

CURRICULUM VITAE

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Google Scholar: <https://scholar.google.com/citations?user=8Dxl24cAAAAJ&hl=en>

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EDUCATION

2008 M.A., Biostatistics: State University of New York at Buffalo, New York
2011 Ph.D., Biostatistics: State University of New York at Buffalo, New York

ACADEMIC APPOINTMENTS

11/11 – 01/13 Instructor, Department of Biostatistics, Vanderbilt University
02/13 – 11/19 Assistant Professor, Department of Biostatistics, Vanderbilt University
12/19- Present Associate Professor, Department of Biostatistics, Vanderbilt University

OTHER EMPLOYMENT

2006 – 2007 Graduate Research Assistant, Department of Biostatistics, SUNY at UB
2007 – 2011 Pre-Doctoral Research Affiliate, Roswell Park Cancer Institute, Buffalo
2017 – 2019 Statistical Consultant, Chapin Hall at the University of Chicago

AWARDS AND HONORS

2009 ENAR Travel Award to attend the Fostering Diversity in Biostatistics Workshop
2009 Richard N. Schmidt Scholarship Travel Award to attend ENAR
2010 ASA/Boyd Harshbarger Travel Award to attend the Southern Regional Council on Statistics (SRCOS) Summer Research Conference
2015 ENAR Travel Award to attend the Junior Biostatisticians in Health Research Workshop
2015 ENAR Travel Award to attend the Fostering Diversity in Biostatistics Workshop
2016 Patrick G. Arbogast Award for best 2015 collaborative publication, Department of Biostatistics, Vanderbilt University School of Medicine
2018 Selected as a participant and received \$500 research funds to enhance teaching, Course Design Institute at the Vanderbilt Center for Teaching
2018 Oak Ridge Associated Universities Events Sponsorship Program award (\$2,000) to facilitate the ‘Distinguished Women in Statistics’ seminar series
2019 Elected into Membership in the Vanderbilt Academy for Excellence in Education
2019 Patrick G. Arbogast Award for best 2018 collaborative publication, Department of Biostatistics, Vanderbilt University School of Medicine
2019 Outstanding Faculty Mentor Award, Vanderbilt Department of Biostatistics (awarded by the graduate student body)
2021 Nominated for the Vanderbilt Women’s Center Mentoring Award by graduate students

2021 Inducted to the Delta Omega, National Honor Society in Public Health (Gamma Lambda Chapter)

PROFESSIONAL ORGANIZATIONS

2005 - American Statistical Association (ASA)
Section member: Government Statistics Section, Health Policy Statistics Section,
Section on Statistical Education, Section on Teaching of Statistics in the Health Sciences

2017 - Caucus for Women in Statistics (CWS)

2021 - Society for Clinical Trials (SCT)

2021 - American Delirium Society

PROFESSIONAL SERVICE

Extramural

Study Section/Scientific Review Committees for national and international funding agencies

Mar 2018 NIH/NCCIH grant review panel: ZAT1 AJT (06) Exploratory Clinical Trials of Mind and Body Interventions (R34 and U01)

Feb 2019 NIH/NCCIH grant review panel: ZAT1 SM (46) Special Emphasis Panel Mechanistic Studies to Optimize Mind and Body Interventions (R33 and R33/R61)

Feb 2019 NIH/NCCIH grant review panel: ZAT1 PJ (04) Exploratory Clinical Trials of Mind and Body Interventions (R34 and U01)

July 2019 NIH/NCCIH grant review panel: ZAT1 PJ (06) Exploratory Clinical Trials of Mind and Body Interventions (R34 and U01)

July 2019 NIH/NCCIH grant review panel: ZAT1 SM (50) Special Emphasis Panel Early Phase Clinical Trials of Natural Products (R33 and R33/R61) and Natural Products Phase II Clinical Trial Cooperative Agreement (U01)

Nov 2019 NIH/NCCIH grant review panel: ZAT1 SM (53) Special Emphasis Panel Exploratory Mechanistic studies to Optimize Mind and Body Interventions (R33 and R61/R33)

Dec 2019 NIH/NCCIH grant review panel: ZAT1 SM (51) Special Emphasis Panel Exploratory Clinical Trials of Mind and Body Intervention (R34)

Dec 2019 NIH/NCCIH grant review panel: ZAT1 PJ (07) Exploratory Clinical Trials of Mind and Body Interventions (R34 and U01)

Jan 2020 Review panel: National Science Foundation (NSF)

Dec 2020 Grant Proposal Reviewer: National Science Centre, Poland

Jan 2021 Review panel: National Science Foundation (NSF)

Feb 2021 NIH Review panel: Kidney, Nutrition, Obesity and Diabetes Study Section (KNOD) 2021/05 study section

Feb 2021 Grant Proposal Reviewer: National Research Council, Swiss National Science Foundation (SNSF), Switzerland

April 2021 Merit Review Panel: PCORI, Cycle 3 2020: Improving Methods for Conducting Patient-Centered Outcomes Research.

DSMB

2019 - Data and Safety Monitoring Board Member, REHAB-PH Study, NHLBI.

2019 - Data and Safety Monitoring Board Member, FREEDOM Study, NIA.

Have reviewed for:

American Journal of Respiratory and Critical Care Medicine, American Journal of Kidney Diseases, American Journal of Epidemiology, Annals of the American Thoracic Society, BMC Medicine, Intensive Care Medicine, Journal of Applied Statistics, Journal of

Hospital Medicine, Journal of General Internal Medicine, Journal of Statistics Education, Pharmaceutical Statistics, Statistics and Its Interface, Statistics in Medicine, The Lancet, The Lancet Respiratory Medicine, The Lancet Digital Health, The Journal of Urology

General:

2009-2010 Judge, American Statistical Association K-12 Statistics Project Competition.
2010- Pro Bono statistical consultant, Statistics Without Borders (SWB)
2012 Session Chair, useR! 2012
2016-2018 Judge, American Statistical Association K-12 Statistics Project Competition
2017 – 2021 Selected Participant, ASA Statistical Education Mentoring Program
2021 Mentor, ASA Statistical Education Mentoring Program
2021 Moderator, American Delirium Society Statistical Consultation Session

Intramural

2014 Member, Linda Stewart Applied Analysis Report Award Committee, Department of Biostatistics, Vanderbilt University
2016 Clinical Research Judge, Poster Presentations, 34th Annual Research Forum, Vanderbilt University Medical Center
2018 - Member, Biostatistics Graduate Program Admissions Committee
2018 - 2020 Voting committee member, Institutional Review Board for the Protection of Human Subjects, Vanderbilt University
2019 Review committee member, Data Science Institute-Summer Research Program (DSI-SRP)
2019 - Member, Vanderbilt Academy for Excellence in Education
2019 - Member, Non-tenure track faculty search committee, Department of Biostatistics, Vanderbilt University

PRIMARY ACADEMIC COLLABORATIONS:

2011- Tennessee Department of Children’s Services
2013- CIBS Centre/ICU Delirium and Cognitive Impairment Group at Vanderbilt
2013- Emerging Infections Program – Collaboration of the Tennessee Department of Health, the Vanderbilt University School of Medicine, Department of Health Policy and the Centers for Disease Control and Prevention
2015- Vanderbilt University School of Nursing

TEACHING ACTIVITIES

Courses

08/05 – 05/06 Teaching Assistant: Department of Biostatistics, SUNY at Buffalo, *STA 119 - Introduction to Statistics.*
Summer 2009 Course Instructor: Department of Biostatistics, SUNY at Buffalo, *STA 119 - Introduction to Statistics*
Spring ‘13, ‘14 Course Instructor: Department of Biomedical Engineering, Vanderbilt University School of Engineering, *BME 260 - Analysis of biomedical data*
Fall ‘15 –’18 Course Co-Instructor: School of Nursing, Vanderbilt University, *NURS 8014 [Formerly NURS 414] - Statistics in Health Sciences*
Spring ‘15 – Course Co-Instructor: School of Nursing, Vanderbilt University, *NURS 8014 [Formerly NURS 414] - Statistics in Health Sciences*

External Invited Lectures/Seminars/Workshops

- 1. Feb 2011** Division of Biostatistics and Epidemiology, Cincinnati Children's Hospital Medical Center
A new linear model-based approach for modeling the area under the outcome-time curve.
- 2. Feb 2011** Department of Epidemiology and Biostatistics, Memorial Sloan-Kettering Cancer Center -
A new linear model-based approach for modeling the area under the outcome-time curve.
- 3. Mar 2011** Joseph J Zilber School of Public Health, University of Wisconsin-Milwaukee - *A new linear model-based approach for modeling the area under the outcome-time curve.*

4. **Aug 2012** A linear model-based approach for inferences about the area under the curve with repeated measures and values below the limit of detection. Joint Statistical Meeting (JSM).
5. **May 2016** CDC - The Influenza Hospitalization Surveillance Network (FluSurv-NET) Working Group. (Presented remotely) - *Multi-level Regression Modeling in Influenza*.
6. **Oct 2016** Social Determinants of Influenza Hospitalization in the United States. IDWeek Annual Meeting.
7. **May 2017** Johns Hopkins Delirium Consortium. (Presented remotely) - *Relating delirium or other longitudinal exposure variables to scalar long-term health outcomes: the role of functional data analysis*.
8. **June 2017** Statistical Workshop - Statistical Methods for Delirium Research: *Relating delirium or other longitudinal exposure variables to scalar long-term health outcomes*. American Delirium Society Meeting.
9. **Feb 2018** Meharry Medical College, Nashville TN - *Misleading Statistics*. Lecture given as part of the Capstone Course.
10. **June 2018** Statistical Workshop - Statistical Methods for Delirium Research: *Survivor and attrition bias- What can we do about it?* American Delirium Society Meeting.
11. **July 2018** Department of Biostatistics, Amritha School of Medicine, Amritha University, India (Amrita Vishwa Vidyapeetham) - *Statistical aspects of evaluating the performance of medical tests*.
12. **Feb 2019** Meharry Medical College, Nashville TN - *Ethics, Critical Thinking and Statistics*. Lecture given as part of the Capstone Course.
13. **May 2019** Centers for Disease Control and Prevention - *Leveraging data sources to enhance and drive health disparities research*
14. **June 2019** Statistical Workshop - Statistical Methods for Delirium Research: *Pragmatic Trials in Delirium*. American Delirium Society Meeting.
15. **Oct 2019** Network for Investigation of Delirium: Unifying Scientists (NIDUS) Clinical Trials Webinar - *Statistical Issues in Trial Design*.
16. **June 2020** Federal Committee on Statistical Methodology Geospatial Interest Group (GIG): (Presented remotely). *Geocoding and linkage of multiple sources of data to inform policy and programs in the child welfare system*.
17. **Oct 2020** American Statistical Association Government and Social Statistics Sections Practicum on Blended Data. (Presented remotely). *Prescription monitoring in the child welfare system by linking administrative, census and prescription data*.
18. **June 2021** Statistical Workshop: (Presented remotely). Statistical Methods for Delirium Research: *Addressing missing daily assessments when computing a summary measure like delirium duration: Implications of various practical approaches*. American Delirium Society Meeting.

Internal Invited Lectures/Seminars

19. **Mar 2011** A new linear model-based approach for modeling the area under the outcome-time curve. Department of Biostatistics, Vanderbilt University School of Medicine.
20. **Feb 2012** Guest lecture - *BME 260 - Analysis of biomedical data*: Estimation of sample size and power. Department of Biomedical Engineering, Vanderbilt University School of Engineering.
21. **Feb 2012** Guest lecture - *BME 260 - Analysis of biomedical data*: Two sample testing. Department of Biomedical Engineering, Vanderbilt University School of Engineering.
22. **Aug 2013** A linear model-based approach for inferences about the area under the curve with repeated measures and values below the limit of detection. Vanderbilt Department of Biostatistics, Continuing Education Informal Workshop.
23. **Oct 2013** Guest lecture - *PUBH 5514 – Social and Behavioral Science for Public Health*: An 80 min lecture on data management. Vanderbilt University School of Medicine.
24. **Oct 2015** Socioeconomic disparities and influenza hospitalizations in TN. Health Policy Faculty Meeting, Vanderbilt University School of Medicine.
25. **Dec 2017** Prescriber profiling in the child welfare system and its challenges. Department of Biostatistics Seminar, Vanderbilt University School of Medicine.

26. **Mar 2019** Statistical methods to address psychotropic medication use in the child welfare system. Vanderbilt Kennedy Centre.

Contributed Presentations

27. **Oct 2007** Xerogel Package. (Poster). UB Warren Perry Lecture, SUNY at Buffalo.
28. **Mar 2009** Estimating percentiles in dose-response curves for delayed responses using an adaptive compound urn design. (Poster). International Biometrics Society Eastern North American Region (ENAR) Annual Meeting.
29. **June 2010** A new linear model-based approach for modeling the area under the curve. (Poster). Southern Regional Council on Statistics (SRCOS) Summer Research Conference.

Academic Advising and Mentoring of Staff/Graduate Research Supervision

- 11/11 – 01/13** Wei Wang, PhD - Biostat II, Department of Biostatistics, Vanderbilt University School of Medicine
- 09/13 – 12/18** David Schlueter – Ph.D., Department of Biostatistics, Vanderbilt University School of Medicine
- 10/13 – 01/19** Jennifer L. Thompson, MPH - Biostat IV, Department of Biostatistics, Vanderbilt University School of Medicine
- 01/14 – 06/15** Xulei Liu, MA - Biostat III, Department of Biostatistics, Vanderbilt University School of Medicine
- 09/14 –** Ryan Jarrett – Ph.D. Student, Department of Biostatistics, Vanderbilt University School of Medicine
- 02/19 -** Onur M Orun, MS - Biostat II, Department of Biostatistics, Vanderbilt University School of Medicine
- 08/19 -** Wencong Chen, PhD – Biostat III, Department of Biostatistics, Vanderbilt University School of Medicine
- 08/19 –** Julia Thome – Ph.D. Student, Department of Biostatistics, Vanderbilt University School of Medicine
- 08/19 –** Jamie Joseph – Ph.D. Student, Department of Biostatistics, Vanderbilt University School of Medicine

Oral Examinations/Thesis Reader/Dissertation Committees:

Jo Ellen Wilson (Epidemiology Ph.D. Candidate, expected 2022)
Schlueter, David (Biostatistics Ph.D., 2015)
Sampson, Uchechukwu (Biostatistics M.S., 2014)

Mentoring Committees:

06/21 – Emily Kack, MPH Mentoring Committee

PUBLICATIONS – Also published under the last name ‘Chandrasekhar’

Peer-Reviewed Publications

1. A Chirumamilla, MF Wilson, GE Wilding, **R Chandrasekhar**, H Ashraf. Outcome of renal insufficiency patients undergoing coronary artery bypass graft surgery. (2008). *Cardiology*, 111(1): 23-29.
2. **R Chandrasekhar**, JC Miecznikowski, DP Gaile, V Govindaraju, FV Bright, KF Sellers. Xerogel Package. (2009). *Chemometrics and Intelligent Laboratory Systems*, 96(1): 70-74.
3. T Khoury, A Arshad, P Bogner, N Ramnath, S Zhang, **R Chandrasekhar**, GE Wilding, S Alrawi, D Tan. Apoptosis-Related (Survivin, Bcl-2), Tumor Suppressor Gene (p53), Proliferation (Ki-67) and Non-Receptor Tyrosine Kinase (Src) Markers Expression and Correlation with Clinicopathologic Variables in 60 Thymic Neoplasms: Tissue Microarray Study. (2009). *Chest*, 136(1): 220 - 228.
4. KA Guru, A Hussain, **R Chandrasekhar**, P Piacente, M Bienko, M Glasgow, W Underwood, GE Wilding, JL Mohler, M Menon, JO Peabody. Current status of robot-assisted surgery in urology: a

- multi-national survey of 297 urologic surgeons. (2009). *The Canadian Journal of Urology*, 16(4): 4736 - 4741.
5. SS Singh, DC Mehedint, OH Ford III, DA Jeyaraj, EA Pop, SJ Maygarden, A Ivanova, **R Chandrasekhar**, GE Wilding, JL Mohler. Comparison of TUNEL, Caspase-3 and ACINUS as Apoptotic Markers in Determination of Tumor Growth Rates of Clinically Localized Prostate Cancer using Image Analysis. (2009). *The Prostate*, 69(15): 1603 - 1610.
 6. BE Yuh, J Ciccone, **R Chandrasekhar**, Butt ZM, GE Wilding, HL Kim, JL Mohler, KA Guru. Impact of Previous Abdominal Surgery on Robot-Assisted Radical Cystectomy. (2009). *Journal of the Society of Laparoendoscopic Surgeons*, 13(3): 398 - 405.
 7. T Khoury, S Sait, H Hwang, **R Chandrasekhar**, GE Wilding, D Tan, S Kulkarni. Delay to formalin fixation effect on breast biomarkers. (2009). *Modern Pathology*, 22(11): 1457-1467.
 8. O Al-Agha, W Liu, **R Chandrasekhar**, GE Wilding, D Tan, S Alrawi, T Khoury. CD138 (Syndecan - 1) in Thymic Neoplasms: Correlation with Various World Health Organization Types and Clinical Outcome. (2010). *International Journal of Clinical and Experimental Pathology*, 3(3): 280-287.
 9. K Salerno May, NI Khushalani, **R Chandrasekhar**, GE Wilding, RV Iyer, WW Ma, L Flaherty BS, RC Russo, MG Fakih, BW Kuvshinoff, JF Gibbs, MM Javle, GY Yang. Analysis of clinical and dosimetric factors associated with change in renal function in patients with gastrointestinal malignancies following chemoradiation to the abdomen. (2010). *International Journal of Radiation Oncology Biology Physics*, 76(4): 1193-1198.
 10. K Salerno May, GY Yang, NI Khushalani, **R Chandrasekhar**, GE Wilding, L Flaherty, RC Russo, JC Warner, JC Yap, RV Iyer, CE Nwogu, SS Yendamuri, HR Nava, D Lamonica, CR Thomas Jr. Association of technetium^{99m} MAG-3 renal scintigraphy with change in creatinine clearance following chemoradiation to the abdomen in patients with gastrointestinal malignancies. (2010). *Journal of Gastrointestinal Oncology*, 1(1): 7-15.
 11. SA Seixas-Mikelus, A Adal, T Kesavadas, G Srimathveeravalli, A Hussain, **R Chandrasekhar**, GE Wilding, KA Guru. Can Image-based Virtual Reality Help Teach Anatomy? (2010). *Journal of Endourology*, 24(4): 629 - 634.
 12. MH Hayn, A Hussain, AM Mansour, PE Andrews, P Carpentier, E Castle, P Dasgupta, P Rimington, R Thomas, S Khan, A Kibel, H Kim, M Manoharan, M Menon, A Mottrie, D Ornstein, J Peabody, R Pruthi, JP Redorta, L Richstone, F Schanne, H Stricker, P Wiklund, **R Chandrasekhar**, GE Wilding, KA Guru. Standardization of Robot-assisted Radical Cystectomy: Results from the International Robotic Cystectomy Consortium. (2010). *European Urology*, 58(2): 197 - 202.
 13. SA Seixas-Mikelus, T Kesavadas, G Srimathveeravalli, **R Chandrasekhar**, GE Wilding, KA Guru. Face validation of a novel robotic surgical simulator. *Urology*. (2010). 76(2): 357 - 360.
 14. GY Yang, K Salerno May, RV Iyer, **R Chandrasekhar**, GE Wilding, SA McCloskey, NI Khushalani, SS Yendamuri, JF Gibbs, MG Fakih, CR Thomas Jr. Renal Atrophy Secondary to Chemoradiotherapy of Abdominal Malignancies. (2010). *International Journal of Radiation Oncology Biology Physics*, 78(2): 539 - 546.
 15. KA Guru, SA Seixas-Mikelus, A Hussain, AJ Blumenfeld, J Nyquist, **R Chandrasekhar**, GE Wilding. Robot-assisted Intra-corporeal Ileal Conduit: Marionette Technique and Initial Experience at Roswell Park Cancer Institute. (2010). *Urology*, 76(4): 866-871.
 16. B Yuh, A Hussian, **R Chandrasekhar**, M Bienko, P Piacente, GE Wilding, M Menon, J Peabody, KA Guru. Comparative Analysis of Global Practice Patterns in Urologic Robot-assisted Surgery. (2010). *Journal of Endourology*, 24(10): 1637-1644.
 17. Qiu J, S Kulkarni, **R Chandrasekhar**, M Rees, K Hyde, GE Wilding, D Tan, T Khoury. Delay to Formalin Fixation Effect on Estrogen and Progesterone Receptors in Breast Cancer: a Study of Three Different Clones. (2010). *American Journal of Clinical Pathology*, 134: 813 - 819.
 18. NC duPont, **R Chandrasekhar**, GE Wilding, KA Guru. Current trends in robot assisted surgery: A survey of gynecologic oncologists. (2010). *International Journal of Medical Robotics and Computer Assisted Surgery*, 6(4): 468 - 472.
 19. T Khoury, **R Chandrasekhar**, GE Wilding, D Tan, R Cheney. Tumor eosinophilia combined with an immunohistochemistry panel is useful in the differentiation of type B3 thymoma from thymic carcinoma. (2011). *International Journal of Experimental Pathology*, 92(2): 87-96.

20. Seixas-Mikelus, AP Stegemann, T Kesavadas, G Srimathveeravalli, G Sathyaseelan, **R Chandrasekhar**, GE Wilding, JO Peabody, KA Guru. Content Validation of a Novel Robotic Surgical Simulator. (2011). *British Journal of Urology International*, 107: 1130-1135.
21. T Kesavadas, AP Stegemann, G Sathyaseelan, AJ Chowriappa, G Srimathveeravalli, SA Seixas-Mikelus, **R Chandrasekhar**, GE Wilding, KA Guru. Validation of Robotic Surgical Simulator (RoSS). (2011). *Studies in Health Technology and Informatics*, 163: 274-6.
22. GE Wilding, **R Chandrasekhar**, AD Hutson. A new linear model-based approach for inferences about the mean area under the curve. (2012). *Statistics in Medicine*. 31(28): 3563-78.
23. T Khoury, FO Ademuyiwa, **R Chandrasekhar**, M Jabbour, A DeLeo, S Ferrone, Y Wang, X Wang. Aldehyde dehydrogenase 1A1 expression in breast cancer is associated with stage, triple negativity, and outcome to neoadjuvant chemotherapy. (2012). *Modern Pathology*, 25(3): 388-97.
24. AP Stegemann, S Rehman, K Brewer, T Kesavadas, A Hussain, **R Chandrasekhar**, GE Wilding, KA Guru. Short-term Patient Reported Quality of Life After Robot-Assisted Radical Cystectomy Using the Convalescence and Recovery Evaluation. (2012). *Urology*, 79(6):1274-9.
25. L Monhollen, C Morrison, A Foluso, **R Chandrasekhar**, T Khoury. Pleomorphic lobular carcinoma: A distinctive clinical and molecular breast cancer type. (2012). *Histopathology*, 61(3):365-77.
26. MA Poch, AP Stegemann, **R Chandrasekhar**, MH Hayn, GE Wilding, KA Guru. Does Body Mass Index Impact the Performance of Robot-Assisted Intracorporeal Urinary Diversion? (2012). *Journal of Endourology*, 26(7):857-60.
27. NK Malik, K Salerno May, **R Chandrasekhar**, WW Ma, L Flaherty, R Iyer, J Gibbs, B Kuvshinoff, GE Wilding, G Warren, GY Yang. Treatment of Locally Advanced Unresectable Pancreatic Cancer: A 10-year experience. (2012). *Journal of Clinical Oncology*, 3(4):326-334.
28. R Zoorob, M Buchowski, B Beech, JR Canedo, **R Chandrasekhar**, S Akohue, PC Hull. Healthy Families Study: Design of a Childhood Obesity Prevention Trial for Hispanic Families. (2013). *Contemporary Clinical Trials*. 35(2):108-21.
29. RA Epstein, WV Bobo, RC Shelton, PG Arbogast, JA Morrow, W Wang, **R Chandrasekhar**, WO Cooper. Increasing use of atypical antipsychotics and anticonvulsants during pregnancy. (2013). *Pharmacoepidemiology & Drug Safety*, 22(7):794-801.
30. RA Epstein, WV Bobo, PR Martin, JA Morrow, W Wang, **R Chandrasekhar**, WO Cooper. Increasing pregnancy-related use of prescribed opioid analgesics. (2013). *Annals of Epidemiology*, 23(8):498-503.
31. H Frangoul, E Min, W Wang, **R Chandrasekhar**, C Calder, M Evans, B Manes, K Bruce, V Brown, R Ho, J Domm. Incidence and Risk Factors for Hypogammaglobulinemia in Pediatric Patients Following Allogeneic Stem Cell Transplant. (2013). *Bone Marrow Transplantation*, 48(11):1456-9.
32. GY Yang, NK Malik, **R Chandrasekhar**, L Flaherty, R Iyer, B Kuvshinoff, J Gibbs, GE Wilding, JF Gibbs, K Salerno May. Change in CA 19-9 levels after chemoradiotherapy predicts survival in patients with locally advanced unresectable pancreatic cancer. (2013). *Journal of Gastrointestinal Oncology*, 4(4):361-369.
33. I Kane, T Abramo, M Meredith, A Williams, K Crossman, W Wang, **R Chandrasekhar**. Cerebral r_cSO₂ monitoring in pediatric altered mental status patients. (2014). *The American Journal of Emergency Medicine*, 32(4):356-62.
34. PJ Yoder, K Bottema-Beutel, T Woynaroski, **R Chandrasekhar**, M Sandbank. Social communication intervention effects vary by dependent variable type in preschoolers with autism spectrum disorders. (2014). *Evidence-Based Communication Assessment and Intervention*, 7(4): 150-174.
35. **R Chandrasekhar**, GE Wilding. A modification of a percentile estimation procedure based on generalized polya urns. (2014). *Communications in Statistics – Theory and Methods*; 2951-2957.
36. **R Chandrasekhar**, Shi Y, AD Hutson, GE Wilding. A novel approach to testing for bioequivalence based on modeling the within-period dependence structure. (2015). *Journal of Biopharmaceutical Statistics*, 25(6):1320-38.
37. AM Yevchak, JH Han, K Doherty, EG Archambault, B Kelly, **R Chandrasekhar**, EW Ely, JL Rudolph. Impaired Arousal in Older Adults Is Associated with Prolonged Hospital Stay and Discharge to Skilled Nursing Facility. (2015). *Journal of the American Medical Directors Association*, 16(7):586-9.
38. **R Chandrasekhar**, Shi Y, AD Hutson, GE Wilding. Likelihood-based inferences about the mean area under a longitudinal curve in the presence of observations subject to limits of detection. (2015). *Pharmaceutical Statistics*, 14(3):252-61.

39. *C Sloan, **R Chandrasekhar**, E Mitchel, W Schaffner, ML Lindegren. Socioeconomic disparities and influenza hospitalizations, Tennessee, USA. (2015). *Emerging Infectious Diseases*, 21(9):1602-10.
40. RA Epstein, DJ Schlueter, KA Gracey, **R Chandrasekhar**, MJ Cull. Examining placement disruption in child welfare. (2015). *Residential Treatment for Children & Youth*, 32(3): 224-232.
41. N Brummel, **R Chandrasekhar**, EW Ely. Willie sutton and the future of acute respiratory distress syndrome research. (2015). *American Journal of Respiratory and Critical Care Medicine* ;191(1):10-1.
42. JE Tomichek, JL Stollings, PP Pandharipande, **R Chandrasekhar**, EW Ely, TD Girard. Antipsychotic Prescribing Patterns During and After Critical Illness: A Prospective Cohort Study. (2016). *Critical Care*: 24; 20(1):378.
43. MB Patel, JC Jackson, A Morandi, TD Girard, CG Hughes, JL Thompson, AL Kiehl, MR Elstad, ML Wasserstein, RB Goodman, JC Beckham, **R Chandrasekhar**, EW Ely, PP Pandharipande. Incidence and Risk Factors for ICU-related Posttraumatic Stress Disorder In Veterans and Civilians. (2016). *American Journal of Respiratory and Critical Care Medicine*, 193(12): 1373-1381.
44. CG Hughes, PP Pandharipande, JL Thompson, **R Chandrasekhar**, LB Ware, EW Ely, TD Girard. Endothelial Activation and Blood-Brain Barrier Injury as Risk Factors for Delirium in Critically Ill Patients. (2016). *Critical Care Medicine*, 44(11):2003-2009.
45. BC Norman, JC Jackson, JA Graves, TD Girard, PP Pandharipande, NE Brummel, L Wang, JL Thompson, **R Chandrasekhar**, EW Ely. Employment Outcomes After Critical Illness: An Analysis of the Bringing to Light the Risk Factors and Incidence of Neuropsychological Dysfunction in ICU Survivors Cohort. (2016). *Critical Care Medicine*; 44(11):2003-2009.
46. SB Boyd, R Upender, AS Walters, RL Goodpaster, JJ Stanley, L Wang, **R Chandrasekhar**. Effective Apnea-Hypopnea Index (“Effective AHI”): A New Measure of Effectiveness for Positive Airway Pressure Therapy. (2016). *Sleep*; 39(11):1961-1972.
47. HM Kistka, A Nayeri, L Wang, J Dow, **R Chandrasekhar**, LB Chambless. Publication misrepresentation among neurosurgery residency applicants: an increasing problem. (2016). *Journal of Neurosurgery*; 124(1):193-8.
48. HA Smith, M Gangopadhyay, CM Goben, NL Jacobowski, MH Chestnut, S Savage, MT Rutherford, D Denton, JL Thompson, **R Chandrasekhar**, M Acton, J Newman, HP Noori, MK Terrell, SR Williams, K Griffith, TJ Cooper, EW Ely, DC Fuchs, PP Pandharipande. The Preschool Confusion Assessment Method for the ICU: Valid and Reliable Delirium Monitoring for Critically Ill Infants and Children. (2016). *Critical Care Medicine*; 44(3):592-600.
49. CG Hughes, MB Patel, JC Jackson, TD Girard, SK Geevarghese, BC Norman, JL Thompson, **R Chandrasekhar**, NE Brummel, AK May, MR Elstad, ML Wasserstein, RB Goodman, KG Moons, RS Dittus, EW Ely, PP Pandharipande. Surgery and Anesthesia are not associated with Cognitive Impairment after Major Noncardiac Surgery and Critical Illness. (2017). *Annals of Surgery*, 265(6):1126-1133.
50. JH Han, NE Brummel, **R Chandrasekhar**, JE Wilson, X Liu, EE Vasilevskis, TD Girard, ME Carlo, RS Dittus, JF Schnelle, EW Ely. Exploring Delirium's Heterogeneity: Association between Arousal Subtypes at Initial Presentation and 6-month Mortality. (2017). *American Journal of Geriatric Psychiatry*, 25(3):233-242.
51. NE Brummel, SP Bell, T Girard, PP Pandharipande, JC Jackson, A Morandi, JL Thompson, **R Chandrasekhar**, GR Bernard, RS Dittus, TM Gill, EW Ely. Frailty and Subsequent Disability and Mortality Among Patients with Critical Illness. (2017). *American Journal of Respiratory Critical Care Medicine*, 196(1):64-72.
52. JH Han, EE Vasilevskis, **R Chandrasekhar**, X Liu, JF Schnelle, RS Dittus, EW Ely. Delirium in the Emergency Department and its Effect on 6-month Function and Cognition. (2017). *Journal of the American Geriatrics Society*, 65(6):1333-1338.
53. HAB Smith, M Gangopadhyay, CM Goben, NL Jacobowski, MH Chestnut, JL Thompson, **R Chandrasekhar**, SR Williams, K Griffith, EW Ely, DC Fuchs, PP Pandharipande. Delirium and Benzodiazepines Associated with Prolonged ICU Stay in Critically Ill Infants and Young Children. (2017). *Critical Care Medicine*, 45(9):1427-1435.
54. JE Wilson, R Carlson, MC Duggan, P Pandharipande, TD Girard, L Wang, JL Thompson, **R Chandrasekhar**, A Francis, SE Nicolson, RS Dittus, S Heckers, EW Ely. Delirium and Catatonia in Critically Ill Patients: The DeCat prospective cohort investigation. (2017). *Critical Care Medicine*; 45(11):1837-1844.

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***Won the 2016 Patrick G. Arbogast Award, given annually to recognize one paper published by department members.**

****Won the 2019 Patrick G. Arbogast Award, given annually to recognize one paper published by department members.**

Underline denotes co-author is a student/supervisee

Published Commentary

98. MH Hayn, A Hussain, AM Mansour, PE Andrews, P Carpentier, E Castle, P Dasgupta, P Rimington, R Thomas, S Khan, A Kibel, H Kim, M Manoharan, M Menon, A Mottrie, D Ornstein, J Peabody, R

- Pruthi, JP Redorta, L Richstone, F Schanne, H Stricker, P Wiklund, **R Chandrasekhar**, GE Wilding, KA Guru. Reply from Authors re: Urs E. Studer, Laurence Collette. Robot-Assisted Cystectomy: Does It Meet Expectations? (2010). *European Urology*, 58(2).
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Tech Reports

103. C-X Ma, **R Chandrasekhar**, R Wu. Linkage Analysis for Misclassified Markers. <https://sphhp.buffalo.edu/content/dam/sphhp/biostatistics/Documents/techreports/UB-Biostatistics-TR1003.pdf>

Computational Packages

1. **R Chandrasekhar**, JC Miecznikowski, DP Gaile, V Govindaraju, FV Bright, KF Sellers: <https://sphhp.buffalo.edu/biostatistics/research-and-facilities/software/xerogel.html>

Outreach

1. CWS Webinar: Implicit Bias in Image Searches, M Johnston, D LaLonde, **R Chandrasekhar**, 2018. <https://cwstat.org/implicit-bias-in-image-searches/>
2. Mentor: Camp Talaria, Remote mentorship program. 2020