

Mulvihill CV

CURRICULUM VITAE

NAME: Denise Mary Mulvihill, M.D.

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EDUCATION:

1965	Manhattanville College Purchase, New York	B.S.
1971	Medical College Of Pennsylvania Philadelphia, Pennsylvania	M.D. (Cum Laude)
1971 - 1972	Presbyterian - University Hospital Pittsburgh, Pennsylvania	Internship - Internal Medicine
1972 - 1975	Peter Bent Brigham Hospital Boston, Massachusetts	Radiology Resident
1975 - 1976	Children's Hospital Medical Center Boston, Massachusetts	Pediatric Radiology Fellow

SPECIALTY CERTIFICATION:

1972	National Board of Medical Examiners
1975	American Board of Radiology
1991	SPEX

LICENSURE:

1975	Arizona
1983	Louisiana
1989	North Carolina
1991	South Carolina - current

FACULTY APPOINTMENTS:

1976 - 1980	Maricopa Medical Center Phoenix, Arizona	Chief, Pediatric Radiology
1979 - 1980	Arizona Crippled Children's Hospital Phoenix, Arizona	Associate Radiologist

Mulvihill CV 1980 - 1980	Consultant, Pediatric Radiology	Phoenix Indian Hospital
1980 - 1981	Fairbanks Hospital Fairbanks, Alaska	Consulting Radiologist
1981 - 1983	Maricopa Medical Center Phoenix, Arizona	Chief, Pediatric Radiology
1983 - 1989	Tulane Medical Center New Orleans, Louisiana	Chief, Pediatric Radiology
1989 - 1991	Duke University Medical Center Durham, North Carolina	Assistant Professor Radiology
1992 - Present	Medical University of South Carolina Charleston, South Carolina	Assistant Professor Radiology

AWARDS AND HONORS:

1971 Alpha Omega Alpha - Honor Medical Society

PROFESSIONAL/SCIENTIFIC SOCIETIES:

National:

American College of Radiology
Radiological Society of North America
American Institute of Ultrasound in Medicine

Local:

Southern Pediatric Radiology Society

National Societies:

American Academy of Pediatrics - Consulting editor for radiology. American Academy of Pediatrics, PREP curriculum.

Research interests:

March of Dimes: Neurological assessment of infants with brain injury from chorioamnionitis, 20% co- investigator; perform and interrupt MR spectroscopy and Diffusion Tensor Imaging in all patients enrolled in grant.

NIH [NINDS] : Safety of N-acetylcysteine in maternal chorioamnionitis to prevent neonatal brain injury inflammation. 20% co-investigator; perform and interrupt MR spectroscopy , Diffusion Tensor Imaging, Doppler cerebral blood flow and Near Infrared Spectroscopy in all patients enrolled in grant.

1. Anthony Hlavacek, MD assistant professor, pediatric cardiology; MUSC

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Multidisciplinary Clinical and Translational Research Scholar: co-mentor 10%; instruct in methods of brain imaging for outcome assessment including MR spectroscopy, diffusion tensor imaging, Doppler cerebral blood flow and near infrared spectroscopy

Intramural Score grant: Gender difference in cerebral blood flow and neurodevelopmental outcome following chorioamnionitis in infants greater than 37 weeks gestation: 10% co-investigator and mentor for neonatology fellow. perform and interrupt all Doppler cerebral blood flow in patients enrolled in grant.

INVITED LECTURES and PRESENTATIONS:

1. Farris KB, Davis H, **Mulvihill DM**, Campeau RJ, Shane S, Daum R. Experimental osteomyelitis in chickens that does not require manipulation of the bone. American Society of Clinical Pathologists, Fall Meeting, Orlando, Florida, October, 1986.
2. **Mulvihill DM**. Radiological evaluation of interstitial lung disease in children. NIH Workshop, Washington, DC, July, 1988.
3. Mercado MG, **Mulvihill DM**. Polycystic kidney disease associated with multiple malformation syndromes. Southern Medical Society, New Orleans, Louisiana, November, 1988.
4. Murayama SM, Robinson AE, **Mulvihill DM**, Stallworth J, Beckerman R, Davis S. MR evaluation of pancreas and hepatobiliary systems in cystic fibrosis. RSNA 74th Scientific Assembly and Annual Meeting, Chicago, Illinois, December, 1988.
5. **Mulvihill DM**. Neonatal Cranial Ultrasound. Duke Resident Review Course, Durham, NC, May 1991.
6. **Mulvihill DM**. Lung surfactant: too much and too little. Radiology Update, June, 1993.
7. Katikaneni LS, **Mulvihill DM**, Macias M, Shattuck T, Hulsey TC, Purohit DM. Neurodevelopmental outcome in neonatal ECMO and near ECMO survivors at 2 1/2 age. 11th Annual CNMC ECMO and Advanced Therapies for Respiratory Failure Symposium, Keystone, CO, February 28, 1995.
8. Katikaneni LS, Macias M, **Mulvihill DM**, Hulsey TC. Predictors of neurodevelopmental outcome in neonatal extracorporeal membrane oxygenation [ECMO] and near ECMO survivors at 2? - 6 years of age. AACPDM Scientific Program, 1996.
9. **Mulvihill DM**. Pediatric abdominal ultrasonography. Radiology 2000, Kiawah Island, SC, June 12, 1997.

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10. **Mulvihill DM.** Malignancy developing in cystic pulmonary lesions. Southern Pediatric Radiology Society, November 18, 1997.
11. Bradley SM, Simsic JM, **Mulvihill DM.** Hyperventilation in BSCC. American Thoracic Society Meeting, New Orleans, LA, May, 1998.
12. Bradley SM, Simsic JM, **Mulvihill DM.** Hypoventilation improves oxygenation after bi-directional superior cavopulmonary connection. American College of Cardiology 49th Annual Scientific Session, Anaheim, CA, March, 2000.
13. Cahill JB, Simsic JM, **Mulvihill DM,** Purohit DM, Wagner CL, Southgate WM, Katikaneni LK, Eicher DJ, Stroud MR. Cerebral oximetry as a non-invasive indicator of mixed venous oxygen saturations in a newborn on ECMO. Presented at 13th Annual ELSO Conference, Scottsdale, AZ, September 28, 2002.
14. Cahill JB, Simsic JM, **Mulvihill DM,** Purohit DM, Wagner CL, Southgate WM, Katikaneni LK, Eicher DJ, Stroud MR. Cerebral oximetry as a non-invasive indicator of mixed venous oxygen saturations in a newborn on ECMO. Presented at 13th Annual ELSO Conference, Scottsdale, Arizona, September 28, 2002.
15. **Mulvihill, DM,** Cahill JB, Eicher DJ. “Biphasic Cerebral Blood Flow Velocity Patterns in Neonatal Asphyxia,” presented at the WFUMB/AIUM 2003 Precongress & Congress Meeting, Montreal, CANADA, May 31 – Jun 4, 2003.
16. Ellis A, Bradley S, **Mulvihill D,** Shirali G, Hlavacek A. “Usefulness of CT Angiography in the Preoperative Evaluation of Children with Congenital Heart Disease. Presented at the 10th Annual Update on Pediatric Cardiovascular Disease, Orlando, FL; February 2007.
17. Hlavacek A, Gonzalez J, Shirali G, **Mulvihill D.** “Multidetector Computed Tomographic Angiography Results in a Lower Radiation Dose Than Diagnostic Catheterization in Pediatric Patients.” Presented at the Annual Scientific Session of the American College of Cardiology, New Orleans, LA; March 2007.
18. Hlavacek A, Gonzalez J, Shirali G, **Mulvihill D.** “Multidetector Computed Tomographic Angiography Results in a Lower Radiation Dose Than Diagnostic Catheterization in Pediatric Patients.” Presented at the Charleston Symposium on Congenital Heart Disease, Charleston, SC. May 4, 2007 .

BIBLIOGRAPHY:

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Peer Reviewed Journals:

1. **Mulvihill DM.** Radiographic evaluation of the spine after surgical correction of scoliosis. *AJR* 1979; 133:703-9.
2. **Mulvihill DM.** Ultrasound findings of chronic intussusception in a patient with cystic fibrosis. *J Ultrasound in Med* 1988;7:353-3.
3. Murayama S, **Mulvihill DM**, Robinson AE, Davis S, Beckerman R. MR evaluation of pancreas and hepatobiliary systems in cystic fibrosis. *Invest Radiol* 1988;23:9.
4. Sood SK, **Mulvihill DM**, Daum RS. Intra renal abscess caused by Klebsiella pneumoniae in a neonate: modern management and diagnosis. *Am J Perinatol* 1989;6:367-70.
5. Bokulic RE, Beckerman RC, **Mulvihill DM.** Radiological case of the month: hypertrophic osteoarthropathy in a patient with cystic fibrosis. *AJDC* 1989;143:747-48.
6. **Mulvihill DM**, Mercado MG, Boineau F. Beckwith-Wiedemann syndrome and its association with polycystic kidney disease. *Pediatr Neph* 1989; 3:286-289.
7. Rizzo AJ, Haller JO, **Mulvihill DM**, Cohen HL, Da Silva MG. Calcification of the ductus venosus: A cause of right upper quadrant calcification in the newborn. 1989 Oct; *Rad* 173[1]: 89-90.
8. Murayama S, Robinson AE, **Mulvihill DM**, Goyco PG, Beckerman RC, Hines MR, Stallworth JM. MR Imaging of pancreas in cystic fibrosis. *Pediatr Radiol* 1990; 20:536-539.
9. Fisher M, Roggli V, Merten D, **Mulvihill DM**, Spock A. Coexisting endogenous lipoid pneumonia, pulmonary alveolar proteinosis, and pulmonary interstitial cholesterol granulomas in a pediatric population: a clinical, radiographic, and pathologic correlation. *Ped Path*, 1992;May-June 12[3]:365-83.
10. Edell DS, Davidson JJ, **Mulvihill DM**, Majure M. A common presentation of an uncommon case of neonatal respiratory distress: pneumonia alba. 1993 Jun; *Ped Pul* 15[6]: 376-9.
11. **Mulvihill DM**, Munden MM, Edell D: CT appearance of lymphoproliferative disorder involving the liver following transplantation. 1994 Jan-Feb; *J CAT* 18[1]: 47-8.

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12. Munden M, McEniff N, **Mulvihill DM**, Investigation of female infants with inguinal masses. Clin Rad 1995 Oct.; 50:696-698.
13. Cure J, Tagge EP, Richardson M, **Mulvihill DM**: MR of cystic aberrant cervical thymus. 1995 May: AJNR 6[5]: 1124-7.
14. Feldman D, Curry NS, **Mulvihill DM**, Gelien P. Roentgenologic, clinical, pathologic case - painless scrotal mass in a child. Academic Radiology, 1995;2[3]:260-2.
15. Tagge EP, **Mulvihill DM**, Chandler JC, Richardson M, Uflacker R, Othersen HB. Childhood pleuropulmonary blastoma: caution against nonoperative management of congenital lung cysts. J Ped Surg, 1996; 31#1:187-190.
16. Bradley SM, Sinsic JM, **Mulvihill DM**: Hyperventilation impairs oxygenation after bi-directional superior cavopulmonary connection. Circulation 1998 Nov 98[19 suppl];11:372-377.
17. Cahill JB, Eicher DJ, Springer SC, Hulsey TC, Wagner CL, Katikaneni LP, **Mulvihill DM**. Cerebral blood flow velocity in neonates with hypoxic ischemic encephalopathy [HIE] treated with hypothermia. Pediatric Research 49[4]:394A, 2001.
18. Hill JG, Samei E, Southgate WM, Frey GD, Bloodworth G, Mah E, DeLong D, Annibale D, Eicher DJ, Keslar P, **Mulvihill DM**. Clinical evaluation of a solid-state radiographic system for neonatal applications. Pediatric Research 49[4]: 357 A, 2001.
19. Sinsic JM, Bradley SM, **Mulvihill DM**. Hemodynamic effects of sodium nitroprusside after superior cavopulmonary connection. Journal of the Am Coll of Cardiology 2002; 39 [5]: A 406.
20. Bradley SM, Sinsic JM, **Mulvihill DM**: Hypoventilation Improves Oxygenation After Bidirectional Superior Cavopulmonary Connection, J Thorac Cardiovasc Surg. In Press.
21. Sinsic JM, Bradley SM, **Mulvihill DM**: Sodium Nitroprusside Infusion after Bidirectional Superior Cavopulmonary Connection: Preserved Cerebral Blood Flow Velocity and Systemic Oxygenation. J Thorac Cardiovasc Surg. In Press.
22. Williams B, **Mulvihill DM**, Pettus BJ et al. Pediatric superior vena cava syndrome: assessment at low radiation dose 64-slice CT angiography. J Thorac Imaging 20[1] Mar. 2006.
22. Herzog C. **Mulvihill D**, Nguyen S, et al: Pediatric cardiovascular CT angiography: Radiation dose reduction using automatic anatomic tube current modulation. AJR.

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2008, 190:1-9.

Non Peer Reviewed Journals:

1. **Mulvihill DM.** The Doppler sonogram. *Current Opinions in Urology* 1991; 1:118-120.
2. Hill JG, **Mulvihill DM**, Pediatric Imaging in 1990's. *J of SC Med Ass.* 1997 Aug; 93[8]: 313-9.

CHAPTERS:

1. Sook SK, **Mulvihill DM**, Daum RS. Renal abscess. in: Feigin and Cherry, eds. Textbook of pediatric infectious disease. Philadelphia: WB Saunders, 1987:536-43.
2. **Mulvihill DM.** Diagnostic imaging techniques in pediatric pulmonary diseases. In: Hilman BC, ed. Pediatric respiratory diseases: diagnosis and treatment. Philadelphia: WB Saunders, 1993:73-89.
3. Eicher DJ, and **Mulvihill DM.** Injury to the preterm Brain. In Current Management in Child Neurology, 3rd edition, Bernard Maria, ed., BC Decker, Inc. 2005:535-540.
4. Hlavacek A, **Mulvihill D.** "CT Angiography with Three-Dimensional Reconstruction in Patients with Congenital Heart Disease." Clinical Case Studies in the Third Dimension Vol 2. TeraRecon, Inc 2006.

POSTERS:

2. Fisher M, Roggli V, **Mulvihill D**, Merten D, Spock A. Coexisting endogenous lipid pneumonia, pulmonary alveolar proteinosis, and pulmonary interstitial cholesterol granulomas in a pediatric population: a clinical, radiographic, and pathologic correlation. United States and Canadian Society of Pathologists Annual Meeting Chicago, Illinois, March 1991.
3. Hill JG, **Mulvihill DM.** Complications of umbilical venous placement. Society for Pediatric Radiology, Tucson, AZ May, 1997.
4. Springer SC, **Mulvihill DM**, Hulsey TC, McPherson RJ, Eicher DJ, Annibale DJ. Use of peak flow velocity measurements of the splanchnic circulation to identify benign feeding intolerance. Poster Presentation at the Society for Pediatric Research, Baltimore, May, 2000.
5. Springer SC, Hulsey TC, **Mulvihill DM**, Katikaneni LP. Does indomethacin

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prophylaxis for intraventricular hemorrhage increase the risk on non-hemorrhagic periventricular leukomalacia in premature infants? Pediatric Academic Societies and American Academy of Pediatrics Joint Meeting, Baltimore, MD, May, 2000.

6. John Cahill, **Mulvihill DM**, Neonatal Hypoxic Ischemic Encephalopathy: Can Cerebral Blood Flow Velocity in The First 12 Hours Predict Survival and Outcome? Pediatric Academic Societies' Annual Meeting, Seattle, Washington May 6, 2003 (Poster Presentation).
- 6 . **Mulvihill, D.** Lee, K. Eicher, D. Cerebral blood flow in hypoxic-ischemic injury patients after hypothermia treatment, Hot Topics in Neonatology – Washington DC, December, 2005, poster presentation