



Neal Wayne Fleming, M.D., Ph.D.

Clinical Interests	Dr. Fleming has clinical interests in cardiovascular monitoring. His research interests are in neuromuscular physiology and pharmacology.
Title	Director, Cardiovascular and Thoracic Anesthesia Professor of Clinical Anesthesia
Specialty	Anesthesiology, Anesthesiology - Cardiovascular and Thoracic
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Education	M.D., University of Kansas School of Medicine, Kansas City KS 1981 Ph.D., Georgetown University, Washington DC 1989 B.A., Grinnell College, Grinnell IA 1977
Residency	Georgetown University School of Medicine, Washington DC 1982-1985
Fellowships	Georgetown University School of Medicine, Washington DC 1985-1986
Board Certifications	American Board of Anesthesiology, 1986 National Board of Echocardiography, 2003 National Board of Medical Examiners, 1983
Professional Memberships	American Medical Association American Society of Anesthesiologists Association of Anesthesia Clinical Directors (1997-1999) California Society of Anesthesiologists International Anesthesia Research Society



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Select Recent Publications

International Trauma Anesthesia and Critical Care Society
Society of Cardiovascular Anesthesiologists

The comparison of stroke volume variation and arterial pressure-based cardiac output with standard hemodynamic measurements during cardiac surgery. 2010.

Judge O, Ji F, Fleming N, Liu H. Current use of the pulmonary artery catheter in cardiac surgery: a survey study. *J Cardiothorac Vasc Anesth*. 2015 Feb;29(1):69-75.

Santosa CM, Rose DD, Fleming NW. The Utility of 3D Left Atrial Volume and Mitral Flow Velocities as Guides for Acute Volume Resuscitation. *Biomed Res Int*. 2015;2015:697327.

Ji F, Li J, Fleming N, Rose D, Liu H. Reliability of a new 4th generation FloTrac algorithm to track cardiac output changes in patients receiving phenylephrine. *J Clin Monit Comput*. 2015 Aug;29(4):467-73.

Ji F, Li Z, Nguyen H, Young N, Shi P, Fleming N, Liu H. Perioperative dexmedetomidine improves outcomes of cardiac surgery. *Circulation*. 2013 Apr 16;127(15):1576-84.

Zhong C, Fleming N, Lu X, Moore P, Liu H. Age-associated differences in gene expression in response to delayed anesthetic preconditioning. *Age (Dordr)*. 2012 Dec;34(6):1459-72.

Kungys G, Rose O, Fleming NW. Stroke Volume Variation during Acute Normovolemic Hemodilution. *Anesth Analg*. 2009;Dec, 109(6):1823-30.

Deyhimy OI, Fleming NW, Brodtkin IG, Liu H. Anesthetic preconditioning combined with postconditioning offers no additional benefit over preconditioning or postconditioning alone. *Anesth Analg*. 2007;105(2):316-24.



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Lee HT, Hennig GW, Fleming NW, Keef KD, Spencer NJ, Ward SM, Sanders KM, Smith TK. The mechanism and spread of pacemaker activity through myenteric interstitial cells of Cajal in human small intestine. *Gastroenterology*. 2007;132(5):1852-65.

Lee HT, Hennig GW, Fleming NW, Keef KD, Spencer NJ, Ward SM, Sanders KM, Smith TK. Septal interstitial cells of Cajal conduct pacemaker activity to excite muscle bundles in human jejunum. *Gastroenterology*. 2007;133:907-17.

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