

Folefac Desiré Atem

UTHealth-SPH Dallas Campus

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PERSONAL

Spouse: Christa Atem, MD FACP.

Children: Mary-Grace; Eli & Ava.

Country of Birth: West Cameroon.

Citizenship: USA.

BACKGROUND

EDUCATION

- Harvard University, Cambridge, MA, PostDoc, 2014.
- University of Pittsburgh, Pittsburgh PA, Ph.D, 2010.
- Wright State University, Dayton, Ohio, M.S. 2006.
- University of Buea, Buea, Cameroon, B.Sc, 2002.

HONORS And AWARDS

- **Paul Dudley White International Scholar Award** to Recognize the Authors with Highest Ranked Abstract from the United States on the International Stroke Conference 2023
- Star award UTHealth-Houston 2021
- Field Institute Ontario Canada Travel Award 2016.
- Pre-Doctorate fellowship, NIH-NCI training grant: 2008-2010.
- NIH Disadvantage students Award 2006.

PROFESSIONAL EXPERIENCE

- **Associate Professor (Tenured)**, Department of Biostatistics & Data Science, University of Texas Health Science Center-Houston, TX USA. **2021 –**

Lead Statistician, Center for Pediatric Population Health, UTHealth & Children's Health, TX USA **2018—**

- **Associate Editor**
The American Journal of Physical Medicine and Rehabilitation **2021—**

- **Adjunct Associate Professor**, Department of Orthopaedic Surgery, University of Texas Southwestern Medical Center, Dallas, TX USA. **2024 –**

- **Adjunct Associate Professor**, Department of Physical Medicine & Rehabilitation, University of Texas Southwestern Medical Center, Dallas, TX USA. **2022 –**

- **Assistant Professor**, Department of Biostatistics & Data Science, University of Texas Health Science Center-Houston, TX USA. **2015–2021**

- **Adjunct Faculty**, Department of Neurology & Neurotherapeutics, UT Southwestern Medical Center, Dallas, TX USA. **2016–2021**

- **Research Associate**, Department of Emergency Medicine, Brigham and Women's Hospital Harvard Medical School, Boston MA 2011-2012

- **Contract Biometrician**, Pfizer 2/2011-6/2011

- **Consulting Biostatistician**, Allegheny Singer Research Institute - West Penn Hospital, Pittsburgh, PA 2006-2010
- **Research Assistant**, University of Pittsburgh, Pittsburgh, PA 2007-2010
- **Teaching Assistant**, Wright State University, Department of Mathematics and Statistics, Dayton OH, 2004-2006

TEACHING EXPERIENCE

Courses

- Instructor:** University of Texas Health Science Center-Houston **Graduate courses, PhD and Master Level** 2015—
- PH1690 :Foundation of Biostatistics (Summer 2016)
(Spring 2016) (Fall 2017)(Fall 2018 ,)(Fall 2019 face-to-face, ITV:)(Sprig 2020 online (Summer 2021, 2022, 2023 online))
 - PH1700 :Intermediate Biostatistics (Fall 2015) (Summer 2017, Fall 2020) (Summer 2018 online)
 - **Teaching Assistant** Mathematics & Statistics Wright States University
- Courses taught: Introduction to Statistics and Algebra 2004-2006

Thesis & Dissertations

Graduate Student Dissertations and Theses Chaired by Me

- Shannon Anjelica Allport, MD MPH. May 2016
- Afrida Faria, MPH. Aug 2018
- Phuong-Uyen N. Vo DO MPH. May 2019
- Aardhra Venkatachalam MPH. Dec 2019
- Sameer Z Al-Obaidi, MPH. Dec 2020
- Jeffrey G. Button MPH. Dec 2019
- Hilda Loria, MD MPH. May 2020
- Amna Butt, MBBS MPH. Dec 2020
- Amy Li, MPH May 2021
- Brandon Nussbaum, BS MS. July 2021
- Priyanka Rana MBBS MPH. Dec 2021
- Ifeoluwa T. Shoyombo MD MPH. May 2022
- Prachi Singh MD MPH. May 2022
- Curtis Herges MPH. May 2023
- Elyse Mcnamara-Pittler MPH(c). May 2024
- Chandana V. Golla MD(c) MPH(c) May 2024
- Vianai Carreno MPH(c) May 2024
- Connor Eichenwald MD(c) MPH(c) May 2024
- Wenting Liu MS PhD(c) Aug 2025

Masters and Doctoral Committees

- Katelyn K. Jetelina, MPH: Ph.D. Dept. of Epidemiology. 2016.
- Tiffany Kindratt PhD Dept. of Epidemiology. 2018.
- Alice Blanche Sylvie Djotsa, MS, MA, Ph.D Dept. of Epidemiology. 2018.
- John Bosco Umejiego MBBS Ph.D . Dept. of Epidemiology. 2018.
- Xiao Yu, MS: Ph.D Dept. of Biostat & Data Sc 2019.
- Sitara Weerakoon: MPH PhD Dept. of Epidemiology. 2019.
- Lauren Tien: MPH Dept. of Epidemiology. 2019.
- Jessica Austin MPH Ph.D Dept. of Health Promotion and Behavioral Sciences. 2019.
- Itunu Sokale MD, MPH, DrPH Dept. of Health Promotion and Behavioral Sciences. 2021.
- Luyu Xie PharmD, Ph.D . Dept. of Epidemiology. 2022.
- Eriko Iwatate, Ph.D . Dept. of Epidemiology. 2022.

- Madeline Roberts, Ph.D . Dept. of Epidemiology. 2022.
- Joshua Yudkin MPH Ph.D Dept. of Epidemiology. 2023.
- Quiera Booker MPH, Ph.D . Dept. of Epidemiology. 2023.
- Shanthi Raj MPH Ph.D Dept. of Health Promotion and Behavioral Sciences. 2023.
- Lauren Q Malthaner MPH Ph.D Dept. of Epidemiology. 2024.
- Samuel K. Darko MPH DrPH Dept. of Public Policy. 2024.

PROFESSIONAL SERVICES

Internal Professional Services

- **Recruitment:** Texas Southern University, Oct 2018
- **Recruitment:** Talk at University of Houston-Arlington, Nov 2017
- Academic Council Member for Dallas Campus, 2015–2021
- Global Health Advisor Dallas Campus, 2015—
- Admission Committee Member UT Health Biost & Data Sc. 2015—
- **Recruitment:** Talk at University of Houston-Victoria, Nov 2015

External Professional Services

- Mentor at ASA Diversity Mentoring Program, 2017—
- JPS Annual Research Day Judge, 2015, 2016, 2017.
- Coordinator of the NeuroStatistics Seminar series, Department of Biostatistics, Harvard T. H Chan School of Public Health, Fall 2014

Review Services

Grants

- Environmental influences on Child Health outcomes (ECHO) Cohort Study Sites Mar 2023
- NIH Cardiovascular and Respiratory Diseases Nov 2022
- NSF Reviewer 2022
- NIH Infectious Disease and Reproductive Epidemiology Nov 2021
- NIH-NIGMS Scientific Review for R25 Training Modules to Enhance the Rigor, Reproducibility and Responsible Conduct of Biomedical Data Science Research. Nov 2020—
- NIH Scientific Review for Clinical Observational (CO) Studies in Musculoskeletal, Rheumatic, and Skin Diseases (NIAMS) Study Section: Feb 2020, Oct 2024—
- NIH Scientific Review for cardiovascular and respiratory science R15 Study Section: May 2019—
- NIH Scientific Review for Neurological, Aging and Musculoskeletal Epidemiology (NAME) Study Section: Feb 2019, June 2020—
- Grants Reviewer, DOJ, Office of Justice Programs Bureau of Justice Assistance (BJA) 2017—

Journals

- Associate Editor for Research Design and Analysis
The American Journal of Physical Medicine and Rehabilitation 2021—
- Journal of Computational and Graphical Statistics 2024—
- Biostatistics 2018—
- Neurocritical Care Journal 2018—
- Nature 2017—
- BMJ 2017—
- Statistics in Medicine 2017—
- Pharmaceutical Statistics 2017—
- Biometrical Journal 2017—
- Journal of the Society for Clinical Trials 2016—
- Statistical Methodology 2016—
- International Journal of Medical Science and Public Health 2015—
- Journal of Health and Medical Economics 2015—
- Journal of Applied Statistics 2011—

Other Committees

- Member, Academic Council, University of Texas School of Public Health 2016-22
- Global Health Concentration Advisor for UT Health-Houston, Dallas Campus 2016—

Special Skills**Language**

French and English.

Computer Experience

Software: SAS, Python, R, Stata, Latex, Pascal, Java, M-Plus, S-plus.

SAS Certified Base Programmer

PROFESSIONAL AFFILIATIONS

- Society For Research On Nicotine and Tobacco 2020—
 American Statistical Association (ASA) 2006—
 Bilingual Grammar School-Buea EX Student Association (BIGSEA) 2000—

PUBLICATIONS (NB: Student paper Name*)

1. Malthaner, Lauren; McLeigh, Jill; Knell, Gregory; Jetelina, Katelyn; **Atem, Folefac**; Messiah, Sarah. Preventable Emergency Department Utilization among Patients with Foster Care History Compared to Patients without Foster Care History. **In Press Child Maltreatment**
2. Linda Denke, **Folefac D. Atem**, Michael Rubin. A Correlational Study of Spirituality and Burnout in Hospital Nurses. **In Press NCF JCN**
3. McNamara-Pittler, Elyse N.; Prakash, Ravi; **Atem, Folefac D.**; Pathak, Rashmi; Liu, Wenting; Khazzam, Michael; Jain, Nitin B. Risk Factor Prediction and Categorization for Glenohumeral Osteoarthritis: A Classification and Regression Tree (CART) Analysis. *American Journal of Physical Medicine & Rehabilitation* ():10.1097/PHM.0000000000002616, August 26, 2024. — DOI: 10.1097/PHM.0000000000002616 PMID: 39235849
4. Lauren Q. Malthaner, Jill D. McLeigh, Gregory Knell, Katelyn K. Jetelina, **Folefac Atem**, Sarah E. Messiah, Child maltreatment and behavioral health outcomes in child welfare: Exploring the roles of severity and polyvictimization, *Child Abuse & Neglect*, Volume 156, 2024, 106998, ISSN 0145-2134, <https://doi.org/10.1016/j.chiabu.2024.106998>. (<https://www.sciencedirect.com/science/article/pii/S0145213424001069>) PMID: 39213879
5. Linda Denke, Meredith Allen, **Folefac Atem**, Kavitha Nair. Heparin Versus Saline: A Comparative Study to Support Practice Change Within an Organization. **In Press Journal of Infusion Nursing**
6. Sokale I, Wilkerson J, Wermuth P, **Atem F**, Burnett J, Wejnert C, Khuwaja S, Troisi C; National HIV Behavioral Surveillance Study Group. Past-Year HIV Testing, Current Antiretroviral Therapy Use, and Participation in Services for People Who Inject Drugs. *AIDS Behav.* 2024 Jun 1. doi: 10.1007/s10461-024-04369-0. Epub ahead of print. PMID: 38822083.
7. Nguyen B, Marshall JL, Rana C* , **Atem F**, Stutzman SE, Olson DM Aiyagari V, Ray B. Prospective study examining the impact of cerebral angiography on quantitative pupillometer values in the interventional radiology suite. *BMJ Open* 2024;14:e080779. doi: 10.1136/bmjopen-2023-080779. PMID: 38423768
8. **Atem FD**, Bluestein MA, Chen B, Harrell MB, Messiah SE, Kuk AE, Pérez A. Application of inverse weighting analysis to assess the association of youth perceptions with the age of initiation of tobacco products. *Front. Public Health*, 20 February 2024 Sec. Substance Use Disorders and Behavioral Addictions Volume 12 - 2024 — <https://doi.org/10.3389/fpubh.2024.1203631>. PMID: 38450147
9. Simmonds KP, **Atem FD**, Welch BG, Ifejika NL. Racial and Ethnic Disparities in the Medical Management of Poststroke Complications Among Patients With Acute Stroke. *J Am Heart Assoc.* 2024 Feb 23:e030537. doi: 10.1161/JAHA.123.030537. Epub ahead of print. PMID: 38390802.

10. Prakash R, Gardner JE, Petric UB, Pathak R, **Atem F**, Jain NB. Association of age and sex at onset with Glenohumeral Osteoarthritis: A systematic review and meta-analysis. *Am J Phys Med Rehabil*. 2024 Jan 8. doi: 10.1097/PHM.0000000000002419. Epub ahead of print. PMID: 38207175.
11. Xie L*, **Atem F**, Mathew MS, Almandoz JP, Schellinger JN, Kapera O, Ngenge S, Francis J, Marroquin EM, McAdams C, Kukreja S, Schneider BE, Messiah SE. Factors Associated with the Decision to Complete Bariatric Metabolic Surgery among a Racially and Ethnically Diverse Sample of Adults: A Classification and Regression Tree Analysis. *Obes Surg*. 2023 Dec 18. doi: 10.1007/s11695-023-06999-0. Epub ahead of print. PMID: 38105283.
12. Heineman T, Orrick C, Phan T, Denke L, Atem F, Draganic K. Clinical decision support tools useful for identifying sepsis risk. *Nursing* 54(4):p 50-56, April 2024. DOI: 10.1097/01.NURSE.0001007628.31606.ee
13. Lebron CN, **Atem F**, Rana P, Natale R, Messiah SE. Child Care Center Staff Readiness to Change in an Early Childhood Obesity Prevention Program. *J Public Health Manag Pract*. 2024 Jul-Aug 01;30(4):526-534. doi: 10.1097/PHH.0000000000001850. Epub 2024 Jun 12. PMID: 38870370.
14. Yudkin JS(*), Allicock MA, **Atem FD**, Galeener CA, Messiah SE, Barlow SE. The Use of Electronic Health Record Data to Identify Variation in Referral, Consent, and Engagement in a Pediatric Intervention for Overweight and Obesity: A Cross-Sectional Study. *Popul Health Manag*. 2023 Oct 4;26(6):365–77. doi: 10.1089/pop.2023.0120. Epub ahead of print. PMID: 37792388; PMCID: PMC10698793.
15. Roberts MM*, Marino M, Wells R, **Atem FD**, Balasubramanian BA. Differences in Use of Clinical Decision Support Tools and Implementation of Aspirin, Blood Pressure Control, Cholesterol Management, and Smoking Cessation Quality Metrics in Small Practices by Race and Sex. *JAMA Netw Open*. 2023;6(8):e2326905. doi:10.1001/jamanetworkopen.2023.26905 [PMID: 37531106]
16. Venkatachalam AM*, Hossain SR, Manchi MR, Chavez AA, Abraham AM, Stone S, Truong V, Cobos CU, Khuong T, **Atem FD**, Welch B, Ifejika NL. Variability in the Transition of Care to Post-Stroke Rehabilitation During the First Wave of COVID-19. *Am J Phys Med Rehabil*. 2023 May 15. doi: 10.1097/PHM.0000000000002287. Epub ahead of print. PMID: 37205606.
17. Iwatate E*, **Atem FD**, Jones EC, Hughes JL, Yokoo T, Messiah SE. Trends in the relationship between suicide behaviors and obesity among adolescents in the United States from 1999 to 2019. *Eur Child Adolesc Psychiatry*. 2023 Mar 18;. doi: 10.1007/s00787-023-02191-y. [Epub ahead of print] PubMed PMID: 36933151.
18. Manchi MR, Venkatachalam AM, **Atem FD**, Stone S, Mathews AA, Abraham AM, Chavez AA, Welch BG, Ifejika NL. Effect of inpatient rehabilitation facility care on ninety day modified Rankin score in ischemic stroke patients. *J Stroke Cerebrovasc Dis*. 2023 Apr 7;32(6):107109. doi: 10.1016/j.jstrokecerebrovasdis.2023.107109. [Epub ahead of print] PubMed PMID: 37031503..
19. Thakur, B; Ayers, G; **Atem, F**; DeClerq, J; Jain, Nitin B. Statistical and methodological considerations for randomized-controlled trial design in physical medicine and rehabilitation. *American Journal of Physical Medicine & Rehabilitation* ():10.1097/PHM.0000000000002225, March 1, 2023. — DOI: 10.1097/PHM.0000000000002225
20. Yudkin JS, Allicock MA, **Atem FD**, Galeener CA, Messiah SE, Barlow SE. Efficacy of a Primary Care eHealth Obesity Treatment Pilot Intervention Developed for Vulnerable Pediatric Patients. *Child Obes*. 2023 Mar 9. doi: 10.1089/chi.2022.0185. Epub ahead of print. PMID: 36893214.
21. Iwatate E*, **Atem FD**, Jones EC, Hughes JL, Yokoo T, Messiah SE. Association of Obesity, Suicide Behaviors, and Psychosocial Wellness Among Adolescents in the United States. *J Adolesc Health*. 2023 Jan 14:S1054-139X(22)01020-5. doi: 10.1016/j.jadohealth.2022.11.240. Epub ahead of print. PMID: 36646564. ISSN 1054-139X, <https://doi.org/10.1016/j.jadohealth.2022.11.240>.
22. **Atem FD**, Bluestein MA, Harrell MB, Chen B, Messiah SE, Kuk AE, Sterling KL, Spells CE, Pérez A. Precise Estimation for the Age of Initiation of Tobacco Use Among U.S. Youth: Finding from the Population Assessment of Tobacco and Health (PATH) Study, 2013-2017.

- Biostat Biom Open Access J. 2022 Oct;11(1):555801. doi: 10.19080/bboaj.2022.11.555801. Epub 2022 Oct 21. PMID: PMC9912413.
23. Rana P*, **Atem FD**, Lebron C, Sunil Mathew M, Natale RA, Messiah SE. Relationship between teacher fidelity to an early childhood obesity prevention program and the Child care center nutrition and physical activity environment. *Prev Med Rep.* 2022 Dec;30:102024. doi: 10.1016/j.pmedr.2022.102024. eCollection 2022 Dec. PubMed PMID: 36262774; PubMed Central PMCID: PMC9574711.
 24. Draganic K, Denke L, **Atem FD**, Kershaw C, Williams K, England V. Longitudinal depression screening of frontline critical care nurses during the COVID-19 pandemic: A mixed-methods study. *Nursing.* 2023 Apr 1;53(4):54-61. doi: 10.1097/01.NURSE.0000920444.46279.2c. PMID: 36946641.
 25. Denke, L., **Atem, F. D.**, & Khazzam, M. (2022). Incidence of and predictors for serious opioid-related adverse drug events. *Nursing*, 52(10), 56-61. <https://doi.org/10.1097/01.NURSE.0000872476.95884.05>[PMID: 36129510]
 26. Xie L*, Gelfand A, Mathew MS, Atem FD, Delclos GL, Messiah SE. Association of corticosteroid use and attention deficit/hyperactivity disorder in asthmatic children varies by age. *J Asthma.* 2022 Jun 25:1-10. doi: 10.1080/02770903.2022.2089995. Epub ahead of print. PMID: 35696551.
 27. Xie LX, Gelfand A, Murphy CC, Mathew MS, **Atem F**, Delclos GL, Messiah S. Prevalence of polypharmacy and associated adverse outcomes and risk factors among children with asthma in the USA: a cross-sectional study. *BMJ Open.* 2022 Oct 13;12(10):e064708. doi: 10.1136/bmjopen-2022-064708. PMID: 36229143.
 28. Stutzman SE, Olson DM, Venkatachalam A, Barnes A, **Atem FD**. (2022). The Presence Of Cataract Does Not Influence Assessment Of The Pupillary Light Reflex Using Automated Pupillometry. *Journal of Caring Sciences.* 3(2):85-95. doi.org/10.37719/jhcs.2021.v3i2.0a001
 29. Xie L*, Gelfand A, Mathew MS, **Atem FD**, Srikanth N, Delclos GL, Messiah SE. Adverse Drug Events Related to Common Asthma Medications in US Hospitalized Children, 2000-2016 [published online ahead of print, 2022 Jun 8]. *Drugs Real World Outcomes.* 2022;10.1007/s40801-022-00304-8. doi:10.1007/s40801-022-00304-8. PMID 35676469
 30. Campos YA, Rana P, Reyes RG, Mazhar K, Stutzman SE, **Atem F**, Olson DM, Aiyagari V. Relationship Between Automated Pupillometry Measurements and Ventricular Volume in Patients With Aneurysmal Subarachnoid Hemorrhage. *J Neurosci Nurs.* 2022 Aug 1;54(4):166-170. doi: 10.1097/JNN.0000000000000657. Epub 2022 Jun 21. PMID: 35776519.
 31. de la Cruz-Muñoz N, Xie L, Quiroz HJ, Kutlu OC, **Atem F**, Lipshultz SE, Mathew MS, Messiah SE. Long-Term Outcomes after Adolescent Bariatric Surgery. *J Am Coll Surg.* 2022 Jul 15. doi: 10.1097/XCS.0000000000000325. Epub ahead of print. PMID: 36102560
 32. Kuk AE, Bluestein MA, Chen B, Harrell M, Spells CE, **Atem F**, Pérez A. The Effect of Perceptions of Hookah Harmfulness and Addictiveness on the Age of Initiation of Hookah Use among Population Assessment of Tobacco and Health (PATH) Youth. *Int J Environ Res Public Health.* 2022 Apr 21;19(9):5034. doi: 10.3390/ijerph19095034. PMID: 35564430; PMCID: PMC9105245.
 33. Ly, A.J.*, Reddy, Y.C., Jain, N.B., Du, L., **Atem, F.** and Khazzam, M., 2022. The role of familial predisposition in imaging-confirmed atraumatic rotator cuff tears. *Journal of Shoulder and Elbow Surgery*, 31(4), pp.819-823. [34699989]
 34. Natale R, **Atem FD**, Lebron C, Mathew MS, Weerakoon S, Chang C, Shelnett KP, Spector R, Altare F, Messiah SE. Cluster Randomized Trial of the Impact of an Obesity Prevention Intervention on Child Care Center Nutrition and Physical Activity Environment Over Two Years [published online ahead of print, 2021 Oct 1]. *Public Health Nutr.* 2021;1-25. doi:10.1017/S1368980021004109. PMID: 34593076
 35. Pfeifer CM, Xie L, **Atem FD**, Mathew MS, Schiess DM, Messiah SE. Body mass index as a predictor of sonographic visualization of the pediatric appendix. *Pediatr Radiol.* 2022 Jan;52(1):42-49. doi: 10.1007/s00247-021-05176-8. Epub 2021 Sep 15. PMID: 34524472.

36. Aardhra M. Venkatachalam*, Suzanne Stone, **Folefac D. Atem**, Alejandro Magadan, Sonja E. Stutzman, Anjali Perera, Kelly Kuchenbecker, DaiWai M. Olson. A Replication Study of the PREMISE Tool for Outcome Prediction After Stroke. *Acta Paulista de Enfermagem* 2021
37. Singh P, Stutzman SE, Venkatachalam A, Olson DM, Barnes A, **Atem FD**. Identification of abnormal pupil dilation velocity as a biomarker of cerebral injury in neurocritically ill patients. *Rev Bras Ter Intensiva*. 2021 Jul-Sep;33(3):412-421. doi: 10.5935/0103-507X.20210065. PMID: 35107552; PMCID: PMC8555398..
38. Nyancho D(*), **Atem FD**, Venkatachalam AM, Barnes A, Hill M, Traylor JI, Stutzman SE, Bedros N, Aiyagari V, Aoun SG. Anisocoria Correlates With Injury Severity and Outcomes After Blunt Traumatic Brain Injury. *J Neurosci Nurs*. 2021 Dec 1;53(6):251-255. doi: 10.1097/JNN.0000000000000613. PMID: 34620803.
39. Nussbaum BM*, Mathew MS, **Atem F**, Barlow SE, Gupta OT, Messiah SE. Distribution of comorbidities as primary diagnoses by obesity class among patients in a large US paediatric healthcare system. *Clin Obes*. 2021 Jul 12:e12478. doi: 10.1111/cob.12478. Epub ahead of print. PMID: 34250735.
40. Kindratt TB, Allicock M, **Atem F**, Dallo FJ, Balasubramanian BA. Email Patient-Provider Communication and Cancer Screenings Among US Adults: Cross-sectional Study. *JMIR Cancer*. 2021 Jul 30;7(3):e23790. doi: 10.2196/23790. PMID: 34328421.
41. Romito JW, **Atem FD**, Manjunath A, Yang A, Romito BT, Stutzman SE, McDonagh DL, Venkatachalam AM, Premachandra L, Aiyagari V. Comparison of Bispectral Index Monitor Data Between Standard Frontal-Temporal Position and Alternative Nasal Dorsum Position in the Intensive Care Unit: A Pilot Study. *J Neurosci Nurs*. 2022 Feb 1;54(1):30-34. doi: 10.1097/JNN.0000000000000635. PMID: 35007261.
42. Butt AA*, **Atem FD**, Stutzman SE, Aiyagari V, Venkatachalam AM, Olson DM, Yokobori S. (2021). Contribution of pupillary light reflex assessment to Glasgow coma scale for prognostication in patients with traumatic brain injury. *Journal of Neurocritical Care*. (Epub 17 May 2021): DOI: <https://doi.org/10.18700/jnc.210001>
43. Li A*, **Atem FD**, Venkatachalam AM, Barnes A, Stutzman SE, Olson DM. Admission Glasgow Coma Scale Score as a Predictor of Outcome in Patients Without Traumatic Brain Injury. *Am J Crit Care*. 2021 Sep 1;30(5):350-355. doi: 10.4037/ajcc2021163. PMID: 34467380.
44. Xie, L*, **Atem, F.**, Gelfand, A., Delcos, G., Messiah, S.E. (2021) Association between asthma and sugar-sweetened beverage consumption in the United States pediatric population. *J Asthma*. 2021 Feb 24:1-11. doi: 10.1080/02770903.2021.1895210. Epub ahead of print. [PMID: 33625285].
45. Xie LY*, **Atem FD**, Bar S, Mathew MS, Lebron C, Chang C, Natale R, Messiah SE.(2021) Relationship between parent perception of child anthropometric phenotype and body mass index change among children with developmental disabilities. *World J Pediatr*. 2021 Feb 19. doi: 10.1007/s12519-021-00420-5. Epub ahead of print. [PMID: 33604731.]
46. Mazhar, K., Olson, D.M., **Atem, F.D.**, Stutzman, S.E., Moreno, J., Venkatachalam, A. and Aiyagari, V. (2021) Supratentorial Intracerebral Hemorrhage Volume and Other CT Variables Predict the Neurological Pupil Index. *Clinical Neurology and Neurosurgery*,2020, 106410, ISSN 0303-8467,<https://doi.org/10.1016/j.clineuro.2020.106410>. [PMID: 33341651] (<http://www.sciencedirect.com/science/article/pii/S0303846720307538>)
47. Nyancho, D., Cheung, R., Venkatachalam, A., **Atem, F.**, Stutzman, S., Olson, D., Diercks, D., Johnson, M. and Novakovic-White, R., 2020. Initial Reliability and Validity testing of the DESTINY Stroke and Large Vessel Screening Tool. *Journal of Health and Caring Sciences*, 2(2), pp.112-122..
48. Andrew Sumarsono, Matthew W Segar, Luyu Xie, **Folefac Atem**, Sarah E Messiah, Jenny KR Francis, Neil Keshvani. (2020) Medicaid expansion and provision of prescription contraception to Medicaid beneficiaries. *Contraception*,2020,ISSN 0010-7824, <https://doi.org/10.1016/j.contraception.2020.11.005>. [PMID: 33212032]
49. Thakur B*, Nadim H, **Atem F**, Stutzman SE, Olson DM. (2021). Dilation velocity is associated with Glasgow Coma Scale scores in patients with brain injury. *Brain Injury* (Epub Dec.2020): doi.10.1080/02699052.2020.1861481 [PMID: 33347373]

50. Minor C, Tovar-Segura J, **Atem FD**, Stutzman SE, Manjunath A, Ahmed KM, Venkatachalam AM, Olson DM. (2021). Lack of standardization in determination of intracranial pressure. *CONNECT: The World of Critical Care Nursing*. 14(1): doi.10.1891/WFCCN-D-20-00013
51. Messiah, S. E., Xie, L., **Atem, F.**, Mathew, S. M., Qureshi, F., Schneider, B. E., & Muñoz, N. C. (2020). Disparity Between United States Adolescent Class II and III Obesity Trends and Bariatric Surgery Utilization, 2015-2018. *Annals of surgery*. [PMID: 32941272]
52. Messiah S.E. , Weerakoon S., **Atem F.**, Schulte M., Lebron C., Kambali S., Mathew M.,S., Chang C., Natale R.A. Determinants of accurate visual perception of child anthropometric phenotype among ethnically diverse preschool parents in the United States. *Health Soc Care Community*. 2020 Nov;28(6):2095-2104. doi: 10.1111/hsc.13020. Epub 2020 Jun 8. [PMID: 32510693].
53. Perez, C. A., Stutzman, S., Jansen, T., Perera, A., Jannusch, S., **Atem, F.**, & Aiyagari, V. (2020). Elevated blood pressure after craniotomy: A prospective observational study. *Journal of Critical Care*. <https://doi.org/10.1016/j.jcrc.2020.08.013>[PMID: 32942161]
54. Venkatachalam, A.* , Perera, A., Stutzman, S., Olson, D.M, Aiyagari, V., **Atem, F.**. Methods for Cleaning and Managing a Nurse-Led Registry. DOI: 10.1097/JNN.0000000000000542 [PMID: 33031211]
55. Matsouaka, R.A. and **Atem, F.D.**, (2020). Regression with a right-censored predictor using inverse probability weighting methods. *Statistics in medicine*, 39(27), pp.4001-4015. <https://doi.org/10.1002/sim.8704>.
56. Messiah, S.E, **Atem, F.**, Lebron, C., Ofori, A., Matthew, S., Chang, C., Natale, R.(2020) Comparison of Early Life Obesity-Related Risk and Protective Factors in Non-Hispanic Black Subgroups. *Maternal and Child Health Journal* <https://doi.org/10.1007/s10995-020-02979-3>. [PMID:32632842]
57. Austin, J.D.* , Allicock, M., **Atem, F.**, Lee, S.C., Balasubramanian, B.A., Fernandez, M.E. A Structural Equation Modeling Approach to Understanding Pathways Linking Survivorship Care Plans to Survivor-level Outcomes. *J Cancer Surviv*. 2020 May 30. doi: 10.1007/s11764-020-00896-6.[PMID: 32474862]
58. Natale, R., **Atem, F.D.**, Weerakoon, S., Lebron, C., Mathew, S., Sardinas, K., Chang, C., Shelnut, K.P., Spector, R., Altare, F., Messiah, S.E (2020). An Implementation Approach Comparison of a Child Care Center-Based Obesity Prevention Program. *Journal of Developmental & Behavioral Pediatrics*. [PMID: 32947578]
59. Kindratt, T.* , **Atem, F.**, Dallo, F.J., Allicock, M., Balasubramanian, B. (2020). The Influence of Patient–Provider Communication on Cancer Screening. DOI: 10.1177/2374373520924993. *Journal of Patient Experience* 1-10 [PMC7786660]
60. Messiah, S.E., Weerakoon, S., **Atem, F.**, Shulte, M., Lebron, C., Kimbali, S., Mathew, S., Chang, C., Natale, R.A. Determinants of accurate visual perception of child anthropometric phenotype among ethnically diverse preschool parents in the United States. *Health Soc Care Community*. 2020;00:1–10. <https://doi.org/10.1111/hsc.13020>. [PMID: 32510693]
61. Xie, L., Gelfand, A., Delclos, G.L., **Atem, F.D.**, Kohl, H.W., Messiah, S.E. Association between asthma and developmental disability and delay in the United States pediatric population. *JAMA Netw Open*. 2020 Jun 1;3(6):e207728. doi: 10.1001/jamanetworkopen.2020.7728. [PMID: 32543699]
62. Kindratt, T.* , Dallo, F.J., Allicock, M., **Atem, F.**, Balasubramania, n B. The influence of patient-provider communication on cancer screenings differs among racial and ethnic groups. *Preventive Medicine Reports*. 2020 Apr 2:101086. [PMID 32309115]
63. Weerakoon, S.M.* , Stutzman, S.E., **Atem, F.D.**, Kuchenbecker, K.S., Olson, D.M. and Aiyagari, V., 2020. Investigation of Pupillary Changes After Carotid Endarterectomy and Carotid Stent Placement Using Automated Pupillometry. *Journal of Stroke and Cerebrovascular Diseases*. 29(5):1-4. doi.org/10.1016/j.jstrokecerebrovasdis.2020.104693. [PMID:32107154]
64. Xie, L.* , **Atem, F.**, Gelfand, A., Bauer, C. and Messiah, S.E., 2020. United States Prevalence of Pediatric Asthma by Environmental Tobacco Smoke Exposure, 2016-2017. *Journal of Asthma*. DOI: 10.1080/02770903.2019.1709868.[PMID:31877060]

65. Leung, L.W., Gallagher, M.M., Santangeli, P., Tschabrunn, C., Guerra, J.M., Campos, B., Hayat, J., **Atem, F.**, Mickelsen, S. and Kulstad, E., 2019. Esophageal Cooling For Protection During Left Atrial Ablation: A Systematic Review And Meta-Analysis. *Journal of Interventional Cardiac Electrophysiology*. <https://doi.org/10.1007/s10840-019-00661-5>. [PMID: 31758504]
66. Al-Obaidi, S.*, **Atem, F.**, Stutzman, S.E., Aiyagari, V. and Olson, D.M., 2019. Investigating the Association Between Eye Colour and Neurological Pupil Index. *Australian Critical Care*. (Epub 20 November 2019). doi.org/10.1016/j.aucc.2019.10.001 . [PMID: 31759859]
67. Al-Obaidi, S.Z.*, **Atem, F.D.**, Stutzman, S.E. and Olson, D.M., 2019. Impact of Increased Intracranial Pressure on Pupillometry: A Replication Study. *Critical Care Explorations*. 1(10):e0054 [doi: 10.1097/ce.0000000000000054](https://doi.org/10.1097/ce.0000000000000054).
68. Lussier, B.L., Stutzman, S.E., **Atem, F.**, Venkatachalam, A.M., Perera, A.C., Barnes, A., Aiyagari, V. and Olson, D.M., 2019. Distributions and Reference Ranges for Automated Pupillometer Values in Neurocritical Care Patients. *Journal of Neuroscience Nursing*. 51(6):335-340. [doi: 10.1097/JNN.0000000000000478](https://doi.org/10.1097/JNN.0000000000000478). [PMID: 31688284]
69. Olson, D.M., Perera, A., **Atem, F.**, Wagner, A.S., Zanders, M., Venkatachalam, A.M., Stutzman, S.E. (2019). Music in mechanically ventilated stroke patients. *British Journal of Neuroscience Nursing*. 15(sup5):s8-s13. doi.org/10.12968/bjnn.2019.15.Sup5.S8
70. Bandiera, F.C., Pérez-Stable, E.J., **Atem, F.**, Caetano, R., Vidot, D.C., Gellman, M.D., Navas-Nacher, E.L., Cai, J., Talavera, G., Schneiderman, N. and Kaplan, R., 2019. At risk alcohol consumption with smoking by national background: Results from the Hispanic community health study/study of Latinos. *Addictive Behaviors*, p.106087. <https://doi.org/10.1016/j.addbeh.2019.106087>. [PMID: 31466016]
71. Andaluz, A., DeMoss, D., Claassen, C., Blair, S., Hsu, J., Bakre, S., **Atem, F.**, Khan, M., Rush, A.J, 2019. Fixed-dose gabapentin augmentation in the treatment of alcohol withdrawal syndrome: a retrospective, open-label study. *The American Journal of Drug and Alcohol Abuse*, DOI: 10.1080/00952990.2019.1634085 [PMID: 31490712]
72. Olson, D.M, **Atem, F.**, Busch, R.D. 2019. Evaluation of a New Catheter for Simultaneous Intracranial Pressure Monitoring and Cerebral Spinal Fluid Drainage: A Pilot Study. *Neurocritical Care*. [doi: 10.1007/s12028-019-00722-7](https://doi.org/10.1007/s12028-019-00722-7). [PMID: 31115826].
73. Osman, M., Stutzman, S., **Atem, F.**, Olson, D., Hicks, A.D., Ortega-Perez, S., Aoun, S.G., Salem, A., Aiyagari, V. 2019. Correlation of Objective Pupillometry to Midline Shift in Acute Stroke Patients. *Journal of Stroke & Cerebrovascular Diseases*. DOI: <https://doi.org/10.1016/j.jstrokecerebrovasdis.2019.03.055>. [PMID:31031146]
74. Ortega-Perez, S., Shoyombo, I., Aiyagari, V., **Atem, F.**, Hill, M., Stutzman, S., Olson, D.M. 2019 Pupillary light reflex values as predictors of clinical outcomes in subarachnoid hemorrhage. *JNN* June 6 [doi: 10.1097/JNN.0000000000000443](https://doi.org/10.1097/JNN.0000000000000443). [PMID:31180942].
75. **Atem, F.D.**, Matsouaka, R.A and Zimmern, V*. 2019. Cox regression with randomly censored covariates. *Biometrical Journal* 61(4):1020-1032 DOI: 10.1002/bimj.201800275. [PMID: 30908720].
76. Jetelina, K.K., Gonzalez, J.M.R., Cuccaro, P.M., Peskin, M.F., Pompeii, L., **Atem, F.**, Elliott, M.N., Earnshaw, V.A., Davies, S.L. and Schuster, M.A., 2019. Self-reporting discrepancies of bullying victimization and perpetration measures. *Annals of Epidemiology* 32: 58-63. [PMID: 30799205].
77. **Atem, F.D.**, Sampene, E. and Greene, T.J*, 2019. Improved conditional imputation for linear regression with a randomly censored predictor. *Statistical methods in medical research*, 28, no. 2 (2019): 432-444.. <https://doi.org/10.1177/0962280217727033>. [PMID: 28830304].
78. Jetelina, K.K., Gonzalez, J.M.R., Cuccaro, P.M., Peskin, M.F., Pompeii, L., **Atem, F.**, Elliott, M.N., Earnshaw, V.A., Davies, S.L. and Schuster, M.A., 2019. Mechanisms and frequency of violent injuries among victims and perpetrators of bullying. *Journal of Adolescent Health*. 64(5), pp.664-670. [PMID: 30612808].

79. Aoun SG, Stutzman S, Phuong-uyen Vo, El Ahmadih TY, Osman M, Neeley O, Plitt A, Caruso J, Aiyagari V, **Atem F**, White JA, Welch BG, Batjer HH, Olson D. 2019. Detection of delayed cerebral ischemia using objective pupillometry in patients with aneurysmal subarachnoid hemorrhage. *Journal of neurosurgery*, 1(aop), pp.1-6.[PMID: 30641848]
80. Qian, J., Chiou, S.H., Maye, J.E., **Atem, F.**, Johnson, K.A. and Betensky, R.A., 2018. Threshold regression to accommodate a censored covariate. *Biometrics*, 74(4), pp.1261-1270. PMID: PMC6321791 DOI: 10.1111/biom.12922 PMID: 29933515
81. Shoyombo, I*, Aiyagari, V., Stutzman, S.E., **Atem, F.**, Hill, M., Figueroa, S.A., Miller, C., Howard, A. and Olson, D.M., 2018. Understanding the Relationship Between the Neurologic Pupil Index and Constriction Velocity Values. *Scientific reports*, 8(1), pp.1-6.[PMID: 29725074].
82. West, J., Stutzman, S.E., **Atem, F.** and Olson, D.M., 2018. Formatting an experiential learning education module to encourage dysphagia assessment in apheresis patients. *Journal of clinical apheresis*, 33(1), pp.72-77[PMID: 28766740].
83. Olson, D.M., Stutzman, S.E., **Atem, F.**, Kincaide, J.D., Ho, T.T., Carlisle, B.A. and Aiyagari, V., 2017. Establishing normative data for pupillometer assessment in neuroscience intensive care: The “END-PANIC” registry. *Journal of Neuroscience Nursing*, 49(4), pp.251-254[PMID: 28661950].
84. **Atem, F.** and Matsouaka, R.A., 2017. Linear regression model with a randomly censored predictor: Estimation procedures. arXiv preprint arXiv:1710.08349. *Biostat Biometrics Open Acc J.* 2017;1(2):DOI: 10.19080/BBOAJ.2017.01.555556[Not Funded]..
85. Saif, N.A*, Allport, S.A., Kikah, N., and **Atem, F.D.**, 2017. Parental-Offspring Association of Age of Onset of Coronary Heart Disease or Stroke. A Prospective Cohort Study of Parents and Offspring. *Int J Med.Public Health.* 10.5530/ijmedph.1.3,7(1), 23-27[Not Funded].
86. Rogers, M., Stutzman, S.E., **Atem, F.D.**, Sengupta, S., Welch, B. and Olson, D.M., 2017. Intracranial pressure values are highly variable after cerebral spinal fluid drainage. *Journal of Neuroscience Nursing*, 49(2), pp.85-89.[PMID: 28277450].
87. **Atem, F.D.**, Qian, J., Maye, J.E., Johnson, K.A. and Betensky, R.A., 2017. Linear regression with a randomly censored covariate: application to an Alzheimer’s study. *Journal of the Royal Statistical Society: Series C (Applied Statistics)*, 66(2), pp.313-328 [PMID: 28239197].
88. Allport, S.A*, Kikah, N., Saif, N.A., Ekokobe, F. and **Atem, F.D.**, 2016. Parental age of onset of cardiovascular disease as a predictor for offspring age of onset of cardiovascular disease. *PloS one*, 11(12), p.e0163334[PMID: 28002456].
89. Bandiera, F.C., **Atem, F.**, Ma, P., Businelle, M.S. and Kendzor, D.E., 2016. Post-quit stress mediates the relation between social support and smoking cessation among socioeconomically disadvantaged adults. *Drug and alcohol dependence*, 163, pp.71-76[PMID: 27085499].
90. **Atem, F.D.**, Qian, J., Maye, J.E., Johnson, K.A. and Betensky, R.A., 2016. Multiple imputation of a randomly censored covariate improves logistic regression analysis. *Journal of applied statistics*, 43(15), pp.2886-2896[PMID: 27713593].
91. **Atem, F.**, Ngwa, J.S. and Adeniji, A., 2012. Regression Models for Mixed Over-Dispersed Poisson and Continuous Clustered Data: Modeling BMI and Number of Cigarettes Smoked Per Day. *Journal of Modern Applied Statistical Methods*, 11(1), p.19.[Not Funded].
92. Greenspan, R.L., Suprenant, V. and **Atem, F.**, 2012. Visualization of distal spinal cord on F-18 FDG PET/CT. *Clinical nuclear medicine*, 37(2), pp.137-141 [PMID: 22228335].
93. Cho,R., Srinivasan, V., Javed, N., Traub, D., Kodali, S. and **Atem, F.**. A review of the Hydrate Trial. *Cardiology Treatment Strategies Cardiology Vol 3 Issue 1 2011 (64-65)*[Not Funded].
94. Costa, R., Abdulhaq, H., Haq, B., Shadduck, R.K., Latsko, J., Zenati, M., **Atem, F.D.**, Rossetti, J.M., Sahovic, E.A. and Lister, J., 2011. Activity of azacitidine in chronic myelomonocytic leukemia. *Cancer*, 117(12), pp.2690-2696 [PMID: 21656746].
95. **Atem, F.D.**, Sharma, R.K. and Anderson, S.J., 2011. Fitting bivariate multilevel models to assess long-term changes in body mass index and cigarette smoking. *Journal of Applied Statistics*, 38(9), pp.1819-1831[Not Funded].

96. Pathe, N.P., Khalid, S., Khan, C., **Atem, F.D.**, Trombetta, M.G. and Geyer, C.E., 2011. Defining survival for patients with breast cancer with brain metastases. *Journal of Clinical Oncology*, 29(27 suppl), pp.258-258. DOI: 10.1200/jco.2011.29.27 suppl.258
97. Cho, R., Javed, N., Traub, D., Kodali, S., **Atem, F.** and Srinivasan, V., 2010. Oral hydration and alkalization is noninferior to intravenous therapy for prevention of contrast-induced nephropathy in patients with chronic kidney disease. *Journal of interventional cardiology*, 23(5), pp.460-466 [PMID: 20796166].
98. Krishnamurti, U., Zarineh, A., **Atem, F.D.** and Silverman, J.F., 2011. Correlation of immunohistochemical expression of p53 with unamplified chromosome 17 polysomy in invasive breast carcinoma. *Applied Immunohistochemistry & Molecular Morphology*, 19(1), pp.28-32 [PMID: 20823770].
99. Haq, B., Sahovic, E.A., Rossetti, J.M., Shadduck, R.K., **Atem, F.** and Lister, J., 2009. Hemorrhagic Cystitis (HC) in Hematopoietic Stem Cell Transplant (HSCT) Recipients Using Ablative Fludarabine/Busulfan (FB) Conditioning with and without Total Body Irradiation (TBI). *Biology of Blood and Marrow Transplantation*, 15(2), p.94. DOI: 10.1016/j.bbmt.2008.12.290.
100. Krishnamurti, U., Hammers, J.L., **Atem, F.D.**, Storto, P.D. and Silverman, J.F., 2009. Poor prognostic significance of unamplified chromosome 17 polysomy in invasive breast carcinoma. *Modern Pathology*, 22(8), p.1044. [PMID: 19396150].

Other Team Publications

101. Privitera CM, Neerukonda SV, Aiyagari V, Yokobori S, Puccio AM, Schneider NJ, Stutzman SE, Olson DM; **END PANIC Investigators**. A differential of the left eye and right eye neurological pupil index is associated with discharge modified Rankin scores in neurologically injured patients. *BMC Neurol*. 2022 Jul 22;22(1):273. doi: 10.1186/s12883-022-02801-3. PMID: 35869429; PMCID: PMC9306158. Copy Download .nbib

RESEARCH SUPPORT

- Grant Title: The Genetic Epidemiology of Rotator Cuff Tears (The CuffGEN Study)
Funding Agency NIH (R01AR074989)
Objective: Developing Robust Statistical Methodologies to Address Challenges in Physical Medicine and Rehabilitation Research.
Role: Supplement
PI/Mentor: Nitin Jain and Eric D. Peterson
Start - End Date: 09/01/2020 - 08/31/2025
- Operative versus Non-Operative Treatment for Atraumatic Rotator Cuff Tears: A Multicenter Randomized Controlled Pragmatic Trial Patient Centered Outcomes Research Institute (PCORI) PCS-1605-35413.
PI : Nitin Jain
Role: Statistician
This is a 18-center randomized controlled trial on arthroscopic rotator cuff repair versus physical therapy without surgery for atraumatic rotator cuff tears. The trial will answer the questions that patients and clinicians ask on the efficacy of surgery versus non-operative treatment for rotator cuff tears.
Start - End Date: 07/01/2017 - 06/30/2025
- Grant Title : Partnering lifestyle intervention with bariatric surgery to maximize health outcomes in adolescents Funding Agency NIH (R21HD101854)
Start - End Date: 03/07/2022 - 02/29/2024
Faculty Role Messiah(PI)
Lead Statistician
- Grant Title: Age of initiation of tobacco products among USA youth and young adults (1R01CA234205-01A1).
Funding Period: 05/01/2020-04/30/2022 -2/23.

