

PROMOTION RECOMMENDATION  
THE UNIVERSITY OF MICHIGAN MEDICAL SCHOOL  
DEPARTMENT OF EMERGENCY MEDICINE

Robert Silbergleit, M.D., Assistant Professor of Emergency Medicine, Department of Emergency Medicine, Medical School, is recommended for promotion to Associate Professor of Emergency Medicine, with tenure, Department of Emergency Medicine, Medical School.

Academic Degrees:

M.D.	1992	University of Michigan
S.B.	1988	Massachusetts Institute of Technology

Professional Record:

1998-Present	Assistant Professor of Emergency Medicine, University of Michigan
1997-1998	Lecturer, Department of Emergency Medicine, University of Michigan
1995-1997	Adjunct Instructor of Emergency Medicine, George Washington University
1995-1997	Clinical Instructor of Emergency Medicine, College of Pennsylvania

Summary of Evaluation:

Teaching: Dr. Silbergleit has taught medical students, residents, and other audiences. Whether it is teaching at the bedside, in consultations, in lectures, or in the research environment, his educational focus is on teaching the process of critical thinking. To this end, he has developed an interactive pattern recognition module for teaching medical students the approach to the patient with altered mental status, he has coordinated a departmental journal club for residents with innovative features, and he has promoted paradigmatic approaches to problems in medical ethics in lectures and in performing consults as a member of the Adult Ethics Committee. He has presented educational innovations locally at Medical Education Day and nationally at the Society for Academic Emergency Medicine (SAEM). During the annual meeting of the SAEM in 2003, he organized an extremely well received didactic session and research workshop on resuscitative hypothermia, attended by national leaders from academia, government, and industry.

Research: Dr. Silbergleit's research activity has focused on resuscitation from cerebral injury, with the goal of being a translational investigator. In the algorithm, he has studied the effects of hyperbaric oxygen on secondary brain injury after permanent and transient focal cerebral ischemia, after neurotoxic brain injury, and after traumatic brain injury using functional outcome measures. Currently, he is in collaboration with Guohi Xi from Neurosurgery on the effects of hyperbaric oxygen in experimental intracerebral hemorrhage. Clinically, he has been an active participant in the Brain Injury Group, serves as the site principal investigator, enrolling investigator, or neuro evaluator on several NIH funded or industry funded multi-center trials. He

is extensively involved as the principal investigator or as co-investigator on two of the four research projects proposed as part of another large NIH program project grant (SPORTRIAS) organized by the UM Stroke Program. He has recently been working intensively with Dr. Barsan on the organization of a clinical trial network, on a pending clinical coordinating center grant application, and on related clinical trial planning and pilot trial grants.

Recent and Significant Publications:

Miljkovic-Lolic M, Silbergleit R, Fiskum G, Rosenthal RE: Neuroprotective effects of hyperbaric oxygen treatment in experimental focal cerebral ischemia are associated with reduced brain leukocyte myeloperoxidase activity. *Brain Research* 971:90-94, 2003.

Rosenthal RE, Silbergleit R, Hof PR, Haywood Y, Fiskum G: Hyperbaric oxygen reduces neuronal death and improves neurological outcome after canine cardiac arrest. *Stroke* 34:1311-1316, 2003.

Scott PA, Silbergleit R: Misdiagnosis of stroke in tissue plasminogen activator-treated patients: Characteristics and outcomes. *Ann Emerg Med* 42:611-618, 2003.

Silbergleit R, Haywood Y, Fiskum G, Rosenthal RE: Lack of a neuroprotective effect from N-acetylcysteine after cardiac arrest and resuscitation in a canine model. *Resuscitation* 40:181-186, 1999.

Silbergleit R, Satz W, McNamara RM, Lee DC, Schoffstall J: Effect of permissive hypotension in continuous uncontrolled intra-abdominal hemorrhage. *Acad Emerg Med* 3(10):922-926, 1996.

Service: Dr. Silbergleit's primary clinical service is as an attending physician in the Emergency Department at the University of Michigan, but he also provides significant clinical service attending at Foote Hospital, a community hospital in Jackson whose Emergency Department is run on contract by the U of M Emergency Department. He also provides clinical service in an on-call capacity as part of the Brain Injury Group, which in addition to its research role, provides an attending-level response for any patient being evaluated for thrombolytic therapy for acute stroke. He also takes call for the Adult Ethics Committee, and performs consultations on patients in whom ethical issues have arisen. Dr. Silbergleit has also led a multi-departmental effort to organize a clinical response to provide resuscitative hypothermia to comatose survivors of out-of-hospital cardiac arrested treated at the University of Michigan.

Professional Work: Dr. Silbergleit provides academic service to his department, the medical school, the health system, and the national community. He serves on the Didactic Committee of the Emergency Medicine Residency, the Student Biomedical Research Committee of the Medical School, and the Pain Management Committee, and the Adult Ethics Committee of the Health System. Nationally, he has served as a reviewer and contributing editor for the *Annals of Emergency Medicine* and as a reviewer for *Stroke*, *Brain Research*, and *Academic Emergency Medicine*. He has also served on an NIH Special Emphasis Review Panel on acute stroke research. Recently he co-authored the manuscript presenting the results of a SAEM consensus

conference held on interpretation and application of the federal regulations on research using emergency exception to informed consent.

External Review:

Reviewer A: "His original published research on the topics of the role of hyperbaric oxygen in global cerebral ischemia and after cardiac arrest, the effect of fluid volume on uncontrolled intra-abdominal hemorrhage in an animal model, and safety studies in aeromedical transport, all was published in the leading peer review journals in our field, as well as *Resuscitation*, *Stroke*, and *Brian Research*. This indicates their significance within our own specialty, but also in the specialties of resuscitation research and neurology."

Reviewer B: "Dr. Silbergleit's research in the arena of resuscitation from cerebral injury is among the best within our field. He is one of the rare researchers within our academically young field who has truly positioned himself to be a translational investigator."

Reviewer C: "Dr. Silbergleit is recognized as an experienced and promising clinical investigators [sic] in the field of acute stroke therapy....Dr. Silbergleit has provided local, regional and national lectures on acute stroke intervention. Having attended some of these national scientific presentations, I can highlight their thoroughness and professional nature....Dr. Silbergleit is an accomplished emergency physician who is balancing his clinical service, educational role, and clinical research well."

Reviewer D: "Rob is considered one of the true experts on stroke in the field of emergency medicine; a reputation which he well deserves as a result of his research, writing and teaching within the field....His career only reflects positively on the University of Michigan."

Reviewer E: "His publications, particularly in the are of cerebral ischemia and stroke have reported important scientific advances in our literature....Dr. Silbergleit is held in high esteem for his scholarly qualifications on a national basis."

Summary of Recommendation:

Dr. Silbergleit has developed a strong collaborative research program and contributes fully to the clinical and teaching missions of the Medical School. I am pleased to recommend him for promotion to Associate Professor of Emergency Medicine, with tenure.



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Allen S. Lichter, M.D., Dean  
*Newman Family Professor  
of Radiation Oncology*

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