal Investigator

08/01/15-07/31/20

*Flu vaccine effectiveness in those hospitalized in a large diverse health system.*

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.

R01 EY023620 WV University Research Corporation: Role: Co-Investigator  
09/01/2015 – 08/31/2020

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

5U01NS081041-03, NIH : Role: Analyst  
07/01/13-06/30/18

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

### **Submitted Grants**

Influenza Vaccine Effectiveness for Preventing Medically Attended Laboratory-Confirmed Influenza in the United States  
Role: Principal Investigator-Data Coordinating Center  
Agency: CDC  
Period: 2016-2021  
NOTE: Received good score and likely to be funded starting July 1, 2016

Enhanced Surveillance for New Vaccine Preventable Disease  
Role: Principal Investigator-Data Coordinating Center  
Agency: CDC  
Period: 2016-2021

George M. O'Brien Cooperative Research Centers Program  
Zhou, Wang (PI) UPMC Chair in Urological Research  
Role: Co-Investigator  
Agency: NIDDK  
Period: 2016-2012

Addressing Critical Knowledge Gaps in Early Diffuse Scleroderma Trial design  
Robyn Domsic (PI), Division of Rheumatology and Clinical Immunology  
Role: Analyst  
Agency: NIH  
Period: 2016-2021

## **Completed Research Support**

5U01HL112707-03, NHLBI : Role: Statistical Analyst

05/01/12-11/30/15

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

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.

T32 HL007563, NIH: Role: Co-Investigator

09/01/08-09/01/12

Pulmonary Disease and HIV During the HAART era

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.

HI-07-008, NIH : Role: Co-Investigator

09/28/07-06/30/11

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

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

N01-MH-90003, NIMH: Role: Statistical Analyst

01/10/99-09/28/09

Sequenced treatment alternatives to relieve depression (STAR\*D)

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.

R21-HL08452801A1, NHLBI : Role: Co-Principal Investigator

12/01/06-11/30/08

Effect of paramedic airway experience on patient outcomes

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.

Role: Co-Principal Investigator

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

07/01/11-06/30/16

*Influenza surveillance and vaccine effectiveness in a large network*

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.

R21 AR066305, NIH : Role: Co-Investigator

02/01/15-01/31/16

*Effect of Atorvastatin on Endothelial Function and Raynaud in diffuse Scleroderma*

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.

## 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

## Publications (in chronological order)

Suresh Chandra, K., Sampath,S, **Balasubramani GK** (1992). Markov sampling for finite population. *Biometrika*, 79(1), 210-213.

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.

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.

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.

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.

**Balasubramani GK**, Stephen R.Wisniewski, Hongwei Zhang, Heather F. Eng (2005): Development of an efficient SAS<sup>®</sup> Macro to perform permutation test for two independent samples. *Computer Methods and Programs in Biomedicine*, 79(2), 179-187. PMID: 15904990.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

Diane Warden, A. John Rush, Stephen R. Wisniewski, Ira M. Lesser, Susan G. Kronstein, **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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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

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

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

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 Disorder*, 142(1-3):213-8. PMID:22877961.

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.

Dording CM, LaRocca RA, Hails KA, Vitolo OV, Wisniewski SR, **Balasubramani GK**, Trivedi M, Fava M, Mischoulon D.(2013): The effect of sildenafil on quality of life. *Ann Clin Psychiatry*. 25(1):3-10. PMID:23376864.

Gingo MR, **Balasubramani GK**, Kingsley L, Rinaldo CR Jr, Alden CB, Detels R, Greenblatt RM, Hessol NA, Holman S, Huang L, Kleerup EC, Phair J, Sutton SH, Seaberg EC, Margolick JB, Wisniewski SR, Morris A.(2013): The impact of HAART on the respiratory complications of HIV infection: longitudinal trends in the MACS and WIHS cohorts. *PLoS One*. 8(3):1-9. PMID:23554932.

Trivedi MH, Morris DW, Wisniewski SR, Lesser I, Nierenberg AA, Daly E, Kurian BT, Gaynes BN, **Balasubramani GK**, Rush AJ.(2013): Increase in work productivity of depressed individuals with improvement in depressive symptom severity. *Am J Psychiatry*. 170(6):633-41. PMID:23558394.

Adelson PD, Wisniewski SR, Beca J, Brown SD, Bell M, Muizelaar JP, Okada P, Beers SR, **Balasubramani GK**, Hirtz D; Paediatric Traumatic Brain Injury Consortium.( 2013). Comparison of hypothermia and normothermia after severe traumatic brain injury in children (Cool Kids): a phase 3, randomised controlled trial. *Lancet Neurology*. 12(6):546-53. PMID:23664370.

Ellen B. Dennehy, Lauren B. Marangell, James M Martinez, **Balasubramani GK**, Stephen R. Wisniewski: Clinical and functional outcomes of patients who experience partial response to citalopram: Secondary analysis of STAR\*D. *Journal of Psychiatric Practice*. 2014; 20: 178-187. PMID:24847991.

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Ghareeb ER, Dulmage BO, Vargo JA, **Balasubramani GK**, Beriwal S. Underutilization of Mohs Micrographic Surgery for Less Common Cutaneous Malignancies in the United States. *Dermatologic Surgery*. 2016 Apr 6. [Epub ahead of print] PMID:27054447

Horne ZD, Glaser SM, Vargo JA, Ferris RL, **Balasubramani GK**, Clump DA, Heron DE, Beriwal S. Confirmation of proposed human papillomavirus risk-adapted staging according to AJCC/UICC TNM criteria for positive oropharyngeal carcinomas. *Cancer*. 2016 Apr 25. doi: 10.1002/cncr.30021. [Epub ahead of print] PMID: 27111669

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## **PAERS PUBLISHED WITH THE GRADS STUDY GROUP**

Moller DR, Koth LL, Maier LA, Morris A, Drake W, Rossman M, Leader JK, Collman RG, Hamzeh N, Sweiss NJ, Zhang Y, O'Neal S, Senior RM, Becich M, Hochheiser HS, Kaminski N, Wisniewski SR, Gibson KF; GRADS Sarcoidosis Study Group. Rationale and Design of the Genomic Research in Alpha-1 Antitrypsin Deficiency and Sarcoidosis (GRADS) Study. Sarcoidosis Protocol. *Ann Am Thorac Soc.* 2015 Oct;12(10):1561-71. doi: 10.1513/AnnalsATS.201503-172OT. PMID: 26193069

Strange C, Senior RM, Sciruba F, O'Neal S, Morris A, Wisniewski SR, Bowler R, Hochheiser HS, Becich MJ, Zhang Y, Leader JK, Methé BA, Kaminski N, Sandhaus RA; GRADS Alpha-1 Study Group. Rationale and Design of the Genomic Research in Alpha-1 Antitrypsin Deficiency and Sarcoidosis Study. Alpha-1 Protocol. *Ann Am Thorac Soc.* 2015 Oct;12(10):1551-60. doi: 10.1513/AnnalsATS.201503-143OC. PMID: 26153726

## **Papers accepted for publication**

### **Papers submitted for Publication**

Validation of proposed HPV risk-adapted staging according to AJCC/UICC TNM criteria for positive oropharyngeal carcinomas – **Cancer- Revised and submitted**

Utilization and role of adjuvant radiotherapy and chemotherapy for uterine clear cell carcinoma: A National Cancer Data Base (NCDB) analysis - **International Journal of Gynecological Cancer.**

Underutilization of Radiotherapy in Early Stage Marginal Zone Lymphoma Negatively Impacts Overall Survival - **Practical Radiation Oncology**

Alarming Rates of Omission or Inadequate Radiation Therapy in Extra-nodal Natural Killer T-cell Lymphoma Nasal Type in the United States – **Journal of Clinical Oncology**

Classification and Regression Tree (CART) Analysis to Predict Influenza in Primary Care Patients – **BMC Infectious Diseases**

Treatment Selection in Extra-nodal Natural Killer T-cell Lymphoma Nasal Type in the United States: what is the role of multi-modality therapy? – **Journal of Clinical Oncology**

## **Papers published in proceedings**

**Balasubramani GK.** "Use of Multivariate auxiliary variables in Markov sampling for finite population". *Bulletin of the International Statistical Institute, 49<sup>th</sup> session, Florence, Italy, Book 3,*

1993. 415-428 (**Received Young Statistician Award for this paper from International Statistical Institute, The Netherlands**).

**Balasubramani GK**. "Markov sampling for finite population in environmental issues". *Proceedings of the Second Tamil Science Congress*, 1993. 154-160, ed. K.N.Ponnuswamy, University of Madras, India.

**Balasubramani GK**, Ravi David Nelson, S. "Statistical analysis of Kattabomman Transport Corporation". *Proceedings of the Second Tamil Science Congress*, 1993. 173-183, ed. K.N.Ponnuswamy, University of Madras, India.

**Balasubramani GK**, Kamalesh, V. "Statistical analysis of Northeast monsoon rainfall of Tamil Nadu". *Proceedings of the First Tamil Science Congress*, 1992. 271-280, ed. K.N.Ponnuswamy, University of Madras, India.

Suresh Chandra, K., **Balasubramani GK**. "Two-Stage Markov sampling scheme for finite population". *Proc. of National Symposium on Modelling: Stochastic Processes and O.R.*, 1991. 475-489, Kurukshetra University, India.

Suresh Chandra, K., **Balasubramani GK**. "Markov ratio estimator for population total, Technical Report 6/92-93, 1991.1-10, Department of Statistics, University of Madras, India.

#### **Published Abstracts**

**Balasubramani GK**, Stephen R. Wisniewski. "A Simulation Study to Compare the Reproducibility index through Intraclass Correlation using One-Way Random effects Model and Concordance Correlation Coefficient". *Controlled Clinical Trials*, 2002. Vol. 23, No.2S: 84S.

Anthony Fabio, Rolf Loeber, **Balasubramani GK**, David Farrington. "Neighborhood Economic Trends as Predictor of Individual Violence and Delinquency Risk". American Society for Criminology Meeting, Nashville, Tennessee, November 17-20, 2004.

**Balasubramani GK**, Hongwei Zhang, Stephen R. Wisniewski. "An elegant SAS<sup>®</sup> Macro to perform permutation test for two independent samples", *Clinical Trials*, 2004. Vol.1, No.2: 241

Henry Wang, **Balasubramani GK**, Cook, Yealy, Lave (2009): Diseases leading to paramedic endotracheal intubation. NAEMSP 2009 Meeting, Jacksonville, Florida, January 22-24, 2009.

Henry Wang, **Balasubramani GK**, Cook, Yealy, Lave (2009): Paramedic endotracheal intubation experience improves patient survival. NAEMSP 2009 Meeting, Jacksonville, Florida, January 22-24, 2009.

Matthew Gingo, **Balasubramani GK**, L Kingsley, E Kleerup, E Seaberg, A Morris, and the Multicenter AIDS Cohort Study (2012): HIV Infection and Prevalence of Pulmonary Disease: Multicenter AIDS Cohort Study. 19<sup>th</sup> Conference on Retroviruses and Opportunistic Infections, Seattle, March 5-8, 2012.

Joseph A. Simonetti, Matthew R. Gingo, Lawrence Kingsley, Cathy Kessinger, Lorrie Lucht, **Balasubramani GK**, Laurence Huang, Heneliaka Jones, Nancy Hessol, Claudia Ponath, Ruth Greenblatt, John Dermand, Roger Detels, Eric C. Kleerup, Alison Morris (2012): Pulmonary

Function In HIV-Infected Drug Users In The Era Of Anti-Retroviral Therapy. ATS 2012 International Conference. San Francisco, May 18-23, 2012.

M.R.Gingo, **Balasubramani GK**, L.Kingsley, C.R.Rinaldo, C.Alden, R.Detels, R.Greenblat, N.Hessol, S.Holman, L.Huang, E.Kleerup, J.Phair, S.Sutton, J.Margolick, A.Morris: 'Pulmonary disease and HIV during the HAART Era', American Thoracic Society meeting, San Diego, California, May 15-20, 2009

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, **Balasubramani 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.

Ilinca D. Metes, Douglas W. Chew, Aarat M. Patel, **Balasubramani 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.

Ilinca D. Metes, Doug W. Chew, Aarat M. Patel, **Balasubramani 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.

Katherin H. Chin, Michael J. Bell, Stephen R. Wisniewski, **Balasubramani 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.

Ilinca Metes, Heather Eng, June Feng, **Balasubramani 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.

#### **Invited Talk, oral/poster presentation**

**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.

**Balasubramani GK**, Hongwei Zhang, Wisniewski, SR. "An elegant SAS<sup>®</sup> Macro to perform permutation test for two independent samples", Society for Clinical Trials, New Orleans, Louisiana, May 23-25, 2004.

**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.

**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.

**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.

**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.

**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.

**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

### **Conference Session Chair**

Chairing ‘Mental Health Statistics Section’ for the forthcoming Joint Statistical Meeting to be held at Chicago July 30- august 4, 2016

### **Other conference presentations**

Impact of Adjuvant Radiotherapy and Chemotherapy on Stage I-II Clear Cell Endometrial Carcinoma: A National Cancer Data Base (NCDB) Analysis – 57<sup>th</sup> American Society for Therapeutic Radiology and Oncology (ASTRO), San Antonio, TX, October 18-21, 2015.

Impact of Adjuvant Radiotherapy and Chemotherapy on Stage I-II Clear Cell Endometrial Carcinoma: A National Cancer Data Base (NCDB) Analysis – 57<sup>th</sup> American Society for Therapeutic Radiology and Oncology (ASTRO), San Antonio, TX, October 18-21, 2015.

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.

Validation of proposed AJCC/UICC TNM restaging of HPV positive oropharyngeal carcinomas - American Head and Neck Society Symposium, Scottsdale, Arizona, February 18-20, 2016.

Early Nutritional Support is Associated with Favorable Outcome in Pediatric Traumatic Brain Injury – 45<sup>th</sup> Society for Critical care Medicine, Orlando, FL, February 20-24, 2016.

Underutilization of Radiotherapy in Early-Stage Marginal Zone Lymphoma", oral presentation at ACRO 2016, March 17, 2016, Orlando, FL



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.

### Professional Membership

Indian Society for Probability and Statistics	Life Member	1990-Present
American Statistical Association	Member	2001-Present
Eastern North American Society, Biometric Society	Member	2001-2012
Society for Clinical Trials	Member	2011-2012
American Society of Human Genetics	Member	2009-2011

### Editorial Board / Journal Reviewer

Computer Methods and Programs in Bio-Medicine	Reviewer	2006-Present
ISRN Psychiatry Journal	Editorial Board Member and Reviewer	2011-Present
MedCrave Online Journal of Public Health	Associate Editor	2014-Present
Reports on Epidemiology and Medical Statistics	Member, Editorial Board	2014-Present
Clinical Research-Open Access Journal	Member, Editorial Board	2014-Present
Expert Review of Phamacoconomics and Outcomes Research	Reviewer	2015-Present
Influenza and Other Respiratory Viruses	Reviewer	2015-Present
Journal of Infection and Public health	Reviewer	2015-Present
Pediatrics	Reviewer	2015-Present

### Research Papers Reviewed (Latest only)

Date Reviewed	Journal name	Title of the Paper Reviewed
07.01.2015	<b>Expert Review of Phamacoconomics and Outcomes Research</b>	Prevalence, Awareness, and Burden of Major Depressive Disorder in Urban China
07.13.2015	<b>Influenza and Other Respiratory Viruses</b>	Pacific Rim influenza: Virus Surveillance Using RT-PCR Mass Spectrometry
02.08.2016	<b>Journal of Infection and Public health</b>	Bacterial Resistance and Immunological Profiles in HIV Infected and non-Infected Patients at Mbouda AD LUCEM Hospital in Cameroon
03.02.2016	<b>Journal of Infection and Public health</b>	Revised submission of the above paper
02.15.2016	<b>Pediatrics</b>	Major depressive Disorder in Canadian School-Aged Children: Rare Disorder or rarely detected?
03.09.2016	<b>Journal of Infection and Public health</b>	Service providers' perspectives and experience on sexual and reproductive

health needs of HIV positive young adults in  
Udupi district, Karnataka: A Qualitative Study

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

- |   |                        |
|---|------------------------|
| NHLBI study on Translational Evaluation of Aging and Lung Disease in HIV (TEAL) Study. To evaluate the progress of the study.   | <b>2014 to present</b> |
| Longitudinal Evaluation of HIV-associated Lung Disease Phenotypes. Evaluate the Progress of the study.  | <b>2014 to present</b> |
| 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 | <b>2016 to</b>         |

### **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.

**Faculty Leadership workshop, University of Pittsburgh** 2016-  
Shared leadership

### **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