

Jeffrey H Miller M.D.

Office:

Phoenix Children's Hospital, 1919 E Thomas Rd., Phoenix, AZ 85016
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Employment/Education

Pediatric Neuroradiologist
Department of Radiology
Phoenix Children's Hospital
Phoenix, AZ July 2008–current

Diagnostic Neuroradiology Fellowship
Washington University School of Medicine
Mallinckrodt Institute of Radiology
Saint Louis, MO July 2007 – July 2008

Diagnostic Radiology Residency
St. Louis University School of Medicine
St. Louis, Missouri July 2003– July 2007

Preliminary Medicine Internship
St. Luke's Hospital
Chesterfield, Missouri June 2002 – June 2003

Research Associate – Biomedical MR Lab
Washington University School of Medicine
Mallinckrodt Institute of Radiology
Saint Louis, MO September 2001 – June 2002

Semmelweis Medical University
Budapest, Hungary August 1995 – September 2001
Medical Doctorate August 2001 **summa cum laude**

San Diego State University
San Diego, CA
Bachelor of Science BIOLOGY May 1995

Research Assistant
Amylin Pharmaceuticals – Molecular Pharmacology Department
San Diego, CA June 1994–May 1995

Board Certification

American Board of Radiology–Diagnostic Radiology
November 2008–2018

State Licenses

Arizona Medical Board # 38193 Active (expires 5/15/2011)
Maryland Board of Physicians #D67341 Active (expires 9/30/2009)

Professional Affiliations

Radiological Society of North America
American College of Radiology
American Society of Neuroradiology

Publications

Miller JH, Walkiewicz T, Towbin RT, Curran JG. Improved Delineation of Ventricular Shunt Catheters Using Steady State Gradient Echo Sequences in a Rapid Non-Sedated Pediatric Brain MRI Protocol. *AJNR* (in press)

Miller JH, Limbrick D, Callen M, Smyth M. Spontaneous Resolution of Chiari Type I in Monozygotic Twins. Report of 2 Cases, *JNS Pediatrics* Nov 2008 Vol 2 (5)

Mazumdar A, Mukherjee P, **Miller JH**, Malde H, McKinstry RC. Diffusion-Weighted Imaging of Acute Corticospinal Tract Injury Preceding Wallerian Degeneration in the Maturing Human Brain. *AJNR* 2003 24: 1057–1066.

Miller JH, McKinstry RC, Mukherjee P, Philip J and Neil JJ. Pictorial Essay: Diffusion Tensor Imaging of Normal Brain Maturation. A Guide to Structural Development and Myelination. *AJR* March 2003: 851–859.

Miller JH and Mukherjee P. Evaluating Brain Maturation with Diffusion Tensor Imaging. *Medical Imaging International*. May–June 2002: Vol. 12: No.3

Mukherjee P, **Miller JH**, Shimony JS, Philip JV, Snyder AZ, Neil JJ, McKinstry RC. Diffusion–Tensor MR Imaging of Gray Matter and White Matter Development during Normal Human Brain Maturation. *AJNR* 2002 23: 1445–1456

McKinstry RC, **Miller JH**, Snyder AZ, Schefft GL, Mathur A, Neil JJ. A Prospective Longitudinal Diffusion Tensor Imaging Study of Brain Injury in Newborns. *Neurology* 2002; 59: 824–834.

McKinstry RC, Mathur A, **Miller JH**, Ozcan I, Snyder AZ, Schefft GL, Almlı CR, Conturo TE, Neil JJ. Water Diffusion Anisotropy: A Non–invasive Probe of Pre–term Human Cortical Development. *Cerebral Cortex* 2002; 12: 1237–1243.

Mukherjee P, **Miller JH**, Shimony JS, Conturo TE, Lee BCP, Almlı CR, McKinstry RC. Normal brain maturation during childhood: developmental trends characterized with diffusion–tensor MR imaging. *Radiology* 2001; 221: 349–358.

Neil JJ, **Miller JH**, Mukherjee P, Huppi PS. Diffusion Tensor MR Imaging of Normal and Injured Developing Human Brain – A Technical Review. *NMR in Biomedicine* 2002: Vol. 15 Issue 7–8: 543–552

Miller JH, Walkiewicz T, Curran JG, Towbin T. Improved Delineation of Shunt Catheter on GRE Sequences of Rapid Non–Sedated Pediatric Brain MRI Protocol. (Abstract), *Proceedings of the 52nd Annual Meeting of the Society of Pediatric Radiology*, Carlsbad, CA, 2009

Mukherjee P, **Miller JH**, Shimony JS, Philip JV, Snyder AZ, Neil JJ, McKinstry RC. Diffusion–Tensor MR Imaging of Gray Matter and White Matter Development during Normal Human Brain Maturation. (Abstract), *Proceedings of the 40th Annual Meeting of the American Society of Neuroradiology*, Vancouver, BC, 2002.

Miller JH, Mukherjee P, Philip JV, Lee BCP, Neil JJ, McKinstry RC. Diffusion Tensor MR Imaging of Normal Brain Maturation: A Pictorial Essay (Abstract), *Proceedings of the 87th Scientific Assembly and General Meeting of the Radiological Society of North America*, Chicago, IL: Radiological Society of North America, 2001.

Miller JH, McKinstry RC, Mathur A, Snyder A, Park TS, Neil JJ. Temporal Evolution of Brain Injury in Term Newborns Characterized by Diffusion Tensor Imaging (Abstract), *AANS Section on Pediatric Neurological Surgery Annual Meeting*, New York, NY 2001.

Mukherjee P, **Miller JH**, Shimony JS, Conturo TE, Lee BCP, McKinstry RC. Diffusion Tensor MR Imaging of Normal Brain Maturation in Infants and Children. *Proceedings of the Eighth Meeting of the International Society for Magnetic Resonance in Medicine*. Denver, CO: International Society for Magnetic Resonance in Medicine, 2000.

Honors/Awards

- ASPNR Pediatric Neuroradiology Research Grant Award 2007
- RSNA Resident Research Grant Award 2005
- Commencement Speaker – Semmelweis Medical University Graduation:
 - September 2001 Budapest, Hungary
 - Summa Cum Laude –Semmelweis Medical University Class of 2001
- Manuscript Reviewer: Pediatric Radiology (journal)