

## CURRICULUM VITAE

**NAME** John A. Ulatowski, M.D., Ph.D., M.B.A.

**HOME ADDRESS** PO Box 38367  
Baltimore, MD 21231-8367

**OFFICE ADDRESS** Department of Anesthesiology  
and Critical Care Medicine  
Blalock 1415  
The Johns Hopkins Hospital  
600 North Wolfe Street  
Baltimore, Maryland 21287-4965  
(410) 955-8408 (Work)  
(410) 955-4858 (Fax)  
E-mail: julatows@jhmi.edu

### ACADEMIC POSITIONS

2004-present The Mark C. Rogers Professor, Director, Anesthesiologist-in-Chief,  
Department of Anesthesiology/Critical Care Medicine, Johns Hopkins Medical  
Institutions, October

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

1998-present Professor, Department of Neurology, Johns Hopkins University

1998-present Professor, Department of Neurosurgery, Johns Hopkins University

**ACADEMIC POSITIONS** (cont.):

1998-present    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:**

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

**Academic and Hospital Appointments (cont.):**

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.

**Peer-Reviewed Scientific Articles (cont.)**

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 ββ-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.

**Peer-Reviewed Scientific Articles (cont.)**

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, Razynska 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.

**Peer-Reviewed Scientific Articles (cont.)**

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. 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.
39. 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.
40. 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.
41. 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.
42. 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.
43. 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.

**Peer-Reviewed Scientific Articles (cont.)**

44. 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.
45. 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.
46. 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.
47. 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.
48. 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.
49. 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.
50. 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.
51. 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.
52. Bhardwaj A, Ulatowski JA. Hypertonic saline solutions in brain injury. **Curr Opin Crit Care** 10:126-131, 2004.
53. Ulatowski JA, Peter J Pronovost, M.D., Ph.D. Recipient of the 2003 Presidential Scholar Award. **Anesthesiology** 100(2):216-7 Feb. 2004.
54. 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.
55. Sampie 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

**Peer-Reviewed Scientific Articles (cont.)**

56. Carhuapoma JR and Ulatowski JA: Blood pressure control after intracerebral hemorrhage: Have we reached the target? **Crit Care Med** 34(7):2023-4, 2006.
57. 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.
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 debriefings. **Jt Comm J Qual and Saf** 32(7):407-410, 2006.
59. 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, Review, 2006.

**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.

**BOOK CHAPTERS, MONOGRAPHS (cont.)**

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 JI, Ulatowski JA. Narcotics for brain injured patients? At what cost? **Crit Care Med** (Editorial) 27(2):262-63, 1999.

**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                        |

**EXTRAMURAL SPONSORSHIPS (cont.)**

- 12/98-11/03 NIH/NINDS 2R01NS31490-07 (**\$1,963,909**)  
 Functional Magnetic Resonance Studies of the Brain  
 Co-Investigator/John Ulatowski (5% effort), PI/Peter van Zijl
- 4/99-3/03 NIH/NINDS 1R01NS37664-01 (**\$1,311,183**)  
 Quantitation of the Bold Effect in Functional MRI  
 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-present 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-present Lecturer - Neuroanesthesia/Neuro Critical Care, Core Curriculum Department of Neurological Surgery  
 1994-present Lecturer - Core Curriculum, Department of Neurology  
 1997-present 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

**Trainees (cont.):**

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**

**Journals:**

Anesthesiology  
Anesthesia and Analgesia  
Annals of Neurology  
Clinic@s de Medicine 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 (#19900)  
1991 The American Board of Psychiatry and Neurology,  
Diplomate (#35081)

**Medical Licensure:**

1987 State of Maryland (#D36133)

**Service Responsibility:**

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-present Clinical Competence; Divisional, Education; Mock Oral Exam Organizing;  
Resident Selection; Clinical Research Review Committees

**Anesthesiology/Critical Care Medicine Committees (cont.):**

- 1998-present Vice Chairs Committee; Service Executive; Performance Improvement; Supply and Equipment; Pre-op Performance Committees
- 2000 Pediatric Anesthesia/PICU Director Search Committee
- 2001-present Anesthesia & Analgesia Subcommittee
- 2002-present OR Coordinators Committee (Chair)

**Neuroscience Critical Care Medicine Committees:**

- 1992-present Multi disciplinary M-4; NCCU Fellow Selection; Multi department (ACCM, Neurosurgery, Neurology) Committees
- 1994-present 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-present 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-present Intra-hospital Surgical Airway Management (Co-Chair); Weinberg OR Transition/Operations (Co-Chair); Ambulatory Surgi-Center Planning; Emergency OR Case Management Committees
- 2001-present Perioperative Transfusion and Blood Transfusion and Blood Conservation Subcommittee; Triad Committee Coordinator
- 2002-present OR Managers Committee
- 2004-present LCME Subcommittee on Medical Students
- 2006-present Chairman, Neurology Search Committee
- 2006-present JHM Executive Quality Improvement Council

**Advisory Committees: Institutional:**

- 1999-present Comprehensive Cancer Center Advisory Council
- 2002-present Clinical Systems Advisory Committee (CSAC) (Chair)
- 2003-present Benchmark Committee (New JHH Facility Planning)
- 2003-present JHM Leadership Development Program (Advisor)
- 2006-2009 Agenda Committee of the Advisory Board of the Medical Faculty

**PROFESSIONAL SOCIETIES**

- 1981-1985 Associate Member, International Society for Experimental Hematology
- 1988-present Member, American Society of Anesthesiologists
- 1988-present 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

**PROFESSIONAL SOCIETIES (cont.)**

- 2000-2001 Member, American College for Physician Executives
- 2000-present Member, Maryland Society of Anesthesiologists
- 2001-present Member, Association of University Anesthesiologists (AUA)
- 2005-2007 Member, Society of Academic Anesthesia Chairmen, Council Representative
- 2006-present Member, Maryland State Medical Society
- 2007-present Member, Society for Education in Anesthesia
- 2007-present Member, International Anesthesia Research society

**CONSULTANTSHIPS**

- 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)

**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

**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.

**Invited Talks:**

- 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.

**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

**Invited Symposia (cont.):**

- 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 Congress, 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 Speaker, W.T.G. Morton Society Meeting, 1) Hospitalist Futurism for our Specialty, 2) Models for Staffing ORs, New York, New York, March
- 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 Speaker, W.T.G. Morton Society Meeting, Training and Role of Anesthesia Assistants, Chicago, Illinois, September
- 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

**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

**Clinical Projects (cont.):**

- 1993-present 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<sup>TM</sup> (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-planned A Clinical Safety (Phase II) Increasing Dose Study of MP4 (Hemospan<sup>TM</sup>) in Total Prostatectomy Surgical Patients. Principle Investigator, Investigator Initiated.

**ABSTRACTS**

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.*

**ABSTRACTS (cont.)**

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
13. Doppler, cerebral blood flow and other modalities. Dallas, TX, January 1996.
14. 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.
15. 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.
16. 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.
17. Deibert E, Bhardwaj A, Staats PS, Ulatowski JA. Intrathecal baclofen for the treatment of severe generalized tetanus. American Neurological Association, Miami, Florida, October 1996.
18. 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.
19. 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.
20. 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.
21. 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.
22. 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.

**ABSTRACTS (cont.)**

23. 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.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. 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.
31. Rebel A, Koehler RC, Ulatowski JA, Traystman RJ. Cerebrovascular Autoregulation During Anemia. Experimental Biology, 1999.
32. Rebel A, Koehler RC, Ulatowski JA, Traystman RJ. Impaired Cerebrovascular Autoregulation to Arterial Hypertension During Anemia.
33. 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.
34. 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.

**ABSTRACTS (cont.)**

35. 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.
36. Riley LH, Lukacyzk TA, Ulatowski JA, Kostuik JP, Minahan RE. Measures of Partial Neuromuscular Blockade for Intraoperative Monitoring of EMG. AAN 1999.
37. 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.
38. 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.
39. Qureshi AI, Yahia AM, Mohammad Y, Choudhry M, Chua HC, Suri MFK, Krendel DA, Leshner RT, Ulatowski JA: Unrecognized Myasthenia Gravis as the Cause of Respiratory Failure. Society of Neurosurgical Anesthesia and Critical Care. October 1999.
40. Chin HC, Varelas PN, Natterman J, Yahia A, Ulatowski JA, Bhardwaj A, Williams MA, Hanley DF: Aggressive Respiratory Treatment in Myasthenic Crisis. Critical Care Medicine, 1999.
41. Hillis AE, Barker P, Aldrich E, Ulatowski JA, Beauchamp N, Wityk R: Improved function and perfusion with pharmacological blood pressure. 26<sup>th</sup> International Stroke Conference. February 2001.
42. Hillis AE, Razumovsky A, Ulatowski JA, Banker P, Sheikh K, Rigamonti D: Associations between age, vasospasm, and cognitive deficits after ruptured aneurysm repair. 26<sup>th</sup> International Stroke Conference. February 2001.
43. Torbey MT, Hauser TK, Bhardwaj A, Williams M, Ulatowski JA, Mirski M, Razumovsky A: Predictive model for MCA and ICA cerebral blood flow velocities (CBFV) changes following aneurysmal subarachnoid hemorrhage (SAH).
44. Razumovsky A, Torbey MT, Hauser TK, Bhardwaj A, Williams M, Ulatowski JA, and Mirski M. Cerebral blood flow velocities in other patients following aneurysmal subarachnoid hemorrhage. American Academy of Neurology 53<sup>rd</sup> Annual Meeting. May 2001.
45. Torbey M, Ziai W, Lin D, Guerrieri G, Bhardwaj A, Bahti N, Mirski M, and Ulatowski JA. Clinical and radiological predictors of tracheostomy in mechanically ventilated patients with spontaneous intracerebral hemorrhage. American Academy of Neurology 53<sup>rd</sup> Annual Meeting. May 2001.
46. Norris E, Ulatowski JA. Acute Normovolemic Hemodilution (ANH) Utilizing a Human Polymerized Hemoglobin Solution in High-Risk Patients Undergoing Aortic Reconstruction. IARS 76<sup>th</sup> Clinical and Scientific Congress Meeting. San Diego, California. March 2002.

**ABSTRACTS (cont.)**

47. Hillis AE, Barker P, Ulatowski JA, Beauchamp N, Wityk R. A simple test of hemispatial neglect reflects change in tissue perfusion with intervention in acute nondominant hemisphere stroke. Stroke (submitted).

Updated 5/22/07