

# Curriculum Vitae

Name: Christina Sato Boncyk

## Education

2009 B.S. in Biochemistry from Northern Michigan University, Marquette, MI  
2013 M.D. from University of Wisconsin School of Medicine and Public Health, Madison, WI  
08/2020 - Present Masters in Public Health from Vanderbilt University School of Medicine, Nashville, TN

## Training

2017 Residency in Anesthesiology from University of Wisconsin Hospital and Clinics, Madison, WI  
2018 Fellowship in Critical Care Medicine from Vanderbilt University Hospital, Nashville, TN

## Licensure and Certification

2014 - Present Medical License, Wisconsin of Wisconsin (62953-20)  
2018 - Present Medical License, Tennessee of Tennessee (57170)  
2018 - Present Certification, Critical Care Medicine

## Academic Appointments

07/2018 - Present Assistant Professor of Anesthesiology, Vanderbilt University (Nashville, Tennessee)

## Professional Organizations

2018 American Society of Anesthesiology  
2019 American Delirium Society  
2019 Society of Critical Care Medicine  
2020 International Anesthesia Research Society  
2021 American Thoracic Society

## Professional Activities

### Intramural

2019 - Present Vanderbilt Staff Steering Committee on Women's Initiatives; Professional Development Subcommittee, Anesthesiology  
08/2020 - Present Biomarkers Core, Anesthesiology, Co-Leader

## Teaching Activities

08/2018 - 08/2018 Burn ICU residents: Pain, Agitation, and Delirium, Instructor, Burn ICU  
08/2018 - 08/2018 Critical Care Fellows: Cadaver laboratory, Instructor, Cadaver lab, instructed in the placement of chest tubes and tracheostomy placement on cadavers with the critical care fellows  
09/2018 - 09/2018 ISC: Critical Illness CBL Milestones: Imm 2018-19 Sec 09: Critical Illness CBL, Instructor, Ebling library, problem based learning discussion with medical students highlighting critical care elements and the evidence practice behind decision making  
12/2018 - 12/2018 Renal Physiology, Instructor  
01/2019 - 08/2019 GI/nutrition board review, Instructor  
03/2019 - 08/2019 Critical Illness Seminar, Instructor, 3 day lecture, OSCE, journal club, and PBLD discussion series

## Other Significant Activities

N/A ICU Survivors Support Group: Co-Facilitator of weekly support group meetings with ICU survivors

## Grants and Funding

5T32 GM108554-06 NIH Antipsychotic medication prescribing patterns for ICU delirium Role: Co-Investigator	Eric Delpire (PI)	07/2018 - 06/2020
R01 AG053582 NIA Maximizing Treatment of Neurologic Dysfunction using Intravenous Guanfacine Role: Co-Investigator	Johnson-Akeju (PI)	07/2020 - Present
MRTG-02-15-2020-Boncyk FAER/SAAAPM The Impact of Increased Prescribing on ICU Survivors Role: Principal Investigator	Boncyk (PI)	07/2020 - Present

## Honors / Awards

2019	Travel Grant, NIDUS, 7th Annual Delirium Boot Camp
2020	Travel Grant, Alzheimer's Association, 7th Annual Neurotoxicity Conference
04/2020	Alumni Achievement Award, NIDUS

## Publications

### Peer Reviewed Publications

#### Research Papers

1. Wentland AL, Wieben O, Francois CJ, **Boncyk C**, Munoz Del Rio A, Johnson KM, Grist TM, Frydrychowicz A. Aortic Pulse Wave Velocity Measurements with Undersampled 4D Flow-Sensitive MRI: Comparison to 2D and Algorithm Determination. *J Magn Reson Imaging* 2013 April;37(4):853-859. PMID: 23124585.
2. **Boncyk C**, Schroeder KM, Anderson B, Galgon RE. Two Methods for Teaching Basic Upper Airway Sonography. *J Clin Anesth* 2016 June;31:166-172. PMID: 27185702.
3. **Boncyk C**, Hess AS, Gaskell A, Sleigh J, Sanders RD. Does benzodiazepine administration affect patient satisfaction: a secondary analysis of the ConCIOUS study. *BJA* 2017 February;118(2):266-267. PMID: 28100532.
4. Sanders RD, Gaskell A, Raz A, Winders J, Stevanovic A, Rossaint R, **Boncyk C**, Defresne A, Tran G, Tasbihgou S, Meier S, Vlisides PE, Fardous H, Hess AS, Bauer RM, Absalom A, Mashour GA, Bonhomme V, Coburn M, Sleigh J. Incidence of Connected Consciousness after Tracheal Intubation: A Prospective, International, Multicenter Cohort Study of the Isolated Forearm Technique. *Anesthesiology* 2017 February;126(2):214-222. PMID: 27984262.
5. Rowley P, **Boncyk C**, Gaskell A, Absalom A, Bonhomme V, Coburn M, Raz A, Sleigh JW, Sanders RD. What Do People Expect of General Anesthesia?. *BJA* 2017 April;118(4):486-488. PMID: 28403409.
6. Hernandez BA, Lindroth H, Rowley P, **Boncyk C**, Raz A, Gaskell A, Garcia PS, Sleigh J, Sanders RD. Post Anesthesia Care Unit Delirium: Incidence, Risk Factors and Associated Adverse Outcomes. *BJA* 2017 August;119(2):288-290. PMID: 28854553.
7. **Boncyk, CS**, Farrin E, Stollings JL, Rumbaugh K, Willson JE, Marshall M, Xiaoke F, Shotwell MS, Pandharipande PP, Hughes CG. Pharmacologic Management of Intensive Care Unit Delirium: Clinical Prescribing Practices and Outcomes in over 8500 Patient Encounters. *Anesth Analg* 2021 January; PMID: 33433117.

#### Research Articles

1. Lassen-Greene CL, Nordness M, Kiehl A, Jones A, Jackson JC, **Boncyk CS**. Peer Support Group for Intensive Care Unit Survivors: Perceptions on Supportive Recovery in the Era of Social Distancing. *Ann Am Thorac Soc* 2020 October.

#### Review Articles

1. **Boncyk C**, Henson CP. Critical Care Pain Management in the Era of Enhanced Recovery and the War on Opioids. *SOCCA Interchange* 2018 October;29(3):3-4.
2. **Boncyk CS**, Rengel KF, Pandharipande PP, Hughes CG. In the ICU – delirium post cardiac arrest. *Curr Opin Crit Care* 2019 April; PMID: 30985357.

### Editorials

1. **Boncyk C**, Nahrwold DA, Hughes CG. Targeting light versus deep sedation for patients receiving mechanical ventilation. *J Emerg Crit Care Med* 2018 October;2:79.
2. R.E. Freundlich, C.S. Boncyk. Clearly-defined outcomes improve the quality of health outcomes research. *British Journal of Anaesthesia* 2018 November;122(1):14-16.
3. **Boncyk CS**, Jelly CA, Freundlich RE. The Blessing and the Curse of the Administrative Database. *Ann Am Thorac Soc* 2020 February;17(2):174-175.

### Case Reports

1. **Boncyk CS**, Brennan KA, Guillaumondegui O, Benson C. Continuous Intrathecal Morphine Infusion for Pain Management in a Polytrauma Patient: A Case Report. *A&A Pract* 2020 October;14(13):e01338. PMID: 33185403.

### Letters

1. **Boncyk C**, Hughes CG. Delirium after Cardiac Surgery and Cognitive Change: Comment. *Anesthesiology* 2019 May;130(5):857-859. PMID: 30994565.

## Non-Peer Reviewed Publications

### Book Chapters

1. **Boncyk, C**, Ely EW, Pandharipande P. How Do I Diagnose, Treat, and Reduce Delirium in the Intensive Care Unit?. Evidence-based practice of Critical Care. Editors: Deutschman and Neligan. United States: Elsevier; 2019 September;631-641.

### Editorials

1. **Boncyk CS**, Mart MF, Ely EW. Is COVID-19 Sepsis?. *Medscape* 2020 October.

### Evidence-Based Guidelines

1. Chan MTV, Hedrick TL, Egan TD, Garcia PS, Koch S, Purdon PL, Ramsay MA, Miller TE, McEvoy MD, Gan TJ, Perioperative Quality Initiative (POQI) 6 Workgroup. American Society for Enhanced Recovery and Perioperative Quality Initiative Joint Consensus Statement on the Role of Neuromonitoring in Perioperative Outcomes: Electroencephalography. 2019 November; PMID: 31764163.
2. Hughes CG, **Boncyk CS**, Culley DJ, Lee FA, Leung JM, McDonagh DL, Gan TJ, McEvoy MD, Miller TE, for the POQI 6 Workgroup. American Society for Enhanced Recovery (ASER) and Perioperative Quality Initiative (POQI) Joint Consensus Statement on Postoperative Delirium Prevention. 2020 January; PMID: 32022748.
3. Thiele RH, Shaw AD, Bartels K, Brown CH 4<sup>th</sup>, Grocott H, Heringlake M, Gan TJ, Miller TE, McEvoy MD, Perioperative Quality Initiative (POQI) 6 Workgroup. American Society for Enhanced Recovery and Perioperative Quality Initiative Joint Consensus Statement on the Role of Neuromonitoring in Perioperative Outcomes: Cerebral Near-Infrared Spectroscopy.. 2020 November; PMID: 33079868.

## Presentations

### Problem based learning discussion

1. Boncyk C, Hughes CG. American Society of Anesthesiologists (ASA). San Francisco, California. 2018 Oct 14; Massive Aspiration and Acute Respiratory Failure: What Preventative and Treatment Strategies Do We Have?.
2. Boncyk C. American Society of Anesthesiologists (ASA). San Francisco, California. 2018 Oct 16; Massive Aspiration and Acute Respiratory Failure: What Preventative and Treatment Strategies Do We Have?.

### Presentations at Scientific Meetings

1. LaRue A, Hermann B, Jones J, Boncyk T, Sager MA. Alzheimer's Association International Conference on Prevention of Dementia. Washington, District of Columbia. 2007; Effect of Family History of Alzheimer's Disease on Serial Position Profiles.

2. Boncyk C, Frydrychowicz A, Loecher M, Landgraf BR, Nett EJ, Wieben O, Francois CJ. International Society for Magnetic Resonance in Medicine Annual Conference. Quebec, Canada. 2011; 4D Flow-Sensitive MRI Validation of Flow Quantification in Patients With Congenital Heart Disease.
3. Boncyk C, Galgon RE, Anderson B, Schroeder KM. American Society of Anesthesiologists Annual Conference. Washington, District of Columbia. 2012; Two Methods for Teaching Ultrasound Upper Airway Assessment: A Randomized, Controlled Learning Assessment.
4. Boncyk C, Donnelly M, Ramamoorthy J, Agarwal S. 40th Annual Regional Anesthesiology and Acute Pain Medicine Meetings. Las Vegas, Nevada. 2015; A Case Series of Patients Utilizing Both Regional Analgesia and Rib Stabilization for the Management of Multiple Traumatic Rib Fractures.
5. Leiendecker ER, Boncyk C, Hammel L. American Society of Anesthesiologists Annual Conference. San Diego, California. 2015; Perioperative Anesthetic Considerations For Patients With Hereditary Multiple Exostoses.
6. Boncyk C, Schulz A, Galgon RE. American Society of Anesthesiologists Annual Conference. San Diego, California. 2015; Intubation Following Iatrogenic Upper Esophageal Perforation.
7. Boncyk C, Hess AS, Sanders RD. 16th World Congress of Anaesthesiologists. Hong Kong. 2016; Does Preoperative Midazolam Improve Patient Satisfaction? A Secondary Analysis of the ConSCIOUS Study.
8. Boncyk C, Stollings J, Marshall M, Feng X, Shotwell M, Pandharipande P, Hughes C. Society of Critical Care Medicine Annual Conference. SCCM; Orlando, Florida. 2020 Feb 17; Are Antipsychotics Harmful in Symptoms Management of ICU Delirium?.

### **Workshop**

1. Boncyk C, Culley D, Leung J, McDonagh D, Fleisher L, Hughes CG. Perioperative Quality Initiative Meeting. Dallas, Texas. 2018 Nov 30; Post-operative delirium - joint consensus statements.

### **University Talk**

1. Vanderbilt University School of Nursing; Nashville, Tennessee. 2019 Apr 2; Delirium and Sedation in Critical Care.

### **Invited Presentation - Local**

1. St. Thomas Neuroscience Symposium. St. Thomas Hospital; Nashville, Tennessee. 2019 Apr 6; Delirium in the ICU.

### **Internal Grand Rounds**

1. C Boncyk. Anesthesiology Grand Rounds. Department of Anesthesiology; Nashville, Tennessee. 2020 Feb 7; The Impact of Increased Medication Burden During Acute Hospitalization.