### CLIFFORD J. BELDEN, MD, MS

October 1, 2019

**HOME ADDRESS:** 73 E Hoosick Road

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BUSINESS ADDRESS Columbia Memorial Hospital

71 Prospect Avenue Hudson, NY 12534

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**BIRTHPLACE:** Springfield, MA

CITIZENSHIP STATUS: US Citizen

MILITARY SERVICE: Lieutenant Colonel, USAR, Honorable Discharge

#### **EDUCATION AND TRAINING**

#### UNDERGRADUATE SCHOOL DATES MONTH/YEAR DEGREE/YR/SUBJECT

Rensselaer Polytechnic Institute,

Troy, NY

(Combined 6-year BS-MD program with Albany Medical

College)

August 1984-August 1986 BS, summa cum laude, 1988,

**Biology** 

# GRADUATE/PROFESSIONAL SCHOOL

Albany Medical College

Albany, NY

(Combined 6-year BS-MD

program)

August 1986-May 1990

MD, magna cum laude, 1990

Dartmouth College

Hanover, NH

July, 2012 – Feb 2014

MS – Health Care Delivery

Science

Signed:	Dated:

# **GRADUATE MEDICAL EDUCATION:**

Internship, Internal Medicine (Preliminary)	Albany Medical Center Albany, NY	July 1990 – June 1991
Residency, Ophthalmology	University of Florida Gainesville, FL	July 1991 – June 1992
Residency, Diagnostic Radiology	University of Florida Gainesville, FL	July 1992-June 1996
Fellowship, Neuroradiology	Johns Hopkins Hospital Baltimore, MD	July 1996-June 1998

# LICENSURE

State Active	Number	Dates
NY	225791	July 2002 – October 2019
Inactiv	e	
PA	MD426434	May 2005-December 2018
<i>NH</i>	12616	March 2005-June 2017
VT	042.0013013	October 2014- November 2016
TX	L0983	December 2000 – November 2005
MD	D0050291	March 1996 – September 1996
KY	39381	June 2005 – February 2006
IA	36049	March 2005 – November 2006
AZ	33876	March 2005 – March 2007
MI	4301085109	February 2005 – January 2006
<i>NM</i>	MD2005-0212	May 2005 – July 2008
<b>MO</b>	2005012159	April 2005 – January 2006
WA	MD00044742	March 2005 – November 2005
ОН	35.086033	April 2005 – July 2007
MN	47476	May 2005 – November 2005
TN	MD0000039450	March 2005 – November 2006
WI	48112-020	May 2005 – October 2005
SD	5600	March 2005 – February 2006
IL	036-113082	February 2005 – July 2005
RI	MD11697	February 2005 – June 2006
FL	ME92934	April 2005 – January 2007
FL	ME60758	September 1991 – January 1998

# **BOARD CERTIFICATION**

American Board of Radiology (lifetime certificate)	41231	June 12, 1996
American Board of Radiology Subspecialty of Neuroradiology (CAQ)	41231	November 5, 2001 – December 31, 2021

### ACADEMIC HONORS AND AWARDS

McGraw-Hill Book Award for Outstanding First Year Student	Albany Medical College	1988
Townsend Prize in Physiology	Albany Medical College	1988
Daggett Prize in Anatomy	Albany Medical College	1988
Alpha Omega Alpha (junior year)	Albany Medical College	1989
Sandoz Award in Neuroscience	Albany Medical College	1989
Trustee's Prize in Pharmacology	Albany Medical College	1989
Schact Prize in Microbiology	Albany Medical College	1989
Valedictorian	Albany Medical College	1990
Cum Laude Award, RSNA		1993
Certificate of Merit, RSNA		1993
RSNA Roentgen Resident/Fellow Research		1996
S .		1990
Award American Society of Head and Neck Radiology, Radiologist-in-Training Award		1996
Award American Society of Head and Neck		
Award American Society of Head and Neck Radiology, Radiologist-in-Training Award Summa Cum Laude, Exhibit American	Johns Hopkins Hospital	1996
Award American Society of Head and Neck Radiology, Radiologist-in-Training Award Summa Cum Laude, Exhibit American Society of Neuroradiology	-	1996 1997
Award American Society of Head and Neck Radiology, Radiologist-in-Training Award Summa Cum Laude, Exhibit American Society of Neuroradiology Resident Teacher Award	Hospital  Brooke Army	1996 1997 1998
Award American Society of Head and Neck Radiology, Radiologist-in-Training Award Summa Cum Laude, Exhibit American Society of Neuroradiology Resident Teacher Award Teacher of the Year Award, Radiology  Radiology Editor's Recognition Award for	Hospital  Brooke Army	1996 1997 1998 2001
Award American Society of Head and Neck Radiology, Radiologist-in-Training Award Summa Cum Laude, Exhibit American Society of Neuroradiology Resident Teacher Award  Teacher of the Year Award, Radiology  Radiology Editor's Recognition Award for Reviewing with Special Distinction	Hospital  Brooke Army	1996 1997 1998 2001 2003
Award American Society of Head and Neck Radiology, Radiologist-in-Training Award Summa Cum Laude, Exhibit American Society of Neuroradiology Resident Teacher Award  Teacher of the Year Award, Radiology  Radiology Editor's Recognition Award for Reviewing with Special Distinction  Certificate of Merit, RSNA  Radiology Editor's Recognition Award for	Hospital  Brooke Army	1996 1997 1998 2001 2003 2003
Award American Society of Head and Neck Radiology, Radiologist-in-Training Award Summa Cum Laude, Exhibit American Society of Neuroradiology Resident Teacher Award  Teacher of the Year Award, Radiology  Radiology Editor's Recognition Award for Reviewing with Special Distinction  Certificate of Merit, RSNA  Radiology Editor's Recognition Award for Reviewing with Special Distinction	Hospital  Brooke Army Medical Center  Albany Medical	1996 1997 1998 2001 2003 2003 2004

Magna Cum Laude Award, ASNR		2009
Radiology Editor's Recognition Award for Reviewing with Special Distinction		2010
Magna Cum Laude Award, RSNA		2010
Teacher of the Year Award, Department of Radiology	Dartmouth-Hitchcock Medical Center	2010
Radiology Editor's Recognition Award for Reviewing with Special Distinction		2011

# **APPOINTMENTS**

# **ACADEMIC**

Instructor in Radiology, John Hopkins University	July 1997- June 1998
Adjunct Assistant Professor of Radiology, University of Texas, San Antonio	2001- December 2002
Associate Professor of Radiology, Albany Medical College	January 2003- September 2008
Assistant Professor of Radiology, Geisel School of Medicine	November 2008-June 2010
Associate Professor of Radiology and Neurology, Geisel School of Medicine	April 2010-August 2015
Professor of Radiology, Temple University School of Medicine	September 2015- June 2017

#### HOSPITAL

Attending Physician	September 1998-
Brooke Army Medical Center	December 2002
San Antonio, TX	
Attending Physician	January 2003-
Albany Medical Center	September 2008
Albany, NY	
Teleradiology Consultant	September 2004- April
Virtual Radiologics	2005
Minnetonka, MN (moonlighting)	
Attending Physician	November 2008-June
Dartmouth-Hitchcock Medical Center	2015
Attending Physician	September 2015-June
Temple University Hospital	2017
Attending Physician	July 2017-present
Nyack Hospital	

#### PROFESSIONAL ACTIVITIES

#### **EDUCATIONAL**

Teaching – Attending in Radiology: 24 residents, September 2015-June 2017 medical students, Teaching – Attending in Radiology: 20 residents and September 2008one neuroradiology fellow, medical students December 2014 Geisel School of Medicine September 2009-Lecturer, Scientific Basis of Medicine, 2<sup>nd</sup> year December 2013 students: 1 hour/year Teaching – Attending in Radiology: 20 residents January 2003-September 2008 Albany Medical Center Albany, NY Associate Residency Program Director: 40 residents September 1998- June **Brooke Army Medical Center** 2001

#### CLINICAL

Neuroradiolgist, Hudson Valley Radiology Associates July 2017-present Radiologist-in-Chief, Temple University Health September 2015-June 2017 System, Philadelphia, PA Chair, Radiology, Temple University School of September 2015-June 2017 Medicine Executive Vice President Integrated Delivery System December 2014- August 2015 and Chief Clinical Officer Dartmouth-Hitchcock, Lebanon, NH Interim Chief Clinical Officer February 2014-December 2014 Dartmouth-Hitchcock, Lebanon, NH Interim Senior Associate Dean for Clinical Affairs February 2014-December 2014 Geisel School of Medicine, Hanover, NH Chair, Department of Radiology October 2012 - June 2014 Geisel School of Medicine and Dartmouth-Hitchcock Lebanon, NH Interim Chair, Department of Radiology June 2011- October 2012 Geisel School of Medicine and Dartmouth-Hitchcock Lebanon, NH Vice Chair, Radiology July 2005 – September 2008 Albany Medical Center Director of Cardiovascular Imaging January 2003 – September 2008 Albany Medical Center

Chief, Neuroradiology July 1999 – December 2002

Brooke Army Medical Center

Chief Resident, Radiology April 2004 – June 2005

University of Florida

#### RESEARCH

Director of Clinical Research, Department of January 2010 – June 2014

Radiology

Geisel School of Medicine and Dartmouth-Hitchcock

Lebanon, NH

#### **GRANT SUPPORT**

Co-Investigator," The Role of Cranial Venous Circulation in microgravity-associated visual change," 4/2013-3/2015

National Space Biomedical Research Institute

(J. Buckey, PI)

5% effort

\$1,186,000

Mentor, Co-investigator, Multiparametric MRI biomarker predictive of early treatment outcome in recurrent glioblastoma, 3/2013. P Valdes PI.

Hitchcock Foundation Medical Student Grant (\$1500)

PI, Magnetic resonance imaging features that predict the biologic behavior of head and neck cancer, 4/2011

Radiology Department Seed Funds, RSNA

\$26,000

Co-Investigator, Pre-Operative Image Updating for Guidance during Brain Tumor Resection,

5/2011-11/2011

\$506,234, (K. Paulsen, PI)

5% effort

Co-Investigator, Center for Comparative Effectiveness Research in Cancer Imaging, 2010-11

"Pilot study for a registry of incidentally detected thyroid nodules"

\$49,000.00 (L. Davies, PI)

5% effort

PI, RSNA Seed Grant, 2000

"Serial Volumetric and Spectroscopic Changes Following Closed Head Injury."

\$24,800.00

#### PROFESSIONAL PUBLICATIONS

AJNR: Reviewer 2011-2014 AJNR: Editorial Board 2011-2013

Radiology: Reviewer 2000-2005; 2009-2014; 2015-present

NATIONAL/INTERNATIONAL CONFERENCES/MEETINGS

Imaging of Leukocoria April 8, 2011

New England Roentgen Ray Society

Boston, MA

Defense Centers of Excellence for Psychological January 30-31,

Health and Traumatic Brain Injury 2013

Department of the Army

Washington DC

Visiting Professor - Genetics of Glioblastoma February 11,

University of Pennsylvania 2014

Philadelphia, PA

Implementing Strategy at D-H July 19, 2014

Lecture for Masters of Health Care Delivery Science

Tuck School of Business

Hanover, NH

ACOs and Beyond: Critical Success Factors for October 17, Radiology 2014

Society of Chairs of Academic Radiology

Departments Tucson, AZ

PAMA High-Value Health Collaborative Meeting January 21, Washington, DC 2015

Compensation Alignment: The Journey to One March 24,

Dartmouth-Hitchcock 2015

American Medical Group Association (AMGA)

Las Vegas, NV

Radiology in a Changing Reimbursement November,

Environment: Risks and Rewards 2015

Session Organizer and Presenter

RSNA, 2015 Chicago, IL

Moderator, American Society of Head and Neck September, Radiology, Washington, DC 2016

Radiology in a Changing Reimbursement November,

Environment: Risks and Rewards 2016

Session Organizer and Presenter

RSNA, 2016 Chicago, IL

PROFESSIONAL ORGANIZATIONS

Radiologic Society of North America, Member 1993-present American Association of Academic Chief Residents in 1994-1995

Radiology

American Society of Neuroradiology, Senior Member 1999-present

Executive Committee  Membership Committee  American College of Radiology Imaging Network	2011-2012 2009-2012 2001-2004
(ACRIN)	
Supraglottic Protocol Team Member	
American College of Physician Executives, Member	2006-2009
Association of University Radiologists, Member	2011-2017
Scientific Program Committee	2014-2107
Society of Chair of Academic Radiology Departments,	2011-2014
Member	
American College of Radiology, Member	2011-present
Radiology Integrated Care Committee	2013-present
Academy of Radiology Research Academic Council,	2012-2014
Member	
Coalition for Imaging and Bioengineering Research	2012-2014
American Board of Radiology, Member of Exam	2017-present
Standard-setting Committee, Neuroradiology	-
American Board of Radiology, Online Longitudinal	2018
Assessment Pilot	

# COMMITTEES SCHOOL

	Admissions Committee, Member, Albany Medical College	July1988-June 1990
	Dean's Academic Board, Member, Geisel School of Medicine	2011-2015
	Geisel 2020 Strategy Summit, Member, Geisel School of Medicine	Feb 2013
	Geisel Budget Improvement Committee, Member, Geisel School of Medicine	December 2013-February 2014
HC	SPITAL	
	Institutional Review Board, Brooke Army Medical Center	January 2000-October 2002
	Corrective Action and Appeals Committee, Albany Medical Center	2004
	Administrative Investment Oversight Committee, Dartmouth-Hitchcock	2009-2015
	Committee for the Protection of Human Subjects, Dartmouth-Hitchcock	2009-2011
	Investment Committee, Dartmouth-Hitchcock	2011-2015
	Heart and Vascular Center Committee, Dartmouth- Hitchcock	2012-2014

Academic Chairs, member	2011-2014
Retirement Program Sustainability Summit, Dartmouth-Hitchcock	2012
New Payment Model Summit, Dartmouth-Hitchcock	2013
Pension Summit, Dartmouth-Hitchcock	2013
Provider Compensation Steering Committee (cochair), Dartmouth-Hitchcock	2013-2015
Senior Leadership Group (chair), Dartmouth- Hitchcock	2014-2015
Board of Governors, Dartmouth-Hitchcock	2014-2015
Academic Chairs, convener	2014-2015
Joint Operating Committee, Temple University Hospital	2015-2017
Medical Staff Executive Committee	2015-2017
Temple-General Electric Strategic Agreement, Operation Committee (Chair)	2015-2017
Temple-General Electric Strategic Agreement, Executive Committee	2015-2017
Temple University Hospital, Peer Review Committee	2015-2017

#### **DEPARTMENT**

Education Committee, Brooke Army Medical Center	September 1998-October 2002
Research Oversight Committee, Dartmouth- Hitchcock	2008-2014
Education Committee, Dartmouth-Hitchcock	2011-2014
Executive Committee, Dartmouth-Hitchcock	2011-2014

### **PUBLICATIONS:**

#### PEER-REVIEWED ARTICLES

- 1. <u>Belden CJ</u>, Hamed L, Mancuso AA, "Bilateral Isolated Retrobulbar Optic Neuropathy in Limited Wegener's Granulomatosis." *Journal of Clinical Neuro-ophthalmology*, 1993 Jun; 13(2): 119-23.
- 2. Mukherji S, Tart R, Fitzsimmons, <u>Belden CJ</u>, McGory, Guy J, Mancuso AA. "Fast Spin Echo (FSE) Imaging of the Orbit and Cavernous Sinuses: Comparison of Fat-Suppressed FSE with Fat-Suppressed Conventional Spin Echo T2W Imaging." *AJNR* 1994;15:1707-14.

- 3. <u>Belden CJ</u>, Abbitt PA, Beadles D "Color Doppler Ultrasound Evaluation of the Orbit." *Radiographics*, 1995; 15:589-608.
- 4. Huda W, Williams J, <u>Belden CJ</u>, Williams. "Imaging performance and CR film density." *SPIE* Mar 95, Vol. 2436.
- 5. Belden CJ, Powers C, Ros P, "Cystic Pheochromocytoma." *JMRI* 1995; 5:778-780.
- 6. Qu, Huda W, <u>Belden CJ</u>. "Comparison of Trained and Untrained Observers using Subjective and Objective Measures of Imaging Performance." *Academic Radiology*, 1996;3:31-35.
- 7. Huda W, Slone R, <u>Belden CJ</u>, Williams J, Cumming W, and Palmer C. "Mottle on Computed Radiographs of the Chest in Pediatric Patients." *Radiology* 1996; 199(1):249-52.
- 8. Huda W, <u>Belden CJ</u>, Webb L, Palmer C. "Support Line and Tube Visibility in Chest Examinations using Computed Radiography." *J Digit Imaging* 1997; 10(3):126-31.
- 9. Huda W, Steinbach, Geiser, <u>Belden CJ</u>. "Optimal Technique Factors for Magnification Mammography." *Investigative Radiology* 1997; 32 (7):378-81.
- 10. <u>Belden C</u>, Mancuso A, Kotzur I. "The Anterior Skull Base: Normal CT Appearance and Development in Children Under 2 Years of Age." *AJNR* 1997; 18:811-818.
- 11. <u>Belden C</u>, Zinreich SJ. "Orbital Imaging Techniques." *Semin Ultrasound CT MR*, Dec 1997.
- 12. <u>Belden C</u>. "Skull base and Calvarium (Adult and Pediatric)." *Neuroradiologic Clinics of North America*, Dec 1997.
- 13. Greenberg, <u>Belden C</u>. "Assessment of Oropharyngeal Distance in Children using MRI." *Anesthesia and Analgesia*, July, 1998.
- 14. <u>Belden C</u>, Mancuso A, Kotzur I. "Congenital Nasal Pyriform Aperture Stenosis." *Radiology* 1999; 213:495-501.
- 15. Clement, Romero, <u>Belden C</u>, "Neuropsychological sequelae of heat stroke: report of three cases and discussion." *Mil Med* 2000 Jun;165(6):500-3.
- 16. Belden C, Auber A. "Head Trauma." Current Protocols in MR. January, 2001.
- 17. Pongnapang N, Clarke G, Ozus B, Amurao M, Lane M, <u>Belden C</u>. "Measurement of myocardial T1 relaxation times in humans with inversion recovery EPI." Proc SPIE Vol. 4320, p.898-904, Medical Imaging 2001: Physics of Medical Imaging, Larry E. Antonuk; Martin J. Yaffe; Eds.
- 18. Sherman P, <u>Belden C</u>, Nelson. "Magnetic resonance imaging findings in a case of cytarabine induced myelopathy. Mil Med. 2002 Feb;167(2):157-60.

- 19. <u>Belden C</u>. MR imaging of the globe and optic nerve. Magn Reson Imaging Clin N Am. 2002 Nov;10(4):663-78.
- 20. <u>Belden C</u>, Minor L, Zinreich SJ, Weg N. "CT Evaluation of Bone Dehiscence of Superior Semicircular Canal as a Cause of Sound- and/or Pressure-Induced Vertigo." Radiology. 2003 Feb;226(2):337-43.
- 21. Hammoud, <u>Belden C</u>, et al. The surgical bed after BCNU polymer wafer placement for recurrent glioma: serial assessment on CT and MR imaging. AJR Am J Roentgenol. 2003 May;180(5):1469-75.
- 22. Thompson DB, Burton B, Watters M, <u>Belden C</u>, Emery RL, Beall DP. "Calcific cerebral arterial embolization in the setting of bacterial endocarditis superimposed on prior rheumatic aortic valvular disease." Clinical Imaging. 2003 Sep-Oct;27:304-6.
- 23. Amato M, Blaydon S, Scribbick FW, <u>Belden CJ</u>, Shore J, Neuhaus R, Kelley PS, Holck D. Use of Bioglass for Orbital Volume Augmentation in Enophthalmos: A Rabbit Model (Oryctolagus Cuniculus). Ophthalmic Plastic & Reconstructive Surgery. November, 2003; 19(6)455-465.
- 24. <u>Belden C</u>. MR Imaging of the globe and optic nerve. Neuroimaging Clin N Am. 2004;14(4):809-825.
- 25. Mukherji SK, Toledano AY, <u>Belden C</u>, Schmalfuss IM, Cooper JS, et al. Interobserver reliability of computed tomography-derived primary tumor volume measurement in patients with supraglottic carcinoma. Cancer 2005; 103(12); 2616-2622.
- 26. DM Mills, S Tsai, DR Meyer, <u>C Belden</u>. Pediatric ophthalmic Computed Tomography and associated cancer risk. American Journal of Ophthalmology, 2006;142 (6):1046 1053.
- 27. Schenck JF. MD, Zimmerman EA, Li, Z, Adak S, Saha A, Tandon R, Fish, K, <u>Belden C</u>, Gillen, RW, Barba A, Henderson D, Neil W, O'Keefe T. High-field Magnetic Resonance Imaging of Brain Iron in Alzheimer Disease. Topics in Mag Res Imaging. February 2006;17(1):41-50.
- 28. Cooper JS, Mukherji SK, Toledano AY, <u>Belden C</u>, Schmalfuss IM, et al. An Evaluation of the Variability of Tumor-Shape Definition Derived by Experienced Observers from CT-Images of Supraglottic Carcinomas (ACRIN protocol 6658). Int J Radiat Oncol Biol Phys March 2007; 67 (4) 972-975.
- 29. Barry G, Khachikian S, Beck A, <u>Belden C</u>, Pearce J, Simon J. Optic Canal Diameter in Infantile Osteopetrosis. J Ped Ophthalmol and Strabismus. J Ped Ophthalmol Strab, Mar 2009; 46(2):112-114.
- 30. Ledet EH, Jeshuran W, Glennon JC, Shaffrey C, De Deyne P, <u>Belden CJ</u>, Kallakury B, Carl AL. Small Intestinal Submucosa for Annular Defect Closure: Long Term Response In An In Vivo Sheep Model. Spine, June 2009; 34(14): 1457-1463.

- 31. Bekelis K, Duhaime A, Missios S, <u>Belden CJ</u>, Simmons N. Placement of occipital condyle screws for occipitocervical fixation in a pediatric patient with occipitocervical instability after Chiari decompression. Journal of Neurosurgery: Pediatrics. Aug;6(2):171-6.
- 32. Ravi V, <u>Belden CJ</u>, Gosselin BJ, Paydarfar JA, Addante RR, Black CC, Pastel DA. Oral Cavity Cancer: A Review of Patterns of Spread. Neurographics, Volume 1, Number 1, June 2011, pp. 56-64(9).
- 33. <u>Belden CJ</u>, Valdes PA, Ran C, et al. Genetics of Glioblastoma: A Window into Its Imaging and Histopathological Variability. Radiographics. 2011 Oct;31(6):1717-40.
- 34. Valdes PA, Moses ZB, Kim A, <u>Belden CJ</u>, Wilson BC, Paulson KD, Roberts DW, Harris, BT. Gadolinium and 5-aminolevulinic acid-induced protoporphyrin IX levels in human gliomas: an *ex vivo* quantitative study to correlate protoporphyrin IX levels and blood-brain barrier breakdown. J Neuropathol Exp Neurol. 2012 Sep;71(9):806-13.
- 35. Dako F, Erkmen C, Cohen G and <u>Belden C</u>. The Long Arms of Radiology: Emergence of Radiologists as Public Health Practitioners. <a href="http://dx.doi.org/10.1016/j.jacr.2016.08.002">http://dx.doi.org/10.1016/j.jacr.2016.08.002</a> Journal of the American College of Radiology, Vol. 14, Issue 2, p185–187
- 36. Dako F, Schreyer K, Burshteyn M, Cohen G, <u>Belden C</u>. Expanding Radiology's Role in a Value-Based Health Economy. Journal of the American College of Radiology, Volume 14, Issue 5, 622 624.
- 37. Dako F, Cobb R, Verdi S, Grygorenko M, Patel T, Zink R, and <u>Belden C</u>. Use of Value Stream Mapping to Reduce Outpatient CT Scan Wait Times. Journal of the American College of Radiology, Volume 15, Issue 1, 82-85.

#### **BOOKS, MONOGRAPHS, CHAPTERS**

1. Neuroradiology Cases (Cases in Radiology). Eskey CJ, <u>Belden CJ</u>, Pastel DA, Vassough A, Yoo AJ. Oxford University Press, 2012.

#### **ABSTRACTS**

- 1. <u>Belden CJ</u>, Hamed L, Tart R "Radiology of Nystagmus," CD-ROM Supplement to Radiographics, 14:691, 1994
- 2. Huda W, <u>Belden CJ</u>, Williams J, "Imaging Performance versus film optical density," Medical Physics, September, 1994

#### NATIONAL PRESENTATIONS

- 1. Manjunath, <u>Belden CJ</u>, Lepow, "Sepsis in Infants Under Two Months of Age," presented at NY Academy of Pediatrics, May, 1988.
- 2. Smoot, <u>Belden CJ</u>, and Catalano, "Amblyopia and Anisometropia," presented at Academy of Research in Vision and Ophthalmology, May, 1990.

- 3. Qu, Huda, <u>Belden CJ</u>, "Subjective vs. Objective Assessment of Radiographic Image Quality," presented at the American Association of Physics in Medicine, July, 1994.
- 4. Huda, <u>Belden CJ</u>, Williams, "Imaging Performance versus film optical density," presented to the Canadian Society of Medical Physics, September, 1994.
- 5. <u>Belden CJ</u>, Mukherji, Mancuso, Castillo, "CT imaging of the normal development of the nasal cavity and paranasal cavity in children under two years of age" presented at RSNA, November, 1994.
- 6. <u>Belden CJ</u>, "Report from the ACR," presented at the AUR, April, 1995.
- 7. <u>Belden CJ</u>, Brogden Panel Member, "Downsizing resident responsibilities." Presented at AUR, April, 1995.
- 8. Huda, Sloane, <u>Belden CJ</u>, Williams, Cumming, Palmer, "Radiographic Mottle in Pediatric Chest Examinations using Computed Radiography." presented at the American Roentgen Ray Society, May, 1995.
- 9. Huda, <u>Belden CJ</u>, Webb, Palmer, "Visibility of tubes and catheters in portable ICU chest examinations with computed radiography." presented at the Canadian Association of Radiologists, June, 1995.
- 10. <u>Belden CJ</u>, Huda, Webb, Palmer, "Visibility of tubes and catheters in portable ICU chest examinations with computed radiography," presented at RSNA, November, 1995.
- 11. <u>Belden CJ</u>, Kotzur, Mancuso, Mukherji. "The Nasal Cavity and Choana: Normal CT Appearance and Development in Children Under 2 Years of Age." presented at American Society of Head and Neck Radiology, April, 1996.
- 12. <u>Belden CJ</u>, Kotzur, Mancuso, Mukherji. "The Anterior Skull Base: Normal CT Appearance and Development in Children Under 2 Years of Age." presented at American Society of Head and Neck Radiology, April, 1996.
- 13. <u>Belden CJ</u>, Mancuso, Kotzur. "Anterior Nasal Cavity Stenosis." presented at American Society of Head and Neck Radiology, May, 1997.
- 14. Bryan, Soliyappan, Eckel, <u>Belden CJ</u>, Kashima. "Virtual Imaging of the Head and Neck." presented at the International Congress of Head and Neck Radiology, October, 1997.
- 15. Soliyappan, Bryan, <u>Belden CJ</u>, Eckel, Kashima. "Interactive 3D Reconstruction and Volumetric Visualization Using Conventional Rotational Fluoroscopic Systems." presented as Hot Topic, RSNA, November, 1997.
- 16. <u>Belden CJ</u>, Weg, Minor, Zinreich. "CT Evaluation of Bony Dehiscence of the Superior Semicircular Canal as a Cause of Sound- and/or Pressure-Induced Vertigo." Presented, Radiologic Society of North America, November 1998.

- 17. York, <u>Belden CJ</u>. "The effect of diet on 1H-Spectroscopy." Presented at the American Society of Neuroradiology, April 27, 2001.
- 18. <u>Belden CJ</u>, Weg, Minor, Zinreich. "Utility of 0.5mm CT images for the diagnosis of the superior canal dehiscence syndrome." Presented at the American Society of Neuroradiology, April 23, 2001.
- 19. Pongnapang, Clarke, Rubal, Lane, <u>Belden CJ</u>. "Methods for Determining Myocardial Blood Volume & Flow using Contrast-Enhanced MRI." Presented at AAPM, 2001.
- 20. Mukherji S, Toledano A, <u>Belden C</u>, et al. "Interobserver Reliability of CT-Derived Primary Tumor Volume Measurement In Patients With Supraglottic Carcinoma." Presented RSNA 2004.
- 21. Penc SF, Gillen RW, <u>Belden CJ</u>, and Zimmerman EA. "Unusual Presentation of Sporadic Creutzfeldt-Jakob Disease: Visual Field Cut and Long Duration." Presented American Neurologic Association, 2006.
- 22. Sanders GP, Linley S, Ramsey DS, Abbott R, Puzas JE, Glennon JC, DiRisio DJ, <u>Belden C</u>, Ledet EH. The Effects of Chronic Cyclic and Static Loading on the Rabbit Lumbar Spine: An In Vivo Pilot Study. Submitted to the 55th Annual Meeting of the Orthopaedic Research Society. Las Vegas, NV. February 22-25, 2009.
- 23. Pastel DA, Farley EP, <u>Belden CJ</u>, Smith S, Padmanabhan V. Intraosseous Sacral Meningioma. Presented at the American Society of Neuroradiology, May 20, 2010.
- 24. Rauschkolb P, Smith S, <u>Belden CJ</u>, Lallana E, Fadul C. Pre-Contrast MRI T1 Hyperintensities in Patients with recurrent glioblastoma treated with Bevacizumab. Society of Neurooncology, November 18-21, 2010.
- 25. Ravi V, Smith S, <u>Belden CJ</u>. 50 cc Contrast Protocol for CTA of Head and Neck. ASNR, June 6, 2011.
- 26. Ravi V, <u>Belden CJ</u>. Superior Cervical Ganglion: Hiding in Plain Sight. ASNR, June 7, 2011.
- 27. Andoh HM, Balkman J, Cheung YY, <u>Belden CJ</u>. Use of Semi-Automated Time-Driven Activity-Based Cost Analysis to Track the Technical Cost of Performing Imaging Studies. ASNR, April 25, 2012.
- 28. Bhattacharya A, Fenerty S, Awan OA, Belden CJ, Hershey B, Cohen G, Jonnalagadda P, Ling S and Ali, S. 2015 Amtrak Philadelphia Train Derailment: A Review of Temple University Hospital's Emergency Radiology Response. AUR, 2017
- 29. Bhattacharya A, Fenerty S, Awan OA, Belden CJ, Hershey B, Cohen G, Jonnalagadda P, Ling S and Ali, S. Radiologic Patterns of Injuries seen at a Large Tertiary Care Institution Following the 2015 Amtrak Philadelphia Train Derailment. AUR, 2017

- 30. Belden CJ and Freeman SL. Impact of a Single Vendor Relationship: Temple University Health System Experience. ACR Annual Meeting, 2017.
- 31. Belden CJ, Cobb R, Dako F, Zink R, Verdi S and Grygorenko M. Unit Cost per Unit Modeling to Drive Improved Performance in a Multiple Hospital System. ACR Annual Meeting, 2017.
- 32. Cobb R, Grygorenko M, Verdi S, Belden CJ and Patel T. Improving Modality Inefficiencies with Value Stream Mapping. ACR Annual Meeting, 2017.
- 33. Cobb R, Verdi S, Grygorenko M, Zink R, Patel T, Parsons R and Belden CJ. Decreasing Equipment Cost through Improvement of Computed Tomography Machine Utilization. ACR Annual Meeting, 2017.
- 34. Cobb R, Verdi S, Grygorenko M, Zink R, Patel T, and Belden CJ. Computed Tomography Technologist Staffing Model Analysis as a Measure to Decrease Cost. ACR Annual Meeting, 2017.

#### **EDUCATIONAL EXHIBITS**

- 1. Belden CJ, Hamed L, Tart R "Radiology of Nystagmus," scientific exhibit RSNA, 1993 (Cum laude award winner)
- 2. <u>Belden CJ</u>, Abbitt, Beadles "Color Doppler Ultrasound Evaluation of the Orbit," scientific exhibit at RSNA, 1993 (**Certificate of Merit recipient**)
- 3. <u>Belden CJ</u>, Bush, Ros P, "Eye on Radiology: Oculoskeletal Associations," scientific exhibit RSNA, 1993
- 4. Carruthers, <u>Belden CJ</u>, Spanier, "Radiologic-Pathologic Correlation of Osteosarcoma," scientific exhibit RSNA, 1994
- 5. <u>Belden C</u>, Breiter S, Burger P, Fisher. "Neoplasms of the Cerebral Cortex: Current Concepts and Radiologic-Pathologic Correlation," scientific exhibit, ASNR, 1997 (**Summa cum laude award winner**)
- 6. <u>Belden C</u>, Minor L, Weg N, Zinreich S. "CT Evaluation of Bone Dehiscence of the Superior Semicircular Canal as a Cause of Sound- and/or Pressure-Induced Vertigo," scientific exhibit, Radiologic Society of North America, November 1999
- 7. Chacko A, Radvany M, Williams J, <u>Belden C</u>, et al. InfoRad Exhibit. Radiologic Society of North America, November 1999
- 8. <u>Belden C</u>, York G et al. "We've bought the spectroscopy package: Now what?" RSNA, 2001

- 9. Hellwitz F, Vinh P, <u>Belden C</u>, et al. Computer Animation of the Embryologic Development of the Peritoneal and Extraperitoneal Spaces with Correlation to CT Imaging of Pathologic Processes. RSNA 2003 (**Certificate of Merit award winner**)
- 10. <u>Belden C</u>, Friedlich D, Cohen B, Boulos A, Bernadini G. Cerebrovascular CT Angiography and Perfusion. RSNA 2003
- 11. Cochiolo J, Emrich J, Koeppen A, Schenk J, Zimmerman E, <u>Belden C</u>. Therapeutic Targeting of Deep Brain Nuclei: Overview of Anatomy and Function. RSNA 2003
- 12. Mecca M, <u>Belden C</u>, Domenico L. CT Perfusion: How We Do It- A Step-by-Step Tutorial on the Performance, Image Processing, and Interpretation of Brain Perfusion Examinations. RSNA 2004
- 13. Auerbach KL, <u>Belden C</u>, Amruthur KS. Review of Cavernous Sinus Anatomy with 64 Slice Multidetector Row CTA Images and MRI/Diagrammatic Correlation. RSNA 2007
- 14. Pilika A, <u>Belden CJ</u>. Cardiac MR Evaluation of Adult Patients with Tetralogy of Fallot: What the Clinician Needs to Know. Presented, RSNA 2008
- 15. <u>Belden CJ</u>, Pastel DA, Gosselin BJ, Paydarfar JA, Black CC. Hypopharynx: Detailed Imaging Anatomy with Clinical and Pathologic Correlation. Exhibited at American Society of Neuroradiology, May 16-21, 2009. (**Summa Cum Laude award winner**)
- 16. <u>Belden CJ</u>, Pastel DA, Gosselin BJ, Paydarfar JA, Black CC. Hypopharynx: Patterns of Cancer Spread. Exhibited at American Society of Neuroradiology, May 16-21, 2009. (Magna Cum Laude award winner)
- 17. Pastel DA, Ravi V, <u>Belden CJ</u>, Gosselin B et al. Oral Cavity: Detailed Imaging Anatomy with Clinical and Pathologic Correlation. Exhibited at the American Society of Neuroradiology, May 15-20, 2010
- 18. Ravi V, Pastel DA, <u>Belden CJ</u>, Gosselin B et al. Oral Cavity Cancer: A Review of Patterns of Spread. Exhibited at the American Society of Neuroradiology, May 15-20, 2010
- 19. <u>Belden CJ</u>, Valdes PA, Ran C, et al. Genetics of Glioblastoma Multiforme: A Window into Its Imaging and Histopathologic Variability. Exhibited at Radiologic Society of North America, November 28-December 3, 2010. (Magna Cum Laude award winner)
- 20. Whitson W, Samarage H, Jobst B, <u>Belden C</u>, Roberts DW, Fadul C: A comparison of the clinical course of incidental and symptomatic low-grade gliomas. (E-Poster) Annual Meeting, American Association of Neurological Surgeons, Denver, CO, April 9-13, 2011.
- 21. Guerin S, Jordaan M, Filiano J, <u>Belden CJ</u>. Patterns of Polymicrogyria Related to Variable Pathophysiology. Exhibited at the American Society of Neuroradiology, June 4-7, 2011.

- 22. Pastel DA, <u>Belden CJ</u>, Guerin S, Durham S. Congenital Disorders of the Spine: An Embryologic Approach. Exhibited at the American Society of Neuroradiology, June 4-7, 2011.
- 23. <u>Belden CJ</u>, Andoh H, Pastel DA. Molecular and Genetic Basis of Head and Neck Cancer. Exhibited at ASNR 2012, New York, NY, April 23-26, 2012.
- 24. Lee NN, Pastel DA, Stensby JD, <u>Belden CJ</u>, Guerin SG, Seltzer MA. PET/CT for Head and Neck Squamous Cell Carcinoma: Who, When and Watch Out. Exhibited at ASNR 2012, New York, NY, April 23-26, 2012.
- 25. Bahl M, <u>Belden CJ</u>, Hum BA, Pastel DA. Hypoxic-Ischemic Encephalopathy: Review of Excitotoxic Mechanisms of Injury with Neuroimaging Correlation. Exhibited at ASNR 2012, New York, NY, April 23-26, 2012.