

## CURRICULUM VITAE

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### OFFICE ADDRESS

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**DATE OF BIRTH** December 24, 1953

**PLACE OF BIRTH** Buffalo, New York

### ACADEMIC AND ADMINISTRATIVE LEADERSHIP POSITIONS

2013-present	Distinguished Service Professor, The Johns Hopkins University School of Medicine, Department of Anesthesiology/Critical Care Medicine, Neurology and Neurosurgery
2015-2016	Interim CEO, Johns Hopkins Healthcare Company, Dhahran, Kingdom of Saudi Arabia (13+ months; March 13, 2015-May 5, 2016)
2011-2018	Vice President and Executive Medical Director, Johns Hopkins Medicine International (Middle East, Africa and Europe Regions)
2004-2013	The Mark C. Rogers Professor, Director, Anesthesiologist-in-Chief, Department of Anesthesiology/Critical Care Medicine, Johns Hopkins Medical Institutions
2003-2004	Professor, Interim Director, Department of Anesthesiology/Critical Care Medicine, Johns Hopkins University, March
1999-2003	Vice Chair for Clinical Affairs, Department of Anesthesiology/Critical Care Medicine, Johns Hopkins University, July
1998-1998	Interim Vice Chair for Clinical Affairs, Department of Anesthesiology/Critical Care Medicine, Johns Hopkins University, November
1998-2001	Director, Division of General Anesthesiology, Department of Anesthesiology/Critical Care Medicine, Johns Hopkins University, The Johns Hopkins Hospital, January
1998-2003	Director, Inpatient Clinical Programs, Department of Anesthesiology/Critical Care Medicine, The Johns Hopkins Hospital, January
1998-2003	Associate Professor, Department of Anesthesiology/Critical Care Medicine Johns Hopkins University
2004-present	Professor, Department of Neurology, Johns Hopkins University

2004-present Professor, Department of Neurosurgery, Johns Hopkins University  
 1998-2004 Joint Appointment, Assistant Professor, Johns Hopkins University School of Nursing

## EDUCATION AND TRAINING

Niagara University New York, New York	B.S. 1975	Biology
State University of New York at Buffalo Roswell Park Graduate Division	M.S. 1977	Natural Sciences
State University of New York at Buffalo Roswell Park Graduate Division	Ph.D. 1980	Physiology
State University of New York at Buffalo School of Medicine	M.D. 1984	Medicine
Loyola College of Maryland Sellinger School of Business	M.B.A. 2000	Business
University of Maryland Hospital Department of Internal Medicine	Internship 1984-1985	Internal Medicine
University of Maryland Hospital Department of Neurology	Residency 1985-1988	Neurology
The Johns Hopkins Hospital Department of Anesthesiology/CCM	Residency 1988-1990	Anesthesiology
The Johns Hopkins Hospital Divisions of Neurosurgical Anesthesia and Neurosurgical Critical Care Medicine	Fellowship 1990-1991	Neurosurgical Anesthesia and Neuroscience CCM
The Johns Hopkins Hospital ACCM Research Division	Fellowship 1990-1992	Research

## PROFESSIONAL EXPERIENCE

### Academic and Hospital Appointments (prior)

1975-1980	Hematology Laboratory Technician, The Buffalo General Hospital,
1975-1980	Pre-doctoral candidate, SUNY-Buffalo, Roswell Park Division
1982	Summer Research Fellow, The Dent Neurological Institute, Buffalo, NY
1990-1991	Assistant, Johns Hopkins University, Department of Anesthesiology/CCM
1991-1992	Instructor, Johns Hopkins University, Department of Anesthesiology/CCM
1992-1993	Associate Director, Resident Education Program, The Johns Hopkins Hospital, Department of Anesthesiology/Critical Care Medicine

1992-1998	Assistant Professor, Johns Hopkins University, Department of Anesthesiology/CCM
1993-1998	Co-Director, Neuroscience Critical Care Unit, The Johns Hopkins Hospital
1993-1996	Director, Fellowship Training, Neuroscience Critical Care Unit
1993-1998	Assistant Professor, Johns Hopkins University, Departments of Neurology/Neurosurgery/Nursing
1996-1997	Acting Director, Neuroscience Critical Care Unit, The Johns Hopkins Hospital

## RESEARCH ACTIVITIES PUBLICATIONS

### Peer-Reviewed Scientific Articles

1. Zucali JR, Broxmeyer HE, Ulatowski JA. Specificity of lactoferrin as an inhibitor of granulocyte-macrophage colony-stimulating activity production from fetal mouse liver cells. **Blood** 54: 951-954, 1979.
2. Zucali JR, Ulatowski JA, Mirand EA. Erythroid progenitor cells and cells capable of producing erythropoietic activity from fetal mouse liver. **Exp Hematol** 8 (8): 971-979, 1980.
3. Gengo FM, Ulatowski JA, McHugh WB. Metoprolol and alpha-hydroxymetoprolol concentrations and reduction in essential tremor. **Clin Pharmacol Ther** 36: 320-325, 1984.
4. Sipos E, Kirsch JR, Nauta HJW, DeBrun G, Ulatowski JA, Bell WR. Intra-arterial urokinase for treatment of retrograde thrombosis following resection of an arteriovenous malformation. **J Neurosurg** 76:1004-1007, 1992.
5. Davis D, Ulatowski JA, Eleff S, Izuta M, Mori S, Mori D, Shungu D, Van Zijl PC. Rapid monitoring of changes in water diffusion coefficients during reversible ischemia in cat and rat brain. **Magn Reson Med** 31:454-460, 1994.
6. Ulatowski JA, Kirsch JR, Traystman RJ. Hypoxic reperfusion after ischemia in swine does not improve brain recovery. **Am J Physiol Heart Circ Physiol** 267(36): H1880-1887, 1994.
7. Ulatowski JA, Koehler RC, Nishikawa T, Traystman RJ, Razynska A, Kwansa H, Urbaitis B, Bucci E. Role of nitric oxide scavenging in peripheral vasoconstrictor response to  $\beta\beta$  cross-linked hemoglobin. **Artif Cells Blood Substit and Immobil Biotechnol** 23:263-269, 1995.
8. Hanley DF and Ulatowski JA. Medical management of aneurysmal subarachnoid hemorrhage (Editorial). **Crit Care Med** 23:992-993, 1995.
9. Ackerman SJ, Fokas KA, Monsein LH, Ulatowski JA. Whimsy - Relationships among the subjective quality, magnetic resonance spectra, and price of wine: A randomized trial. **Acad Radiol** 2:822-826, 1995.
10. Mirski MA, Muffelman B, Ulatowski JA, Hanley DF. Sedation for the critically ill neurological patient. **Crit Care Med** 23:2038-2053, 1995.
11. Tietjen CS, Hurn PD, Ulatowski JA, Kirsch JR. Treatment modalities for hypertensive patients with intracranial pathology: Options and risks. **Crit Care Med** 24:311-322, 1996.
12. Ulatowski JA, Bucci E, Koehler RC, Nishikawa T, Urbaitis B, Razynska A, Williams MA,

- Takeshima R, Traystman RJ. Cerebral O<sub>2</sub> transport with hematocrit reduced by crosslinked hemoglobin transfusion. **Am J Physiol** 270:H466-H475, 1996.
13. Becker KJ, Monsein LH, Ulatowski JA, Mirski MA, Williams MA, Hanley DF. Intra-arterial thrombolysis in vertebrobasilar occlusion. **Am J Neuroradiology** 17:255-262, 1996.
  14. Ulatowski JA, Bucci E, Nishikawa T, Urbaitis BK, Traystman RJ, Koehler RC. Regional blood flow alterations after bovine fumaryl  $\beta\beta$ -crosslinked hemoglobin transfusion and nitric oxide synthase inhibition. **Crit Care Med** 24:558-565, 1996.
  15. Bucci E, Ryzynska A, Kwansa HE, Matheson-Urbaitis B, O’Hearne M, Ulatowski JA, Koehler RC. Production and characteristics of an infusible oxygen carrying fluid based on hemoglobin intra molecularly cross linked with sebacic acid. **J Lab Clin Med** 128:146-153, 1996.
  16. Kauppinen RA, Eleff SM, Ulatowski JA, Kraut M, Soher B, van Zijl PCM. Visual activation in a-chloralose-anesthetized cats does not cause lactate accumulation in the visual cortex as detected by [<sup>1</sup>H]NMR difference spectroscopy. **Eur J Neuroscience** 9:654-661, 1997.
  17. Ulatowski JA, Asano Y, Koehler RC, Traystman RJ, Bucci E. Sustained endothelial dependent dilation in pial arterioles after crosslinked hemoglobin transfusion. **Artif Cells Blood Substit Immobil Biotechnol** 25:115-120, 1997.
  18. van Zijl PCM, Eleff SM, Ulatowski JA, Oja JME, Ulag AM, Traystman RJ, Kauppinen RA. Quantitative assessment of blood flow, blood volume and blood oxygenation effects in functional magnetic resonance imaging. **Nature Medicine** 4:159-167, 1998.
  19. Qureshi AI, Suarez JI, Bhardwaj A, Schnitzer MS, Mirski M, Hanley DF, Ulatowski JA. Use of hypertonic (3%) saline infusion in the treatment of cerebral edema: Effect on intracranial pressure and lateral displacement of the brain. **Crit Care Med** 26:440-446, 1998.
  20. Suarez JI, Qureshi AI, Bhardwaj A, Williams MA, Schnitzer MS, Mirski M, Hanley DF, Ulatowski JA. Treatment of refractory intracranial hypertension with 23.4% saline. **Crit Care Med** 26:1118-1122, 1998.
  21. Deibert E, Bhardwaj A, Staats PS, Ulatowski JA. Chronic intrathecal baclofen administration for the treatment of severe generalized tetanus via a synchronized infusion pump. **Neuromodulation** 1:2-5, 1998.
  22. Grohn OHJ, Lukkarinen JA, Oja JME, van Zijl PCM, Ulatowski JA, Traystman RJ, Kauppinen, RA. Noninvasive detection of cerebral hypoperfusion and reversible ischemia from reductions in the magnetic resonance imaging relaxation time, T<sub>2</sub>. **J Cereb Blood Flow Metab** 18:911-920, 1998.
  23. Asano Y, Koehler RC, Ulatowski JA, Traystman RJ, Bucci E. Effects of crosslinked hemoglobin transfusion on endothelial dependent dilation in feline pial arterioles. **Revised Am J Physiol** 275(4 pt 2): H1313-21, 1998.
  24. Ulatowski JA, Bucci E, Ryzynska A, Traystman RJ, Koehler RC. Cerebral blood flow during hypoxic hypoxia with plasma-based hemoglobin reduced hematocrit. **Am J Physiol** 274(6 pt 2): H1933-1942, 1998.
  25. Qureshi AI, Suarez JI, Parekh PD, Sung G, Geocadin R, Bhardwaj A, Tamargo RJ, Ulatowski JA.

- Risk factors for multiple intracranial aneurysms. **Neurosurgery** 43(1):22-6; discussion 26-7, 1998.
26. Van Zijl PC, Ulug AM, Eleff SM, Ulatowski JA, Traystman RJ, Oja JM, Kauppinen RA. Quantitative assessment of blood flow, blood volume and blood oxygenation effects in functional magnetic resonance imaging. **Doudecim** 114(8):808-9, 1998.
  27. Qureshi AI, Choudhry MA, Akbar MS, Mohammad Y, Chua HC, Yahia AM, Ulatowski JA, Krendel DA, and Leshner RT. Plasma exchange versus intravenous immunoglobulin treatment in myasthenic crisis. **Neurology** 52(3):629-32, 1999.
  28. Razumovsky AY, Wityk RJ, Williams MA, Ponomarev V, Bhardwaj A, Ulatowski JA. TCD in Acute Cerebral Ischemia. **Cerebrovasc Dis** 1999;9 (suppl 2):23.
  29. Razumovsky AY, Suarez JI, Qureshi AI, Parekh PD, Ulatowski JA, Williams MA, and Hanley DF. Cerebral Blood Flow Velocity Asymmetry Following Aneurysmal SAH. **J Neuroimaging**, Vol 9(1), 1999.
  30. Ulatowski JA, Oja JME, Suarez JI, Kauppinen RA, Traystman RJ, and van Zijl PCM. *In Vivo* Determination of Absolute Cerebral Blood Volume Using Hemoglobin as a Natural Contrast Agent: An MRI Study Using Altered Arterial Carbon Dioxide Tension. **J Cereb Blood Flow Metab**, 19:809-817, 1999.
  31. Suarez JI, Qureshi IA, Parekh PD, Razumovsky A, Tamargo RJ, Bhardwaj A and Ulatowski JA. Administration of Hypertonic (3%) Sodium Chloride/Acetate in Hyponatremic Patients with Symptomatic Vasospasm Following Subarachnoid Hemorrhage. **J Neurosurg Anesthesiology**, 11(3):178-184, 1999.
  32. Bhardwaj A and Ulatowski JA. Cerebral Edema: Hypertonic Saline Solutions. **Curr Treat Options Neurol**, 1:179-188, 1999.
  33. Geocadin RG, Carhuapoma JR and Ulatowski JA. Subarachnoid hemorrhage and intracerebral hemorrhage. **Curr Opin Crit Care**, 5(2):95-101, 1999.
  34. Qureshi AI, Suarez JI, Bhardwaj A, Yahia AM, Tamargo RJ, Ulatowski JA. Early predictors of outcome in patients receiving hypervolemic and hypertensive therapy for symptomatic vasospasm after subarachnoid hemorrhage. **Crit Care Med** 28(3):824-829, 2000.
  35. Naff NJ, Carhuapoma JR, Williams MA, Bhardwaj A, Ulatowski JA, Bederson J, Bullock R, Schmutzhard E, Pfausler B, Keyl PM, Turhim S and Hanley DF. Treatment of intraventricular hemorrhage with urokinase: effects on 30-Day survival. **Stroke** 31(4):841-847, 2000.
  36. Qureshi AI, Sung GY, Razumovsky AY, Lane K, Straw RN, Ulatowski JA. Early identification of patients at risk for symptomatic vasospasm after subarachnoid hemorrhage. **Crit Care Med** 28(4):984-990, 2000.
  37. Qureshi AI, Geocadin R, Suarez JI, Ulatowski JA. Long-term outcome after medical reversal of transtentorial herniation in patients with supratentorial mass lesions. **Crit Care Med** 28(5):1556-1564, 2000.
  38. Herr DL, Kelly K, Hall JB, Ulatowski J, Fulda GJ, Cason B, Hickey R, Nejman AM, Zaloga GP,

- Teres D. Safety and efficacy of propofol with EDTA when used for sedation of the surgical intensive care units patients. **Intensive Care Med** 26 Suppl 4:S452-62, 2000
39. Wijman CAC, McBee NA, Keyl PM, Varelas PN, Williams MA, Ulatowski JA, Hanley DF, Wityk RJ, Razumovsky AY. Diagnostic impact of early transcranial Doppler ultrasonography on TOAST classification subtype in acute cerebral ischemia. **Cerebrovasc Dis** 11:317-323, 2001.
  40. Zhou J, Wilson DA, Ulatowski JA, Traystman RJ, van Zijl PC. Two-compartment exchange model for perfusion quantification using arterial spin tagging. **J Cereb Blood Flow Metab** 21(4):317-323, 2001.
  41. Razumovsky AY, Wityk RJ, Geocadin RG, Bhardwaj A, Ulatowski JA. Cerebral Vasculitis: Diagnosis and Follow-up with Transcranial Doppler Ultrasonography. **J Neuroimaging** 11(3):333-335, 2001.
  42. Torbey MT, Hauser TK, Bhardwaj A, Williams MA, Ulatowski JA, Mirski MA, Razumovsky AY. Effect of age on cerebral blood flow velocity and incidence of vasospasm after aneurysmal subarachnoid hemorrhage. **Stroke** 32:2005-2011, 2001.
  43. Hillis AE, Kane A, Tuffiash E, Ulatowski JA, et al. Reperfusion of Specific Brain Regions by Raising Blood Pressure Restores Selective Language Functions in Subacute Stroke. **Brain Language** 79(3):495-510, December 2001.
  44. Rebel A, Ulatowski JA, Joung K, Bucci E, Traystman RJ, and Koehler RC. Regional cerebral blood flow in cats with cross-linked hemoglobin transfusion during focal cerebral ischemia. **Am J Physiol Heart Circ Physiol** 282(3):H832-841, 2002.
  45. Suarez JI, Qureshi AI, Yahia AB, Parekh PD, Tamargo RJ, Williams MA, Ulatowski JA, Hanley DF, Razumovsky AY. Symptomatic vasospasm diagnosis after subarachnoid hemorrhage: Evaluation of transcranial Doppler ultrasound and cerebral angiography as related to compromised vascular distribution. **Crit Care Med** 30:1348-1355, 2002.
  46. Geocadin RG, Razumovsky AY, Wityk RJ, Bhardwaj A, and Ulatowski JA. Intracerebral Hemorrhage and Post-Partum Cerebral Vasculopathy. **J Neurol Sci** 205:29-34, 2002.
  47. Varelas PN, Chua HC, Natterman J, Barmadia L, Zimmerman P, Yahia A, Ulatowski JA, Bhardwaj A, Williams MA, Hanley DF. Ventilator care in myasthenia gravis crisis: Assessment the baseline adverse event rate. **Crit Care Med** 30:2663-2668, 2002.
  48. Hillis AE, Ulatowski JA, Barker PB, Torbey M, Ziai W, Beauchamp NJ, Oh S, Wityk RJ. A pilot randomized trial of induced blood pressure elevation: Effects on function and focal perfusion in acute and subacute stroke. **Cerebrovasc Dis** 16(3):236-246, 2003.
  49. Rebel A, Ulatowski JA, Kwansa H, Bucci E, Koehler, RC. Cerebrovascular response to decreased hematocrit: effect of cell-free hemoglobin, plasma viscosity, and CO<sub>2</sub>. **Am J Physiol Heart Circ Physiol** 285(4):H1600-8, Oct. 2003.
  50. Ziai WC, Varelas PN, Zeger SL, Mirski MA, Ulatowski JA. Neurological intensive care resource use after brain tumor surgery: An analysis of indications and alternative strategies. **Crit Care Med** 31(12):2782-7, Dec. 2003.

51. Hillis AE, Wityk RJ, Barker PB, Ulatowski JA, Jacobs MA. Change in perfusion in acute nondominant hemisphere stroke may be better estimated by tests of hemispatial neglect than by the National Institutes of Health Stroke Scale. **Stroke** 34:2392-2398, 2003.
52. Hillis AE, Wityk RJ, Beauchamp NJ, Ulatowski JA, Jacobs MA, Barker PB. Perfusion-weighted MRI as a marker of response to treatment in acute and subacute stroke. **Neuroradiology** 46:31-39, 2004.
53. Bhardwaj A, Ulatowski JA. Hypertonic saline solutions in brain injury. **Curr Opin Crit Care** 10:126-131, 2004.
54. Ulatowski JA. Peter J Pronovost, M.D., Ph.D. Recipient of the 2003 Presidential Scholar Award. **Anesthesiology** 100(2):216-7 Feb. 2004.
55. Qureshi AI, Choundry MA, Mohammand Y, Chua HC, Yahia AM, Ulatowski JA, Krendel DA, Leshner RT. Respiratory failure as a first presentation of myasthenia gravis. **Med Sci Monit** 10(12):CR684-9, Dec. 2004.
56. Sampei K, Ulatowski JA, Asano Y, Kwansa H, Bucci E, Koehler RC. Role of nitric oxide scavenging in vascular response to cell-free hemoglobin transfusion. **Am J Physiol Heart Circ Physiol** 289:H1191-H1201, 2005
57. Carhuapoma JR and Ulatowski JA: Blood pressure control after intracerebral hemorrhage: Have we reached the target? **Crit Care Med** 34(7):2023-4, 2006.
58. Makary MA, Holzmueller CG, Thompson DA, Rowen L, Heitmiller ES, Maley WR, Black JH, Stegner K, Freischlag JA, Ulatowski JA, and Pronovost PJ. Operating room briefings: working on the same page. **Jt Comm J Qual and Saf** 32(6):351-355, 2006.
59. Makary MA, Holzmueller CG, Thompson DA, Rowen L, Heitmiller ES, Maley WR, Black JH, Stegner K, Freischlag JA, Ulatowski JA, and Pronovost PJ. Operating room debriefings. **Jt Comm J Qual and Saf** 32(7):407-410, 2006.
60. Triantafyllopoulou A, Beaumont A, Ulatowski JA, Tamargo RJ, Varelas PN. Acute subdural hematoma caused by an unruptured, thrombosed giant intracavernous aneurysm. **Neurocrit Care** 5(1):39-42, 2006.
61. Stonemetz J, Pham JC, Marino RJ, Ulatowski JA, Pronovost, PJ. Effect of Concurrent Computerized Documentation of Comorbid Conditions on the Risk of Mortality Index. **Journal of Clinical Outcomes Management**, Vol. 14, (9):499-503. September 2009
62. Stonemetz J, Pham JC, Marino RJ, Ulatowski JA, Pronovost, PJ. Financial Impact of Concurrent Coding. **Physician Executive** 35(5):38-45, 2009.
63. Ulatowski JA and Rogers EL. Managing the unmanageable: How a departmental chair deals with an entrepreneur. **Medical Innovation & Business**, 1(1): 24-29, 2009.
64. Petrovic MA, Aboumatar H, Baumgartner WA, Ulatowski J. Pilot Implementation of a Perioperative Protocol to Guide Operating Room-to-Intensive Care Unit Patient Handoffs. **Journal of Cardiothoracic and Vascular Anesthesia** 26(1):11-6, 2012. Epub 2011 Sep 1.

65. Mirski MA, Pandian V, Bhatti N, Haut E, Feller-Kopman D, et al. and Ulatowski J. Safety, Efficiency, and Cost-Effectiveness of a Multidisciplinary Percutaneous Tracheostomy Program. **Critical Care Medicine** 40(6): 1827-1834, 2012.
66. Williams KA, Chambers C, Dada M, Hough D, Aron R, Ulatowski J. Using Process Analysis to Assess the Impact of Medical Education on the Delivery of Pain Services: A natural experiment. **Anesthesiology** 116(4):931-939, 2012 Feb 10 [Epub ahead of print]
67. Frank S, Savage W, Rothschild J, Rivers R, Ness P, Paul S, Ulatowski J. Variability in Blood and Blood Component Utilization as Assessed by an Anesthesia Information Management System. **Anesthesiology** 117 (1):99-106, 2012
68. Williams KA, Chambers CG, Dada M, McLeod JC, and Ulatowski JA. Patient punctuality and clinic performance: observations from an academic-based private practice pain centre: a prospective quality improvement study. **BMJ Open** 4(5)e004679.doi May 2014
69. Williams KA, Chambers CG, Dada M, Hough, D, Aron R, and Ulatowski JA. Applying JIT principles to resident education to reduce patient delays: A pilot study in an academic medical center pain clinic. **Pain Medicine** 16(2):312-318, 2105. e-publication ahead of print Sept 16, 2014 DOI: 10.1111/pme. 12543
70. Chuang BTC, Liu X, Lundberg AJ, Toung TJK, Ulatowski JA, Koehler RC. Refinement of embolic stroke model in rats: Effect of post-embolization anesthesia duration on arterial blood pressure , cerebral edema and mortality. **J Neuroscience Methods** 307:8-13, 2018. DOI: 10.1016/j.neumeth.2018.06.012. Epub 2018 Jun 20.

#### **Clinical Trials Publications Intraoperative Hypothermia for Aneurysm Surgery Trial (IHAST).**

71. Todd MM and the IHAST Investigators. Mild hypothermia during surgery for intracranial aneurysm. **NEJM** 352(2): 135-145, 2005.
72. Anderson SW and the IHAST Investigators. Effects of intraoperative hypothermia on neuropsychological outcomes after intracranial aneurysm surgery. **Ann Neurol** 60(5):518-527, 2006.
73. Leira and the IHAST Investigators. Improving prediction of outcome in “good grade” subarachnoid hemorrhage. **Neurosurgery** 61(3):470-473, 2007.
74. Pasternak JJ and the IHAST Investigators. Hyperglycemia in patients undergoing cerebral aneurysm surgery: its association with long-term gross neurologic and neuropsychological function. **Mayo Clinic Proc.** 83(4):406-417, 2008.
75. Coghlan LA and the IHAST Investigators. Independent associations between electrocardiographic abnormalities and outcomes in patients with aneurysmal subarachnoid hemorrhage: findings from the intraoperative hypothermia aneurysm surgery trial. **Stroke** 40(2): 412-418, 2009.
76. McGregor DG and the IHAST Investigators. Effect of nitrous oxide on neurologic and neuropsychological function after intracranial aneurysm surgery. **Anesthesiology** 108(4):568-579, 2008.



77. Pasternak JJ and IHAIST Investigators. Effect of nitrous oxide use on long-term neurologic and neuropsychological outcome in patients who received temporary proximal artery occlusion during cerebral aneurysm clipping surgery. **Anesthesiology** 110(3):563-573, 2009.
78. Todd MM and the IHAIST Investigators. Perioperative fever and outcome in surgical patients with aneurismal subarachnoid hemorrhage. **Neurosurgery** 64(5):897-908, 2009.
79. Hindman BJ and the IHAIST Investigators. No association between intraoperative hypothermia or supplemental protective drug and neurologic outcomes in patients undergoing temporary clipping during cerebral aneurysm surgery: findings from the IHAIST Trial. **Anesthesiology** 112(1):86-101, 2010.
80. Nguyen HP, and the IHAIST Investigators. Perioperative hypothermia (33 degrees C) does not increase the occurrence of cardiovascular events in patients undergoing cerebral aneurysm surgery: findings from the Intraoperative Hypothermia for Aneurysm Surgery Trial. **Anesthesiology** 113(2):327-342, 2010
81. Mahaney KB and the IHAIST Investigators. Variation of patient characteristics, management, and outcome with timing of surgery for aneurysmal subarachnoid hemorrhage. **J Neurosurg** 114(4):1045-1053, 2011
82. Malaney KB and the IHAIST Investigators. Acute postoperative neurological deterioration associated with surgery for ruptured intracranial aneurysm: incidence, predictors, and outcomes. **J Neurosurg** 116(6):1267-1278, 2012
83. Bayman EO and the IHAIST Investigators. Bayesian methods to determine performance difference and to quantify variability among centers in multi-center trials: the IHAIST trial. **BMC Med Res Methodol** 13:5, 2013. doi: 10.1186/1471-2288-13-5.

## BOOK

1. Handbook of Neurocritical Care – Rapid Algorithmic Approach to Assessment and Management of Neurologic Illness. Editors: Bhardwaj A, Mirski MA, Ulatowski JA. Humana Press Inc., January 2004.

## BOOK CHAPTERS, MONOGRAPHS

1. Rieke K, Ulatowski JA and Hacke W. General Assessment and Care of the New Patient. In *NeuroCritical Care*, Eds. Hacke, Hanley, Einhüpel, Bleck and Diringer. Springer-Verlag, Berlin, Chapter 1, pp. 3-15, 1994.
2. Rieke K and Ulatowski JA. Standard Management and Prophylaxis. In *NeuroCritical Care*, Eds. Hacke, Hanley, Einhüpel, Bleck and Diringer. Springer-Verlag, Berlin, Chapter 2, pp. 16-22, 1994.
3. Becker K and Ulatowski JA. Approach to the Comatose Patient. In *Current Therapy in Neurological Diseases*, Ed. R.T. Johnson, Mosby-Year Book, Inc. pp. 1-4, 1996.
4. Becker K and Ulatowski JA. Approach to the Comatose Patient. In *Current Therapy in Internal Medicine*, Eds. Kassirer and Greene, Mosby-Year Book, Inc., pp. 1355-1358, 1997.

5. Ulatowski JA. Transverse Myelitis. In *Essence of Anesthesia Practice*, Eds. Roisen and Fleisher, W.B. Saunders Co., pp. 312, 1997.
6. Rusa R and Ulatowski JA. Preoperative assessment of the Neurological patient. In *Problems in Anesthesia: Preoperative Evaluation in an Era of Cost Containment*, Eds. Prough and Fleisher, Lippincott-Raven Publishers, Philadelphia, Volume 9 (2), pp. 221-234, 1997.
7. Ulatowski JA. Cerebral Protection. In *Intensive Care Manual, 4th edition*, Ed. Teik Oh. Butterworth-Heinemann. pp. 403-411, 1997.
8. Razumovsky AY, Monsein LH, Naff NJ, Hagenouw-Taal JCW, Williams MA, Ulatowski JA, Hanley DF. TCD monitoring of the effects of endovascular treatment for vasospasm. In *New Trends in Cerebral Hemodynamics and Neurosonology*, Eds. Klingelhofer, Bartels and Ringelstein. Elsevier Science B.V. Pp. 239-242, 1997.
9. Hanley DF, Bhardwaj A, Ulatowski JA, Razumovsky A, and Mirski MA. Coma and Intensive Care Neurology. In *Atlas of Clinical Neurology*, Ed. Rosenberg. Butterworth-Heinemann, Chapter 4, pp. 1-32, 1998.
10. Qureshi AI, Bhardwaj A, and Ulatowski JA. Neurocritical Care. In *ICU care*, Ed. M.A. Helfaer. Williams and Wilkins, Co., Baltimore, Chapter 3, pp. 65-92, 1998.
11. Varelas PN and Ulatowski JA. Aneurysmal Subarachnoid Hemorrhage. *Current Therapy in Neurological Diseases*. 2000.
12. Ulatowski JA. Subarachnoid Hemorrhage. *Handbook of Neuroanesthesia and Critical Care*. 2000.
13. Ulatowski JA. Electrolyte Disturbances. *Handbook of Neuroanesthesia and Critical Care*. 2000.

## DISSERTATIONS

1. Ulatowski JA. Eosinophilopoietic effect of subpopulations of spleen cells separated on the basis of adherence to glass. **Master Thesis**. Department of Natural Sciences. Roswell Park Memorial Institute, Graduate Division, State University of New York at Buffalo, 1977.
2. Ulatowski JA. Production of an erythropoiesis stimulating activity by fetal mouse liver cells as measured *in vivo* and *in vitro*. **Doctoral Thesis**. Department of Physiology. Roswell Park Memorial Institute, Graduate Division, State University of New York at Buffalo, 1980.

## EDITORIALS

1. Hanley DF and Ulatowski JA. Medical management of aneurysmal subarachnoid hemorrhage (Editorial). **Crit Care Med** 23:992-993, 1995.
2. Suarez JJ, Ulatowski JA. Narcotics for brain injured patients? At what cost? **Crit Care Med** (Editorial) 27(2):262-63, 1999.

3. Fleisher LA, Evers AS, Wiener-Kronish J, Ulatowski JA. What are we looking for? The question of resident selection. (Editorial) **Anesthesiology** 117(2):230-231, 2012
4. Fleisher LA, Evers AS, Wiener-Kronish J and Ulatowski JA. In Reply. **Anesthesiology** 118(3): 759-760, 2013.

### EXTRAMURAL SPONSORSHIPS

- |             |  |
|-------------|--|
| 1979-1980   | New York State Pre-doctoral Fellow   |
| 1979        | James T. Grace Memorial Scholar, The American Cancer Society   |
| 1982        | Summer Research Fellow, NIH/NI Ageing  |
| 12/98-11/03 | NIH/NINDS 2R01NS31490-07 ( <b>\$1,963,909</b> )<br>Functional Magnetic Resonance Studies of the Brain<br>Co-Investigator/John Ulatowski (5% effort), PI/Peter van Zijl |
| 4/99-3/03   | NIH/NINDS 1R01NS37664-01 ( <b>\$1,311,183</b> )<br>Quantitation of the Bold Effect in Functional MRI<br>Co-Investigator/John Ulatowski (5% effort), PI/Peter van Zijl  |

### EDUCATIONAL ACTIVITIES

#### Teaching

- |              |  |
|--------------|--|
| 1991-present | The Johns Hopkins Hospital, ACCM curriculum  |
| 1991-1995    | Workshop on Hemodynamic monitoring   |
| 1991-1995    | Lecturer - Brain Edema/Intracranial Pressure, Neurology/Neuropathology Course                      |
| 1992         | Instructor, Advanced Cardiac Life Support, The Johns Hopkins Hospital                              |
| 1993-1995    | Workshop on Airway Management, The Johns Hopkins Hospital  |
| 1993-2004    | Lecturer - Intensive Care Unit, Advanced Clinical Skills Course                                    |
| 1993-1994    | Lecturer - Pharmacology of Anesthetics, Pharmacology Course  |
| 1993-1994    | Lecturer - Head Trauma, Neurology/Neuropathology Course  |
| 1993-2004    | Lecturer - Neuroanesthesia/Neuro Critical Care, Core Curriculum Department of Neurological Surgery |
| 1994-2004    | Lecturer - Core Curriculum, Department of Neurology  |
| 1997-2004    | Lecturer - Core Curriculum, School of Nursing, Acute Care Nurse Practitioner Program               |

### MENTORING

#### Trainees

- |                             |                                    |
|-----------------------------|------------------------------------|
| Mirski, Marek, M.D., Ph.D.  | Clinical Fellow, NCCU, 1992 - 1993 |
| Schnitzer, Mark, M.D.       | Clinical Fellow, NCCU, 1993 - 1994 |
| Bhardwaj, Anish, M.D.       | Clinical Fellow, NCCU, 1993 - 1995 |
| Becker, Kyra, M.D.          | Clinical Fellow, NCCU, 1993 - 1995 |
| Ling, Geoffrey, M.D., Ph.D. | Clinical Fellow, NCCU, 1993 - 1995 |
| Sung, Gene, M.D.            | Clinical Fellow, NCCU, 1994 - 1996 |
| Terry, John, M.D.           | Clinical Fellow, NCCU, 1994 - 1996 |
| Qureshi, Adnan, M.D.        | Clinical Fellow, NCCU, 1996 - 1998 |
| Rusa, Renata, M.D.          | Clinical Fellow, NCCU, 1996 - 1998 |

Suarez, Jose, M.D.	Clinical Fellow, NCCU, 1996 - 1998
Carhuapoma, Ricardo, M.D.	Clinical Fellow, NCCU, 1997 - 1999
Geocadin, Romer, M.D.	Clinical Fellow, NCCU, 1997 - 1999
Wijman, Christine, M.D.	Clinical Fellow, NCCU, 1998 - 1999
Varelas, Panos, M.D.	Clinical Fellow, NCCU, 1998 - 2000
Yahia, Abuhater, M.D.	Clinical Fellow, NCCU, 1998 - 2000
Torbey, Michael, M.D.	Clinical Fellow, NCCU, 1999 - 2001
Ziai, Wendy, M.D.	Clinical Fellow, NCCU, 1999 - 2001
Hemstreet, Mitzi, M.D.	Clinical Fellow, NCCU, 2000 - 2002
Green-Chandos, Diana, M.D.	Clinical Fellow, NCCU, 2001 - 2003
Chase, Chere, M.D.	Clinical Fellow, NCCU, 2001 - 2003
Stevens, Robert, M.D.	Clinical Fellow, NCCU, 2001 - 2003
Wright, Wendy, M.D.	Clinical Fellow, NCCU, 2002 - 2004
Ardelt, Anise, M.D.	Clinical Fellow, NCCU, 2002 - 2004
Chen, Connie, M.D.	Clinical Fellow, NCCU, 2002 - 2004

## **EDITORIAL ACTIVITIES**

### **Editorial Board**

Medical Innovation & Business

### **Journal Reviewer**

Anesthesiology  
Anesthesia and Analgesia  
Annals of Neurology  
Clinicas de Medicina Critica  
Critical Care Medicine  
Journal of Neurosurgical Anesthesiology  
Stroke

### **Grant Reviews**

NIH Anesthesiology Subsection - Ad hoc Reviewer  
American Institute Biological Sciences - Ad hoc Reviewer

## **CLINICAL ACTIVITIES**

### **Certifications**

#### **Specialty Certification**

1991 The American Board of Anesthesiology,  
Diplomate  
1991 The American Board of Psychiatry and Neurology,  
Diplomate

#### **Medical Licensure**

1987 State of Maryland  
2015 Abu Dhabi-Tawam Hospital, United Arab Emirates (pending)  
2015 Damman-JHAH Dhahran Health Center, Kingdom of Saudi Arabia (pending)

**Service Responsibility (Active)**

ICU Anesthesiology Attending

Operating Room Coordinator

Staff Anesthesiologist - Critical Care Anesthesiology, Neuro Anesthesiology Divisions

**ORGANIZATIONAL ACTIVITIES****Institutional Administrative Appointments****Anesthesiology/Critical Care Medicine Committees**

- 1992-2004 Clinical Competence; Divisional, Education; Mock Oral Exam Organizing; Resident Selection; Clinical Research Review Committees
- 1998-2004 Vice Chairs Committee; Service Executive; Performance Improvement; Supply and Equipment; Pre-op Performance Committees
- 2000 Pediatric Anesthesia/PICU Director Search Committee
- 2001-2004 Anesthesia & Analgesia Subcommittee
- 2002-2004 OR Coordinators Committee (Chair)

**Neuroscience Critical Care Medicine Committees**

- 1992-2004 Multi disciplinary M-4; NCCU Fellow Selection; Multi department (ACCM, Neurosurgery, Neurology) Committees
- 1994-1995 ICU Reorganization; NPCU Planning; Library; Meyer Building Re-Engineering Committees
- 1998 NCCU Director Search Committee
- 1999 OR 21 Project Committee

**Cross Department and Institutional Committees**

- 1996-1998 Brain Attack/Marketing and Planning (Co-Chair); Johns Hopkins International Medicine; OR of the Future
- 1998-1999 Critical Care; Ideal Day in the OR; Johns Hopkins Medical Board; OR 21 Century Project, Finance Directors; Capital Equipment Committees
- 1999-2013 General/Weinberg OR Executive; Comprehensive Cancer Center Advisory Council; JHU Compliance, Operating Room Information Management Systems (Co-Chair) Committees
- 1999-2000 Neurosurgery Chair Search; Weinberg Cancer Center Orientation Committees
- 2000-2004 Intra-hospital Surgical Airway Management (Co-Chair); Weinberg OR Transition/Operations (Co-Chair); Ambulatory Surgi-Center Planning; Emergency OR Case Management Committees
- 2001-2004 Perioperative Transfusion and Blood Transfusion and Blood Conservation Subcommittee; Triad Committee Coordinator
- 2002-2005 OR Managers Committee
- 2003-2010 Director, Advanced Transfusion Practice Center
- 2004-2013 OR Executive Committee
- 2004-2005 LCME Subcommittee on Medical Students
- 2006-2007 Chairman, Neurology Search Committee
- 2006-2010 JHM Executive Quality Improvement Council
- 2011-2018 Johns Hopkins Medicine International (Non-Director Executive)
- MENA Region Stakeholders (Vice President MENA)
  - TeleMedicine and Medical Second Opinion Director
  - Quality and Safety Forum (Co-Chair)
  - Medical Directors Council (Co-Chair), migrated
  - Directors Council (Co-Chair)

**Advisory Committees: Institutional**

1999-2001	Comprehensive Cancer Center Advisory Council
2002-2012	Clinical Systems Advisory Committee (CSAC) (Chair)
2003-2011	Benchmark Committee (New JHH Facility Planning)
2003-2018	JHM Leadership Development Program (Advisor)
2006-2009	Agenda Committee of the Advisory Board of the Medical Faculty
2011-2013	Board Member, Johns Hopkins White Marsh Surgery Center
2011-2013	Board Member, Blaustein Board of Directors
2012-2013	Co-Chair, Committee for the 21 <sup>st</sup> Century Welch Library
2018	Professorial Promotion Subcommittee, JHU School of Medicine

**PROFESSIONAL SOCIETIES**

1981-1985	Associate Member, International Society for Experimental Hematology
1988-present	Member, American Society of Anesthesiologists
1988-2000	Member, Undersea and Hyperbaric Medical Society
1992-present	Member, American Academy Neurology and Co-Director, Critical Care Skills Course, 1995-1998
1993-present	Member, Society of Neurosurgical Anesthesia and Critical Care
1994-present	Member, Society of Critical Care Medicine
1996-present	Member, American Society of Critical Care Anesthesiologists
2000-2001	Member, American College for Physician Executives
2000-present	Member, Maryland Society of Anesthesiologists
2001-present	Member, Association of University Anesthesiologists -Treasurer, 2009 - 2012
2004-2013	Member, Society of Academic Anesthesia Chairmen and Association of Anesthesiology Program Directors
2005-2013	Member, Society of Academic Anesthesia Chairmen (now Society of Academic Anesthesia Associations) -Council Representative, 2005-2010
2006-present	Member, Maryland State Medical Society
2007-20133	Member, Society for Education in Anesthesia
2007-present	Member, International Anesthesia Research Society
2007-present	Member, Neurocritical Care Society
2007-2010	Member, National Medical Association
2007-2013	Member, European Society of Anaesthesiology

**CONSULTANTSHIPS****Past**

Astra-Zeneca Pharmaceuticals Group (ICU sedation anesthetic pharmaceuticals)  
 Club Mediterranee Inc. (hyperbaric medicine)  
 Parke-Davis Pharmaceuticals (ICU anticonvulsant therapy; stroke)  
 The Upjohn Company (cerebral vasospasm)  
 Hill-Rom Company, Inc. (ICU design; patient transport)  
 ICOS Corporation (Stroke treatment)  
 Bristol-Myers-Squibb/Sanofi (anti-platelet therapy in stroke; clopidogrel)  
 Galileo Laboratories (neuro protection and stroke)  
 Sangart Inc. (blood substitutes and oxygen carriers)  
 Jefferson Medical College Anesthesiology, External Department Reviewer  
 NIH Clinical Center, Anesthesia and Surgical Services, Operational Review

Sphere Medical, Ltd (blood sampling and measuring technologies)

**Current**

None

**RECOGNITION**

**Awards and Honors**

- 1975 Delta Epsilon Sigma, Alpha Zeta Chapter
- 1975 Bachelor of Science, Magna Cum Laude
- 1981 Commendation from the Dean (Medicine)
- 1982 James A. Gibson Anatomical Honor Society
- 1985 Alpha Omega Alpha, Beta Chapter
- 2000 Beta Gamma Sigma, MBA (AACSB) Honor Society
- 2008 Paul Laurence Dunbar High School, Acknowledgment for Outstanding Support
- 2013 Terry Teaching Day, SUNY Buffalo, Department of Anesthesiology

**Invited Talks**

- 1991 Introduction to Hyperbaric Medicine, ACCM Grand Rounds, Hopkins
- 1994 Management of Subarachnoid Hemorrhage, Anesth., Brigham & Women's
- 1994 Directed Neurologic Exam, CCM Grand Rounds, Walter Reed
- 1995 Thrombolysis in Vertebrobasilar Ischemia, Neurology Grand Rounds, Univ. MD
- 1995 Non Red Cell Oxygen Carriers, ACCM Grand Rounds, Hopkins
- 1995 Cerebral Vasospasm: Pathophysiology and Implications for Therapy, Congress French Speaking Soc Neuro-Anesth., Paris, France
- 1996 Oxygen delivery and Vascular Response in Brain using Hemoglobin-Based Compounds, Neurology Grand Rounds, University of Heidelberg, Germany
- 1997 Is hyperventilation useful in the treatment of head trauma and ischemic brain injury-pro Debate, Society of Critical Care Medicine, San Diego, CA
- 1997 Barbiturate Therapy for Brain Injury, Neurosurgery Grand Rounds, Hopkins
- 1999 Sodium Regulation in Neurocritical Care/Hypertonic Saline, Grand Rounds, Brigham and Women's Hospital, Boston, Mass.
- 1999 Organization of a Neurointensive Care Unit and Hypertonic Saline Treatment in Neurocritical Care, Pan-American Congress of Neurology, Cartagena-Colombia.
- 1999 Grand Rounds, Union Memorial Hospital, Baltimore, MD
- 1999 Intensive Care Management of Subarachnoid Hemorrhage, NNI Stroke Program Inaugural Stroke Conference, Tan Sock Sing Hospital, Singapore.
- 1999 Neurointensive Care Symposium – Singapore
- 2000 Aspects of Sedation and Fiber Optic Bronchoscopy, Percutaneous Dilatational Tracheotomy (PDT) Workshop, Johns Hopkins Hospital, Baltimore, MD.
- 2000 Wilderness Medicine, Johns Hopkins Medical School, Baltimore, MD.
- 2003 Neu in NeuroAnesthesia and Neurocritical Care, Grand Rounds, Buffalo, NY.
- 2009 Anesthesiology Opportunities and Challenges Ahead, 8<sup>th</sup> Meeting of the Asian Society of Cardiothoracic Anesthesia and 14<sup>th</sup> Annual Meeting of the Japanese Society of Cardiovascular Anesthesiologists, Tokyo, Japan
- 2011 The Future of Anesthesiology, Taiwan Society of Anesthesiology, National Taiwan University, Taipei City, Taiwan

**Invited Symposia**

- 1993 Moderator and Editor, Diagnosis and Treatment of Subarachnoid Hemorrhage Neuro Rounds, Vol. 1, No. 1
- 1994 Speaker, Oxygen Delivery to the Brain, Second International Neurocritical Care Symposium, Beaver Creek, Colorado
- 1995 Speaker, Ventilatory Management of the Patient with Head Trauma, Respiratory Care Symposium, The Johns Hopkins Hospital
- 1995 Speaker, O<sub>2</sub> Delivery to the Brain Using Crosslinked Hemoglobin, San Diego
- 1995 Speaker, Rational Use of Sedation in the Intensive Care Unit, American Society of Critical Care Anesthesiologists, Atlanta
- 1996-1997 Speaker, Airway Management in the Neurological Patient Workshop - Society of Critical Care Medicine, New Orleans
- 1996 Speaker, Microvascular Effects of Crosslinked Hemoglobin in Brain, San Diego
- 1997 Speaker, Physiological Effects of Crosslinked Hemoglobin, Molecular Biology of Hematopoiesis, Hamburg, Germany
- 1997 Speaker, New Therapies in Brain Edema, Satellite Meeting, World Federation of Neurology, Buenos Aires, Argentina
- 1997 Speaker, Sedation in the Neurological Intensive Care Unit, Satellite Meeting, World Federation of Neurology, Buenos Aires, Argentina
- 1997 Speaker, Cerebral oxygenation, Satellite Meeting, World Federation of Neurology, Buenos Aires, Argentina
- 1997 Speaker, Controversy over Hyperventilation in Brain Injured Patients, Satellite Meeting, World Congress of Neurology, Buenos Aires, Argentina
- 1997 Moderator, Clinical Neurosciences Poster Session, American Society of Anesthesiology, San Diego, California
- 1998 Speaker, Hemoglobin-based Oxygen Carriers, 8th International Symposium: Clinical Intensive Care Medicine, Bremen, Germany
- 1998 Speaker, Hypertonic Saline Therapy in the Neuroscience ICU, University of Heidelberg-Mannheim, Mannheim, Germany
- 1999 Moderator: Exploring Options in the Neurosurgical Patient SNACC - Dallas, Texas
- 1999 Invited Consultant, Honorary Visiting Expert, Ministry of Health, Singapore. Lectures and Health Care System Evaluation, August-September
- 2000 Visiting Professor, Medical Reversal Herniation as Cause of Coma, World Congress on Coma and Brain Death, Cuba
- 2000 Visiting Professor for Neurology, Thrombolysis for Stroke and Panel Discussion Syncope vs. Seizures, Pan American Congress of Internal Medicine, Bogota, Columbia
- 2001 Speaker, Updates in Neurosurgery, Hypertonic Saline in Neuro ICU World Congress of Neurosurgeons, Australia, September 2001 Canceled 9/11
- 2001 Speaker, Neuroanesthesia Symposium Mannheim. Epidemiology and Pathophysiology of SAH. Institute for Anesthesiology and Operative Intensive Care Medicine, University of Mannheim, Germany, November
- 2002 Speaker, 31<sup>st</sup> Critical Care Medicine Congress. ICU Technology, Resource Assessment and Utilization. San Diego, CA, January
- 2002 South American Conference in Intensive Care Medicine. Transfusion Triggers and Transfusion Alternatives in the ICU. Iquique, Chile, October, 2002
- 2004 Speaker, American College of Surgeons, From the Perspective of Anesthesia, New Orleans, Louisiana, October
- 2004 Lecturer, American Society of Anesthesiologists. 1) Current Annual Meeting



- 2) I Can't Believe That I am Posted in Neuro-Radiology, Las Vegas, Nevada, October
- 2005 Lecturer, Perioperative Management Course, 1) The Post-op Patient with Acute Delirium/Cognitive Dysfunction, 2) Financial Implications of Perioperative Management, Marco Island, FL, March
- 2005 Speaker, Graduation Ceremonies, America the New Rainbow, Villa Maria School, Buffalo, New York, June
- 2005 Lecturer, Perioperative Management Course, 1) The Post-op Patient with Acute Delirium/Cognitive Dysfunction, Financial Implications of Perioperative Management, Aspen, Colorado, August
- 2005 Visiting Professorship, 29<sup>th</sup> International Israeli Congress of Anesthesiology, 1) Hypertonic Saline in Neurological Disease, 2) Safety Education in Action – The Johns Hopkins Experience, 3) Panel, Safety and Education in Anesthesia, Tel Aviv, Israel, September
- 2005 Moderator, Association of Anesthesiology Program Directors/Society of Academic Anesthesiology Chairs, Accreditation Challenges, Washington, D.C., November
- 2006 Lecturer, Perioperative Management Course, 1) The Post-op Delirium and Post-operative Cognitive Acute Delirium, 2) Financial Implications for Perioperative Management, Marco Island, FL, March
- 2006 Visiting Professorship, New York University School of Medicine, Oxygen Delivery to the Brain: Lessons Learned from Plasma Based O<sub>2</sub> Carriers, New York, New York, March
- 2006 Panel Discussion, American Society of Anesthesiologists, 1) Mild Hyperthermia and Cerebral Protection, 2) Fever after Traumatic Brain Injury – Need to Cool? Chicago, Illinois, October
- 2006 Lecturer, Society of Academic Anesthesiologists Chairs/Association of Anesthesiology Program Directors Annual Meeting, Accreditation Challenges Update, Seattle, Washington, October
- 2008 Panel Discussion Chair, AAAC/AACPD, Anesthesia Care Delivery Workforce: Alternatives for the Future, San Antonio, Texas, October
- 2009 Methodologies, protocols, and best practices, ASCA, Japan
- 2010 Anesthesia and Critical Care Medicine, United Arab Emirates, Tawam,
- 2010 Panel:Pro-Con: Should Recovering Anesthesiologists be allowed to return to practice. SAAA Meeting, Washington, DC.
- 2014 Panel Discussant: Health Care in the Middle East: Evolution and Reform. Dubai, UAE; Oct 14, 2014, *The Economist Group*
- 2015 Panel: Healthcare and Education as a Model for Cooperation. National Council on US-Arab Relations.
- 2015 Presentation: Public-Private Sectors in Promotion of Healthcare, US and Saudi Chambers of Commerce, Riyadh, Saudi Arabia

## OTHER PROFESSIONAL ACCOMPLISHMENTS

### Clinical Projects

- 1990 Certificate of Training, NOAA/UHMS, Diving and Hyperbaric Medicine Training Program
- 1990-present Cerebral Blood Flow and Metabolism Research, ACCM, Johns Hopkins

- 1993-2013 Magnetic Resonance Spectroscopy and Imaging Research, ACCM Johns Hopkins in conjunction with the Division of MRI Research, Department of Radiology, Johns Hopkins
- 1995 A double-blind comparative, randomized trial to determine the safety and efficacy of Zeneca ZD0859#1 vs Diprivan™ (propofol) injection for sedation in postsurgical ICU subjects - multi center, Zeneca Pharmaceutical Co., Principal Investigator (completed)
- 1995 Thrombolysis with Urokinase in vertebrobasilar artery occlusion - In house. Co-Investigator (completed)
- 1996 Effect of Urokinase on Resolution of Intraventricular Hemorrhage - In house. Co-Investigator (ongoing)
- 1996 Safety/efficacy study of tirilazad mesylate in North American women with subarachnoid hemorrhage - multi center, Upjohn Co. Co-Investigator (completed)
- 1996-1997 Safety study of tirilazad mesylate in male patients with subarachnoid hemorrhage - multi center, Upjohn Co. Co-Investigator (completed)
- 1996 A multi-center double-blind, placebo controlled study of safety and efficacy of a bradykinin antagonist (Bradycor) in patients with severe traumatic brain injury - multi center (completed, aborted)
- 1996 A Cost comparison study of IV versus IM fosphenytoin - single center, Parke-Davis Co. Co-Investigator (completed)
- 1997 Safety and efficacy of IV Ancrod in acute ischemic stroke - multi center. Co-Investigator (completed)
- 1997 Assessment of cerebral vasomotor reactivity after subarachnoid hemorrhage - single center (ongoing)
- 1997 Phase 2 double blind, placebo controlled, pharmacology and dose ranging safety study of Hu23F2G in patients with ischemic stroke - multi center ICOS (completed)
- 1998 A Phase 3 placebo controlled trial of poly stromal free hemoglobin (SFH) in adults undergoing aortic surgery -multi center, Northfield Co. Co-Investigator (completed)
- 1998-1999 A Tirilazad as a renal protectant in major cardiovascular surgery -multi center, Upjohn Co. Co-Investigator, Pharmacy Initiated (completed)
- 2000-2001 The multi-centered evaluation of the safety and efficacy of PolyHeme [Poly SFH-P Injection (polymerized human hemoglobin, pyridoxylated)] in acute blood loss - multi center, Northfield Laboratories, Inc., Co-Investigator, Pharmacy Initiated (completed)
- 2000-2001 Effect of blood pressure manipulation on outcome after stroke. Johns Hopkins University, Co-Investigator (completed).
- 2001-2003 Intraoperative hypothermia for aneurysm surgery trial multi center (IHAST), NIH sponsored study. Co-Investigator (completed).
- 2003-2008 A Clinical Safety (Phase II) Increasing Dose Study of MP4 (Hemospan™) in Total Prostatectomy Surgical Patients. Principle Investigator, Investigator Initiated (completed).

## ABSTRACTS

### (Representative Sample)

1. Zucali JR, Ulatowski JA and Mirand EA. Obtaining viable hemopoietic progenitor cells and cells capable of producing erythropoietin and granulocyte-macrophage colony stimulating

- activity from mouse fetal liver. *Blood* 54 (suppl):148a, 1979.
2. Ulatowski JA and Zucali JR. Effects of silica on fetal mouse liver cultures. *Exp Hematol* 8 (suppl 7): 108, 1980.
  3. Ulatowski JA, Zucali JR and Mirand EA. Kinetics of fetal liver cells capable of producing erythropoietin stimulating activity and a granulocyte-macrophage colony stimulating activity. *Exp Hematol* 8 (suppl 7):77, 1980.
  4. Ulatowski JA, Zucali JR and Mirand EA. Stimulation of bone marrow and fetal erythroid and granulocyte-macrophage colony forming cells by fetal mouse liver cell conditioned media. *Exp Hematol* 8 (suppl 7):103, 1980.
  5. Gengo F, Ulatowski JA, McHugh W and Kinkel W. Pharmacokinetics of metoprolol and response to mental stress in tremor patients. *Clin Pharmacol Ther* 33 (2): 252, 1983.
  6. Koehler RC, Ulatowski JA, Nishikawa T, Williams M, Bucci E, and Traystman RJ. Comparison of albumin and intra molecularly crosslinked hemoglobin transfusion on cerebral blood flow. *Journal of Cerebral Blood and Metabolism* 13 (Suppl 1):S426, 1993.
  7. Davis D, Ulatowski JA, Eleff S, Izuta M, Mori S, Shungu D, Van Zijl PCM. Rapid monitoring of changes in water diffusion coefficients during reversible ischemia in cat and rat brain. *Proceedings of the Society of Magnetic Resonance in Medicine. Twelfth Annual Scientific Meeting, August 1993.*
  8. Ulatowski JA, Williams MA, Nishikawa T, Koehler RC, Traystman RJ, and Bucci E. Maintenance of cerebral oxygen transport with bovine crosslinked hemoglobin. *Blood Substitutes and Related Products, Philadelphia, PA, September 1993.*
  9. Williams, MA, Ulatowski JA, Nishikawa T, Bucci E, Koehler RC, and Traystman RJ. Cerebral blood flow differences between crosslinked hemoglobin and albumin induced anemia. *Experimental Biology (FASEB), 1993.*
  10. Ulatowski JA, Koehler RC, Nishikawa T, Traystman RJ, Razynska A, Kwansa H, Urbaitis B and Bucci E. Role of nitric oxide scavenging in peripheral vasoconstrictor response to  $\beta\beta$  crosslinked hemoglobin. *XI Congress of the International Society for Artificial Cells, Blood Substitutes, and Immobilization Biotechnology, Boston, MA, July 1994.*
  11. Ulatowski JA, Bucci E, Traystman RJ and Koehler RC. Oxygen delivery to the brain after exchange transfusion with  $\beta\beta$ -crosslinked hemoglobin and subsequent hypoxic hypoxia. *American Society of Anesthesiologists, Atlanta, GA, October 1995.*
  12. Razumovsky AY, Monsein LH, Hagenouw-Taal JCW, Naff N, Williams MA, Ulatowski JA and Hanley DF. TCD monitoring of the effects of transluminal angioplasty (TLA) of intracerebral vessels. *International Symposium on Cerebral Hemodynamics: Transcranial Doppler, cerebral blood flow and other modalities. Dallas, TX, January 1996.*
  13. Asano Y, Ulatowski JA, Koehler RC, Traystman RJ, and Bucci E. Endothelial dependent dilation in pial arterioles after crosslinked hemoglobin transfusion. *Experimental Biology (FASEB), Washington, D.C., April 1996.*

14. Ulatowski JA, Asano Y, Koehler RC, Traystman RJ, and Bucci E. Sustained endothelial dependent dilation in pial arterioles after crosslinked hemoglobin transfusion. VI International Symposium on Blood Substitutes, Montreal, Canada, August 1996. *Artificial Cells, Blood Substitutes, and Immobilization Biotechnology* 24(4):445, 1996.
15. Ulatowski JA, Asano Y, Koehler RC, Traystman RJ, and Bucci E. Persistent endothelial-dependent dilation in pial arterioles after crosslinked hemoglobin transfusion in cats. American Society of Anesthesiology, New Orleans, La, 1996.
16. Deibert E, Bhardwaj A, Staats PS, Ulatowski JA. Intrathecal baclofen for the treatment of severe generalized tetanus. American Neurological Association, Miami, Florida, October 1996.
17. Kauppinen RA, Eleff SM, Ulatowski JA, Traystman RJ, Ulug AM, Oja J, and Van Zijl PCM. Quantitation of Oxygenation Changes during hypoxia using absolute T<sub>2</sub>. International Society for Magnetic Resonance in Medicine, Vancouver, Canada, April 12-18, 1997.
18. Van Zijl PCM, Eleff SM, Ulatowski JA, Oja JME, Ulug AM, Traystman RJ, and Kauppinen RA. Quantitation of oxygenation, CBF, and CBV changes using absolute T<sub>2</sub> from magnetic resonance imaging. *J. Cereb Blood Flow Metab* 17(Suppl. 1), S171, 1997.
19. Grohn OHJ, Oja JME, JA Lukkarinen, Eleff SM, Ulatowski JA, Traystman RJ, Van Zijl PCM, and Kauppinen RA. Decrease in absolute MRI T<sub>2</sub>-values in the early phase of focal cerebral ischemia in the rat. *J. Cereb Blood Flow Metab* 17(Suppl. 1), S172, 1997.
20. Qureshi AI, Suarez JI, Parekh P, Bhardwaj A, Choudry MA, Ulatowski JA, Hanley DF. Use of hypertonic (3%) saline infusion in the treatment of cerebral edema: Effect on intracranial pressure and lateral displacement of the brain. XVI World Congress of Neurology, Buenos Aires, Argentina, September, 1997.
21. Qureshi AI, Suarez JI, Parekh P, Bhardwaj A, Sung G, Tamargo RR, Rigamonti D, Ulatowski JA. Multiple aneurysms are associated with cigarette smoking. American Neurological Association, San Diego, California, October 1997.
22. Suarez JI, AI Qureshi, Bhardwaj A, Williams MA, Ulatowski JA, Hanley DF. Treatment of refractory intracranial hypertension with 23.4% saline. XVI World Congress of Neurology, Buenos Aires, Argentina, September, 1997.
23. Suarez JI, Bhardwaj A, Qureshi AI, Williams MA, Ulatowski JA, Hanley DF. Hypertonic saline as a treatment modality for cerebral edema and intracranial hypertension. Clinical and radiographic correlation. American Neurological Association, San Diego, California, October 1997.
24. Geocadin RG, Qureshi AI, Suarez JI, Parakh PD, Tamargo RJ, Bhardwaj A, Ulatowski JA. Cerebrovascular risk factors and the risk of symptomatic cerebral vasospasm following subarachnoid hemorrhage. American Academy of Neurology, Minneapolis, Minnesota, April, P06.119, *Neurology* 50:A412, 1998.
25. Choudry MA, Qureshi AI, Akbar MS, Ulatowski JA, Leshner RT, DeLorenzo RJ. Intravenous immunoglobulin versus plasmapheresis for myasthenia gravis. American Academy of Neurology, Minneapolis, Minnesota, April, S67.006, *Neurology* 50:A433, 1998.

26. Kauppin RA, Oja JME, Grohn OHJ, Lukkarinen JA, Ulatowski JA, Traystman RJ and Van Zijl PCM. Spin Echo Bold-fMRI: A quantitative tool for brain mapping and disease diagnosis. III International Congress of Pathophysiology, Lahti, Finland, June 28-July 3, 1998.
27. Rebel A, Ulatowski JA, Joung K, Bucci E, Traystman RJ, Koehler RC. Restoration of oxygen transport by oxygen-carrying solution during MCA occlusion in cats. American Society of Anesthesiologists, Orlando, Florida, October 1998.
28. Rebel A, Ulatowski JA, Suarez JI, Bucci E, Waschke KF, Traystman RJ, Koehler RC. Impaired autoregulation of cerebral blood flow by hemodilution. American Society of Anesthesiologists, Orlando, Florida, October 1998.
29. Razumovsky AY, Wityk RJ, Williams MA, Ponomarev V, Bhardwaj A, Ulatowski JA, Hanley DF. TCD in Acute Cerebral Ischemia. 24th American Heart Association International Conference on Stroke and Cerebral Circulation, 1999.
30. Rebel A, Koehler RC, Ulatowski JA, Traystman RJ. Cerebrovascular Autoregulation During Anemia. Experimental Biology, 1999.
31. Rebel A, Koehler RC, Ulatowski JA, Traystman RJ. Impaired Cerebrovascular Autoregulation to Arterial Hypertension During Anemia.
32. Rebel A, Alkayed NJ, Ulatowski JA, Hurn PD, Traytsman RJ, Kirsch JR. Down regulation of Neuronal Nitric Oxide Synthase (nNOS) mRNA in Long Term Propofol Anesthesia.
33. Geocadin RG, Qureshi AI, Suarez JI, Ulatowski JA. Long Term Outcome Following Medical Reversal of Transtentorial Herniation in Patients with Supratentorial Mass Lesions. AAN 1999.
34. Choudhry MA, Qureshi AI, Chua HC, Yahia AT, Youssef M, Ulatowski JA, Krendel DA. Respiratory Failure as the First Presentation of Myasthenia Gravis. AAN 1999.
35. Riley LH, Lukacyzk TA, Ulatowski JA, Kostuik JP, Minahan RE. Measures of Partial Neuromuscular Blockade for Intraoperative Monitoring of EMG. AAN 1999.
36. Razumovsky AY, Wityk RJ, Williams MA, Ponomarev V, Bhardwaj A, Ulatowski JA: TCD in Acute Cerebral Ischemia. Presented at 4<sup>th</sup> Meeting of European Society of Neurosonology and Cerebral Hemodynamics April, 1999, Venice, Italy.
37. Qureshi AI, Geocadin RG, Suarez JI, Ulatowski JA: Long-Term Outcome Following Medical Reversal of Transtentorial Herniation in Patients with Supratentorial Mass Lesions. Society of Neurosurgical Anesthesia and Critical Care. October 1999.
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