

Child Protection Services Resume (CPS) 2021

Patrick D. Barnes, MD
Former Chief, Pediatric Neuroradiology
Inaugural Director, Pediatric MRI & CT Center
Lucile Packard Children's Hospital at Stanford
Professor of Radiology, Emeritus
Pediatric Radiology and Neuroradiology
Stanford University Medical Center
pbarnes@stanford.edu
<https://profiles.stanford.edu/patrick-barnes>

Education, Training, Certification, Clinical & Academic Appointments:

Doctor of Medicine, University of Oklahoma College of Medicine, Okla. City, OK 1973.
Residency, Diagnostic Radiology University of Oklahoma College of Medicine, 1976.
Fellowship, Pediatric Neuroradiology Children's Hospital and Harvard Medical School, Boston, MA 1977.
American Board of Radiology (ABR) Certificate in Diagnostic Radiology 1977.
ABR Certificate of Added Qualifications in Neuroradiology 1995.
ABR Maintenance of Certification in Neuroradiology 2008 - 2018.
Chief of Pediatric Neuroradiology, Oklahoma Memorial Children's Hospital, Associate Professor of Radiology, University of Oklahoma College of Medicine 1977-1986.
Director of Pediatric Neuroradiology and MRI, Children's Hospital, Boston, Associate Professor of Radiology, Harvard Medical School, Boston MA 1986-1999.
Chief of Pediatric Neuroradiology and Co-Director Pediatric MRI & CT Center, Lucile Packard Children's Hospital, Professor of Radiology, Stanford University School of Medicine, Stanford CA 2000-2018.
Emeritus Professor of Radiology (Pediatric Radiology & Neuroradiology) 2018.

Committees:

1992 Neuroradiology Consultant, Child Protection Service, Children's Hospital, Boston
1998 Expert Panel Participant, Evidence-Based Guideline Development for the Management of Children Younger than Two Years of Age with Minor Head Trauma, Packard Foundation.
2000 Expert Panel Participant, Evidence-Based Neuroimaging in the Neonate-Practice Parameter Development Committee, American Academy of Neurology.
1992-1996 Chair, Pediatric Neuroradiology Committee, Society for Pediatric Radiology
2000 Chair, Standards and Guidelines Committee, American Society of Pediatric Radiology
2000 Member, Child Abuse Committee, Society for Pediatric Radiology
2000 Neuroradiology Consultant, Child Protection Services, Lucile Packard Children's Hospital, Stanford University Medical Center.
2007 Chair, Child Abuse Task Force, Society for Pediatric Radiology
2008 Member, Child Abuse Task Force, Society for Pediatric Radiology
2008 Member, Neuroradiology Committee, Society for Pediatric Radiology
2008 Co-Founder & Member, Child Abuse Task Force, SCAN Team, Lucile Packard Children's Hospital, Stanford University Medical Center.

Invited Lectures / Meetings (47):

1997 Invited Lecturer, "Potential Problems and Pitfalls in Pediatric Neuroradiology", Boston University Medical Center, Department of Radiology Grand Rounds, March 20, Boston, MA.
1998 Invited Lecturer, "Imaging of CNS Injury in Child Abuse", Department of Radiology, Children's Hospital of Pittsburgh and University of Pittsburgh Medical Center, February 10, Pittsburgh, PA.
1998 Invited Lecturer, "Imaging of CNS Injury in Child Abuse", Department of Radiology, William Beaumont Hospital, March 18, Royal Oak, MI.
1998 Invited Speaker, Special Focus Session--Child Abuse Revisited, Radiological Society of North

America, 84th Scientific Assembly and Annual Meeting, December 1, Chicago, IL.

1998 Invited Lecturer, "Potential Pitfalls in Imaging of the Pediatric CNS", The Roger A. Hyman Memorial Lecture, Long Island Radiological Society and Winthrop-University Hospital, Dec. 8, Long Island, NY

1999 Invited Speaker, "Shaken Baby Syndrome", Current Issues in Emergency Practice, Seventh Annual Massachusetts Emergency Nurses Association and Massachusetts College of Emergency Physicians Course, April 13, Marlboro, MA.

1999 Invited Speaker, "The Pediatric Radiologist as Expert Witness: How I do it", Society for Pediatric Radiology, Postgraduate Course, May 12, Vancouver, B.C., Canada.

1999 Invited Speaker, Potential Pitfalls in Pediatric Neuroradiology, and Session Moderator, Pediatric Neuroradiology Session, MRI/CT Update Post-graduate Course, Brigham & Women's Hospital, Harvard Medical School, October 29, Boston, MA.

2000 Invited Lecturer, Pitfalls in Pediatric Neuroradiology, Neurosurgery Grand Rounds, Stanford University Medical Center, Palo Alto, CA., Sept. 1, 2000

2003 Barnes PD. Trauma, including Child Abuse. CT & MRI: State of the Art & Unanswered Questions, SPR Postgraduate Course, San Francisco, CA, May 6, 2003.

2004 Barnes PD. Nonaccidental Head Injury in Children. Neurosciences Grand Rounds. Santa Clara Valley Medical Center. San Jose, CA, Feb. 5, 2004.

2004 Barnes PD. Forensic Science, Evidence-based Medicine, and the "Shaken Baby Syndrome": Radiographic Imaging and Findings. American Academy of Forensic Sciences Annual Meeting, Dallas, Tx, Feb. 16, 2004.

2004 Barnes PD. Nonaccidental Injury of the Developing Brain: Issues, Controversies, and the Mimics. Moderator and Speaker. Neuroimaging Aspects. Focus Session, American Society of Pediatric Neuroradiology, American Society of Neuroradiology Annual Meeting, Seattle, WA, June 7, 2004.

2004 Barnes PD. Child abuse: the role of neuroimaging in the clinical and forensic evaluation of suspected nonaccidental injury including its mimics. 12th Annual Pediatric Update, Lucille Packard Children's Hospital and Stanford University Medical Center, July 16, 2004.

2005 Barnes P. Child abuse: the role of neuroimaging in the clinical and forensic evaluation of suspected nonaccidental injury including its mimics. 13th Annual Pediatric Update, Lucile Packard Children's Hospital and Stanford University Medical Center, July 8, 2005.

2005 Barnes P. Child abuse: the role of neuroimaging in the clinical and forensic evaluation of suspected nonaccidental injury including its mimics. Neurosurgery Grand Rounds, Stanford University Medical Center, July 15, 2005.

2006 Barnes P. Child abuse: Issues and Controversies in the Era of Evidence-based Medicine. Pediatric Grand Rounds. Lucile Packard Children's Hospital, Stanford University Medical Center, October 13, 2006.

2007 Barnes PD. Lecturer. How I do it – Advanced Neuro-MRI of Nonaccidental CNS injury and its Mimics. Society for Pediatric Radiology 50th Annual Meeting and Postgraduate Course. Miami FL. April 20, 2007.

2007 Barnes P. Lecturer. Child Abuse: Pitfalls in Pediatric Neuroimaging. EBMS Symposium: An Evidence-based Analysis of Infant Brain and Skeletal Injury. Chicago IL, May 10, 2007.

2007 Barnes P. Lecturer. Child Abuse: Issues and Controversies in the Era of Evidence-Based Medicine. Department of Social Services and Child Protection, Lucile Packard Children's Hospital and Stanford University Medical Center, June 21, 2007.

2007 Barnes P. Lecturer. Child Abuse: Issues & Controversies. Pediatrics CME Program. Salinas Valley Memorial Healthcare System, Salinas CA, Nov. 16, 2007.

2008 Barnes P. Lecturer. Child Abuse and the Mimics. Imaging of Brain, Blood, & Bones. Death of a Child Symposium. The Center for American and International Law. Plano TX, March 4, 2008.

2008 Barnes P. Imaging of Child Abuse: Controversies in the Era of Evidence-Based Medicine. Herman Grossman Visiting Lecturer. Radiology & Pediatrics Grand Rounds. Duke University Medical Center, Durham NC, April 10, 2008.

2008 Barnes P. Update on Brain Imaging in Nonaccidental Trauma. Neuroimaging I Session, Pediatric Radiology Series. Radiologic Society of North America, Chicago IL, Nov. 30, 2008.

2009 Barnes P. Medical Imaging in Brain Trauma An Evidence-based Analysis of Infant Brain & Skeletal Trauma. EBMS Symposium (American Academy of Forensic Sciences). Denver CO, February 22, 2009.

2009 Barnes P, Krasnokutsky M. Intracranial Hemorrhage and Thrombosis: Imaging & Pitfalls. An Evidence-based Analysis of Infant Brain & Skeletal Trauma. EBMS Symposium (American Academy of Forensic Sciences). Denver CO, February 22, 2009.

2009 Barnes P. Imaging of Child Abuse and the Mimics: Controversies in the Era of Evidence-Based Medicine. Innocence Network Conference. South Texas College of Law, Houston TX, March 21, 2009.

2009 Child Abuse and the Mimics: Controversies in the Era of Evidence-Based Medicine. Visiting Professor, Department of Radiology, Hospital for Sick Children, University of Toronto, Toronto Ontario Canada, Sept. 24, 2009.

2009 Child Abuse, NAI, and the Mimics: Controversies in the Era of Evidence-Based Medicine Seminar. Shaken Baby Death Review Team (Gouge Inquiry). Ministry of the Attorney General, Province of Ontario. Toronto Ontario, Canada, Sept. 24, 2009.

2009 Child Abuse – Nonaccidental Injury (NAI): Controversies in the Era of Evidence-Based Medicine. Controversies in Forensic Science and Medicine: Towards Resolution in the 21st Century. Centre for Forensic Science and Medicine, University of Toronto, Toronto Ontario, Canada, Sept. 25, 2009.

2010 Evidence-based Update: Imaging in Nonaccidental Injury and the Mimics: Blood, Brain, & Bones. National Association of Criminal Defense Attorneys and the Innocence Network (Bureau of Justice Assistance Grant), April 15, 2010, Atlanta GA.

2010 Child abuse and the mimics. Update on issues & controversies in the era of evidence-based medicine. Pediatric Grand Rounds. Department of Pediatrics. University of Arizona Medical Center, Tucson AZ, June 9, 2010.

2010 Imaging of fetal and neonatal brain abnormalities. Birth Injury Group. American Association of Justice, Vancouver, BC, Canada, July 11, 2010.

2010 Invited Lecturer & Panelist. Child abuse and the mimics. Update on issues & controversies in the era of evidence-based medicine. National Child Abuse DRC Conference, Las Vegas NV, August 26, 2010.

2010 Expert Testimony (Baumer Case). Child abuse and the mimics. Update on issues & controversies in the era of evidence-based medicine. Michigan Innocence Project. University of Michigan Law School, Detroit, Michigan September 30, 2010.

2010 Child abuse and the mimics. Update on issues & controversies in the era of evidence-based medicine. Neuroscience Grand Rounds, Vancouver General Hospital, BC Children's Hospital, University of British Columbia, Vancouver BC, Canada, October 13, 2010.

2011 Neuroimaging in the Evaluation of pattern and timing of fetal and neonatal brain abnormalities (3 lectures). The 27th Annual Conference on Obstetrics, Gynecology, Perinatal Medicine, Neonatology, and the Law. Boston University Continuing Medical Education Course, Maui, Hawaii, January 2-6, 2011.

2011 Imaging of child abuse and the mimics. Issues & controversies in the era of evidence-based medicine. California Public Defenders Association Annual Meeting, Monterey, CA, January 21, 2011.

2011 Invited Participant & Discussant, Pediatric Abusive Head Trauma. Medical, Forensic, and Scientific Advances and Prevention. Third International Conference. PennState Hershey College of Medicine. San Francisco, CA, July 7-8, 2011.

2011 Imaging of child abuse and the mimics. 2nd Biennial International Conference on Brain Injury in Children, SickKids Centre for Brain & Behavior, The Hospital for Sick Children, July 13, 2011, Toronto, Canada.

2011 Imaging of child abuse and the mimics. Evidence Based Medicine and Social Investigation (EBMSI) Conference, Vancouver, Canada, August 5, 2011.

2011 Child abuse and the mimics: controversies in the era of evidence-based medicine. Cook County Public Defenders' Conference, Oak Brook IL September 8-9, 2011.

2011 Findley K, Barnes P, Moran D, Sperling C. Challenging shaken baby syndrome convictions in the light of new medical and scientific research. *Integrus Health* Law & Medicine Lecture Series. Innocence Project. Oklahoma City University School of Law, Oklahoma City, OK, Sep. 21, 2011.

2012 Imaging of Child Abuse: Fact, Fiction and Responsible Action. Society for Pediatric Radiology, American Academy of Pediatrics Conference. Orlando CA, Feb.4-5, 2012.

2012 Imaging of child abuse and the mimics. Evidence Based Medicine and Social Investigation (EBMSI) Conference, Vancouver, Canada, August 3, 2012.

2012 Invited Lecturer & Panelist. Child abuse and the mimics. Update on issues & controversies in the era of evidence-based medicine. National Child Abuse DRC Conference, Las Vegas NV, September 6, 2012.

2013 Imaging of child abuse and the mimics. Evidence Based Medicine and Social Investigation (EBMSI) Conference, Vancouver, Canada, August 2, 2013.

2013 Invited Lecturer. Child Abuse – Nonaccidental Injury (NAI) - Abusive Head Trauma (AHT) - Issues and Controversies in the Era of Evidence-Based Medicine, An Update. World Congress on Infant Head Trauma. American Forensic Pathology Incorporated. The Center for American and International Law. Plano, Texas, USA, November 15, 2013.

2014 Invited Lecturer, NCADRC Conference Child Abuse Mimics Lecture, Las Vegas NV, Oct 17, 2014.

2015 Invited Lecturer, CPDA / CCDS Conference Child Abuse Mimics lecture, Monterey CA, Feb 13, 2015.

2015 Invited Lecturer, NACDL Forensic College Conference, Child Abuse Mimics Lecture, New York City, NY, June 8, 2015.

2015 Invited Speaker & Panel Discussant, Child Abuse Evidence Conference – New Perspectives Law, Medicine, Psychology, Statistics, University of Michigan - “Child Abuse & Mimics - Medical Imaging Issues and Controversies in the Era of Evidence-Based Medicine”

Research Activities:

2006- 2U HD 27880-16 Van Meurs (PI). Project period: 04/01/06–03/31/11 NIH/NICHHD *Multicenter Network of Neonatal Intensive Care Units Intervention Trial of Hypothermia for Term Hypoxic Ischemic Encephalopathy*. Role: Central MRI reader/Neuroimaging consultant.

2006- 2U HD 27880-16 Van Meurs (PI). Project period: 04/01/06–03/31/11 NIH/NICHHD *Multicenter Network of Neonatal Intensive Care Units Neuroimaging and Neurodevelopmental Outcome, SUPPORT MultiCenter Project* This project investigates the value of brain magnetic imaging (MRI) in predicting neurodevelopmental outcome in extremely low birthweight (ELBW) infants. Role: Central MRI reader / Neuroimaging consultant.

Scientific Publications (15):

9. Hamza M, Noorani P, Bodensteiner J, Barnes P. Benign extracerebral fluid collections: a cause of macrocrania in infancy. *Pediatric Neurology* 1987; 3:218-221.

12. Schick R, Jolesz F, Macklis J, Barnes P. Magnetic resonance diagnosis of dural venous sinus thrombosis complicating L-asparaginase therapy. *J Computerized Medical Imaging and Graphics* 1989;13:319-327.

19. Jones KM, Mulkern RV, Mantello MT, Melki PS, Ahn SS, Barnes PD, Jolesz FA. Brain hemorrhage: evaluation with fast spin-echo and conventional dual spin-echo images. *Radiology* 1992;182:53-58.

22. Schutzman SA, Barnes PD, Mantello MT, Scott RM. Epidural hematomas in children. *Annals of Emergency Medicine* 1993;22:535-541.

32. Vera M, Fleisher GR, Barnes PD, Bjornson BH, Allred EN, Goldmann DA. Computed tomography imaging in children with head trauma: utilization and appropriateness from a quality improvement perspective. *Infect Control Hosp Epidemiol* 1993;14:491-499.

39. Klufas RA, Hsu L, Barnes PD, Patel MR, Schwartz RB. Dissection of the carotid and vertebral arteries: imaging with MR angiography. *AJR* 1995;164:673-677.

70. Alberico RA, Barnes PD, Robertson RL, Burrows PE. Helical CT angiography: dynamic cerebrovascular imaging in children. *AJNR* 1999; 20: 328-334.

76. Robertson RL, Ben-Sira L, Barnes PD, Mulkern RV, Robson CD, Maier SE, Rivkin MJ, DuPlessis AJ. MR line scan diffusion imaging of term neonates with perinatal brain ischemia. *AJNR* 1999; 20: 1658-1670.

85. Ralston ME, Chung K, Barnes PD, Emans JB, Schutzman SA. The role of flexion-extension radiography in blunt cervical spine injury. *Acad Emerg. Med.* 2001; 8 (3): 237-245.

86. Schutzman SA, Barnes PD, Duhaime A-C, Greenes D, Homer C, Jaffe D, Lewis RJ, Luerssen TG, Schunk J. Evaluation and management of children younger than two years old with apparently minor head trauma: proposed guidelines. *Pediatrics* 2001; 107: 983-993.

113. Keller KA, Barnes PD. Rickets vs. Abuse, A National & International Epidemic. *Pediatric Radiology*, 2008;38:1210-1216.

114. Keller KA, Barnes PD. Rickets vs. Abuse – The Evidence: Reply to Editorial Commentaries. *Pediatr Radiol* 2009;39:1130.

117. Barnes P. Imaging of NAI and the mimics: issues and controversies in the era of evidence-based medicine. *Radiol Clin North Am* 2011;49:205-229.
118. Findley KA, Barnes PD, Moran DA, Squier W. Shaken baby syndrome, abusive head trauma, and actual innocence: getting it right. *Legal Studies Research Paper Series Paper No. 1195*. Houston J Health Policy (2012). Social Science Research Network Electronic Paper Collection at: <http://ssrn.com/abstract=2048374>.
135. Miller D, Barnes P, Miller M. The significance of macrocephaly or enlarging head circumference in infants with the triad: further evidence of mimics of shaken baby syndrome. *Am J Forensic Med Pathol*. 2015 Jun;36(2):111-20. doi: 10.1097/PAF.0000000000000152.
140. Findley K, Risinger D, Barnes P, Mack J, Moran D, Scheck B, Bohan T. Feigned Consensus: Usurping the Law in shaken baby syndrome / abusive head trauma prosecutions. University of Wisconsin Law School. *Legal Studies Research Paper Series Paper No. 1461*, 2019. <https://ssrn.com/abstract=3328996>

Case Reports (5):

10. Jones KM, Barnes PD. MRI diagnosis of brain death. *AJNR* 1992;13:65-66.
25. Barnes PD, Robson CD. An Unresponsive Infant in the Emergency Room - The Hyperacute Subdural Hematoma of Child Abuse. *Semin Pediatr Neurol* 1999; 6 (3):225-227.
27. Barnes PD, Robson CD. CT findings in hyperacute nonaccidental brain injury. *Pediatric Radiology* 2000; 30: 74-81.
34. Barnes P, Krasnokutsky M, Monson K, Ophoven J. Traumatic spinal cord injury: accidental versus nonaccidental injury. *Semin Pediatr Neurol* 2008;15:178-184.
37. Barnes P, Galaznik J, Gardner H, Shuman M. Infant acute life-threatening event – dysphagic choking versus nonaccidental injury. *Semin Pediatr Neurol*, 2010; 17: 7-11.

Scientific Presentations (11):

18. Hamza M, Noorani R, Bodensteiner J, Barnes P. "Benign Subdural Collection: A Cause of Macrocrania in Infancy". Presented at the 39th Annual Meeting of the American Academy of Neurology, New York, April 9, 1987 (*Neurology* 1987; 37: 347).
65. Alberico RA, Barnes PD, Robertson RL, Burrows PE. Kirkpatrick Young Investigator Award. Dynamic cerebrovascular imaging in pediatric patients with use of helical CT angiography. Paper presented at the Society for Pediatric Radiology, 40th Annual Meeting, St. Louis, Missouri, May 15, 1997, and American Society of Neuroradiology, 35th Annual Meeting, Toronto, Ontario, Canada, May, 1997.
88. Robertson RL, Ben-Sira L, Schlaug G, Maier SE, Mulkern RV, Duplessis A, Barnes PD, Robson CD. Line scan diffusion imaging of the brain in neonatal cerebral infarction. Derek Harwood-Nash Award for Outstanding Pediatric Neuroradiology Paper presented at the ASNR/ASPNR Annual Meeting, San Diego, CA, May 24, 1999.
115. Barnes PD. CT and MRI in the Forensic Evaluation of Alleged Nonaccidental Brain Injury. Presented at the 47th Annual Meeting, Society for Pediatric Radiology, Savannah, GA, April 28, 2004.
116. Barnes P, Lertvananurak R, Hahn J, DiDomenico P. Leukoencephalopathy: an unusual pattern in infantile hypoxia-ischemia. Alternate presentation at the 48th Annual Meeting, Society for Pediatric Radiology, New Orleans, LA, May 7, 2005; Poster presentation, American Society of Pediatric Neuroradiology, American Society of Neuroradiology, Toronto Ontario Canada, May 25, 2005.
118. Barnes P. Cerebral Venous Thrombosis: A Mimic Of Nonaccidental Injury. Poster presentation, American Society of Pediatric Neuroradiology, American Society of Neuroradiology, Toronto Ontario Canada, May 25, 2005.
119. Krasnokutsky M, Barnes P. Cerebral Venous Thrombosis: a mimic of nonaccidental injury. Scientific Paper Session. Society for Pediatric Radiology. Miami FL. April 18, 2007.
120. Krasnokutsky M, Barnes P. Spinal Cord Injury without Radiographic Abnormality (SCIWORA) – a Mimic of Nonaccidental Injury. Scientific Paper Session. Society for Pediatric Radiology. Miami FL. April

- 20, 2007; Scientific Paper Session. American Society of Neuroradiology / American Society of Pediatric Neuroradiology, Chicago IL. June 13, 2007.
122. Keller KA, Barnes PD. Imaging Findings in Congenital Rickets (a mimic of child abuse). Scientific Paper Session, Society for Pediatric Radiology, Scottsdale AZ. May 2008.
123. Barnes P, Galaznik J, Krasnokutsky M. CT in Infant Dysphagic Choking Acute Life Threatening Event (ALTE – a mimic of child abuse). Scientific Paper Sessions, Society for Pediatric Radiology, Scottsdale AZ, May 2008; American Society of Pediatric Neuroradiology / American Society of Neuroradiology, New Orleans LA, June 2008.
133. Keller K, Barnes P, Ayoub D, Ophoven J. Dating the CML: a radiologic-pathologic case report and review of the literature. Scientific Poster Presentation Society for Pediatric Radiology Annual Meeting, Boston MA, April 2010.

Books, Chapters, Reviews, & Editorials (16):

1. Wolpert S, Barnes P. MRI in pediatric neuroradiology. St. Louis: Mosby-Year Book Publishers, 1992.
4. Blickman J, Parker B, Barnes P: Pediatric Radiology: The Requisites, 3rd ed. Philadelphia PA, Elsevier, 2009.
37. Kleinman PK, Barnes PD. Head trauma. In Kleinman PK, ed. Imaging of Child Abuse, 2nd ed. St. Louis: Mosby-Year Book Publishers, Ch. 15, 1998.
38. Barnes PD, Mulkern RV. Physical, biological, and clinical principles of MRI. In Kleinman, PK, ed. Imaging of Child Abuse, 2nd ed. St. Louis-Mosby-Year Book Publishers, Ch. 22, 1998.
49. Barnes PD. Neuroimaging and the Timing of Fetal and Neonatal Brain Injury. *J Perinatol* 2001; 21 (1): 44-60.
50. Barnes PD. Editorial reply: CT findings in hyperacute nonaccidental brain injury. *Pediatr Radiol* 2001; 31 (9): B 673-674.
55. Barnes PD. Ethical issues in imaging nonaccidental injury: child abuse. *Top Magn Reson Imaging* 2002; 13: 85-93.
57. Miller M, Leestma J, Barnes P, Carlstrom T, Gardner H, Plunkett J, Stephenson J, Thibault K, Uscinski R, Niedermier J, Galaznik. A sojourn in the abyss: hypothesis, theory, and established truth in infant head injury. *Pediatrics*. 2004;114(1):326.
58. Barnes, P. Child Abuse: Cerebral Trauma. In: Reid, J, ed. Pediatric Radiology Curriculum [Internet]. Cleveland, OH: Cleveland Clinic Center for Online Medical Education and Training; 2005. Available from: <https://www.cchs.net/pediatricradiology>. System Requirements: login required; access is free.
64. Barnes PD, Krasnokutsky M. Imaging of the Central Nervous System in Suspected or Alleged Nonaccidental Injury, including the Mimics. *Top Magn Reson Imaging* 2007; 18:53-74.
66. Barnes P. Neuroimaging in the Evaluation of Pattern and Timing of Fetal and Neonatal Brain Abnormalities. In Stevenson D, Benitz W, Sunshine P (eds), *Fetal and Neonatal Brain Injury*, Cambridge University Press, New York, NY, 4th edition, June 2009.
70. Keller KA, Barnes PD. Rickets vs. Abuse – The Evidence: Reply to Editorial Commentaries. *Pediatr Radiol* 2009;39:1130.
72. Circular Reasoning. Squier W, Mack J, Lantz PE, Barnes PD, Scheimberg I, Eastman JT, Cohen M, Stephens PJ, Mileusnic-Polchan D. *Minn Med*. 2010 Mar;93(3):8.
- 73 Ayoub D, Plunkett J, Keller KA, Barnes PD. Are Paterson’s critics too biased to recognize rickets? *Acta Paediatr*. 2010 Sep;99(9):1282-1283.
74. Barnes P, Galaznik J, Gardner H, Shuman M. Infant acute life-threatening event – dysphagic choking versus nonaccidental injury. Reply (Semin *Pediatr Neurol* 2010;17:279-280) to Commentary (275-278).
75. Findley, Keith A., **Barnes, Patrick David**, Moran, David A. and Squier, Waney, Shaken Baby Syndrome, Abusive Head Trauma, and Actual Innocence: Getting It Right (April 30, 2012). *Houston Journal of Health Law and Policy*, Forthcoming; Univ. of Wisconsin Legal Studies Research Paper No. 1195. Available at SSRN: <http://ssrn.com/abstract=2048374>.
76. Findley KA, Guthkelch AN, **Barnes PD**, Moran DA, Squier W. Admissibility of shaken baby syndrome/abusive head trauma evidence. *Pediatr Radiol*. 2013 Jul;43(7):890.

Other Educational Materials:

56. Website: Tutorial in Pediatric Neuroradiology (Brain, Spine, Head & Neck, Fetal-Neonatal); Child Abuse & the Mimics 2009/2010 <http://www.stanford.edu/~pbarnes/>.

Awards and Honors (18):

1995 Derek Harwood-Nash Outstanding Pediatric Neuroradiology Paper: Tzika AA, Barnes PD (mentor), Tarbell NJ, Nelson SJ, Scott RM. "Multivoxel proton spectroscopy of childhood brain tumors", presentation at ASNR 33rd Annual Meeting, Chicago, IL.

1996 Spirit Award, Children's Hospital, Boston, MA.

1996 Honorary Member, Australasian Society of Pediatric Imaging

1997 Kirkpatrick Young Investigator Award: Alberico RA, Barnes PD (mentor), Robertson RL, Burrows PE. "Dynamic cerebrovascular imaging in pediatric patients with use of helical CT angiography", paper presentation at the Society for Pediatric Radiology 40th Annual Meeting, St. Louis, MO.

1997 Cum Laude Citation (Scientific Exhibit): Levine D, Barnes PD (mentor), Madsen JR, Hulka CA, Li W, Edelman RR. "HASTE MR imaging improves sonographic diagnosis of fetal central nervous system anomalies", scientific exhibit and paper presentation at Radiological Society of North America 83rd Scientific Assembly and Annual Meeting, Chicago, IL.

1996 John A. Kirkpatrick Jr. Teaching Award, Pediatric Radiology Fellowship Program, Department of Radiology, Children's Hospital and Harvard Medical School, Boston, MA.

1996 Derek Harwood-Nash for Outstanding Pediatric Neuroradiology Paper: Robertson RL, Ben-Sira L, Schlaug G, Maier SE, Mulkern RV, Duplessis A, Barnes PD (mentor), Robson CD. Line scan diffusion imaging of the brain in neonatal cerebral infarction, paper presented at the ASNR/ASPNR Annual Meeting, San Diego, CA.

2000 Medical Intelligence Corporation Scientific Achievement Award for Outstanding Contributions to Neuroimaging in Enhancing Understanding of Timing of Fetal Injury, Las Vegas, Nevada, October 19, 2000.

2000 Outstanding Head & Neck Radiology Paper: Robson CD, Mulliken JB, Robertson RL, Proctor MR, Barnes PD (mentor). Prominent basal emissary foramina in syndromic craniosynostosis – correlation with phenotype and molecular diagnosis, paper presented at the ASNR/ASPNR/ASHNR Annual Meeting, Atlanta, GA, May 2000.

2001 Award of Appreciation for Service & Leadership as Past President 1998-1999, The American Society of Pediatric Neuroradiology, American Society of Neuroradiology 39th Annual Meeting, Boston, MA, April 23, 2001.

2003 Stanford B. Rossiter Senior Faculty of the Year 2002-2003. Outstanding Contributions to Resident Education, Compassionate Patient Care, and Research, Department of Radiology, Stanford University Medical Center.

2005 Senior Faculty of the Year 2004-2005. Outstanding Contributions to Resident Education, Compassionate Patient Care, and Research, Department of Radiology, Stanford University Medical Center.

2006 Senior Faculty of the Year 2005-2006. Outstanding Contributions to Resident Education, Compassionate Patient Care, and Research, Department of Radiology, Stanford University Medical Center.

2008 The Herman Grossman Lecturer, Department of Radiology, Duke University Medical Center, In Appreciation for Your Contributions to Pediatric Radiology and the Eleventh Annual Herman Grossman Lecturer, April 10, 2008.

2010 Caffey Award Scientific Paper. Bammer R, Holdsworth S, Skare S, Yeom K, Barnes P. Clinical evaluation of readout-segmented-EPI for diffusion-weighted imaging. Scientific Paper Presentation Society for Pediatric Radiology Annual Meeting, Boston MA April 2010.

2010 Caffey Award Scientific Paper. Skare S, Holdsworth S, Yeom K, Barnes P, Bammer R. High-resolution motion-corrected diffusion-tensor imaging (DTI) in infants. Scientific Paper Presentation Society for Pediatric Radiology Annual Meeting, Boston MA April 2010.

2010 Caffey Award Scientific Paper. Bammer R, Holdsworth S, Skare S, Yeom K, Barnes P. 3D SAP-EPI in motion-corrected fast susceptibility weighted imaging (SWI). Scientific Paper Presentation Society for Pediatric Radiology Annual Meeting, Boston MA April 2010.

2010 Caffey Award Scientific Paper. Bammer R, Holdsworth S, Skare S, Yeom K, Barnes P. T1-weighted 3D SAP-EPI for use in pediatric imaging. Scientific Paper Presentation Society for Pediatric Radiology Annual Meeting, Boston MA April 2010.

2013-2016 [An America's Top Doctor](#) - US News & World Report (Top 1% of Neuroradiologists in the nation for 5 years, Castle Connolly Medical Ltd.) <health.usnews.com/top-doctors>.

Interviews / Videos / Editorial Criticisms:

Interview - Dr. Patrick Barnes | The Child Cases | FRONTLINE | PBS
<https://www.pbs.org/wgbh/pages/frontline/the-child-cases/.../patrick-barnes.html>

The Syndrome: Dr. John Plunkett, Dr. Ronald Uscinski, Dr. Patrick ...
<https://www.amazon.com/Syndrome-Dr-John-Plunkett/dp/B01E68RHNO>

The Agonizing, Complicated, Lingering Questions of Shaken Baby ...
archive.boston.com › Your Life › Family

The Nanny Murder Trial | Retro Report | The New York Times
Youtube (https://www.youtube.com/watch?v=1b_KJ9sGe4g).

Strouse PJ. 'Keller & Barnes' after 5 years – *still* inadmissible as evidence. *Pediatr Radiol* 2013;43(11):1424. DOI 10.1007/s00247-013-2810-2.

Strouse PJ. Child abuse: we have problems. *Pediatr Radiol* 2016;46(5):587-590.
DOI 10.1007/s00247-016-3551-9.

Strouse PJ. Shaken baby syndrome is real. *Pediatr Radiol* 2018;48:1043-1047. doi: 10.1007/s00247-018-4158-0.