

PROMOTION RECOMMENDATION
THE UNIVERSITY OF MICHIGAN
MEDICAL SCHOOL
DEPARTMENT OF ANESTHESIOLOGY

Phillip E. Vlisides, M.D., assistant professor of anesthesiology, Department of Anesthesiology, Medical School, is recommended for promotion to associate professor of anesthesiology, with tenure, Department of Anesthesiology, Medical School.

Academic Degrees:

M.D.	2010	University of Michigan
B.S.	2006	University of Michigan

Professional Record:

2017-present	Assistant Professor of Anesthesiology, University of Michigan
2014-2017	Clinical Lecturer of Anesthesiology, University of Michigan

Summary of Evaluation:

Teaching: Dr. Vlisides is a devoted mentor and teacher who is a leader in education. In addition to intraoperative resident education, Dr. Vlisides is a regular contributor to the resident core conference lecture series, weekly journal clubs, and intern research rotation lecture series. He also created an electroencephalogram (EEG) educational program for residents during their neuroanesthesia rotation. Dr. Vlisides has also provided educational lectures to multiple departments within the University of Michigan, including the Department of Neurosurgery and Department of Internal Medicine on topics related to perioperative neurologic care. In addition to this institutional teaching, he has been invited to lecture regionally, nationally, and internationally. In 2020, Dr. Vlisides wrote an updated set of perioperative stroke guidelines, as first author, for the prestigious international subspecialty of neuroanesthesiology (the Society for Neuroscience in Anesthesiology and Critical Care). He has also been formally interviewed by the educational committee of this society for his knowledge on postoperative delirium prevention.

Research: Dr. Vlisides has demonstrated excellence in clinical-translational research related to perioperative neuroscience. He is recognized as an international expert in postoperative delirium and related brain states. Dr. Vlisides has published 50 peer-reviewed articles, including several invited commentaries and book chapters. He has published extensively in the major anesthesiology journals, and his work has also been featured in the *Lancet*, *Alzheimer's & Dementia*, *NeuroImage*, and *Cell Reports*. His research has been supported through multiple lines of funding during his time as an assistant professor. Dr. Vlisides began as the inaugural National Institutes of Health (NIH) T32 fellow for the Department of Anesthesiology, and he successfully competed for an NIH patient-oriented mentored research award (K23GM126317) in 2018. This grant helped him to build a research program to improve neurocognitive recovery after surgery and general anesthesia. Dr. Vlisides has concurrently received multiple grants from the Michigan Institute for Clinical and Health Research and University of Michigan Geriatrics Center for testing novel strategies for the prevention of postoperative delirium and related complications. He recently received a clinical quality improvement initiative in conjunction with the University of Michigan and Blue Cross/Blue Shield for improving our hospital's practice for identifying/treating delirium in hospitalized patients, as well as a Patient-Centered

Outcomes Research (PCORI) grant. His recently funded NIH grant (R01AG075005) focuses on post-operative delirium and Alzheimer's disease.

Recent and Significant Publications:

- Vlisides PE, Li D, McKinney AM, Brooks J, Leis AM, Mentz G, Tsodikov A, Zierau M, Ragheb, J, Clauw DJ, Avidan MS, Vanini G, Mashour GA, "The Effects of Intraoperative Caffeine on Postoperative Opioid Consumption and Related Outcomes After Laparoscopic Surgery: A Randomized Controlled Trial," *Anesth Analg*. 2021; 133:233-242. PMID33939649
- Puglia MP, Li, D, Leis, AM, Jewell ES, Kaplan, CM, Therrian M, Kim M, Lee U, Mashour GA, Vlisides, PE, "Neurophysiologic Complexity in Children Increases with Developmental Age and Is Reduced by General Anesthesia," *Anesthesiology*. 2021; 135:813-828. PM34491305
- Vlisides PE, Li D, Zierau M, Lapointe AP, Ip KI, McKinney AM, Mashour GA, "Dynamic Cortical Connectivity during General Anesthesia in Surgical Patients," *Anesthesiology*. 2019; 130:885-897. PMID30946057
- Avidan MS, Maybrier HR, Abdallah AB, Jacobsohn E, Vlisides PE, Pryor KO, Veselis RA, Grocott HP, Emmert DA, Rogers EM, Downey RJ, Yulico H, Noh GJ, Lee YH, Waszynski CM, Arya VK, Pagel PS, Hudetz JA, Muench MR, Fritz BA, Waberski W, Inouye SK, Mashour GA; PODCAST Research Group, "Intraoperative ketamine for prevention of postoperative delirium or pain after major surgery in older adults: an international, multicentre, double-blind, randomised clinical trial," *Lancet*. 2017; 15;390:267-275. PMID28576285
- Vlisides PE, Bel-Bahar T, Lee U, Li D, Kim H, Janke E, Tarnal V, Pichurko AB, McKinney AM, Kunkler BS, Picton P, Mashour GA, "Neurophysiologic Correlates of Ketamine Sedation and Anesthesia: A High-density Electroencephalography Study in Healthy Volunteers," *Anesthesiology*. 2017;127:58-69. PMID28486269

Service: Dr. Vlisides' service to the University of Michigan and beyond has been a hallmark of his career. Since 2022, he has served as the executive director of Neuroscience Research within the Department of Anesthesiology. In this capacity, he oversees all clinical neuroscience research operations, including translational research involving human volunteers. He is a senior member of the Anesthesia Clinical Research Committee and, in this role, has mentored several residents, students, and faculty colleagues with research proposals, presentations, and manuscripts. Dr. Vlisides also serves on the Faculty Affairs Committee, where he co-leads the departmental subcommittee on faculty mentoring. This subcommittee has created an updated, robust faculty mentorship program, which includes a toolkit of curated mentorship resources and mentorship matching process between junior and senior faculty members. With his presence on the Faculty Affairs Committee, Dr. Vlisides also serves as a liaison between junior tenure track faculty and senior faculty advisors. This liaison role helps to promote growth of junior tenure track faculty by connecting them with appropriate mentorship and resources. Internationally, he serves on the Society for Neuroscience in Anesthesiology and Critical Care Research Committee, International Consortium for Electroencephalography (EEG) Training of Anesthesia Practitioners, and International Anesthesia Research Society.

External Reviewers:

Reviewer A: "The quality of his published work and success with grant funding certainly exceeds the accomplishments of most clinician scientists at the assistant and even associate professor level...He is an excellent example of an extremely accomplished and motivated [junior] faculty."

Reviewer B: "...he is now a nationally known and respected physician/scientist and a thought leader...His scholarship is broad and impactful, with multiple publications in top tier journals."

Reviewer C: "...it is clear that [Dr. Vlisides] is a favored attending among the anesthesiology residents. I know that members of my clinical division and research group enjoy his presentations at national meetings. They describe him as approachable and sincere. Dr. Vlisides is passionate about mentoring the next generation of neuroscientists and anesthesiologists. He has been selected as a mentor or co-mentor by several trainees since he was hired as faculty. The field of neuroanesthesia will benefit as these mentees develop their own reputation for scholarship. Trainee education and scholarship remains a priority for Dr. Vlisides who regularly publishes with students, residents, and fellows."


Reviewer D: "Given his successful transition to independent investigation from his mentored award, his active status with national and international professional societies and study sections, and membership on editorial boards, my impression is that Dr. Vlisides' standing among his peers is quite high, even among academic anesthesiologists."

Reviewer E: "He has since established a robust level of sustained independent funding...Dr. Vlisides' extensive productivity and auspicious trajectory warrant academic advancement...As a result of his impressive work, Dr. Vlisides has garnered recognition at a national level."

Reviewer F: "It is my strong belief that Philip is essentially without peers amongst his generation of physician scientists in my field. I cannot think of a single person in the field of anesthesiology who has accomplished this much both in the basic and in the clinical science of anesthesia at this, relatively early, stage of their career."

Summary of Recommendation:

Dr. Vlisides has distinguished himself as an exceptional researcher that is nationally and internationally recognized as a leader in the field of neurophysiology of general anesthesia and postoperative delirium. He continues to be highly productive with excellence in teaching, mentorship, as well as service. We are pleased to recommend Phillip E. Vlisides, M.D. for promotion to associate professor of anesthesiology, with tenure, Department of Anesthesiology, Medical School.



Marshall S. Runge, MD, PhD
Executive Vice President for Medical Affairs
Dean, Medical School

May 2023