

# Curriculum Vitae

## GK Balasubramani

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## Academic Interests

- My research focuses on the epidemiology and surveillance of influenza and RSV viruses, particularly on generating evidence that informs public health policy.
- Examine the effectiveness of influenza and RSV vaccines among children and adults, particularly in outpatient settings where early intervention can significantly impact health outcomes.
- Investigate the clinical effectiveness of Selective Laser Trabeculoplasty (SLT) as a treatment for primary open-angle glaucoma, aiming to improve therapeutic options for patients at risk of vision loss.

## Education and Training

### Undergraduate

|           |                                        |             |            |
|-----------|----------------------------------------|-------------|------------|
| 1981-1984 | University of Madras<br>Chennai, India | B.Sc., 1984 | Statistics |
|-----------|----------------------------------------|-------------|------------|

### Graduate

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|-----------|----------------------------------------|-------------|------------|
| 1984-1986 | University of Madras<br>Chennai, India | M.Sc., 1986 | Statistics |
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| 1986-1987 | University of Madras<br>Chennai, India | M.Phil., 1987 | Statistics |
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|-----------|----------------------|-------------|------------|
| 1987-1992 | University of Madras | Ph.D., 1992 | Statistics |
|-----------|----------------------|-------------|------------|

### Post-Graduate

|           |                                          |                                                             |                                                                       |
|-----------|------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------|
| 1995-1996 | University of Western<br>Ontario, Canada | Post-Doctorate Research<br>training in Actuarial Statistics | Prof. David Bellhouse<br>Dept. of Statistical &<br>Actuarial Sciences |
|-----------|------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------|

## Appointments and Positions

### Academic

| Years          | Position Held                                 | Title | Department, School,<br>Name and location of institution                                                                |
|----------------|-----------------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------|
| 1993-1995      | Lecturer in Statistics                        |       | Department of Statistics, School of Mathematical<br>Sciences, Manonmaniam Sundaranar University,<br>Tirunelveli, India |
| 1995-1996      | Assistant Professor/ Post-<br>Doctoral Fellow |       | Department of Statistical and Actuarial Sciences,<br>University of Western Ontario, London, Canada                     |
| 1996-1998      | Senior Lecturer in<br>Statistics              |       | Department of Statistics, School of Mathematical<br>Sciences, Manonmaniam Sundaranar University,<br>Tirunelveli, India |
| Aug.-Dec. 2000 | Teaching Assistant                            |       | Department of Statistics<br>University of Pittsburgh, Pittsburgh                                                       |

|                       |                                 |                                                                          |
|-----------------------|---------------------------------|--------------------------------------------------------------------------|
| Jan.2001-June 2004    | Statistician                    | Department of Epidemiology, SPH,<br>University of Pittsburgh, Pittsburgh |
| July 2004-June 2014   | Research Associate              | Department of Epidemiology, SPH,<br>University of Pittsburgh, Pittsburgh |
| July 2014- April 2020 | Research Assistant<br>Professor | Department of Epidemiology, SPH,<br>University of Pittsburgh, Pittsburgh |
| May 2020 – Till Now   | Research Associate<br>Professor | Department of Epidemiology, SPH,<br>University of Pittsburgh, Pittsburgh |

#### Non-Academic

| Years     | Position Held    | Title | Name and location of company/organization                        |
|-----------|------------------|-------|------------------------------------------------------------------|
| 1998-2000 | Research Officer |       | Tamil Nadu State Council for Higher Education,<br>Chennai, India |

#### Membership in Professional and Scientific Societies

| Years Inclusive | Name of Society                                                                  |
|-----------------|----------------------------------------------------------------------------------|
| 1990-Present    | Life Member, Indian Society for Probability and Statistics                       |
| 2017-Present    | Infectious Disease Society of America (IDSA)                                     |
| 2018-Present    | Association of Research in Vision and Ophthalmology (ARVO)                       |
| 2019-Present    | International Society for Influenza and Other Respiratory Virus Diseases (ISIRV) |
| 2022-Present    | European Society of Clinical Microbiology and Infectious Diseases                |
| 2022-Present    | European Society for Pediatric Infectious Diseases                               |
| 2019-Present    | International Society of Infectious Diseases                                     |

#### Honors

| Year of Award | Title of Award<br>Awarding Association                                                                              |
|---------------|---------------------------------------------------------------------------------------------------------------------|
| 1993          | Young Statistician Award, International Statistical Institute (ISI), Netherlands                                    |
| 1994          | Young Scientist Fellowship Award<br>Tamil Nadu State Council for Science and Technology, Govt. of Tamil Nadu, India |

## Professional Activities

### Teaching

#### Courses Taught

| Years Taught                | Institution<br>Program<br>(Graduate or<br>Undergraduate)<br>Course Number:<br>Title                                                                                                                                   | Hours of Lecture/Credits<br>Average Enrollment       | Role in Course<br>Primary/Coordinator |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|---------------------------------------|
| 1993-1995<br>&<br>1996-1998 | Graduate Program:<br>1. Sample Survey Techniques<br>2. Design and Analysis of<br>Experiments<br>3. Multivariate Analysis<br>4. Statistical Inference<br>5. Linear Algebra<br>6. Programming Languages<br>(FORTRAN 77) | 10 hours per week<br>4 credits Each<br>30 Enrollment | Primary                               |
| 1995-1996                   | Graduate Program:<br>1. Sample Surveys                                                                                                                                                                                | 2 hours per week<br>3 credits<br>35 Enrollment       | Primary                               |
| Aug.-Dec. 2000              | Undergraduate Program:<br>1. Probability and Statistics                                                                                                                                                               | 2 hours per week<br>3 credits<br>40 Enrollment       | Coordinator                           |

#### Major Advisor for Graduate Student Essays, Theses, and Dissertations

| Name of Student    | Degree Awarded<br>Year | Type of Document<br>Title                                                                                                          | Notes                                                                                                           |
|--------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Emily Bobyock      | 2018                   | Thesis: Influenza Vaccine Effectiveness among outpatients: Combined Results from five seasons of US Flu VE Network Study 2011-2016 | MPH. This research is Published in <i>Influenza and Other Respiratory Viruses, 2020 (Refereed Article #105)</i> |
| Seitz Staci        | 2021                   | Thesis: Influenza Vaccine Hesitancy                                                                                                | MPH.                                                                                                            |
| Yachana H. Panchal | 2022                   | Master Essay: COVID-19 Vaccination Rates among Patients with Schizophrenia                                                         | MPH. This work is published in <i>Schizophrenia Research, 2023 (Refereed Article #147)</i>                      |
| Po-Han Huang       | 2024                   | Thesis: Vaccine Effectiveness Against Influenza-Associated                                                                         | MS. This research is published in <i>Human</i>                                                                  |

|               |            |                                                                                                                        |                                                                     |
|---------------|------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
|               |            | Hospitalizations in Adults with Liver Disease                                                                          | <i>Vaccine and Immunotherapeutics, 2025 (Refereed Article #156)</i> |
| Musa Samar    | 2025       | Thesis: Human Coronavirus Circulation in Pediatric Patients in the United States, 2016-2020                            | MPH. Expect to graduate August 2025                                 |
| Xueyan Zhang* | Sep. 2022- | Dissertation: Mediation and Moderation of Influenza Vaccination on the Perceived Severity of Acute Respiratory Illness | Working for PhD                                                     |
| Linyi Chen    | Sep. 2023- | Dissertation: Latent Profile Analysis to Identify Patients with Respiratory Symptoms at Higher Risk of Influenza       | Working for PhD                                                     |

\* Received the Kathrine Detre Award. The Dr. Katherine Detre Scholarship supports exceptional incoming students, honoring the legacy of Katherine Detre, a pioneer in clinical research and a key figure in establishing the Epidemiology Data Center (EDC).

#### Service on Masters of Doctoral Committees

| Dates Served | Name of Student              | Degree Awarded | Title of Dissertation/Essay                                                                                                                                                                                 |
|--------------|------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 04/20/2023   | Kailey Hughes<br>Kramer, MPH | PhD            | Seasonal Influenza Vaccination: Understanding Vaccine Effectiveness in Immunocompromised Adults. Doctoral Dissertation, University of Pittsburgh. (Published two manuscripts: Refereed article #s: 124,152) |

#### Service on Comprehensive or Qualifying Committees

| Dates Served | Student Population<br>i.e. 1 PhD Biostatistics student | Type of Exam<br>(Qualifying/Comprehensive) |
|--------------|--------------------------------------------------------|--------------------------------------------|
| 11/12/2024   | 1 Master Level MS student                              | Final defense Exam                         |
| 12/11/2024   | 1 PhD Epidemiology student                             | Qualifying Exam                            |
| 14/03/2023   | 1 PhD Epidemiology student                             | Comprehensive Exam                         |

#### Supervision of Post-Doctoral Students, Residents, and Fellows

| Dates Supervised        | Name of Trainee    | Trainee Position          |
|-------------------------|--------------------|---------------------------|
| 03/01/2016-05/04/2016   | Zator, Zachary, MD | GI Fellow                 |
| January 2016- Dec.2019  | Scott Glaser, MD   | Radiation Oncology Fellow |
| January 2016- Dec. 2019 | Zachary, Horne, MD | Radiation Oncology Fellow |

## Mentoring of Undergraduate or Graduate Students in Field Placements

| Dates           | Name of Student | Degree/Program Description | Field Site              |
|-----------------|-----------------|----------------------------|-------------------------|
| April 2018-2019 | Emily Bobyock   | MPH                        | Family Medicine         |
| April 2020-2021 | Brendan         | MPH                        | EDC and Family Medicine |
| April 2021-2022 | Yachana Panchal | MPH                        | EDC                     |

## Research and Training

### Grants and Contracts Received

#### Principal Investigator, Multiple Principal Investigator, or Program Project Director

*\*as listed in NIH RePORT and/or on Notice of Award*

| Years Inclusive | Grant and/or Contract Number and Title                                         | Source  | Annual Direct Costs | %Effort |
|-----------------|--------------------------------------------------------------------------------|---------|---------------------|---------|
| 2020-2027       | UG1EY031651<br>Clarifying the Optimal Application of SLT Therapy (COAST) Trial | NIH/NEI | \$2,075,572.00      | 30%     |

#### Co-Investigator

*\*include institutional grants as well as inter-institutional subcontracts for which you are officially listed as Co-Investigator (e.g., key personnel designation in NIH grant)*

| Years Inclusive   | Grant and/or Contract Number and Title<br>(PI: Name; Institution)                                                                                                                                    | Source | Annual Direct Costs | %Effort |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------|---------|
| 09/2022 - 09/2027 | U01 IP001184<br>Evaluating Respiratory Virus Vaccine Effectiveness in a Large, Diverse Health Care System (PI: Zimmerman, Richard K; Department of Family Medicine, University of Pittsburgh)        | CDC    | \$1,996,075.80      | 20%     |
| 09/2021 – 08/2026 | U01IP001152<br>Enhanced Surveillance for New Vaccine Preventable Diseases – New Vaccine Surveillance Network - NVSN (PI: Williams, John, department of Infectious Disease, University of Pittsburgh) | CDC    | \$179,280.00        | 24%     |
| 06/2021 – 06/2026 | UL1 TR001857                                                                                                                                                                                         | NCATS  | \$234,296.60        | 10%     |

|                 |                                                                                                                                                                               |             |              |     |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|-----|
|                 | Clinical and Translational Science Institute Core (PI: Reis, Steven, department of Medicine, University of Pittsburgh)                                                        |             |              |     |
| 02/2025-02/2026 | The role of social determinants of health on complications from RSV in adults ≥50 years (PI: Krissy Moehling Geffel, department of Family Medicine, University of Pittsburgh) | Pfizer      | \$17,741.00  | 5%  |
| 01/2025-12/2026 | Impact of FluBlok in UPMC Health Plan for two seasons (2022-23 and 2023-24) (PI: Zimmerman, Richard K; Department of Family Medicine, University of Pittsburgh)               | Sanofi      | \$111,026.00 | 10% |
| 07/2024-10/2025 | Burden of hMPV infections over 5 season (PI: Mary Patricia Nowalk; Department of Family Medicine, University of Pittsburgh)                                                   | AstraZeneca | \$12,946.00  | 1%  |

### Grants and Contracts Pending

#### Co-Investigator

*\*include institutional grants as well as inter-institutional subcontracts for which you are officially listed as Co-Investigator (e.g., key personnel designation in NIH grant)*

| Years Inclusive | Grant and/or Contract Number and Title (PI: Name; Institution)                                                                                             | Source | Annual Direct Costs | %Effort |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------|---------|
| 09/2025-08/2030 | RES036965A<br>Pollution Intervention to impact Kids Asthma Study (PI: Franziska Rosser, Division of Pulmonary Medicine, Children's Hospital of Pittsburgh) | NIEHS  | \$369,056.00        | 5%      |

### Invited Presentations Related to Your Research

| Date       | Title of Presentation                                                                          | Venue                                         |
|------------|------------------------------------------------------------------------------------------------|-----------------------------------------------|
| 03/29/2004 | Use of auxiliary variables in Markov sampling for finite population                            | ENAR Biometric Society Conference, Pittsburgh |
| 03/22/2005 | Challenges of non-ignorable missing data in clinical trials: A pattern-mixture model approach. | ENAR Biometric Society, Austin, Texas         |

|                       |                                                                                                                               |                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| 05/18/2005            | Generalized Estimating Equations (GEE): Comparing subject specific model with population averaged models                      | Center for Injury Research and Control, University of Pittsburgh                                              |
| 03/12/2007            | Comparison of multivariate strategies for the analysis of skewed psychometric data with many zeros.                           | ENAR Biometric Society Conference, Atlanta, Georgia                                                           |
| 02/27-28/2015         | Propensity Score Matching in outpatients with nonpsychotic major depressive disorder                                          | Presidency College, Chennai, India.                                                                           |
| 03/2-3/2015           | Workshop on SAS and its applications                                                                                          | SDN Bhat College, Chennai, India                                                                              |
| July 30- Aug. 4, 2016 | A Model for estimating missing items score on self-reported psychometric scales                                               | Joint Statistical Meeting, Chicago, Illinois                                                                  |
| 01/03/2018            | Workshop on “Bayesian Analysis and Big Data Analytics”                                                                        | Bharathiar University, Coimbatore, India                                                                      |
| 01/04/2018            | Workshop on “Spline Regression, Cluster, CART and Meta-Analysis using R and SAS”                                              | Sowdeswari College, Salem, India                                                                              |
| 01/05/2018            | Nutritional Epidemiology-Understanding and role in public health research                                                     | International conference on Innovative Food and Nutrition Technologies for Public health Care, Salem, India   |
| 01/6-7/2018           | Sample Size and power calculations for ordinal outcome model with interaction effect                                          | International conference on theory and applications of Statistics and Information Sciences, Coimbatore, India |
| 01/8-9/2018           | Estimating missing psychometric items score on self-reported psychometric scales using weighted means model                   | International Conference on recent trends in stochastic modelling and its applications, Tirunelveli, India    |
| 09/01/2019            | Influenza vaccine effectiveness and factors associated with outcomes in hospitalized adult patients with chronic lung disease | Options X Conference, Singapore                                                                               |
| 01/9-10/2020          | Evidence based decision making through Clinical trials: A Statistician’s Role                                                 | Periyar University, India                                                                                     |
| 01/11/2020            | Importance of Clinical Trials: Statisticians Starring role                                                                    | MS University, India                                                                                          |
| 04/26/2021            | Using Capture-Recapture Methods to Estimate Local Adult Influenza Hospitalization Incidence Rates.                            | Virtual 2021 Annual conference on Vaccinology research, National Foundations for Infectious Diseases.         |
| 06/24-25/2022         | An excellent scientific outcome would change millions of lives on earth                                                       | Manonmaniam Sundaranar University, Tamil Nadu, India                                                          |
| 06/15-17/2023         | Capture-Recapture Methods to Estimate Adult Influenza Hospitalization Incidence Rates                                         | Manonmaniam Sundaranar University, Tamil Nadu, India                                                          |

## Other Research and Training Activities

| Date                  | Position | Description of Activity                                                                                                                                     |
|-----------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11/10-11/2006         | Research | Missing data methods at New York                                                                                                                            |
| 08/31/2009            | Research | Meta-Analysis, Washington DC                                                                                                                                |
| Sep-Dec., 2009        | Research | Linkage analysis Course, Horizons, New York                                                                                                                 |
| 10/16-17/ 2015        | Research | Propensity Score Analysis, LA                                                                                                                               |
| 01/20/2016            | Training | Workshop on 'Making conflict work for you'                                                                                                                  |
| 02/17/2016            | Research | SOLVE-2016-Innovative Solutions for Health and Research                                                                                                     |
| 02/18/2016            | Training | Workshop on 'Managing for Excellence'                                                                                                                       |
| January-May, 2016     | Training | Leadership Academy Training                                                                                                                                 |
| July 30- Aug. 4, 2016 | Research | Chaired 'Design and Analysis in Clinical and Hybrid Research', with the 'Mental Health Statistics Section' at the Joint Statistical Meeting held at Chicago |
| 05/19/2021            | Training | Leading Change in Times of Uncertainty                                                                                                                      |
| 06/07/2022            | Training | Fostering a Diverse and Inclusive Workplace                                                                                                                 |
| 04/26/2023            | Training | Preventing Sexual Misconduct: Understanding Your Responsibility                                                                                             |
| 04/27/2023            | Training | Different Like You: Recognizing Stereotypes and Removing Barriers                                                                                           |
| 05/24/2023            | Training | Baby Boomers to Millennials: Respect and Productivity in the Workplace                                                                                      |
| 06/06/2023            | Training | Sustainability: Building an Equitable Future                                                                                                                |
| 06/07/2023            | Training | Fostering a Diverse and Inclusive Workplace                                                                                                                 |

## Publications

### Refereed Articles – Published or In Press

1. Authors (same order as publication, Last name, first and middle initials). Title of Article. *Journal Title*. Year and Date. Volume (Issue): pages

1. Suresh Chandra, K., Sampath,S, Balasubramani GK (1992). Markov sampling for finite population. *Biometrika*, 79(1), 210-213.
2. Sidney Zisook, A.John Rush, Ari Albala, Jonathan Alpert, Balasubramani GK, Maurizio Fava, Mustafa Husain, Harold Sackheim, Madhukar H. Trivedi, Stephen R.Wisniewski (2004): Factors that differentiate early vs. later onset of Major Depression Disorder. *Psychiatry Research*, 129(2), 127-140. PMID:15590040.
3. Maurizio Fava , Jonathan E.Alpert, Cheryl N.Carmin, Stephen R.Wisniewski, Madhukar H.Trivedi, Melanie M.Biggs, Kathy Shores-Wilson, Don Morgan, Terry Schwartz, Balasubramani GK, A.John Rush (2004): Clinical correlates and symptom patterns of anxious depression among patients with major depressive disorder in STAR\*D. *Psychological Medicine*, 34(7), 1299-1308. PMID:15697056.
4. Lori L.Davis, A.John Rush, Stephen R.Wisniewski, Kayla Rice, Paolo Cassano, Michele E.Jewell, Melanie M.Biggs, Kathy Shores-Wilson, Balasubramani GK, Mustafa M.Husain, Federic M.Quitkin, Patrick J.McGarth (2005): Substance use disorder comorbidity in major depressive disorder: an exploratory analysis of the

- Sequenced Treatment Alternatives to Relieve Depression cohort. *Comprehensive Psychiatry*, 46(2), 81-89. PMID: 15723023.
5. Bradley N. Gaynes, A. John Rush, Madhukar Trivedi, Stephen R. Wisniewski, Balasubramani GK, Donald C. Spencer, Timothy Petersen, Michael Klinkman, Diane Warden, Robert K. Schneider, Daniel B. Castro, Robert N. Golden (2005): A direct comparison of presenting characteristics of depressed outpatients from primary vs. specialty care settings: preliminary findings from the STAR\*D clinical trial. *General Hospital Psychiatry*, 27(2), 87-96. PMID: 15763119.
  6. Balasubramani GK, Stephen R. Wisniewski, Hongwei Zhang, Heather F. Eng (2005): Development of an efficient SAS® Macro to perform permutation test for two independent samples. *Computer Methods and Programs in Biomedicine*, 79(2), 179-187. PMID: 15904990.
  7. Sheila M. Marcus, Elizabeth A. Young, Kevin B. Kerber, Susan Kornstein, Amy H. Farabaugh, Jeff Mitchell, Stephen R. Wisniewski, Balasubramani GK, Madhukar H. Trivedi, A. John Rush (2005): Gender Differences at Baseline: Findings from the STAR\*D study. *Journal of Affective Disorder*, 87(2-3), 141-150. PMID: 15982748.
  8. Jon S. Novick, Jonathan W. Stewart, Stephen R. Wisniewski, Ian A. Cook, Radmila Manev, Andrew A. Nierenberg, Jerrold Rosenbaum, Kathy Shores-Wilson, Balasubramani GK, Melanie M. Biggs, Sid Zisook, A. John Rush (2005): Clinical and Demographic features of Atypical Depression in outpatients with Major Depressive Disorder: Preliminary findings from STAR\*D. *The Journal of Clinical Psychiatry*, 66(8), 1002-1011. PMID: 16086615.
  9. Ira M. Lesser, Andrew F. Leuchter, Madhukar H. Trivedi, Lori L. Davis, Stephen R. Wisniewski, Balasubramani GK, Timothy Petersen, Diane Stegman, A. John Rush (2005): Characteristics of insured and non-insured outpatients with depression in STAR\*D. *Psychiatric Services*, 56(8), 995-1004. PMID: 16088018.
  10. Mustafa M. Husain, A. John Rush, Harold A. Sackeim, Stephen R. Wisniewski, Shawn M. McClintock, Nicoletta Craven, Joel Holiner, Jeff R. Mitchell, Balasubramani GK, Robert Hauger (2005): Age Related Characteristics of Depression: A Preliminary STAR\*D Report. *American Journal of Geriatric Psychiatry*, 13(10), 852-860. PMID: 16223963.
  11. Madhukar H. Trivedi, A. John Rush, Stephen R. Wisniewski, Andrew A. Nierenberg, Diane Warden, Louise Ritz, Grayson Norquist, Robert H. Howland, Barry Lebowitz, Patrick J. McGrath, Kathy Shores-Wilson, Melanie M. Biggs, Balasubramani GK, Maurizio Fava, for the STAR\*D study team (2006): Evaluation of outcomes with Citalopram for depression using measurement based care in STAR\*D: Implications for clinical research and practice. *American Journal of Psychiatry*, 163(1), 28-40. PMID: 16390886.
  12. Andrew A. Nierenberg, Madhukar H. Trivedi, Maurizio Fava, Melanie M. Biggs, Kathy Shores-Wilson, Stephen R. Wisniewski, Balasubramani GK, A. John Rush (2007): Family history of mood disorder and characteristics of major depressive disorder: A STAR\*D (Sequenced Treatment Alternatives to Relieve Depression) study. *Journal of Psychiatric Research*, 41(3-4), 214-221. PMID: 16690084.
  13. Stephen R. Wisniewski, A. John Rush, Balasubramani GK, Madhukar H. Trivedi, Andrew A. Nierenberg for the STAR\*D Investigators (2006): Self-Rated Global Measure of the frequency, intensity and burden of side effects. *Journal of Psychiatric Practice*, 12(2), 71-79. PMID: 16728903.
  14. Anthony Fabio, Rolf Loeber, Balasubramani GK, Jeffrey Roth, Wenjiang Fu, David Farrington, (2006): Why some generations are more violent than others: Assessment of age, period and cohort effects. *American Journal of Epidemiology*, 164(2), 151-160. PMID: 16775045.
  15. Cynthia A. Claassen, Madhukar H. Trivedi, A. John Rush, Mustafa M. Husain, Sidney Zisook, Elizabeth Young, Andrew Leuchter, Stephen R. Wisniewski, Balasubramani GK, Jonathan Alpert (2007): Clinical differences among depressed patients with and without a history of suicide attempts: Findings from the STAR\*D trial. *Journal of Affective Disorder*, 97(1-3), 77-84. PMID: 16824617.
  16. Lori L. Davis, Elizabeth Frazier, Mustafa M. Husain, Diane Warden, Madhukar H. Trivedi, Maurizio Fava, Paolo Cassano, Patrick J. McGrath, Balasubramani GK, Stephen R. Wisniewski, A. John Rush (2006): Substance use disorder comorbidity in major depressive disorder: A confirmatory analysis of the STAR\*D cohort. *The American Journal on Addictions*, 15(4), 278-285. PMID: 16867922.
  17. Maurizio Fava, A. John Rush, Jonathan E. Alpert, Cheryl N. Carmin, Balasubramani GK, Stephen R. Wisniewski, Madhukar H. Trivedi, Melanie M. Biggs, Kathy Shores-Wilson (2006): What Clinical and Symptom Features Comorbid Disorders Characterize Outpatients with Anxious Major Depressive Disorder: A Replication and Extension. *The Canadian Journal of Psychiatry*, 51(13), 823-835. PMID: 17195602.
  18. Ian A. Cook, Balasubramani GK, Heather Eng, Edward Friedman, Young EA, Jeff Martin, William Nay, Louise Ritz, A. John Rush, Diane Stegman, Madhukar H. Trivedi, Stephen R. Wisniewski (2007): Electronic source

materials in clinical research: Acceptability and validity of symptom self-rating in depression. *Journal of Psychiatric Research*, 41(9), 737-743. PMID: 17275840.

19. Sidney Zisook, A. John Rush, Ira Lesser, Stephen R. Wisniewski, Madhukar H. Trivedi, Mustafa M. Husain, Balasubramani GK, Jonathan E. Alpert, Maurizio Fava (2007): Pre-adult onset vs. adult onset of major depression disorder: A replication study. *Acta Psychiatrica Scandinavica*, 115(3), 196-205. PMID: 17302619.
20. Bradley N. Gayens, A. John Rush, Madhukar H. Trivedi, Stephen R. Wisniewski, Balasubramani GK, Donald C. Spencer, Timothy Petersen, Michael Klinkman, Diane Warden, Linda Nicholas, Maurizio Fava (2007): Major Depressions in Primary care and Psychiatric care settings are minimally different: A cross-sectional analysis. *Annals of Family Medicine*, 5(2), 126-134. PMID: 17389536.
21. Ira M. Lesser, Andrew F. Leuchter, Madhukar H. Trivedi, Lori L. Davis, Stephen R. Wisniewski, Balasubramani GK, Maurizio Fava, A. John Rush (2007): Insured and non-insured depressed outpatients in public and private sectors: How do they compare? *Annals of Clinical Psychiatry*, 19(2), 73-82. PMID: 17612846. PMID: 17612846.
22. Diane Warden, Madhukar H. Trivedi, Stephen R. Wisniewski, Lori Davis, Andrew A. Nierenberg, Bradley N. Gaynes, Sidney Zisook, Steven D. Hollon, Balasubramani GK, Robert Howland, Maurizio Fava, Jonathan W. Stewart, A. John Rush (2007): Predictors of attrition during initial (Citalopram) treatment for depression: A STAR\*D Report. *American Journal of Psychiatry*, 164(8), 1189-1197. PMID: 17671281.
23. Sidney Zisook, Ira Lesser, Jonathan W. Stewart, Stephen R. Wisniewski, Balasubramani GK, Maurizio Fava, William S. Gilmer, Timothy R. Dresselhaus, Michael E. Thase Andrew Nierenberg, Madhukar H. Trivedi, A. John Rush (2007): Effect of Age of onset on the course of major depressive disorder. *American Journal of Psychiatry*, 164(10), 1539-1546. PMID: 17898345.
24. David W. Morris, A. John Rush, Shailesh Jain, Maurizio Fava, Stephen R. Wisniewski, Balasubramani GK, Ahsan Y. Khan, Madhukar H. Trivedi (2007): Diurnal mood variation in outpatients with major depressive disorder: Implications for DSM-V, from an analysis of the Sequenced Treatment Alternatives to Relieve Depression Study Data. *Journal of Clinical Psychiatry*, 68(9), 1339-1347. PMID: 17915971.
25. Maurizio Fava, A. John Rush, Jonathan E. Alpert, Balasubramani GK, Stephen R. Wisniewski, Cheryl N. Carmin, Melanie M. Biggs, Sidney Zisook, Andrew Leuchter, Robert Howland, Diane Warden, Madhukar H. Trivedi (2008): Difference in treatment outcome in outpatients with anxious vs. non-anxious depression: A STAR\*D report. *American Journal of Psychiatry*, 165(3), 342-351. PMID: 18172020.
26. Bradley N. Gaynes, A. John Rush, Madhukar H. Trivedi, Stephen R. Wisniewski, Balasubramani GK, Patrick McGrath, Michael Thase, Michael Klinkman, Andrew A. Nierenberg, William Yates, Maurizio Fava (2008): Primary vs. specialty care outcomes for depressed outpatients managed with measurement based care: Results from STAR\*D. *Journal of General Internal Medicine*, 23(5), 551-560. PMID: 18247097.
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### Preprint

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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*.
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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\*Biological\*Physics*, October 2017, Vol.99, Issue 2, Number 25, S141.
34. Vargo JA, Ghareeb ER, Balasubramani GK, Beriwal S.: The impact of surgical modality on the benefit of Adjuvant radiation therapy for Merkel Cell Carcinoma. *International Journal of Radiation Oncology\*Biological\*Physics*, October 2017, Vol.99, Issue 2, E758-E759.

35. Dohopolski Mj, Glaser SM, Vargo JS, Balasubramani 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, Balasubramani G.K. Efficacy of Repeat Selective Laser Trabeculoplasty in Afro-Caribbeans with Primary Open-Angle Glaucoma. *Investigative Ophthalmology and Visual Science*, 2018, Vol. 59, issue 9, 3458-3458.
37. Fernanda P. Silverira, Kailey L. Hughes, Balasubramani GK, Donald Middleton, Mary Patricia Nowalk, Emily T. Martin, Manjusha Gaglani, H. Keipp Talbot, Jill Ferdinands, Richard Zimmerman. Effective of Influenza vaccine for prevention of influenza associated hospitalizations among immunocompromised adults: 2017-2018. *Open Forum Infectious Diseases*, 2019. Oct 6(Suppl 2): S967.
38. Kailey Hughes Kramer, Richard K Zimmerman, Mary Patricia Nowalk, Fernanda P Silveira, G K Balasubramani, Jessie R Chung, Edward Belongia, Emily T Martin, Manjusha Gaglani, Catherine L Haggerty, C Hallie Phillips: 1161. Effectiveness of the Influenza Vaccine for Preventing Laboratory-Confirmed Influenza Infections in Outpatient Immunocompromised Adults, 2017-2018, *Open Forum Infectious Diseases*, Volume 10, Issue Supplement\_2, December 2023, ofad500.1001, <https://doi.org/10.1093/ofid/ofad500.1001>.
39. Anne-Marie Rick, Helen D'Agostino, Hui Liu, John V Williams, G K Balasubramani, Judith M Martin: 1012. Protective Effects of Maternal Influenza Vaccine during Pregnancy and Breastfeeding on Risk of Infant Influenza, *Open Forum Infectious Diseases*, Volume 10, Issue Supplement\_2, December 2023, ofad500.044, <https://doi.org/10.1093/ofid/ofad500.044>.
40. Xueyan Zhang, MaryPatricia Nowalk, Theresa M Sax, Helen D'Agostino, G K Balasubramani, 1373. Health-Related Quality of Life in Outpatient Adults with Medically Attended Acute Respiratory Infection, *Open Forum Infectious Diseases*, Volume 10, Issue Supplement\_2, December 2023, ofad500.1210, <https://doi.org/10.1093/ofid/ofad500.1210>.
41. Samar Musa, Xueyan Zhang, GK Balasubramani, Natasha B Halasa, Laura S Stewart, Jennifer E Schuster, Rangaraj Selvarangan, Geoffrey A Weinberg, Peter G Szilagyi, Eileen J Klein, Janet A Englund, Vasanthi Avadhanula, Pedro A Piedra, Christina M Quigley, Mary A Staat, Ariana Perez, Heidi L Moline, John V Williams, Marian G Michaels:1752, Seasonal Human Coronavirus in Pediatric Patients enrolled by the New Vaccine Surveillance Network, 2016-2020, *Open Forum Infectious Diseases*, Volume 10, Issue Supplement\_2, December 2023, ofad500.1583 <https://doi.org/10.1093/ofid/ofad500.1583>.

## Presentations

1. (As applicable): Authors (same order as publications). Title of Abstract or Presentation. (*Journal Title*. Year and Date. Volume (Issue): pages. OR Title of Meeting/Conference/etc., Location, Date.)
1. Balasubramani GK, Wisniewski, SR. "A Simulation Study to Compare the Reproducibility index through Intraclass Correlation using One-Way Random Effects Model and Concordance Correlation Coefficient". Society for Clinical Trials, Arlington, VA, May 12-15, 2002.
2. Balasubramani GK, Hongwei Zhang, Wisniewski, SR. "An elegant SAS® Macro to perform permutation test for two independent samples", Society for Clinical Trials, New Orleans, Louisiana, May 23-25, 2004.
3. Balasubramani GK, Wisniewski, SR. "Use of auxiliary variables in Markov sampling for finite population". International Biometric Society, ENAR Spring Meeting, Pittsburgh, March 28-31, 2004.
4. Balasubramani GK. "Generalized estimating equations: Comparing subject specific model with population averaged models, Center for Injury Research, University of Pittsburgh, May 18, 2005. – Invited Talk.
5. Balasubramani GK, Wisniewski, SR. "Challenges of non-ignorable missing data in clinical trials: A pattern-mixture model approach". International Biometric Society, ENAR Spring Meeting, Austin, Texas, March 20-23, 2005.
6. Balasubramani GK, Wisniewski, SR. "Comparison of multivariate strategies for the analysis of skewed psychometric data with many zeros". ENAR spring meeting, Atlanta, Georgia, March 11-14, 2007.

7. Balasubramani GK, Wisniewski, SR. "Propensity score matching in outpatients with nonpsychotic major depressive disorder", International Conference on New Horizons in Statistical Modeling and Applications, Chennai, India, February 27-28, 2015. – Invited Talk.
8. Balasubramani GK, Wisniewski, SR. A Model for estimating missing items score on self-reported psychometric scales - Joint Statistical Meeting, Chicago, Illinois, July 30- August 4, 2016. Accepted for Oral Presentation
9. Balasubramani GK.: Nutritional Epidemiology- Understanding and role in public health research. *International conference on Innovative Food and Nutrition Technologies for Public Health Care*, Salem, India, January 4-5, 2018.
10. Balasubramani GK, Wisniewski SR.: Sample size and power calculations for ordinal outcome model with interaction effect. *International Conference on theory and applications of statistics and information sciences, Indian Society for Probability and Statistics (ISPS)*, Coimbatore, India, January 6-7, 2018.
11. Balasubramani GK, Wisniewski SR.: Estimating missing psychometric items score on self-reported psychometric scales using weighted means model. *International Conference on recent trends in stochastic modeling and its applications*, Tirunelveli, India, January 8-9, 2018.
12. Balasubramani GK, Hazel Shillingford-Ricketts, Darra Burt, 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, Vancouver, Canada, April 28-May 2, 2019.
13. 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 10<sup>th</sup> Editions of Options for the control of Influenza, Singapore, August 28 – September 1, 2019.
14. Balasubramani GK, Nowalk MP, Clarke LG, Lyons JA, Dauer K, Silveira F, Middleton DB, Yassin M, Zimmerman RK. Using Capture-Recapture Methods to Estimate Local Influenza Hospitalization Incidence Rates. *National Foundations for Infectious Diseases Virtual Conference*, April 26-27, 2021.

2022

15. Invited talk on "An excellent scientific outcome would change millions of lives on earth", International Conference on Recent Trends in Stochastic Modeling and Its Applications during June 24-25, 2022, India.
16. "Effect of Mild COVID-19 on Physical and Mental Function" Options for the Control of Influenza XI, 26-29 September, 2022, Belfast, UK. Published in *Brain, Behavior, and Immunity – Health*.
17. "Estimating the Burden of Adult Hospitalized RSV Infection Including Special Populations", 12<sup>th</sup> International RSV Symposium, 29 September - 2 October, 2022 Belfast, UK. Published in *Vaccine*. 2022.
18. Invited Speaker for ISIRV Respiratory Virus School, at the Christian Medical College, Vellore, India 14 – 18 November, 2022. Delivered two talks: (a) Vaccine Safety and Effectiveness, (b) Statistical Exercise- Student activity.

2023

19. "Timing of maternal influenza vaccine administration during pregnancy for optimal vaccine effectiveness in infants", Correlates of Protection for Next Generation Influenza Vaccines: Lessons Learned from the COVID Pandemic, International Society for Influenza and Other Respiratory Virus (ISIRV) Diseases, Seattle, WA on 1-3 March 2023.
20. "Prevalence of human adenovirus in children with acute gastroenteritis in the New Vaccine Surveillance Network (NVSN) from 2016-2018", 33rd European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), Copenhagen, Denmark on 15 - 18 April 2023.

21. "Timing of maternal influenza vaccine administration during pregnancy for optimal vaccine effectiveness in infants- A time to event Study", [41<sup>st</sup> Annual Meeting of the](#) European Society for Pediatric Infectious Diseases (ESPID), Lisbon, Portugal, on 8-12, May 2023.
22. "Capture-Recapture Methods to Estimate Adult Influenza Hospitalization Incidence Rates", International Conference on Recent Trends in Stochastic Modeling and its Applications (ICRTSMA-2023), Tirunelveli, India, June 15-17, 2023.
23. "Causal mediation framework to identify the impact of influenza vaccination on the patients' self-reported severity", International Conference on Statistical Theory and its Applications ICSTA-2023), Bharathiyar University, Coimbatore, India, September 1-2, 2023.
24. "Protective Effects of Maternal Influenza Vaccine during Pregnancy and Breastfeeding on Risk of Infant Influenza", ID Week 2023, October 11-15, 2023, at the Boston Convention and Exhibition Center in Boston, MA, USA. Oral Presentation.
25. "Effectiveness of the Influenza Vaccine for Preventing Laboratory-Confirmed Influenza Infections in Outpatient Immunocompromised Adults, 2017-2018", ID Week 2023, October 11-15, 2023, at the Boston Convention and Exhibition Center in Boston, MA, USA. Poster Presentation. Presented by Kailey Hughes.
26. "Seasonal Human Coronavirus in Pediatric Patients enrolled by the New Vaccine Surveillance Network, 2016-2020", IDWeek 2023, October 11-15, 2023, at the Boston Convention and Exhibition Center in Boston, MA, USA. Poster Presentation. Presented by Musa Samar.
27. "Health-Related Quality of Life in Outpatient Adults with Medically Attended Acute Respiratory Infection", IDWeek 2023, October 11-15, 2023, at the Boston Convention and Exhibition Center in Boston, MA, USA. Poster Presentation. Presented by Samantha Zhang.

## 2024

28. "Causal mediation framework to identify the impact of influenza vaccination on patients' self-reported severity of influenza infection", Options for the Control of Influenza XII, September 29-October 2, 2024, Brisbane, Australia. Oral Presentation. Presented by Balasubramani GK.
29. "Predictors of home COVID-19 testing and their relationship with COVID-19 vaccine effectiveness", Options for the Control of Influenza XII, September 29-October 2, 2024, Brisbane, Australia. Oral Presentation. Presented by Balasubramani GK.
30. "Vaccine Effectiveness Against Influenza-Associated Hospitalizations in Adults with Liver Disease", IDWEEK 2024, October 16-19, 2024, at the Los Angeles Convention and Exhibition Center in Los Angeles, CA, USA. Poster Presentation. Presented by Po-Han.

## 2025

31. "The impact of maternal influenza infection and vaccination during pregnancy on birth outcomes", European Society of Clinical Microbiology and Infectious Diseases, April 11-15, 2025, Vienna, Austria. Presented by Balasubramani GK.
32. Impact of hypoalbuminemia on patients receiving ertapenem combination therapy for methicillin-susceptible *Staphylococcus aureus* bacteremia" European Society of Clinical Microbiology and Infectious Diseases, April 11-15, 2025, Vienna, Austria. Presented by Sunish Shah.
33. Linyi Chen, John Williams, Marian Michaels, GK Balasubramani. "Latent Profile Analysis to Identify Patients with Respiratory Symptoms at Higher Risk of Influenza." School of Public Health Dean's Day Presentation. April 1-3, 2025. Presented by Linyi Chen.
34. Xueyan Zhang, G.K. Balasubramani, D'Agostino, Helen Eleni Aslanidou, Hui Liu, Anne-Marie Rick. "The impact of maternal influenza infection and vaccination during pregnancy on birth outcomes" School of Public Health Dean's Day Presentation. April 1-3, 2025. Presented by Xueyan Zhang.
35. Zimmerman RK, Nowalk MP, Freeman M, Balasubramani GK, Suyama J, D'Agostino HEA, Taylor L, Alicea GM, Figucia D, Hickey R, Susick M, Conti T, Weissman A, Johnson M, Moehling Geffel K. 'US

## Service

### Service to School and University

| Years      | Activity                                                                                                                                                            | Position                                      |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
|            | Activity of Committee<br>Including committee service, committee chairs, administrative appointments and assignments<br>(indication of standing or ad hoc committee) | Position (indication if elected or appointed) |
| 2015-2021  | University of Pittsburgh Senate Benefits and Welfare Committee (Standing)                                                                                           | Member (Elected)                              |
| 2018- 2021 | University Senate Faculty Assembly, Representing School of Public Health (Standing)                                                                                 | Member (Elected)                              |
| 2019       | University of Pittsburgh Dining Advisory Committee (Ad-hoc)                                                                                                         | Member (Appointed)                            |
| 2019       | University of Pittsburgh Faculty Senate Search Committee for SVC (Ad-hoc)                                                                                           | Member (Appointed)                            |

### Service to Field of Scholarship

| Date         | Organization                                             | Position                  |
|--------------|----------------------------------------------------------|---------------------------|
| 2006-Present | Computer Methods and Programs in Bio-Medicine            | Reviewer                  |
| 2015-Present | Expert Review of Pharmacoeconomics and Outcomes Research | Reviewer                  |
| 2015-Present | Influenza and Other Respiratory Viruses                  | Associate Editor/Reviewer |
| 2016-Present | Journal of Clinical Oncology                             | Reviewer                  |
| 2019-Present | Expert Opinion on Drug Discovery                         | Reviewer                  |
| 2019-Present | PLOS One                                                 | Academic Editor/Reviewer  |
| 2020-Present | Journal of Clinical medicine                             | Reviewer                  |
| 2020-Present | Open Forum Infectious Diseases                           | Reviewer                  |
| 2020-Present | Human Vaccines and Immunotherapeutics                    | Reviewer                  |

Journal Title

| Date Reviewed | Journal name                                             | Title of the Paper Reviewed                                                                                                                                                                                          |
|---------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 07.01.2015    | Expert Review of Pharmacoeconomics and Outcomes Research | Prevalence, Awareness, and Burden of Major Depressive Disorder in Urban China                                                                                                                                        |
| 07.13.2015    | Influenza and Other Respiratory Viruses                  | Pacific Rim influenza: Virus Surveillance Using RT-PCR Mass Spectrometry                                                                                                                                             |
| 02.08.2016    | Journal of Infection and Public health                   | Bacterial Resistance and Immunological Profiles in HIV Infected and non-Infected Patients at Mbouda AD LUCEM Hospital in Cameroon                                                                                    |
| 03.02.2016    | Journal of Infection and Public health                   | Revised submission of the above paper                                                                                                                                                                                |
| 02.15.2016    | Pediatrics                                               | Major depressive Disorder in Canadian School-Aged Children: Rare Disorder or rarely detected?                                                                                                                        |
| 03.09.2016    | Journal of Infection and Public health                   | 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    | Advances in Medicine                                     | A study of blood biomarkers and its predictive value in treatment resistant depression                                                                                                                               |
| 07.08.2016    | Children and Youth Services                              | 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    | Expert Review of Pharmacoeconomics & Outcomes Research   | Conducting Patient Interviews Within a Clinical Trial Setting                                                                                                                                                        |
| 11.08.2017    | Therapeutics and Clinical Risk Management                | Clinical and chest X-ray studies on influenza B Virus-associated neonatal pneumonia                                                                                                                                  |
| 12.14.2017    | Journal of clinical Oncology                             | Efficacy and Safety of Nivolumab and Nivolumab plus Ipilimumab in patients with Metastatic Esophagogastric Cancer                                                                                                    |

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|------------|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 02.28.2018 | Journal of Clinical Oncology                  | Treatment related adverse events in African American Cancer patients with sickle cell trait<br>Inherited Hemoglobinopathies in a SEER-Medicare claims cohort                       |
| 03.14.2018 | Journal of clinical Oncology                  | Second, Revised review of the “Efficacy and Safety of Nivolumab and Nivolumab plus Ipilimumab in patients with Metastatic Esophagogastric Cancer                                   |
| 04.24.2018 | Journal of Clinical Oncology                  | 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 | Journal of clinical Oncology                  | Third, Revised review of the “Efficacy and Safety of Nivolumab and Nivolumab plus Ipilimumab in<br><br>patients with Metastatic Esophagogastric Cancer                             |
| 06.18.2019 | Journal of clinical Oncology                  | Effects of Exercise Therapy Dosing Schedule on Impaired Cardiovascular Function in Patients with Operable Breast Cancer: A Randomized Clinical Trial.                              |
| 03.20.2020 | British Medical Journal                       | Enhanced screening for early treatment targets in mild traumatic brain injury: a pilot cluster randomized trial                                                                    |
| 05.19.2020 | Open Forum Infectious Diseases                | Vaccine Effectiveness against influenza associate lower respiratory tract infections in hospitalized adults, Louisville, Kentucky, 2010-2013.                                      |
| 08.11.2020 | Journal of Clinical Oncology                  | B7H3-directed Intraperitoneal Radio immunotherapy with Radio iodinated Omburtamab for Desmoplastic Small Round Cell Tumor and other Peritoneal Tumors: Results of a Phase I Study. |
| 08.27.2020 | Expert Opinion on Drug Discovery              | Are long-term influenza vaccines possible and how do we discover them?                                                                                                             |
| 09.29.2020 | Computer Methods and Programs in Bio-Medicine | The Prediction of Influenza-Like Illness and Respiratory Disease Using LSTM and ARIMA                                                                                              |

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| 12.23.2020 | Journal of clinical Medicine                  | Glaucoma management: An updated Review                                                                                                                                                                            |
| 01.04.2021 | Journal of Clinical Oncology                  | Assessment of long-term survival benefits in immuno-oncology vs non-immuno-oncology agents approved by the FDA: a pooled-analysis of randomized controlled trials.                                                |
| 01.26.2021 | PLOS One                                      | Effectiveness of influenza vaccination in preventing severe laboratory-confirmed influenza-related illness in patients admitted to a tertiary hospital in Catalonia (Spain) during the 2018-2019 epidemic season. |
| 07.27.2021 | PLOS One                                      | SARS due to COVID-19: predictors of death and profile of patients in the state of Rio de Janeiro, 2020                                                                                                            |
| 01.27.2023 | Human Vaccines and Immunotherapeutics         | Risk of HBV infection and HBsAb levels among preterm birth and low birth weight infants born to HBsAg-positive mothers: a comparative observational study                                                         |
| 02.13.2023 | Journal of Clinical Oncology                  | Health-Related Quality of Life with Nivolumab Plus Chemotherapy Versus Chemotherapy in Patients with Advanced Gastric/ Gastroesophageal Junction Cancer or Esophageal Adenocarcinoma from Checkmate 649           |
| 02.24.2023 | Journal of Clinical Oncology                  | Surgical safety and feasibility of salvage for local failures in Early Rectal Adenocarcinoma (OPERA) trial. Results from a European multicenter phase 3 randomized trial (NCT02505750):                           |
| 03.30.2023 | Journal of Clinical Oncology<br>(Re reviewed) | Health-Related Quality of Life with Nivolumab Plus Chemotherapy Versus Chemotherapy in Patients with Advanced Gastric/ Gastroesophageal Junction Cancer or Esophageal Adenocarcinoma from Checkmate 649           |
| 04.03.2023 | Influenza and Other Respiratory Viruses       | Safety and Efficacy of AK0529 in Respiratory Syncytial Virus-Infected Infant Patients: A Phase 2 Proof-of-Concept Trial.                                                                                          |
| 04.20.2023 | Human Vaccines and Immunotherapeutics         | Analysis on the epidemiological characteristics of varicella and breakthrough case from 2014 to 2022 in Qingyang City.                                                                                            |

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|------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 05.05.2023 | Journal of Clinical Oncology          | International validation of the Immunoscore-biopsy (ISB) in rectal cancer patients managed by a Watch-and-Wait strategy                                                                            |
| 05.06.2023 | Journal of Clinical Oncology          | Bosutinib in Resistant and Intolerant Pediatric Patients with Chronic Phase Chronic Myeloid Leukemia: Results from the Phase I part of Study ITCC054/COG AAML1921                                  |
| 07.10.2023 | Open Forum Infectious Diseases        | Antibiotic use among hospitalized patients with COVID-19 in the United States, March 2020–June 2022                                                                                                |
| 07.13.2023 | Human Vaccines and Immunotherapeutics | Coverage and Influencing factors of Influenza Vaccination among the elderly in Minhang District, Shanghai                                                                                          |
| 08.15.2023 | Human Vaccines and Immunotherapeutics | Uptake and hesitancy of the second booster dose of COVID-19 vaccine among the general population in China's mainland after the surge period of the COVID-19 pandemic: a large-scale national study |
| 09.11.2023 | The Lancet Regional Health-Europe     | Protecting infants against RSV disease: an impact and cost-effectiveness comparison of long-acting monoclonal antibodies and maternal vaccination.                                                 |
| 09.18.2023 | Open Forum Infectious Diseases        | Antibiotic use among hospitalized patients with COVID-19 in the United States, March 2020–June 2022. Re Reviewed after re submission.                                                              |
| 09.28.2023 | Journal of Clinical Oncology          | Hematopoietic cell transplantation for patients of older age with AML in first complete remission: results of a randomized phase III study                                                         |
| 11.14.2023 | Journal of Clinical Oncology          | Randomized comparison of MRI versus Transurethral resection for staging new bladder cancers: results from the prospective Bladder path Trial                                                       |
| 11.22.2023 | Journal of Clinical Oncology          | Molecular Expression Assays Improve the Prediction of Local and Invasive Local Recurrence after Breast Conserving Surgery for DCIS                                                                 |
| 11.27.2023 | Vaccine                               | Resurgent rotavirus diarrhea outbreak five years after introduction of rotavirus vaccine in Botswana, 2018                                                                                         |
| 11.28.2023 | The Lancet Regional Health-Europe     | Protecting infants against RSV disease: an impact and cost-effectiveness comparison of                                                                                                             |

|             |                                             |                                                                                                                                                                               |
|-------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | (Re Review)                                 | long-acting monoclonal antibodies and maternal vaccination.                                                                                                                   |
| 12.03.2023  | Human Vaccines and Immunotherapeutics       | Perceived Impact of Discussions with a Healthcare Professional on Patients' Decision Regarding COVID-19 Vaccine                                                               |
| 12.06.2023  | Journal of Clinical Oncology<br>(Re Review) | Hematopoietic cell transplantation for patients of older age with AML in first complete remission: results of a randomized phase III study                                    |
| <b>2024</b> |                                             |                                                                                                                                                                               |
| 01.16.2024  | Journal of Clinical Oncology                | Predictive value of early changes of chromogranin A levels in patients with neuroendocrine tumours treated with PRRT.                                                         |
| 01.22.2024  | Vaccine                                     | Real-world effectiveness of seasonal influenza vaccination and age as effect modifier: a systematic review, meta-analysis and meta-regression of test-negative design studies |
| 01.30.2024  | Vaccine                                     | Assessment of the Herpes Zoster Risk Among Renal Transplant Recipients Administered the Influenza Vaccine                                                                     |
| 02.28.2024  | Journal of Clinical Oncology<br>(Re Review) | Molecular Expression Assays Improve the Prediction of Local and Invasive Local Recurrence after Breast Conserving Surgery for DCIS                                            |
| 02.29.2024  | Journal of Clinical Oncology<br>(Re Review) | Randomized comparison of MRI versus Transurethral resection for staging new bladder cancers: results from the prospective Bladder path Trial                                  |
| 03.11.2024  | PLoS One (Editorial Review)                 | The development and co-design of a digitally supported intervention for selecting implementation tools and actions for standards (SITAS)                                      |
| 04.04.2024  | Vaccine                                     | Opportunities and challenges to the development and deployment of vaccines for pregnant women in Germany                                                                      |
| 04.11.2024  | Vaccine                                     | Vaccine effectiveness of 3rd generation Orthopoxvirus vaccines against mpox infection and disease severity: A systematic review and meta-analysis.                            |

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|------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 04.12.2024 | Vaccine                               | Effectiveness of influenza vaccination on hospitalization outcomes among older patients with diabetes                                                                       |
| 04.16.2024 | Journal of Clinical Oncology          | Development of the Ninth Version AJCC/UICC TNM Staging System for Nasopharyngeal Cancer: Final Adoption based on a Multicenter Validation Study and Clinical Considerations |
| 04.25.2024 | Human Vaccines and Immunotherapeutics | The fear of loss of autonomy: a lever for vaccination of the elderly? Results of a qualitative study                                                                        |
| 04.25.2024 | PLoS One (Editorial Review)           | The association between prolonged SARS-CoV-2 symptoms and work outcomes.                                                                                                    |
| 05.02.2024 | PLoS One (Editorial Review)           | Affect and post-COVID-19 symptoms in daily life: An exploratory experience sampling study                                                                                   |

## 2025

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|------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01.31.2025 | Journal of Clinical Oncology          | Stereotactic MRI Guided Adaptive Radiotherapy: A pooled analysis of a master prospective trial                                                                                                        |
| 02.20.2025 | Human Vaccines and Immunotherapeutics | Comparing High-Dose and Standard-Dose Influenza Vaccines in Preventing Cardiovascular Diseases: a systematic review and Meta-analysis                                                                 |
| 03.10.2025 | Vaccine                               | Shifting perspective in flu vaccines efficacy: how risk difference shows an alternative view of the comparative efficacy profile of newer influenza vaccines compared to standard, egg-based vaccine. |
| 03.20.2025 | Canadian Journal of Psychiatry        | SARS-CoV-2 Vaccination for People with Schizophrenia in Ontario, Canada: A Retrospective Cohort Study                                                                                                 |

## Leadership in Scholarly and Professional Organizations and Honorary Societies

| Date    | Organization                                                                                           | Position               |
|---------|--------------------------------------------------------------------------------------------------------|------------------------|
| Current | Education committee, International Society for Influenza and Respiratory Viruses, London, UK           | Deputy Chairman        |
| Current | Epidemiological Working Group, International Society for Influenza and Respiratory Viruses, London, UK | Deputy Chairman        |
| 2020    | International Society for Influenza and Respiratory Viruses, London, UK                                | Board Member (Elected) |

## Service for Practice and Policy-Making, including Consultantships

### Governmental Organizations

| Date      | Organization/Agency                                           | Position and/or Type of Service                                                                                                                                                                                                                                                                      |
|-----------|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1998-2000 | Tamil Nadu State Council for Higher Education, Chennai, India | Research Officer <ul style="list-style-type: none"><li>Identified training needs and conducted training activities for College and University teachers</li><li>Assisted in the implementation and co-ordination of Higher Educational Programs viz., organizing seminars and symposia etc.</li></ul> |

### Non-Governmental and Community-Based Organizations

| Date      | Organization/Agency   | Position and/or Type of Service |
|-----------|-----------------------|---------------------------------|
| 2011-2013 | SV Temple, Pittsburgh | Executive Member                |
| 2013-2015 | SV Temple, Pittsburgh | Board of Director and Treasurer |

### Non-Professional Service

| Date      | Organization/Agency            | Position and/or Type of Service                                                                                                  |
|-----------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 2013-2014 | Boy Scouts Troop 36            | Member volunteer<br>Helping out the boy scouts during the weekly meeting and assisting the scout masters for various activities. |
| 2013-2014 | Pittsburgh Cricket Association | Volunteer Coach<br>Coaching the Youth Cricket ball game                                                                          |