

UNIVERSITY OF PENNSYLVANIA - SCHOOL OF MEDICINE  
Curriculum Vitae

Date: 05/30/2010

Jimmy W. Huh, MD

Address: The Children's Hospital of Philadelphia,  
Dept. of Anesthesiology and Critical Care;  
Division of Critical Care Office- 7C26, Main Building-  
34th Street & Civic Center Blvd.,  
  
Philadelphia, PA 19104 USA

If you are not a U.S. citizen or holder of a permanent visa, please indicate the type of visa you have:  
none (U.S. citizen)

Education:

1987	BS	Rensselaer Polytechnic Institute: Troy, NY (Biology)
1992	MD	SUNY-Health Science Center (Upstate Medical Center) at Syracuse, New York (Medicine)

Postgraduate Training and Fellowship Appointments:

1992-1995	Pediatrics Residency, Children's Hospital Medical Center, Cincinnati, Ohio
1997-2000	Fellowship, Pediatric Critical Care, The Children's Hospital of Philadelphia, Philadelphia, PA

Faculty Appointments:

2000-2009	Assistant Professor of Anesthesiology and Critical Care at the Hospital of the University of Pennsylvania and the Children's Hospital of Philadelphia, University of Pennsylvania School of Medicine
2000-2009	Assistant Professor of Pediatrics, University of Pennsylvania School of Medicine (Secondary)
2009-present	Associate Professor of Pediatrics, University of Pennsylvania School of Medicine (Secondary)
2009-present	Associate Professor of Anesthesiology and Critical Care at the Hospital of the University of Pennsylvania and the Children's Hospital of Philadelphia, University of Pennsylvania School of Medicine

Hospital and/or Administrative Appointments:

1995-1997	Clinical Staff Physician, Children's Hospital Medical Center, Cincinnati, Ohio
2000-present	Attending Physician, Pediatric Critical Care Medicine, Department of Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia, Philadelphia, PA

Specialty Certification:

2000	American Board of Pediatric Critical Care Medicine
2011	Recertification, Pediatric Advanced Life Support
2011	Recertification, Advanced Cardiac Life Support
2012	Recertification, American Board of General Pediatrics
2012	Recertification, Advanced Trauma Life Support
2014	Re-certification American Board of Pediatric Critical Care Medicine

Licensure:

1997-2010	Pennsylvania
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Awards, Honors and Membership in Honorary Societies:

1990-1991	FSA Medical School Scholarship
2000	Society of Critical Care (SCCM) Education and Scholarship Research Award
2000	Young Investigator Award - Oral Presentation to the Philadelphia Neurological Society
2000	Fellow of the Year Teaching Award, The Children's Hospital of Philadelphia
2001	David Cornfeld Bedside Teaching Faculty Award, The Children's Hospital of Philadelphia
2003	Faculty Honor Roll for Outstanding Teaching, The Children's Hospital of Philadelphia
2003	The 21st Annual National Neurotrauma Society Certificate for Outstanding Achievement in the Scientific Abstract Competition
2004	Faculty Honor Roll for Outstanding Teaching, The Children's Hospital of Philadelphia
2005	Oral Presentation, Neuroscience (Pre-Clinical), The 34th Annual Society of Critical Care Medicine Congress
2006	Outstanding Scientific Abstract, Oral Communication, The 24th Annual National Neurotrauma Symposium
2007	Oral Presentation for Outstanding Research Abstract, "New Frontier in Pediatric Traumatic Brain Injury" Conference

Memberships in Professional and Scientific Societies and Other Professional Activities:International:

2009-Present	South African Medical Research Council- Reviewer for research grant proposal in pediatric traumatic brain injury
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National:

- 2008-Present Department of Defense (DOD) Deployment Related Medical Research Program - HDA-Psychological Health/Traumatic Brain Injury: Scientific Panel Committee to review research grant applications for Traumatic Brain Injury
- (1997-Present) Society of Critical Care Medicine (Member)
- (2003-Present) Society of Neurotrauma (Member)
- (2004-Present) Society of Neuroscience (Member)

Local:

None

Editorial Positions:

- 2003-Present Ad Hoc Reviewer, for Pediatric Critical Care Medicine
- 2003-Present Abstract Reviewer, for the Society of Critical Care Medicine
- 2003-Present Ad Hoc Reviewer, for Journal of Neurology, Neurosurgery and Psychiatry
- 2003-Present Ad Hoc Reviewer, for Pediatric Emergency Care
- 2004-Present Ad Hoc Reviewer, for Critical Care Medicine
- 2005-Present Ad Hoc Reviewer, for Developmental Neuroscience
- 2008-Present Ad Hoc Reviewer, for Resuscitation
- 2009-Present Ad Hoc Reviewer, for Acta Paediatrica

Academic and Institutional Committees:

- 2001-2004 Patient and Family Satisfaction Survey Committee
- 2002-2004 Catheter Device (Central Line) Committee
- 2002-2005 Residency Interview Committee
- 2002-Present Residency Mentorship Committee
- 2008-Present Pediatric Critical Care Medicine Scientific Review Committee
- 2009-Present Pediatric Neurocritical Care Committee

Major Academic and Clinical Teaching Responsibilities:

- 2000-present Clinical responsibilities in a 42-bed Pediatric Intensive Care Unit and a 16-bed Progressive Care Unit at Children's Hospital of Philadelphia.
- 2000-Present Preparation and presentation of pediatric resident and pediatric anesthesia and critical care fellow lecture series
- 2000-present Preparation and presentation in the nurse education lecture series.
- 2000-2004 Teaching medical students from the University of Pennsylvania School of Medicine (pathophysiology and physical examinations)

## Lectures (Last 5 Years)

- 2005 Lecture - Pediatric Traumatic Brain Injury: Evidence for Age-at-Injury Responses. General and Thoracic Surgical Grand Rounds, The Children's Hospital of Philadelphia, Philadelphia, PA
- 2005 Lecture - Pediatric Multiorgan System Failure. Pediatric and Pathology Conference, The Children's Hospital of Philadelphia, Philadelphia, PA
- 2005 Lecture - Pediatric Traumatic Brain Injury - Evidence for Age at Injury Responses, Core Critical Care Medicine Conference. The Children's Hospital of Philadelphia, Philadelphia, PA
- 2005 Lecture - Cerebral blood flow alterations following pediatric traumatic brain injury. Critical Care Division Conference. The Children's Hospital of Philadelphia, Philadelphia, PA
- 2005 Lecture - Severe Pediatric Traumatic Brain Injury. The Annual National Pediatric Emergency Medicine Conference. The Children's Hospital of Philadelphia, Philadelphia, PA
- 2006 Lecture - Intracranial hemorrhage and transient hyperammonemia of the newborn. Critical Care Conference. The Children's Hospital of Philadelphia, Philadelphia, PA
- 2007 Lecture - Update on Pediatric Traumatic Brain Injury. Critical Care Conference. The Children's Hospital of Philadelphia, Philadelphia, PA
- 2008 Lecture- Cerebral blood flow alterations following pediatric traumatic brain injury- Critical Care Conference on 2/25/08; Children's Hospital of Philadelphia, University of Pennsylvania School of Medicine
- 2008 Lecture- "Severe pediatric traumatic brain injury". University of Pennsylvania School of Nursing; Critical Care Nurse Practitioner program. March 26, 2008
- 2008 Lecture- "The Golden Hour of Pediatric Traumatic Brain Injury". University of Pennsylvania School of Nursing; Critical Care Nurse Practitioner program. May 30, 2008
- 2008 Lecture- "Severe Pediatric Traumatic Brain Injury". Children's Hospital of Philadelphia; University of Pennsylvania School of Medicine. Pediatric Critical Care Fellow Conference for 1st year fellows. July 24, 2008

- 2009 Professor Rounds (Attending/Fellow Rounds)- Severe intracranial and subarachnoid hemorrhage following a minor fall from a bicycle- July 8, 2009. Children's Hospital of Philadelphia; University of Pennsylvania School of Medicine.
- 2009 Professor Rounds (Attending/Fellow Rounds)- CNS alteration due to severe hypernatremia; May 13, 2009. Children's Hospital of Philadelphia; University of Pennsylvania School of Medicine.
- 2009 Lecture- "Guidelines for treatment of intracranial hypertension following severe pediatric traumatic brain injury". Introductory lecture for the 1st year pediatric critical care fellows. July 3, 2009. Children's Hospital of Philadelphia; University of Pennsylvania School of Medicine.
- 2009 Simulation- "An 8-month old boy with lethargy and subdural hematoma". Simulation session with the 1st year pediatric critical care fellows on the management of a pediatric patient with non-accidental or inflicted severe traumatic brain injury. July 3, 2009. Children's Hospital of Philadelphia; University of Pennsylvania School of Medicine.
- 2009 Critical Care Research Conference- "Pediatric traumatic brain injury- clinical and experimental evidence for age-dependent responses".  
Presentation to Critical Care Faculty and Critical Care Fellows- September 2, 2009; Children's Hospital of Philadelphia, University of Pennsylvania School of Medicine
- 2009 Emergency Medicine/Critical Care Medicine Conference- "6 month old male with altered mental status and respiratory distress"- September 24, 2009. Case Conference with Critical Care and Emergency Medicine faculty and fellows- Children's Hospital of Philadelphia, University of Pennsylvania School of Medicine
- 2009 Lecture- "Cerebral blood flow alterations following pediatric traumatic brain injury". Lecture to all the pediatric critical care fellows.  
Department of Anesthesiology and Critical Care, Children's Hospital of Philadelphia; University of Pennsylvania School of Medicine. October 6, 2009
- 2009 Professor Rounds (Attending/Fellow Rounds)- "Altered mental status, lethargy, and pulmonary hemorrhage". November 11, 2009. Children's Hospital of Philadelphia; University of Pennsylvania School of Medicine.  
Discussion of an interesting case in the PICU among the pediatric critical care attendings and pediatric critical care fellows

Lectures by  
Invitation (Last 5  
Years)

- Jan, 2005 "Closed head injury in immature rats: evidence for an age-at-injury effect on synapse structure and axonal damage". The 34th Annual Society of Critical Care Medicine Congress. Phoenix, AZ
- Jul, 2006 "Repetitive mild non-contusive brain trauma in immature rats exacerbates traumatic axonal injury and axonal calpain activation." The 24th Annual National Neurotrauma Symposium, July 2006, St. Louis, MO
- Apr, 2007 "Cognitive deficits is accompanied by extensive traumatic axonal injury and focal neurodegeneration following diffuse brain trauma in the immature rat". The American Society for Clinical Investigation and the Association of American Physicians, April 2007, Chicago, IL
- Oct, 2007 "Interesting Severe Pediatric Traumatic Brain Injury Cases". "Pediatric Anesthesiology Conference, Department of Pediatric Anesthesiology & Critical Care Medicine, The Johns Hopkins Medical Center, Baltimore, MD
- Oct, 2007 "Severe Pediatric Traumatic Brain Injury: Do we really know what we're doing?" PICU Conference, Department of Pediatric Anesthesiology & Critical Care Medicine, The Johns Hopkins Medical Center, Baltimore, MD
- Oct, 2007 "Pediatric Traumatic Brain Injury: Evidence for Age-at-Injury Responses". Research Conference, Department of Pediatric Anesthesiology & Critical Care Medicine, The Johns Hopkins Medical Center, Baltimore, MD
- Dec, 2007 "Pediatric Traumatic Brain Injury: Evidence for Age-at-Injury Responses". Research Conference, Department of Pediatrics, Section of Critical Care, St. Christopher's Hospital for Children, Philadelphia, PA
- Mar, 2008 "Pediatric Traumatic Brain Injury: Evidence for age and injury-specific responses". Research Conference, Holtz Children's Hospital/Jackson Memorial Hospital; University of Miami School of Medicine, Miami, Florida
- Jul, 2008 "Pediatric Traumatic Brain Injury: Evidence for ongoing neurodegeneration, and age and injury-specific responses". Research Conference, Grand Rounds- Dept. of Anesthesiology and Critical Care, Children's Hospital Boston; Harvard Medical School; Boston, Massachusetts

- Jul, 2008 "Pediatric Traumatic Brain Injury Cases". Pediatric Anesthesiology Conference- Dept. of Anesthesiology and Critical Care; Children's Hospital Boston, Harvard Medical School; Boston, Massachusetts
- Jul, 2009 "Management of severe pediatric traumatic brain injury". Department of Anesthesiology and Critical Care Medicine Conference. A.I. duPont Hospital For Children. Wilmington, Delaware
- Jul, 2009 "Pediatric traumatic brain injury- experimental and clinical evidence of age-dependent responses". Pediatric Grand Rounds. A.I. duPont Hospital For Children. Wilmington, Delaware

Organizing Roles in Scientific Meetings:

None

Grants:Current:

Neurotrophin Treatment for Pediatric Brain Injury, NIH/NINDS , K08 NS053651, 3/2006-1/2011 (Jimmy W. Huh, PI), \$161,265/annual direct costs, 75% effort (Role in grant: Principal Investigator, NIH/NINDS K08 Mentored Clinician-Scientist Career Development Award Grant)

Past:

Age-dependent calpain activation following traumatic brain injury in the immature rat (17-day-old rats) , University of Pennsylvania Research Foundation Award, 7/2004-6/2005 (Jimmy W. Huh, PI), \$15,000/annual direct costs, 7.5% effort

Calpain activation following traumatic brain injury in the immature rat (11-day-old rats), Florence R.C. Murray Grant, The Children's Hospital of Philadelphia, 5/2004-4/2005 (Jimmy W. Huh, PI), \$30,000/annual direct costs, 7.5% effort (Role in grant: PI)

The effect of head elevation on intracranial pressure, cerebral perfusion pressure, and cerebral venous outflow in traumatic brain-injured children, Clinical & Translational Research Center (formerly the GCRC), 2721, 11/2002-11/2008 (Jimmy W. Huh, PI), \$2,400/annual direct costs, 2% effort (Role in grant: PI)

Bibliography:Research Publications, peer reviewed (print or other media):

1. Huh JW, Laurer HL, Raghupathi R, Helfaer MA, Saatman KE.: Rapid loss and partial recovery of neurofilament immunostaining following focal brain injury in mice. Experimental Neurology 175(1): 198-208, 2002.

2. Huh JW, Raghupathi R, Laurer HL, Helfaer MA, Saatman KE.: Transient loss of microtubule-associated protein 2 immunoreactivity after moderate brain injury in mice. Journal of Neurotrauma 20(10): 975-984, 2003.
3. Spinella PC, Dominguez TE, Drott HR, Huh JW, McCormick L, Rajendra A., Argon J., McIntosh TK., Helfaer MA.: S-100B protein-serum levels in healthy children and its association with outcome in pediatric traumatic brain injury. Critical Care Medicine 31(3): 939-945, 2003.
4. Dominguez TE, Priestley MA, Huh JW.: Caution should be exercised when maintaining a serum sodium level greater than 160 meq/l for severe pediatric traumatic brain injury. Critical Care Medicine 32(6): 1438-1440, 2004.
5. Dominguez TE, Mitchell M, Friess SH, Huh JW, Manno CS, Ravishankaer C., Gaynor JW, Tabbutt S.: The use of recombinant factor VIIa for refractory hemorrhage during Extracorporeal Membrane Oxygenation. Pediatric Critical Care Medicine 6(3): 348-351, 2005.
6. Huh JW, Franklin MA, Widing AG, Raghupathi R.: Regionally distinct patterns of calpain activation and traumatic axonal injury following contusive brain injury in immature rats. Developmental Neuroscience 28: 466-476, 2006.
7. Martin HA, Woodson A, Christian CW, Helfaer MA, Raghupathi R, Huh JW.: Shaken baby syndrome. Crit Care Nurs Clin North Am. 18(3): 279-286, 2006.
8. Stiefel M, Udoetuk JD, Storm PB, Sutton LN, Kim HK, Dominguez TE, Helfaer MA, Huh JW.: Brain tissue oxygen monitoring in pediatric patients with severe traumatic brain injury. Journal of Neurosurgery (Pediatrics) 105: 281-286, 2006.
9. Friess SH, Helfaer MA, Raghupathi R, Huh JW. : An evidence-based approach to severe traumatic brain injury in children. Pediatric Emergency Medicine Practice 4(12): 1-24, 2007.
10. Huh JW, Raghupathi R.: Chronic cognitive deficits and long-term histopathologic alterations following contusive brain injury in the immature rat. Journal of Neurotrauma 24(9): 1460-1474, 2007.
11. Huh JW, Widing AG, Raghupathi R.: Repetitive mild-non contusive brain trauma in immature rats exacerbates traumatic axonal injury and axonal calpain activation. Journal of Neurotrauma 24(1): 15-27, 2007.
12. Raghupathi R, Huh JW.: Diffuse brain injury in the immature rat: evidence for an age-at-injury effect on cognitive function and histopathologic damage. Journal of Neurotrauma 24(10): 1596-1608, 2007.

13. Abend NS, Huh JW, Helfaer MA, Dlugos DJ. : New anti-convulsant medications in the pediatric emergency room and intensive care unit. Pediatric Emergency Care 24(10): 705-718, 2008.
14. Huh JW, Widing AG, Raghupathi R: Midline brain injury in the immature rat induces sustained cognitive deficits, bihemispheric axonal injury and neurodegeneration. Experimental Neurology 213: 84-92, 2008. PMID: 2633731
15. Thompson A, Davis DH, Dominguez TE, Schultz S, Marlowe L, Huh JW, Helfaer MA. : Association of Rapid Head Growth in Children following Tracheostomy Tube Placement. Journal of Pediatric Health Care 23(5): 298-302, September/October 2009.
16. DiLeonardi AM, Huh JW, Raghupathi R: Impaired axonal transport and neurofilament compaction occur in separate populations of injured axons following diffuse brain injury in the immature rat. Brain Research 1263: 174-82, 2009. PMID: 2696174
17. Huh JW, Raghupathi R: New Concepts in Treatment of Pediatric Traumatic Brain Injury. Anesthesiology Clinics 27: 213-240, 2009. PMID: 2732581
18. Avery RA, Mistry RD, Shah SS, Boswinkel J, Huh JW, Ruppe MD, Borasino S, Licht DJ, Seiden JA, Liu GT: Patient Position During Lumbar Puncture Has No Meaningful Effect on Cerebrospinal Fluid Opening Pressure in Children. Journal of Child Neurology 25(5): 616-619, 2010.
19. Avery RA, Seiden JA, Shah SS, Boswinkel J, Huh JW, Ruppe MD, Licht DJ, Mistry RD, Liu GT: Reference Range for Cerebrospinal Fluid Opening Pressure in Children Undergoing Diagnostic Lumbar Puncture. New England Journal of Medicine 2010 Notes: ACCEPTED.

Contributions to peer-reviewed clinical research publications, participation cited but not by authorship:

1. Saatman KE, Feeko KJ, Pape RL, Raghupathi R: Differential behavioral and histopathological responses to graded cortical impact injury in mice. Journal of Neurotrauma 23(8): 1241-1253, 2006.

Abstracts  
(Last 5  
Years)

Huh JW, Rittase WB, Raghupathi R.: Closed head injury in immature rats: evidence for an age-at-injury effect on synapse structure and axonal damage. Critical Care Medicine 32(12(Suppl)): A22, December 2004 Notes: Selected for Oral Presentation at the 34th Annual Society of Critical Care Congress, Phoenix, AZ, January 2005.

Franklin M, Huh JW, Raghupathi R.: Tissue and cellular pathology following diffuse and focal brain injuries in the immature rat: evidence for an age-at-injury effect. Journal of Neurotrauma 2005 Notes: Presented at the 23rd Annual National neurotrauma Symposium, Washington, DC.

Huh JW, Franklin M, Rittase WB, Raghupathi R.: Cholinergic dysfunction and synaptic alterations following diffuse and focal brain injury in the immature rat. Journal of Neurotrauma 2005 Notes: Presented at the 23rd Annual National Neurotrauma Symposium, Washington, DC.

Huh JW, Widing AG, Raghupathi R.: Repetitive mild non-contusive brain trauma in immature rats exacerbates traumatic axonal injury and axonal calpain activation. Journal of Neurotrauma 2006 Notes: Presented at the 24th Annual National Neurotrauma Symposium, St. Louis, MO.

Widing AG, Huh JW, Raghupathi R.: Cognitive deficits, traumatic axonal injury and calpain activation following diffuse brain injury in the immature rat. Journal of Neurotrauma 2006.

Huh JW, Widing AG, Stellwag AM, Raghupathi R. : Cognitive deficits is accompanied by extensive traumatic axonal injury and focal neurodegeneration following diffuse brain trauma in the immature rat. April 2007.

Stellwag AM, Huh JW, Widing AG, Raghupathi R: Pathology of traumatic axonal injury following diffuse brain trauma in immature rats. Journal of Neurotrauma July 2007.

Huh JW, Franklin M, Raghupathi R: Chronic cognitive deficits and hemispheric atrophy are associated with either contusive or non-contusive closed head injury in the immature rat. Critical Care Medicine 35(12): A40, 2007.

- DiLeonardi AM, Huh JW, Raghupathi R: The immunophilin ligand FK506 attenuates neurofilament compaction but not impaired axonal transport following diffuse brain injury in the immature rat. Journal of Neurotrauma 25(7): 870, July 2008.
- Huh JW, Widing AG, Gin M, Raghupathi R: Glutamate receptor antagonists exacerbate neurodegeneration, traumatic axonal injury, and necrotic and apoptotic cell death in the immature rat following closed head injury. Journal of Neurotrauma 25(7): 890, July 2008.
- Avery RA, Seiden JA, Shah SS, Boswinkel J, Huh JW, Ruppe MD, Borasino S, Licht DJ, Mistry RD, Liu GT: Patient position during lumbar puncture does not alter CSF opening pressure. Annals of Neurology October 2008.
- Kilbaugh TJ, Dominguez TE, Kim C, Kim H, Friess SH, Helfaer MA, Zimmerman RA, Raghupathi R, Huh JW: Diffuse axonal injury following accidental pediatric traumatic brain injury is associated with fever and cognitive deficits, but not refractory intracranial hypertension. Critical Care Medicine 36(12): A126, December 2008.
- Huh JW, Widing AG, Raghupathi R: Increasing injury severity exacerbates neurodegeneration, axonal injury, and chronic cognitive deficits, but minimally affects caspase-3 activation following contusive brain injury in the immature rat. Journal of Neurotrauma 26(8): A-51, August 2009.
- DiLeonardi AM, Huh JW, Raghupathi R: The calcineurin inhibitor FK 506 reduces trauma-induced neurofilament dephosphorylation in the immature rat in an injury-severity dependent manner. Society for Neuroscience Page: A-245.19, October 2009.
- Huh JW, Oristaglio-Wilson A, DiLeonardi AM, Raghupathi R: IGF-1 N terminus tripeptide, GPE, reduces neuronal calpain and caspase-3 activation, neurodegeneration and microglial activation following closed head injury in the immature rat Society for Neuroscience(A-245.9), October 2009.

Editorials, Reviews, Chapters, including participation in committee reports (print or other media):

1. Su F, Huh JW: Traumatic brain and spinal cord injury. Pediatric Critical Care Medicine: The Requisites in Pediatrics. Davis D, Helfaer MA. (eds.). Mosby, 2010 (In Press).
2. Su F, Huh JW: Central nervous system monitoring. Pediatric Critical Care Medicine: The Requisites in Pediatrics. Davis D, Helfaer MA. (eds.). Mosby, 2010 Notes: In Press.

3. Huh JW, McIntosh TK, Helfaer MA, Saatman KE.: Neurocytoskeletal changes following traumatic brain injury. Molecular and Cellular Biology of Critical Care Medicine Page: 249-265, 2001.
4. Priestley MA, Huh JW.: Respiratory Failure (Pediatrics: Critical Care). eMedicine Journal 4(6): 1-27, 2003.
5. Priestley MA, Huh JW, Zuppa AF.: Pediatric Critical Care. Pediatric Anesthesia. Ronald S. Litman (eds.). The Requisite, Philadelphia, Elsevier Press, Page: 325-343, 2004 Notes: Chapter 38.
6. Su F, Raghupathi R, Huh JW.: Neurointensive Care for Traumatic Brain Injury in Children. eMedicine Journal 5(1): 1-9, 2004.
7. Beno S, Huh JW.: Analgesia and Sedation. The Philadelphia Guide: Inpatient Pediatrics. Frank G, Shah SS, Catalozzi MC, Zaoutis LB (eds) (eds.). Malden, MA: Blackwell Publishing Co. Page: 16-19, 2005.
8. Dominguez TE, Huh JW.: Do We Need Another Pediatric Severity of Illness Score? Crit Care Medicine 33(7): 1643-1645, 2005.
9. Priestley MA, Huh JW.: Respiratory Failure. eMedicine Journal 6(1): 1-11, 2005.
10. Su F, Raghupathi R, Huh JW.: Neurointensive Care for Traumatic Brain Injury in Children. Pediatric Critical Care: eMedicine Page: 1-7, 2005 Notes: In eMedicine Journal.
11. Huh JW, Helfaer MA.: To Drink or not to Drink: The role of fluid vs. vasopressor resuscitation in Traumatic Brain Injury and Systemic Inflammatory Response Syndrome. Crit Care Medicine 34(10): 2697-2698, 2006.
12. Kilbaugh TJ, Huh JW, Helfaer MA: Disorders of Temperature Control. Current Pediatric Therapy. Burg FD, Ingelfinger JR, Polin RA, Gershon AA. (eds.). Saunders Elsevier Inc. 18th edition: 171-176, 2006.
13. Su F., Raghupathi R., Huh JW.: Neurointensive care for traumatic brain injury in children. eMedicine (www.emedicine.com/ped/topic3082.htm) Page: 1-7, 2008.

Patents:

None. .