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06 JAN 2016

EDUCATION:

College:	University of Virginia Charlottesville, Virginia	9/1966 - 6/1969	B.A. Biology
Medical School:	West Virginia University School of Medicine Morgantown, West Virginia	9/1969-5/1973	M.D.

POSTGRADUATE TRAINING:

Internship:	University of Cincinnati Medical Center Cincinnati General Hospital Cincinnati, Ohio	6/1973 – 6/1974	Internal Medicine
Residency:	University of Kentucky Medical Center Lexington, Kentucky	7/1974 – 6/1977	Diagnostic Radiology
	Armed Forces Institute of Pathology AFIP Washington, DC	3/1976 - 4/1976	Radiologic Pathology
Fellowship:	Massachusetts General Hospital Harvard Medical School Boston, Massachusetts	6/1977 - 8/1978	Neuroradiology

STATE MEDICAL LICENSES:

Alabama	Massachusetts	Pennsylvania
Florida	Mississippi	Tennessee
Georgia	North Carolina	Texas
Kentucky	Oklahoma	West Virginia
South Carolina		

HONORS AND POSITIONS:

American Society of Neuroradiology (ASNR)	Senior Member 1981
Southeastern Neuroradiological Society	President 1986-1987
Southeastern Radiology Associates (SERA)	President 1994-1995

PRACTICE:

Presbyterian Hospital Charlotte, North Carolina	9/78-12/89	Senior Partner
Duke University Medical Center Durham, North Carolina	1/90-4/91	Acting Head Neuroradiology
Radiology Associates of Birmingham Birmingham, Alabama	4/91-6/97	Senior Partner
Virtual Radiology Nashville, Tennessee	7/97-12/98	Senior Partner
Radiology Associates of Dallas Dallas, Texas	1/99-5/99	Senior Partner
Indian River Radiology Vero Beach, Florida	5/99-Present	Senior Partner

BOARD CERTIFICATION:

American Board of Radiology Certificate of Added Qualifications Re-Certified	Diagnostic Radiology Neuroradiology CAQ	June 11, 1977 November 5, 1995 June 14, 2004 March 4, 2013
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SCIENTIFIC SOCIETIES/PROFESSIONAL MEMBERSHIPS:

American Society of Head and Neck Radiology
American College of Radiology
American College of Radiology, Florida Chapter
American Society of Neuroradiology
American Society of Spine Radiology
Indian River County Medical Society
Medical Association of the State of Florida
Radiological Society of North America
Southeastern Neuroradiology Society

PUBLICATIONS:

1. **Hatten HP Jr**, Chuang VP, Rosenbaum HD: When is biopsy necessary in pelvic lipomatosis? *Urology* 9: 333-336, March, 1977.
2. **Hatten HP Jr.**, Mostowycz L, Hagihara PF: Retrograde prolapse of the ileocecal valve. *American Journal of Roentgenology* 128: 755-757, March, 1977.
3. **Hatten HP Jr**, Lorman JG, Rosenbaum HD: Pulmonary sling in the adult. *American Journal of Roentgenology* 128: 919-921, June, 1977.
4. Ropper AH, **Hatten HP Jr**, Davis KR: Computed tomography in Wilson disease: report of two cases. *Annals of Neurology* 5: 102-103, January, 1979.
5. Roberson GH, **Hatten HP Jr**, Hesselink JH: Epidurography: selective catheter technique and review of 53 cases. *American Journal of Roentgenology* 132: 787-793, May, 1979.
6. **Hatten HP Jr**, Kim EE, DeLand FH, Jameson MD: Acute hemiplegia of childhood. *ACTA Radiological Diagnosis* 20: 273-281, 1979.
7. **Hatten HP Jr**, Davis KR, Adair L, Taveras JM: Compression and obliteration of cortical sulci: a CT sign of convexity mass effect. *Applied Radiology* 8: 66-68, May-June 1979.
8. **Hatten HP Jr**, Guest commentation-lumbar epidurography. *Practical Reviews in Roentgenology*, Volume 5, June, 1979.
9. Werthammer JW, **Hatten HP Jr**, Blake WB Jr: Upper thoracic extralobular pulmonary sequestration presenting with respiratory distress in a newborn. *Pediatric Radiology* 9: 116-177, 1980.
10. **Hatten HP Jr**: Metrizamide lumbar epidurography with Seldinger technique through the sacral notch and selective nerve root injection. *Neuroradiology* 19: 19-25, 1980.
11. Clark WM, **Hatten HP Jr**: Ultrasonographic features of pelvic lipomatosis. *Urologic Radiology* 1: 183-186, 1980.
12. **Hatten HP Jr**: Lumbar epidurography with metrizamide: review of 65 cases employing a pure Seldinger technique with caudal approach through the sacral notch and selective nerve root sheath injection. *Radiology* 137: 129-136, October, 1980.

PUBLICATIONS:

13. Clark WM, **Hatten HP Jr**: Noninvasive screening of extracranial carotid disease: duplex sonography with angiographic correlation. *American Journal of Neuroradiology* 2: 443-447, September-October, 1981.
14. **Hatten HP Jr**: Routine arch aortography in the angiographic evaluation of patients with cerebrovascular disease. *Postgraduate Radiology* 1: 327-333, October, 1981.
15. **Hatten HP Jr**, Walker ME, Covington MC: Range highlight facility within region of interest for air-CT cisternography and canalography. *Radiologic Technology* 54: 353-367, September-October, 1982.
16. **Hatten HP Jr**: Routine cervical myelography with overhead oblique projections and Pantopaque. *Spine* 7: 512-514, September-October, 1982.
17. Robertson HJ, **Hatten HP Jr**, Keating JW: False-positive CT gas cisternogram. *American Journal of Neuroradiology* 4: 474-477, May-June, 1983.
18. Kirk WS Jr, **Hatten HP Jr**: Disc derangements of the temporomandibular joint; definitive diagnosis with arthrography. *North Carolina Dental Gazette*: 6-9, September-October, 1983.
19. **Hatten HP Jr**: Lumbar epidurography. In: Shapiro R. *Myelography*. Chicago: New York Medical Publishers, Inc., 1984: 628-636.
20. Rhodes RE, Friedman HS, **Hatten HP Jr**, Hockenberger B, Oakes WJ, Tomita T: Contrast enhanced MR imaging of neurocutaneous melanosis. *American Journal of Neuroradiology* 12: 380-382, March-April, 1991.
21. Friedman HS, Touri SL, **Hatten HP Jr**, Hockenberger B, Vandersteenhoven JJ, Oakes WJ: Inflammatory lesion mimicking a metastatic ependymoma. *Neurosurgery* 29: 617-620, October, 1991.
22. **Hatten HP Jr**: Dysmyelinating leukodystrophies: "LACK Proper Myelin". *Pediatric Radiology* 21: 477-482, 1991.
23. Rhodes RE, **Hatten HP Jr**, Ellington KS: Walker-Warburg syndrome. *American Journal of Neuroradiology* 13: 123-126, January-February, 1992.
24. Young JN, Oakes WJ, **Hatten HP Jr**: Dorsal third ventricular cyst: an entity distinct from holoprosencephaly. *Journal of Neurosurgery* 77: 556-561, October, 1992.

PUBLICATIONS:

25. Strong JA, **Hatten HP Jr**, Brown MT, Debatin JR, Friedman HS, Oakes WJ, Tien R: Pilocytic astrocytoma: correlation between the initial imaging features and clinical aggressiveness. *American Journal of Roentgenology* 161: 369-372, August, 1993.
26. Schifter T, Hoffman JM, **Hatten HP Jr**, Hanson MW, Coleman RE, DeLong GR: Neuroimaging in infantile autism. *Journal of Child Neurology* 9: 155-161, April, 1994.
27. Rockey DC, Paulson E, Niedzwiedki D, Davis W, Bosworth HB, Sanders L, Yee J, Henderson J, **Hatten HP Jr**, et al. Analysis of air contrast barium enema, computed tomographic colonography, and colonoscopy: prospective comparison. *The Lancet* 365: 305-311, 22 January 2005.
28. **Hatten HP Jr**: Strong Bones. Building on Our Core Strengths, Our Diagnostic Imaging Center Launched a New Revenue Center Around Treatment of Osteoporosis. *Imaging Economics* 24:24-25, June 2011.
29. **Hatten HP Jr**, Voor MJ: Bone Healing Using a Bi- Phasic Ceramic Bone Substitute Demonstrated in Human Vertebroplasty and with Histology in a Rabbit Cancellous Bone Defect Model. *Interventional Neuroradiology* 18: 105-113, March 2012.
30. Bae H, **Hatten HP Jr**, et al: A Prospective Randomized FDA-IDE Trial Comparing Cortoss™ to PMMA for Vertebroplasty: A Comparative Effectiveness Research Study with 24-Months Follow-Up. *Spine* 37, Issue 7: 544-550, April 1, 2012.

PRESENTATIONS:

1. *Pulmonary sling in the adult.* Presented to the 61st Annual Meeting of the Radiological Society of North America (RSNA), McCormick Place, Chicago, Illinois. 30 November - 5 December 1975.
2. *Retrograde prolapse of the ileocecal valve.* Presented to the Second Annual Homecoming Symposium of the Department of Diagnostic Radiology, University of Kentucky Medical Center, Lexington, Kentucky. 5-6 November 1976.
3. *Acute hemiplegia of childhood.* Presented to the Spring Meeting of the Kentucky Chapter of the American College of Radiology, Berea, Kentucky. 30 October 1978.
4. *Epidurography.* Presented to the Second Annual Meeting of the Southeastern Neuroradiological Society, Kiawah Island, Charleston, South Carolina. 12-14 October 1978.
5. *Epidurography: selective catheter technique and review of 53 cases.* Presented to the 79th Annual Meeting of the American Roentgen Ray Society, Toronto, Ontario, Canada. 26-30 March 1979.
6. *Technique of Amipaque epidurography.* Presented to the 17th Annual Meeting of the American Society of Neuroradiology, Toronto, Ontario, Canada. 20-24 May 1979.
7. *Lumbar epidurography.* Presented as Guest Commentator for Practical Reviews in Roentgenology: Volume 5, June 1979.
8. *Epidurography.* Presented to the Annual Meeting of the North Carolina Chapter of the American College of Radiology, Charlotte, North Carolina. 1-2 March 1980.
9. *Routine arch aortography in the angiographic evaluation of patients with cerebrovascular disease.* Presented to the 4th Annual Meeting of the Southeastern Neuroradiological Society, The Greenbriar, White Sulphur Springs, West Virginia. 15-19 October 1980.
10. *Noninvasive screening of extracranial carotid disease: duplex ultrasound with angiographic correlation.* Presented to the 19th Annual Meeting of the American Society of Neuroradiology, Chicago, Illinois. 5-9 April 1981.
11. *Noninvasive screening of extracranial carotid disease: duplex ultrasound with angiographic correlation.* Presented to the 14th Annual Conference of Radiology in Otolaryngology and Ophthalmology sponsored by the American Society of Head and Neck Radiology, Century Plaza Hotel, Los Angeles, California. 28-31 May 1981.

PRESENTATIONS:

12. *Analog intra-venous angiography with conventional angiography equipment, conventional film screen systems, and first order subtraction technique.* Presented to the 67th Annual Meeting of the Radiologic Society of North America, Chicago, Illinois, 15-20 November 1981.
13. *Venous Angiography.* Presented to the 6th Annual Meeting of the Southeastern Neuroradiological Society, The Cloister, Sea Island, Georgia. 27-30 May 1982.
14. *CNS inflammatory processes and white matter diseases.* Presented to Duke Radiology Review Course, Sheraton Imperial Hotel, Research Triangle Park, North Carolina. 7-11 April 1991.
15. *Fatal and/or aggressive pilocytic astrocytomas.* Presented to the 15th Annual Meeting of the Southeastern Neuroradiologic Society, Kingsmill Resort and Conference Center, Williamsburg, Virginia. 2-5 October 1991.
16. *Network Organization.* Presented to the 1st Annual Network Symposium, The Brown Palace, Denver, Colorado. 17-18 September 1994.
17. *Horizontal vs. vertical integration.* Presented to the 2nd Annual National Network Symposium, The Brown Palace, Denver, Colorado. 21-22 October 1995.
18. *Market-based positioning under managed care.* Presented to the American Hospital Association-Refocusing the Image of Radiology Services, Sheraton Crescent Hotel, Phoenix, Arizona. 22 February 1996.
19. *Survival strategies in the '90's.* Presented as a round table discussion at the 82nd Annual Meeting of the Radiologic Society of North America (RSNA), McCormick Place, Chicago, Illinois. 30 November - 6 December 1996. Round table discussion published in *Diagnostic Imaging* 19: 29-47, March 1997.
20. *Consolidation in radiology: shelter from the storm?* Presented to the Diagnostic Imaging Healthcare Conference '97, Grand Hyatt on Union Square, San Francisco, California. 28-30 April 1997.
21. *Consolidation and integration of radiology-prospering under managed care.* Presented to the International Business Communications Group Conference, The Adolphus Hotel, Dallas, Texas. 18-19 September 1997.

PRESENTATIONS:

22. *Vertebroplasty in a Small U.S. Town; Clinical Experience, Evolution of Practice and Future Direction.* Poster Presentation. Presented to XXX Annual Congress of European Society of Neuroradiology (ESNR), Hotel Fira Palace, Barcelona, Spain. 15-18 September 2005.
23. *A Preliminary Evaluation of the Efficacy of a Reduced Volume Bowel Cleansing Preparation for Same Day Virtual Colonoscopy (VC) and Conventional Colonoscopy (CC).* Presented to the 6th International Symposium on Virtual Colonoscopy, Fairmont Copley Plaza Hotel, Boston, Massachusetts. 17-18 October 2005.
24. *Prospective Randomized Trial of CORTOSS Versus PMMA in the Treatment of Vertebral Compression Fractures.* Presented to the 2006 Annual Symposium of American Society of Spine Radiology (ASSR), The Venetian Resort, Hotel, Casino, Las Vegas, Nevada. 23-26 February 2006.
25. *Vertebral Augmentation with CORTOSS (Cortoplasty) for the Treatment of Vertebral Compression Fractures.* Presented to the XXXI Annual Congress of European Society of Neuroradiology (ESNR), Hotel President Wilson, Geneva, Switzerland. 13-16 September 2006.
26. *Prospective Randomized Trial of CORTOSS Versus PMMA in the Treatment of Vertebral Compression Fractures: Preliminary Results at a Single Institution.* Presented to the 92nd Annual Meeting of the Radiological Society of North America (RSNA), McCormick Place, Chicago, Illinois. 26 November through 01 December 2006.
27. *Percutaneous Treatment of Insufficiency Fractures.* Presented as e-poster to the 92nd Annual Meeting of the Radiological Society of North America (RSNA), McCormick Place, Chicago, Illinois. 28 November through 01 December 2006.
28. *Cortoplasty - Treatment of Vertebral Compression Fractures with CORTOSS for Vertebral Augmentation: Preliminary Results of Prospective Randomized Trial.* Presented to the 2007 Annual Symposium of American Society of Spine Radiology (ASSR), Marco Island Marriott Resort, Marco Island, Florida. 22-25 February 2007.
29. *Treatment of Vertebral Compression Fractures with CORTOSS: Preliminary Results of Prospective Randomized Clinical Trial.* Presented to 32nd Annual Meeting of the Society of Interventional Radiology (SIR), Washington State Convention Center, Seattle, Washington. 01-06 March 2007.

PRESENTATIONS:

30. *Cortoplasty – Using CORTOSS for the Treatment of Osteoporotic Vertebral Compression Fractures, Randomized Clinical Trial at a Single Institution.* Poster Presentation. Presented to the 7th International Symposium on Osteoporosis, Marriott Wardman Park Hotel, Washington, DC. 18-22- April 2007.
31. *Cortoplasty for Treatment of Vertebral Compression Fractures – Vertebral Augmentation with CORTOSS, Preliminary Results of Prospective Randomized Clinical Trials.* Presented to Global Symposium of Motion Preservation Technology (SAS7), Hotel Maritim Berlin, Berlin, Germany. 01-04 May 2007.
32. *Cortoplasty – Treatment of Osteoporotic VCF with CORTOSS: Preliminary Biomechanical Considerations from the First Prospective, Randomized Clinical Trial at a Single Institution.* Presented to the 45th Annual Meeting of the American Society of Neuroradiology (ASNR), Hyatt Regency Hotel, Chicago, Illinois. 09-14 June 2007.
33. *Prospective Randomized Clinical Trial of 57 Patients Treated at a Single Institution: Preliminary Results Comparing Vertebroplasty with CORTOSS Bone Augmentation Material & PMMA.* Presented to 31st Annual Meeting of the Southeastern Neuroradiological Society (SENRS), The Westin at Our Lucaya Beach & Golf Resort, Freeport, Grand Bahamas. 25-27 October 2007.
34. *Vertebroplasty with CORTOSS & PMMA: Results of Fifty-Seven (57) Patients Involved in a Prospective Clinical Trial – Effect of Biomechanical & Flow Characteristics on Fill Volume.* Presented to 93rd Annual Meeting of the Radiological Society of North America (RSNA), McCormick Place, Chicago, Illinois. 25–30 November 2007.
35. *Bioceramic Vertebral Augmentation: A Biological Alternative for the Treatment of Vertebral Compression.* Presented to 32nd Annual Meeting of the Southeastern Neuroradiological Society (SENRS), The Mansion on Forsyth Park, Savannah, Georgia. 23-25 October 2008.
36. *Clinical Efficacy of CERAMENT, a Bi-Phasic Bone Substitute for the Treatment of Vertebral Compression Fractures: Early Clinical Results and Technique.* Presented to 2009 Annual Symposium of the American Society of Spine Radiology (ASSR), Disney’s Contemporary Resort, Lake Buena Vista, Florida. 19-22 February 2009.
37. *The Biomechanical and Clinical Efficacy of CERAMENT, a Bi-Phasic Bone Substitute for the Treatment of Vertebral Compression Fractures:* Presented to the 34th Annual Scientific Meeting of the Society of Interventional Radiology (SIR), San Diego Convention Center, San Diego, California, 07-12 March 2009.

PRESENTATIONS:

38. *Percutaneous Delivery of a Bi-Phasic Bone Substitute for the Treatment of Vertebral Compression Fractures: Early Clinical Results.* Poster Presentation. Presented to the 8th International Symposium on Osteoporosis, Marriott Wardman Park Hotel, Washington, DC. 01-05 April 2009.
39. *Clinical Efficacy of a Bi-Phasic Ceramic Bone Substitute for the Treatment of Vertebral Compression Fractures:* Presented to the 10th Congress of the World Federation of Interventional and Therapeutic Neuroradiology (WFITN), Montreal Convention Center, Montreal, Quebec, Canada, 29 June - 03 July 2009.
40. *A Bi-Phasic Ceramic Bone Substitute for the Treatment of Vertebral Compression Fractures: Early Clinical Results:* Presented to the 34th Annual Meeting of the European Society of Neuroradiology (ESNR), Hilton Hotel, Athens, Greece, 17-20 September 2009.
41. *Bone Healing with Cerament: The Way Forward in Vertebroplasty:* Presented to Rome Spine 2009, Hotel Ergife Centro Congressi, Rome, Italy, 02-03 December 2009.
42. *CERAMENT Vertebroplasty: Long Term Follow-Up and Results:* Presented to the 2010 Annual Symposium of the American Society of Spine Radiology (ASSR), Wynn Las Vegas Resort, Las Vegas, Nevada, 18-21 February 2010.
43. *Bone Healing with CERAMENT Vertebroplasty: Long Term Follow Up and Clinical Results:* Digital Poster Presented to European Congress of Radiology (ECR 2010), Vienna Convention Center, Vienna, Austria, 04-08 March 2010.
44. *Bone Healing in Vertebroplasty:* Poster Presentation. Presented to the 35th Annual Scientific Meeting of the Society of Interventional Radiology (SIR), Tampa Convention Center, Tampa, Florida, 13-18 March 2010.
45. *Bone Healing Using a Bi-Phasic Ceramic Bone Substitute Demonstrated in Human Vertebroplasty and Histology in a Rabbit Cancellous Bone Defect Model.* Presented to the 48th Annual Meeting of the American Society of Neuroradiology (ASNR), Hynes Convention Center, Boston, Massachusetts, 15-20 May 2010.

PRESENTATIONS:

46. *"Primary Care" Vertebroplasty Clinic in a Free-Standing, Radiologist Owned Diagnostic Imaging Center - Diagnosis, Treatment, Prevention, and Follow-Up of VCFs.* Presented to the XIX Symposium Neuroradiologicum, Bologna, Italy, 04-09 October 2010.

47. *Kyphoplasty & Vertebroplasty Paradigm Shift in USA Market – Opportunities for Spine Radiologists (Neuroradiologists, Interventional Neuroradiologists, Interventional Radiologists).* Presented to The 2011 Annual Symposium of American Society of Spine Radiology (ASSR), Edition Hotel, Waikiki Beach, Honolulu, Hawaii. 23-26 February 2011.

48. *Bone Healing Demonstrated in Human Vertebroplasty Using a Bi-Phasic Ceramic Bone Substitute with Supporting Histology in a Rabbit Cancellous Bone Defect Model.* presented to 36th Annual Meeting of the Society of Interventional Radiology (SIR), McCormick Place, Chicago, Illinois. 26-31 March 2011.

49. *Clinical Performance & Bone Healing Demonstrated in Human Vertebroplasty Using a Bi-Phasic Ceramic Bone Substitute with Supporting Histology in a Rabbit Cancellous Bone Defect Model.* Presented to 35th Annual Meeting of European Society of Neuroradiology (ESNR), Universiteit Antwerpen, Antwerp, Belgium. 22-25 September 2011.

50. *The Blazer Vertebral Augmentation System for Minimally Invasive Treatment of Spinal Compression Fractures.* Presented to the 2012 Annual Symposium of American Society of Spine Radiology (ASSR), Fontainebleau Miami Beach, Miami Beach, Florida. 16-19 February 2012.

51. *The Blazer Vertebral Augmentation System: a Novel Treatment for Vertebral Compression Fractures:* ePoster Presented to 50th Annual Meeting of American Society of Neuroradiology (ASNR), Hilton New York, New York, New York, 21-26 April 2012

PRESENTATIONS:

52. *Prospective Evaluation of the Blazer Vertebral Augmentation System for Minimally Invasive Treatment of Painful Vertebral Compression Fractures.* ePoster Presented to Cardiovascular Interventional Radiological Society of Europe (CIRSE) 2012, Centro de Congressos de Lisboa, Lisbon, Portugal, 15-19 September 2012.

53. *Pain Relief in VCF Patients after Treatment with a Novel Device: Study Results.* Submitted to Cardiovascular & Interventional Radiological Society of Europe (CIRSE) 2014, Scottish Exhibition & Conference Centre, Glasgow, Scotland, UK, 13-17 September 2014.

PRINCIPAL INVESTIGATOR - CLINICAL PROTOCOL STUDIES:

1. *An Open Label Clinical Study of the Safety and Efficacy of Iodinated Contrast Media in the Enhancement of Computed Tomography (CT)*. Sponsored by Mallinckrodt Pharmaceuticals, Inc. September, 1977 through November, 1977
2. *Amipaque: Phase 3 Protocol for Lumbar Epidurography*. Sponsored by the Sterling Winthrop Research Institute. May 1979 through September 1980.
3. *Duke University Medical Center Colon Imaging Study*. Sponsored by National Cancer Institute (NCI) and Duke University Medical Center. December 2000 through September 2003.
4. *A Preliminary Evaluation of the Efficacy of HalfLytely® and Bisacodyl Tablets Bowel Prep Kit For Bowel Cleansing Before Virtual Colonoscopy and Conventional Colonoscopy*. Sponsored by Braintree Laboratories, Inc. October 2004 through July 2005.
5. *A Randomized, Controlled Clinical Study to Evaluate the Safety and Effectiveness of Cortoss Synthetic Cortical Bone Void Filler in Vertebral Augmentation*. Sponsored by Orthovita, Inc. March 2005 through February 2007.
6. *USA Pilot Study – Cerament for Veterbroplasty*. Sponsored by Bone Support, Lund, Sweden, May, 2008 to July, 2009.
7. *Pain Relief in Vertebral Compression Fracture Patients After Treatment with a Novel Channel Creation Device*. Sponsored by Benvenue Medical, Inc. September 2011 to December 2012.