

**Phoenix Children's Hospital
Curriculum Vitae**

NAME: Craig E. Barnes, M.D.

CURRENT JOB TITLE: Pediatric Radiologist – Body Imaging Section

CURRENT ADMIN. TITLE: Diagnostic QA Radiologist Point Person
Program Director of Pediatric Radiology Fellowship

ADDRESS:

Business: Department of Radiology
Phoenix Children's Hospital
1919 E. Thomas Road
Phoenix, Arizona 85016
Telephone: 602-546-1207
E-mail: cbarnes1@phoenixchildrens.com

EDUCATION:

	Air Force Radiology Technician Training Program Phase I – Sheppard Air Force Base, Texas Phase II – Travis Air Force Base, California Phase III – Vandenberg Air Force Base, California	1975-1977
College:	Allan Hancock Junior College Santa Maria, California A.A. - Liberal Arts	1977-1979
	University of Washington Seattle, Washington B.A. – Zoology	1979-1982
	Teaching Assistant	1981-1982
Honors and Awards:	Cum Laude, University of Washington	1982
Medical School:	Medical College of Virginia Richmond, Virginia M. D.	1983-1987 8/1984 to 5/1987
	Curriculum Representative	1984-1987
Honors and Awards:	Carnation Scholarship	1984
	Air Force Health Professional Scholarship Program	1984-1987
	Merck Award	1985
	Sidney B. Barham Scholarship	1986
	Alpha Omega Alpha	1986
	Elected as Junior	
	Alumni Memorial Student Award	1987
	Alpha Sigma Chi	1987
	Honorary Leadership Society	
	Phi Kappa Phi	1987
	Honor Society	

POSTDOCTORAL TRAINING:

Internship and Residency:	Diagnostic Radiology Wake Forest University School of Medicine North Carolina Baptist Hospital Winston-Salem, North Carolina	1987-1991 7/1987 to 6/1991
Fellowship:	Pediatric Radiology Wake Forest University School of Medicine North Carolina Baptist Hospital Winston-Salem, North Carolina	1991-1992 7/1991 to 6/1992

UNIFORMED SERVICE:

United States Air Force Radiology Technologist, Sgt. Air Force Good Conduct Medal Reserves, 2 nd Lt. Radiologist, Major	1975-1979 1978 1984-1987 7/1992 to 7/1995
Honorable Discharge	1979, 1995

PROFESSIONAL LICENSURE:

Texas (#J7901) Inactive	1995
North Carolina (#33608)	2001
Arizona	2008

SPECIALTY CERTIFICATION:

National Board of Medical Examiner – Diplomate	1988
American Registry of Radiologic Technologist	1978
American Board of Radiology – Diagnostic Radiology	1991
American Board of Radiology – Certificate of Added Qualification in Pediatric Radiology	2001

EMPLOYMENT:

Academic Experience:	Associate Professor of Radiology Pediatric Imaging Section Department of Radiology Wake Forest University School of Medicine Winston-Salem, North Carolina	7/2005 to 11/2008
	Section Head – Pediatric Radiology Department of Radiology Wake Forest University School of Medicine Winston-Salem, North Carolina	2002-2007

EMPLOYMENT (continued):

Academic Experience:

Assistant Professor of Radiology Pediatric and Abdominal Imaging Sections Department of Radiology Wake Forest University School of Medicine Winston-Salem, North Carolina	6/2001 to 7/2005
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Professional Experience:

Pediatric Radiologist, Body Imaging Section Radiologist in Charge of Diagnostic QA Musculoskeletal Imaging Point Person Phoenix Children's Hospital Phoenix, Arizona	12/2008 to Present
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Radiologist, Radiologic Consultants of North Dallas Director of Pediatric Imaging Partner, Radiologic Consultants of North Dallas Chief of Body CT at MCD Medical City Dallas Hospital Dallas, Texas	10/1997 to 5/2001 1997-2001 1999-2001 1999-2001
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Director of Pediatric Imaging Medical City Dallas with Texas Diagnostic Imaging Dallas, Texas	1995-1997 8/1995 to 9/1997
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Officer in Charge of Ultrasound Officer in Charge of Pediatric Radiology Keesler United States Air Force Medical Center Keesler AFB, Mississippi	1992-1995 1992-1995 7/1992 to 7/1995
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Radiologist Technologist Washington State	1980-1983
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OTHER PROFESSIONAL APPOINTMENTS AND INSTITUTIONAL SERVICE:

Adjunct Appointments:

Associate in Pediatrics Wake Forest University School of Medicine Winston-Salem, North Carolina	7/2001 to 11/2008
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Hospital Affiliations:

Wake Forest University Baptist Medical Center Winston-Salem, North Carolina	7/2001 to 11/2008
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OTHER PROFESSIONAL APPOINTMENTS AND INSTITUTIONAL SERVICE (continued):

Hospital, School, Medical Center Committees:

Pediatric Radiology Curriculum Coordinator Pediatric Residency Program Keesler Medical Center Keesler Air Force Base, Mississippi	1993-1995
Assistant Course Medical Director Radiologic Technologist Training Program Keesler Air Force Base, Mississippi	1993-1995
CME Committee Medical City Dallas Hospital Dallas, Texas	1996-2001
Emergency Room Liaison Medical City Dallas Hospital Dallas, Texas	1997-2001
Pediatric Executive Committee Medical City Dallas Hospital Dallas, Texas	1998-2001
Radiology Performance Improvement Committee Medical City Dallas Hospital Dallas, Texas	1998-2001
Equipment Purchase Committee Medical City Dallas Hospital Dallas, Texas	1999-2001
Fringe Benefits Committee Division of Radiologic Sciences Wake Forest University School of Medicine Winston-Salem, North Carolina	2001-2008
Resident Selection Committee Division of Radiologic Sciences Wake Forest University School of Medicine Winston-Salem, North Carolina	2001-2008
Pediatric Service Line Committee Wake Forest University Baptist Medical Center Winston-Salem, North Carolina	12/2002

OTHER PROFESSIONAL APPOINTMENTS AND INSTITUTIONAL SERVICE (continued):

Hospital, School, Medical Center Committees:

Abdominal CT and MRI Protocol Committee Division of Radiologic Sciences Wake Forest University School of Medicine Winston-Salem, North Carolina	2002-2008
Assistant Director of Radiology Residency Program Division of Radiologic Sciences Wake Forest University School of Medicine Winston-Salem, North Carolina	2002-2005
Pediatric CT/MR Sedation Committee Wake Forest University Baptist Medical Center Winston-Salem, North Carolina	2003
Brenner Children's Hospital Health Services Steering Committee Wake Forest University Baptist Medical Center Winston-Salem, North Carolina	2003-2008
Brenner Children's Hospital Retreat Wake Forest University Baptist Medical Center Winston-Salem, North Carolina	2/21/2003
Recruitment Director Diagnostic Radiology Residency Program Wake Forest University School of Medicine Winston-Salem, North Carolina	2004-2008
Radiology Strategic Planning Meeting Division of Radiologic Sciences Wake Forest University School of Medicine Hawthorne Inn Winston-Salem, North Carolina	9/11/2004
Extended Hours Committee Division of Radiologic Sciences Wake Forest University School of Medicine Winston-Salem, North Carolina	2004-2008
Resident Call & Work Hours Committee Division of Radiologic Sciences Wake Forest University School of Medicine Winston-Salem, North Carolina	2005
Medical Director/Advisor Radiography Program Advisory Committee Forsyth Technical Community College (FTTC) Winston-Salem, North Carolina	6/2007-11/2008

PROFESSIONAL MEMBERSHIPS:

Alpha Omega Alpha	1986-Present
Vice-President Medical College of Virginia Chapter	1986-1987
Medical Student Selection at Wake Forest University School of Medicine	2002-2008
Medical College of Virginia Alumni Association	1987-Present
Mentor Program	2003-Present
Christian Medical Dental Society	1987-Present
Treasurer of MCV Chapter	1984-1985
Leadership Council, MCV	1984-1987
Host, Wake Forest University School of Medicine Chapter	12/2003, 8/2004
Radiologic Society of North America	1993-Present
Pediatrics Subcommittee of the Education Exhibits Committee (EEC)	2008-2010
Society of Pediatric Radiology	1992-Present
University-Based Pediatric Radiology Committee	2003-2008
American College of Radiology	1993-Present
North Carolina Chapter	2001
Southern Pediatric Radiology Society	1999-Present
Children's Oncology Group (Associate Member)	2003-Present
Responsible Investigator Wake Forest University School of Medicine	2003-2008

HONORS AND AWARDS:

Honor Graduate - Radiologic Technology Program	1976
United States Air Force Phase I	
Shephard Air Force Base, Texas	
Superior Performance on Written Boards by a Residency Group	1991
Wake Forest University Baptist Medical Center	
Winston-Salem, North Carolina	
Craigasaurus Teaching Award	1992
Wake Forest University Baptist Medical Center	
Winston-Salem, North Carolina	
Teaching Award – Pediatrics	1995
Keesler Medical Center	
Keesler Air Force Base, Mississippi	
Radiologist of the Year	1998
Medical City Dallas Hospital	
Dallas, Texas	

PROFESSIONAL INTERESTS:

Pediatric Musculoskeletal Imaging, Multi-detector CT application in pediatric patients.

Research in Involvement:

1. ACRIN (American College of Radiology Imaging Network) 6660 – A multi-institutional study assessing value of whole body fast MRI in pediatric oncology patients versus conventional imaging. Purpose is to assess MRI potential for metastatic screening. Enrollment of patients to begin Fall 2004. Named Principal Investigator at Wake Forest University School of Medicine, 11/2003. Till 2007.

BIBLIOGRAPHY:

Journal Articles:

1. Barnes CE: A tribute to a pioneer radiologist: Alfred Leftwich Gray, M.D., (1873 to 1932). *AJR Am J Roentgenol* 1988; 150:11-12.
2. Auringer ST, Barnes CE, Sumner TE, Preston AA. Practical MRI of pediatric musculoskeletal system. *Southern Orthopedic Journal* 1992; 1:265-274.
3. Barnes CE, Hawkins AD, Chen MY. Radiological Case of the Month: Presacral neuroblastoma in a healthy two-month old boy. *Applied Radiology* February 2004:38-41.
4. Bardin RL, Barnes CE, Stanton CA, Geisinger KR. Soft tissue amyloidoma of the extremities: a case report and review of the literature. *Arch Pathol Lab Med* 2004; 128:1270-1273.
5. Barnes CE, Clark DC, Chen MY, Elster AD. Visualization and Characterization of Normal Appendix on CT Colonography. *Computerized Medical Imaging and Graphics* 2004.
6. Caserta MP, Chen MYM, Barnes CE, Anthony EY. Adnexal pathology in the pediatric female pelvis. *Contemp Diagn Radiol* 2007; 30(17):1-5.
7. Hussain HM, Barnes CE. Pediatric skeletal trauma – plain film to MRI. *Appl Radiol*, August 2007:24-33.
8. Leyendecker JR, Barnes CE, Zagoria RJ. MR urography: techniques and clinical applications. *Radiographics* 2008; 28:23-48.

Abstracts/Scientific Exhibits:

1. Auringer ST, Barnes CE, Sumner TE, Preston AA. Practical MRI of pediatric musculoskeletal system. Scientific Exhibit at the 92nd Annual Meeting of the American Roentgen Ray Society. Orlando, Florida, May 10-15, 1992.
2. Clark DC, Barnes CE, Chen MY. Visualization and characterization of normal appendix on CT colonography. Scientific Exhibit presented at 88th Scientific Assembly in Annual Meeting of the Radiologic Society of North America, Chicago, Illinois, Dec. 1-6, 2002.
3. Barnes CE, Clark DC, Chen MY. Visualization and characterization of normal appendix on CT colonography. *AJR Am J Roentgenol* 2003; 180(3 Suppl):1.

BIBLIOGRAPHY (continued):
Abstracts/Scientific Exhibits:

4. McLaughlin CA, Chen MY, Dyer RB, Barnes CE, Specter BB, Zerlin JM, Zagoria RJ. Radiographic techniques and findings of diseases of the urachus. Presented by Dr. Chen at the 103rd Annual Meeting of the American Roentgen Ray Society, San Diego, California, May 4-9, 2003. Abstract: AJR Am J Roentgenol 2003; 180(3 Suppl):103.
5. Heilbrun ME, Barnes CE, Chen MY. Patterns of growth and associated abnormalities in the contralateral kidney of patients with unilateral multicystic dysplastic kidney. Presented by Dr. Heilbrun at the Society of Pediatric Radiology meeting, San Francisco, California, May 7-10, 2003. Abstract: Pediatr Radiol 2003; 33(Suppl 1):S107.
6. Heilbrun ME, Barnes CE, Chen MY. Patterns of growth and associated abnormalities in the contralateral kidney of patients with unilateral multicystic dysplastic kidney. Scientific exhibit presented at 99th Scientific Assembly and Annual Meeting of the Radiologic Society of North America, Chicago, Illinois, Nov. 30 – Dec. 5, 2003.
7. Lamke, GT, Chen MY, Barnes CE. Ewing's Sarcoma: Review of Imaging Findings. Electronic Exhibit at the American Roentgen Ray Society meeting, Miami, Fla, May 2-7, 2004. Abstract: AJR Am J Roentgenology 2004; 182(Suppl 4): 100.
8. Chen MY, McLaughlin C, Dyer RB, Barnes CE, Specter BB, Zagoria RJ. Radiographic findings of urachal remnant diseases. Poster presented at the ARC 2004 Abdominal Radiology Course held in conjunction with the 33rd Annual Meeting of the Society of Gastrointestinal Radiologists and the 29th Scientific Assembly of the Society of Uroradiology, Scottsdale, Arizona, March 7-12, 2004.
9. Bechtold RE, chen MY, Kavanagh PV, Zagoria RJ, Oliphant M, Weber TM, Dyer RB, Barnes CE. Diagnostic value of sagittal and coronal reformats in multidetector CT (MDCT) diagnosis of abdominal and pelvic disorders. Scientific exhibit presented at the 90th Scientific Assembly and Annual Meeting of the Radiological society of North America, Chicago, Illinois, November 28-December 3, 2004. Abstract: RSNA Scientific Program 2004:234.
10. Anthony EY, Pertile AA, Specter BB, Chen MY, Barnes CE. Utility and ease incorporating reformatted images into routine CT protocol. Scientific exhibit presented at the 48th Annual Meeting and Postgraduate Course of the Society of Pediatric Radiology, New Orleans, Louisiana, May 4-7, 2005. Abstract: Ped Radiol 2005; 35:S87.
11. Barnes CE, Milner LD, Lie-Nielsen ST, Chen MY, Anthony EY. Multidetector CT: should we consider a change in reading plane? Presented at the 48th Annual Meeting and Postgraduate Course of the Society of Pediatric Radiology, New Orleans, Louisiana, May 6, 2005. Abstract: Ped Radiol 2005; 35:S58.
12. Milner LD, Anthony EY, Chen M, Lie-Nielsen ST, Barnes CE. Multidetector chest CT: should we consider a change in reading planes? Scientific exhibit presented at the 105th Annual Meeting of the American Roentgen Ray Society, New Orleans, Louisiana, May 15-20, 2005. Abstract: AJR Am J Roentgenol 2005; 184S:129.

BIBLIOGRAPHY (continued):
Abstracts/Scientific Exhibits:

13. Lie-Nielsen ST, Anthony EY, Chen M, Milner LD, Barnes CE. Multidetector CT of the abdomen: should we consider a change in reading planes? Scientific exhibit presented at the 105th Annual Meeting of the American Roentgen Ray Society, New Orleans, Louisiana, May 15-20, 2005. Abstract: AJR Am J Roentgenol 2005; 184S:130.
14. Barnes CD, Wile GE, Anthony EY. Pediatric trauma and the emerging role of reformatted images. Exhibit presented at the Society of Pediatric Radiology Meeting, Montreal, Canada, May 16-20, 2006. Abstract: Pediatr Radiol 2006; 36 (Suppl 1):95.
15. Wile GE, Anthony EY, Barnes CE. The developing role for reformatted images in pediatric trauma. Exhibit presented at the Annual Meeting of the American Roentgen Ray Society, Vancouver, BC, May 1-5, 2006. Abstract: AJR Am J Roentgenol 2006; 186, (Suppl 4): A151.
16. Leyendecker JR, Barnes CE, Clark PB, Hodges S, Zagoria RJ. MR urography: techniques and clinical applications. Exhibit presented at the 92nd Annual Scientific Assembly and Meeting of the Radiological Society of North America, Chicago, Illinois, November 25-December 1, 2006.
17. Peacock AJ, Chen MYM, Barnes CE, Anthony, EY. Beyond Wilms tumor: clinical and imaging features for accurate preoperative differential diagnosis of pediatric renal neoplasms. Exhibit presented at the 92nd Annual Scientific Assembly and Meeting of the Radiological Society of North America, Chicago, Illinois, November 25-December 1, 2006.
18. Caserta MP, Anthony EY, Barnes CE, Chen MYM. Adnexal pathology in the pediatric female pelvis. Exhibit presented at the 92nd Annual Scientific Assembly and Meeting of the Radiological Society of North America, Chicago, Illinois, November 25-December 1, 2006.
19. Jackson JB, Webb L, Dedmond B, Pastrano JA, Barnes CE. Three-dimensional volume-rendered CT views for acetabular fractures: Can they replace plain films? Scientific paper presented at the 93rd Annual Scientific Assembly and Meeting of the Radiological Society of North America, Chicago, Illinois, November 26-30, 2007.
20. Pungler KW, Jackson B, Webb L, Barnes CE. Classification of acetabular fractures using plain film, computed tomography, and volume-rendered computed tomography imaging techniques. Electronic poster presented at the 93rd Annual Scientific Assembly and Meeting of the Radiological Society of North America, Chicago, Illinois, November 26-30, 2007.
21. Golding LP, Barnes CE, Anthony EY. A new mnemonic for anterior mediastinal lesions: a Kid-friendly approach. Electronic poster presented at 94th Annual Scientific Assembly and Meeting of the Radiological Society of North America, Chicago, Illinois, November 30 - December 5, 2008

RECURRENT TEACHING RESPONSIBILITIES (INTRAMURAL)

A. Medical Students

Lectures: at Wake Forest University School of Medicine

- 1) Phase III
 - a. Abdominal/Abdomen CT lectures 12/2001-6/2007
Lectures to 15-25, 3rd year medical students consisting of
1 ½ hours/session with 6 sessions/ year. 9 hours/year.
 - b. Pediatric Imaging cases and Quiz 7/2007-9/2008
1 ½ hours/session with 6 sessions/ year. 9 hours/year

Small Group: at Wake Forest University School of Medicine

- 1) Individual 4th year medical student rotations through pediatric and abdominal imaging. 40+ hours/ year. 6/2001-10/2008
- 2) Phase IA, small group – Case discussions – help guide discussions with basic science faculty. Six first year medical students participate in guided discussions. Approximately 46 contact hours/ year. 8/2004

Evaluator: at Wake Forest University School of Medicine

- 1) Evaluator for SPA (simulated patient assessments). 11/2004
6 hours/ year

B. Graduate Education

Lectures: at Wake Forest University School of Medicine

- 1) Pediatric Radiology Core Curriculum for Diagnostic Radiology Residents 6/2001-10/2008
 - Pediatric Skeletal Trauma Imaging – 1 hour/year
 - Pediatric ER Radiology – 1 hour/year
 - Optimizing Pediatric Body CT – 1 hour/2 years
 - Approach to Abdominal Masses in the Neonate – 1 hour/year
 - Approach to Abdominal Masses in Childhood – 1 hour/2 years
 - Pediatric Chest Imaging – 1 hour/2 years
 - Pediatric Bone Tumors and Infection – 2 hours/2 years
 - Pediatric Congenital Bone – 2 hours/2 years
 - Pediatric Developmental Bone – 2 hours/2 years
 - CT in Children: Why, When, What & Who – 1 hour/2 years
 - MDCT Evaluation of Pediatric Abdomen – 1 hour/2 years
 - Multimodality Renal Imaging in Children – 1 hour/2 years
 - Pediatric Sports Injury – Upper Extremity – 1 hour/2 years
 - Pediatric Sports Injury – Lower Extremity – 1 hour/2 years
 - Multimodality Renal imaging in the Pediatric Patient – 1 hour
- 7-10 hours/year of the 16 hours of annual Pediatric Radiology lectures for residents

RECURRENT TEACHING RESPONSIBILITIES (INTRAMURAL)

B. Graduate Education (continued)

Small Group: at Wake Forest University School of Medicine

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|----|---|-----------|
| 1) | Viewbox teaching sessions with residents on service on weekly basis – 40+ hours/year | 2001-2008 |
| 2) | Pediatric Radiology Section Conference with residents on service – approximately 8 hours/year | 2001-2008 |
| 3) | Pediatric Radiology Case Conference with entire radiology residency group – approximately 8 hours/year | 2001-2008 |
| 4) | Pediatric Residents can take electives spending half days with us for 2 weeks approximately 20-40 days/year | 2001-2008 |
| 5) | NICU Radiology Rounds with NICU attending and team 5 -10 times/month – approximately ½ hour/session | 2002-2008 |
| 6) | PICU Radiology Rounds with PICU attending and team 2-5 times/month – approximately ½ hour/session | 2003 |

Program director:

- | | | |
|----|--|---------------|
| 1) | Pediatric Imaging Section Head
Wake Forest University School of Medicine
Each resident spends 3 months within the Pediatric Radiology Section over a 4-year period. There are approximately 10 new residents/year with 2-3 residents on service at any given time. | 7/2002-2007 |
| 2) | Assistant Director of Radiology Residency Program
Wake Forest University School of Medicine
Help to oversee radiology residency program working closely with Dr. Rita Freimanis and Chief Residents. There are 40 radiology residents. Under my supervision Online Radiology lecture access was initiated in September 2003. | 1/2002-6/2005 |
| 3) | Pediatric Radiology Curriculum Coordinator
Keesler USAF Medical Center
Keesler AFB, Mississippi
Organized and implemented basic radiology training program for Pediatric residents at Keesler Medical Center | 1992-1995 |

Other:

- | | | |
|----|--|-----------|
| 1) | Tier II Pediatric Radiology call prep with Radiology residents
Wake Forest University School of Medicine
2 hours/year | 2003-2008 |
| 2) | Mock Board reviews for senior Radiology residents
Wake Forest University School of Medicine
Approximately 8 hours/year | 2002-2008 |

RECURRENT TEACHING RESPONSIBILITIES (INTRAMURAL)

B. Graduate Education

Other: (continued)

- | | |
|--|-----------|
| 3) Resident Supervisor during day to day clinical practice of Radiology. Supervise interpretation and performance of pediatric and abdominal imaging studies
Wake Forest University Baptist Medical Center
800+ hours/per year | 2001-2008 |
| 4) Advisor to Radiology Interest Group
Assist and advise medical students thinking of becoming Radiologist
Wake Forest University School of Medicine | 2007-2008 |

C. Other Health Professional Students

Lectures:

- | | |
|--|---------|
| 1) CT in children: The why, when, what, and who
Lecture for continuing education of the radiologic technologists
Wake Forest University Baptist Medical Center
Winston-Salem, North Carolina
1 hour X 2 | 6/2004 |
| 2) Multimodality renal imaging in children.
Lecture for continuing education of the radiologic technologists
Wake Forest University Baptist Medical Center
Winston-Salem, North Carolina
1 hour X 2 | 9/2004 |
| 3) Multidetector CT evaluation of the pediatric abdomen.
Lecture for continuing education of the radiologic technologists
Wake Forest University Baptist Medical Center
Winston-Salem, North Carolina
1 hour X 2 | 10/2004 |

Small Group:

- | | |
|---|-----------|
| 1) In-service for Pediatric Radiology Technologists
Wake Forest University Baptist Medical Center
Winston-Salem, North Carolina
Approximately 6 hours/year | 2001-2008 |
| 2) In-service for Radiology Nurses
Wake Forest University Baptist Medical Center
Winston-Salem, North Carolina
1 hour/year | 2001-2008 |

RECURRENT TEACHING RESPONSIBILITIES (INTRAMURAL)

C. Other Health Professional Students (continued)

- | | |
|---|-----------|
| 3) In-service with CT Technologists
Wake Forest University Baptist Medical Center
Winston-Salem, North Carolina
2 hours/year | 2001-2008 |
|---|-----------|

Other:

- | | |
|---|-----------|
| 1) Assistant Course Medical Director
Radiologic Technologist Training Program
Keesler Medical Center
Keesler AFB, Mississippi
Helped with the planning and training of Phase II Radiologic
Technologist trainees. Assisted phase II course director. | 1993-1995 |
|---|-----------|

D. Continuing Medical Education:

The Teaching Advancement Program Series
Wake Forest University School of Medicine
Winston-Salem, North Carolina
Certificate of Completion 5/20/05

- | | |
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| 1) Pediatric Grand Rounds – Speaker
1 hour/year | 2004-2008 |
| 2) Pediatric Oncology X-ray rounds
2 X / month | 2004-2008 |
| 3) Abdominal Imaging Journal Club, Participant
Approximately 12 hours/year | 2001-2006 |
| 4) MRI Conference, Participant
12 hours/year | 2001-2006 |
| 5) Pediatric Radiology Urology/Nephrology Conference, Participant
Approximately 12 hours/year | 2001-2008 |
| 6) Pediatric Orthopedic Grand Rounds, Speaker
Approximately once every 2 months | 2005-2007 |
| 7) Pediatric Cardiology Conference
Once a week | 2007-2008 |

E. Committees and Administration related to Medical Education:

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| 1) Program Director
Pediatric Radiology Fellowship
Phoenix Children's Hospital
Phoenix, Arizona | |
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RECURRENT TEACHING RESPONSIBILITIES (INTRAMURAL)

E. Committees and Administration related to Medical Education (continued):

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|--|------------|
| 2) Medical Director
Radiography Program Advisory Committee
Forsyth Technical Community College
Winston-Salem, North Carolina | 2007-2008 |
| 3) Recruitment Director Diagnostic Radiology Residency Program
Department of Radiology
Wake Forest University School of Medicine
Winston-Salem, North Carolina | 2004-20008 |
| 4) Resident Education Committee
Department of Radiology
Wake Forest University School of Medicine
Winston-Salem, North Carolina
2-4 hours/year | 2002-2008 |
| 5) Assistant Director of Radiology Residency Program
Department of Radiology
Wake Forest University School of Medicine
Winston-Salem, North Carolina
Assist the Director in oversight of residency program
Do bi-annual residency reviews, assist and counsel residents
when problems arise, work with chief residents, participate
in residency selection process, curriculum development,
residency scheduling and assignments.
80+ hours/year beyond residency selection duties. | 2002-2005 |
| 6) Residency Selection Committee
Department of Radiology
Wake Forest University School of Medicine
Winston-Salem, North Carolina
Approximately 100 hours/year | 2001-2008 |
| 7) CME Committee at Medical City Dallas Hospital
Medical City Hospital
Dallas Texas | 1996-2001 |

F. Mentoring/Advising:

- | | |
|--|----------------|
| 1) Faculty Mentoring to member of medical school class of 2007
Wake Forest University School of Medicine | 9/2003-2007 |
| 2) Dan Clark MD – Appendix Project, evaluated the appearance
and detect ability of normal appendix on
CT Colonography. Culminated in Poster and Short Paper. | 12/2001-6/2002 |
| 3) Marta Hielbrun MD – Multicystic Dysplastic Kidney Project,
evaluated pattern of contralateral renal growth and
findings associated with MCDK. Culminated in Poster. | 10/2002-5/2003 |

RECURRENT TEACHING RESPONSIBILITIES (INTRAMURAL)

F. Mentoring/Advising (continued):

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|--|----------------|
| 4) Geoff Lamke MD – Ewing Sarcoma Project, reviewed imaging findings of Ewing’s Sarcoma. Culminated in electronic exhibit. | 10/2003-5/2004 |
| 5) Alex Pertile MD – Retrospective Review of Multi-detector CT of Abdomen Value of Sagittal and Coronal Reformats. | 2/2004-3/2005 |
| 6) Louise Milner MD – Multi-detector CT of the Chest, Prospective Study of the Value of Coronal and Sagittal Images. | 5/2004-5/2005 |
| 7) Susan Lie-Nielsen MD – Multi-detector CT of the Abdomen Prospective Study of the Value of Coronal and Sagittal Images. | 5/2004-5/2005 |
| 8) Allison Pearl, MD – Pars Defect Project – A new Radiographic Sign on CT | 2005-2006 |
| 9) Ben Jackson MSII- 3D Volume Rendered CT of Pelvic Trauma | 1/2005-11/2007 |
| 10) Geoff Wile, MD – Role of CT reformats in Pediatric Trauma | 1/2006-5/2006 |
| 11) Aurora Peacock, MD – Pediatric Renal Tumors | 3/2006-11/2006 |
| 12) Melanie Caserta, MD – Pediatric Adnexal pathology | 3/2006-11/2006 |
| 13) Hesham Hussien MSIV – Pediatric Skeletal Trauma | 4/2007-6/2007 |
| 14) Kally Pungler MSIII – Acetabular Fracture Classification | 4/2007-11/2007 |
| 15) Robert Fischer MSIV – Case Report Chondroblastoma | 6/2007-7/2007 |
| 16) Lauren Golding, MD – Anterior Mediastinal Masses | 3/2008-9/2008 |

RECURRENT TEACHING RESPONSIBILITIES (EXTRAMURAL)

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| 1) Office in Charge of Pediatric Radiology
Keesler Air Force Base Medical Center
Biloxi, Mississippi
Audience 24 Pediatric Residents
Did daily NICU and Ward rounds
Served as Radiology attending for Pediatric Residents rotating through Radiology
Developed 11 lectures for Pediatric Residents that were given 2 times each during the 3 years I was there.
Topics Covered:
Neonatal Chest, Pediatric Chest, Pediatric Trauma,
Pediatric Bone Tumors and Infection
Pediatric Oncology I & II, Pediatric GI, Pediatric GU
Pediatric Neuro, Pediatric Congenital Heart
Child Abuse | 1992-1995 |
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RECURRENT TEACHING RESPONSIBILITIES (EXTRAMURAL) continued:

- 2) Radiology Board Reviews – Radiology Residents 1993-Present
Location and audience varied.
Residents from Wake Forest University School of Medicine,
Louisiana State University, University Texas Southwestern,
and Baylor Dallas. The audience varied in size from 1-10
people/session. Varying from 4-10 hours/year.
- 3) Radiologic Technologist In-service 1995-2001
Medical City Dallas Hospital in Dallas, Texas
Audience: 10-20 Radiologic Technologists
30-60 minute sessions – 1-2 times/year
- 4) Pediatric Grand Rounds – Medical Center Dallas Hospital 1995-2001
Dallas, Texas
Lectured to 20-40 Pediatric Doctors and Nurses
1 -2 hours/year – topics varied
- 5) Pediatric and Neonatal Nurse In-services 1996-2001
Medical City Dallas Hospital
Dallas, Texas
Audience: Approximately 5-15 nurses
Topics varied – approximately 6 hours/year
- 6) Continuing Medical Education for Radiologists 6/2002
Sponsored by Wake Forest University School of Medicine 6/2004
Hilton Head Island, SC
Lectured to about 100 radiologists – audiences was practicing
radiologists – 3-4 hours/meeting.

AWARDS FOR TEACHING AND MEDICAL EDUCATION:

- Craigasaurus Teaching Award 1992
Wake Forest University Baptist Medical Center
Winston-Salem, North Carolina
Award given by first year radiology residents
In recognition for outstanding teaching by a fellow
- Teaching Award in Pediatrics 1995
Keesler Medical Center
Keesler AFB, Mississippi
Given by pediatric residents

LECTURES AND ORAL PRESENTATIONS:

1. Barnes CE, Auringer ST, Sumner TE. Cystosonography in the assessment of vesicoureteral reflux. AIUM Meeting, San Diego, CA, March 1992.

LECTURES AND ORAL PRESENTATIONS: (continued):

2. Barnes CE. Approach to Abdominal Masses. Presented at Medical City Dallas Hospital, Pediatric Grand Rounds, Dallas, TX. October 24, 1995
3. Barnes CE. Pediatric Kidney Disorders. Presented at Medical City Dallas Hospital. Fall Seminar for Technologists, Dallas, TX, October 26, 1995.
4. Barnes CE. Intravenous Urogram in the Age of Imaging. Presented at Medical City Dallas Hospital. Fall Seminar for Technologists, Dallas, TX, October 26, 1995.
5. Barnes CE. Child Abuse Imaging. Presented at Medical City Dallas Hospital, Pediatric Grand Rounds, Dallas, TX, April, 1996.
6. Barnes CE. Pediatric Oncologic Imaging. Presented at Medical City Dallas Hospital, Pediatric Grand Rounds, Dallas, TX, August, 1996.
7. Barnes CE. Child Abuse Imaging. Presented at Medallion Hotel for Continuing Education Program for Radiologic Technologists, Dallas, TX, November, 1996.
8. Barnes CE. Pediatric Skeletal Trauma. Presented at Medical City Dallas Hospital, Pediatric Grand Rounds, Dallas, TX, November, 1996.
9. Barnes CE. Pediatric Renal Imaging. Presented at St. Paul Hospital for Continuing Education Program for Radiologic Technologists, Dallas, TX, February, 1996.
10. Barnes CE. Child Abuse Imaging. Presented at the Holiday Inn, Continuing Education Program for Radiologic Technologists, Dallas, TX, August, 1997.
11. Barnes CE. Pediatric GI Imaging in Neonates and Infants. Presented at Medical City Dallas, Pediatric Grand Rounds, Dallas, TX, February, 1999.
12. Barnes CE. Interesting Pediatric Case Presentation. Presented at the Southern Pediatric Radiology Society, San Antonio, Texas, October, 1999.
13. Barnes CE. Pediatric Neonatal GI. Presented at Wake Forest University School of Medicine, Winston-Salem, NC, Visiting Lecturer, October, 2000.
14. Barnes CE. Pediatric Oncologic Imaging. Presented at Medical City Dallas Hospital, Pediatric Grand Rounds, Dallas, TX, December, 2000
15. Barnes CE. Optimizing Pediatric Body CT. Presented at the Wake Forest University School of Medicine Summer Radiology Conference, Hilton Head Island, South Carolina, June 24-28, 2002.
16. Barnes CE. Imaging of the Pediatric Chest. Presented at the Wake Forest University School of Medicine Summer Radiology Conference, Hilton Head Island, South Carolina, June 24-28, 2002.
19. Barnes CE. Imaging Approach to Abdominal Mass in a Child. Part I & II. Presented at the Wake Forest University School of Medicine Summer Radiology Conference, Hilton Head Island, South Carolina, June 24-28, 2002.

LECTURES AND ORAL PRESENTATIONS: (continued):

20. Barnes CE. Optimizing Pediatric Body CT. Presented at the North Carolina Chapter of the American College of Radiology meeting, Greensboro, North Carolina, November 16, 2002.
21. Barnes CE. Optimizing Pediatric Body CT. Presented at Abdominal Imaging Journal Club, Wake Forest University School of Medicine, Winston-Salem, North Carolina, January, 2003
22. Barnes CE. Clark DC, Chen MY. Visualization and Characterization of Normal Appendix on CT Colonography. Presented at the 103rd Annual Meeting of the American Roentgen Ray Society, San Diego, California, May 5, 2003.
23. Barnes CE. CT in Children: the Why, When, What, and Who. Presented at Pediatric Grand Rounds, Wake Forest University School of Medicine, Winston-Salem, NC, June 2, 2004.
24. Barnes CE. CT in Children: the Why, When, What, and Who. Presented for Radiologic Technology staff at Wake Forest University Baptist Medical Center, for Continuing Education credit, Winston-Salem, NC, June 16, 2004.
25. Barnes CE. Multi-Modality Renal Imaging in Children. Presented at the Department of Radiology, Summer Radiology Meeting at Hilton Head Island, SC, June 21, 2004.
26. Barnes CE. CT in Children: Why, When, What, and Who. Presented at the Department of Radiology, Summer Radiology Meeting at Hilton Head Island, SC, June 22, 2004.
27. Barnes CE. Multi-Detector CT Evaluation of Pediatric Abdomen. Presented at the Department of Radiology, Summer Radiology Meeting at Hilton Head Island, SC, June 23, 2004.
28. Barnes CE. Multi-Modality Renal Imaging in Children. Presented at Pediatric RUN conference, Wake Forest University School of Medicine, Winston-Salem, NC, July, 8, 2004.
29. Barnes CE. Pediatric Radiology Attending Cases Afterhour. Presented to Abdominal Imaging faculty at Wednesday Imaging conference. Wake Forest University School of Medicine, Winston-Salem, North Carolina. August 18, 2004.
30. Barnes CE. Multimodality Renal Imaging in Children. Presented for Radiology Technology staff at Wake Forest University Baptist Medical Center, Winston-Salem, North Carolina, September 15, 2004.
31. Barnes CE. Multidetector CT Evaluation of the Pediatric Abdomen. Presented for Radiology Technology staff at Wake Forest University Baptist Medical Center, Winston-Salem, North Carolina, October 6, 2004.
32. Barnes CE. Multimodality Renal Imaging in Children. CT in Children: Why, When, What & Who. Multidetector CT Evaluation of the Pediatric Abdomen. Presented at Mogilev Children's Hospital, Mogilev, Belarus, January 5, 2005.
33. Barnes CE. Developmental Dysplasia of the Hip. Presented at Orthopedic Grand Rounds, Wake Forest University School of Medicine, Winston-Salem, North Carolina, January 26, 2005.

LECTURES AND ORAL PRESENTATIONS: (continued):

34. Barnes CE. Evaluating an Abdominal Mass in a Young Child: a Radiologist's Perspective. Presented at Practical Pediatrics Postgraduate Course in Pediatrics. Presented by the Department of Pediatrics, Wake Forest University School of Medicine, Winston-Salem, North Carolina, April 1, 2005.
35. Barnes CE. Pediatric Skeletal Trauma. Presented at North Carolina Society of Radiologic Technologists 2005 Annual Conference, Raleigh, North Carolina, April 30, 2005.
36. Barnes CE, Milner LD, Lie-Nielsen ST, Chen MY, Anthony EY. Multidetector CT: Should we Consider a Change of Reading Plane? Presented at the 48th Annual Meeting of the Postgraduate Course, Society of Pediatric Radiology, New Orleans, Louisiana, May 6, 2005.
37. Barnes CE. Practical Renal Imaging. Presented at American Urological Association Annual Meeting, Postgraduate Course, San Antonio, Texas, May 22, 2005.
38. Barnes CE. Slipped Capital Femoral Epiphysis. Pediatric Orthopedic Grand Rounds, Wake Forest University School of Medicine, Winston-Salem, North Carolina, June 8, 2005.
39. Barnes CE. Pediatric Musculoskeletal Imaging of Sports Injury and Developmental Abnormalities - Upper Extremity: Part I. Presented at Sports Injuries: A MultiSpecialty Review, The Greenbrier, White Sulphur Springs, West Virginia, November 3-6, 2005.
40. Barnes CE. Pediatric Musculoskeletal Imaging of Sports Injury and Developmental Abnormalities – Upper Extremity: Part II. Present at Sports Injuries: A MultiSpecialty Review, The Greenbrier, White Sulphur Springs, West Virginia, November 3-6, 2005.
41. Barnes CE. Pediatric Musculoskeletal Imaging of Sports Injury and Developmental Abnormalities - Lower Extremity: Part I. Sports Injuries: A MultiSpecialty Review, The Greenbrier, White Sulphur Springs, West Virginia, November 3-6, 2005.
42. Barnes CE. Pediatric Musculoskeletal Imaging of Sports Injury and Developmental Abnormalities – Lower Extremity: Part II. Presented at Sports Injuries: A MultiSpecialty Review, The Greenbrier, White Sulphur Springs, West Virginia, November 3-6, 2005.
43. Barnes CE. Approach to Diagnosis: Case Based Imaging Review. Pediatric Radiology Musculoskeletal. Presented at American Roentgen Ray Society Annual meeting in Vancouver, BC, April 30 – May 5, 2006.
44. Barnes CE. MDCT Image Optimization in Pediatric Patients (How I do It). Presented at Summer Radiology Review, Hilton Head Island, South Carolina, June 26-30, 2006.
45. Barnes CE. Pediatric Emergency Patients – MDCT Evaluation. Presented at Summer Radiology Review, Hilton Head Island, South Carolina, June 26-30, 2006.
46. Barnes CE. Pediatric Skeletal Trauma – Plain Film to MRI. Presented at Summer Radiology Review, Hilton Head Island, South Carolina, June 26-30, 2006
47. Barnes CE. MDCT of the pediatric chest. Presented at the Winter Radiology Meeting, The Westin Resort & Spa, Los Cabos, Mexico, January 20-26, 2007.
48. Barnes CE. Application of MDCT to imaging the pediatric abdomen. Presented at the Winter Radiology Meeting, The Westin Resort & Spa, Los Cabos, Mexico, January 20-26, 2007.

LECTURES AND ORAL PRESENTATIONS: (continued):

49. Barnes CE. Application of MDCT to imaging the pediatric musculoskeletal system. Presented at the Winter Radiology Meeting, The Westin Resort & Spa, Los Cabos, Mexico, January 20-26, 2007.
50. Barnes CE. How I do it: Pediatric CT for 2D and 3D visualization and diagnosis. Presented at the Winter Radiology Meeting, The Westin Resort & Spa, Los Cabos, Mexico, January 20-26, 2007.
51. Jackson BJ, Webb LX, Dedmond B, Pastrano JA, Barnes CE. Three-dimensional Volume Rendered CT Views for Acetabular Fractures: Can They Replace Plain Films? Presented at the 93rd Annual Scientific Assembly and Meeting of the Radiologic Society of North America, Chicago, Illinois, November 26-30, 2007.

COMMUNITY SERVICE:

Community Care Clinic Staff Radiologist	2002-2008
Wake Forest University Radiology Department Point Person Winston-Salem, North Carolina	2007-2008
American Belarus Relief Organization	2002-2006
Host of child from Belarus – 6 weeks per summer	2002-2006
Host for ABRO Administrator USA and Belarus	11/ 2003
ABRO trip to Belarus Winston-Salem, North Carolina	12/2004
Mentoring of High School Students about Radiology Wake Forest University Baptist Medical Center Winston-Salem, North Carolina	2001-2008