***CURRICULUM VITÆ***

**RICHARD CHARLES SEMELKA, MD, FRCPC**

**Personal Information:**

**Name:** Richard C. Semelka

**Home Address:** 3901 Jones Ferry Rd

Chapel Hill, NC 27516

**Home Tel:** (919) 969-8079

**US Citizenship** Dec 16, 2024. USCIS registration No.  A072 204 699

**Education:**

Research Associate, Magnetic Resonance May 1, 1990 – Oct 31, 1990

Research Group, Siemens, Erlangen

Clinical Research Fellowship in Body Aug 10, 1988 – Apr 30, 1990

Magnetic Resonance Imaging

Medical Center, University of California

at San Francisco, California

Fellowship in Body Computed Jan 1, 1988 – Jun 30, 1988

Tomography

St. Boniface General Hospital

Winnipeg, Canada

Radiology Residency Jun 1, 1984 – Jul 31, 1988

University of Manitoba

Internship, Surgical Mixed Jun 1, 1983 – Jul 30, 1984

University of Manitoba

Plastic Surgery clinical clerkship Feb 1, - Mar 31, 1982

Brisbane, Australia

Faculty of Medicine Sept 1, 1979 – Jun 30, 1983

University of Manitoba

Faculty of Science Sep 1, 1977 – Jun 30, 1979 University of Manitoba

**Professional Experience -- Employment History:**

Richard Semelka, MD. Consulting PLLC. Apr 2018 – present

Radiology, Research, Publication, Medicolegal,

Safety, Gadolinium Toxicity

Medical Clinic Dr Richard Semelka Sept 2021 - present

Strategic Imaging. Teleradiology group Jan 2019 – Dec 2020

Integrative Medical Clinic of North Carolina Nov 2019 – Jul 2021

Docpanel. Teleradiology group Apr 2018 – present

Medical Day Spa of Chapel Hill Dec 2018 – Apr 2020

Vice Chairman of Quality and Safety Dec 1, 2007 – 2016

Department of Radiology

University of North Carolina at Chapel Hill

Vice Chairman of Clinical Research Jul 1, 1999 – Apr 30, 2011

Department of Radiology

University of North Carolina at Chapel Hill

Professor Jul 1, 1999 – 2017

Department of Radiology

University of North Carolina at Chapel Hill

Director Dec 1, 1992 – 2017

Magnetic Resonance Services

University of North Carolina at Chapel Hill

Associate Professor Dec 1, 1992 – Jun 30, 1999

Department of Radiology

University of North Carolina at Chapel Hill

MRI Research Coordinator Nov 1, 1990 - Nov 30, 1992

St. Boniface Research Foundation

Assistant Professor Nov 1, 1990 - Nov 30, 1992

Department of Radiology

University of Manitoba

Attending Radiologist in Body Magnetic Jul 1, 1989 - Apr 30, 1990

Resonance Imaging Section of the

Radiology Department, Medical

Centre, University of California

at San Francisco

Clinical Instructor in Genito-Urinary Jan 1, 1989 - Apr 30, 1990

Section of the Radiology Department,

Medical Center, University of California

at San Francisco

**Certification/Licensure:**

Iowa State Medical License.

License No. MD-47735. Aug 17, 2020

New York Medical License.

License number 301494. Oct 4, 2019

North Carolina State Medical License Feb 1, 1993

Diplomate of the American Board of Jun 1, 1989

Radiology

Fellow of the Royal College of Jun 1, 1988

Physicians and Surgeons of Canada

in Diagnostic Radiology

California State Medical License May 1, 1988

License Medical Council of Canada Jun 1, 1983

**Honors & Awards:**

“HASTE MR imaging: description of technique and preliminary results in the abdomen” **Semelka RC**, Kelekis NL, Thomasson D, Brown MA, Laub GA. J1996 Jul-Aug;6(4):698-9 - recognition as among the top 25 papers in the 25 years of JMRI.

ISMRM 24th Annual Meeting & Exhibition • Singapore • 7 -13 May 2016

Honorary Fellowship Oct 2007

Kodak Carestream Professor Oct 2007

Imaging X-rays Cause Cancer: A Call to Action Aug 2006

for Caregivers and Patients

(The 5th most read article for 2006)  
  
Radiation Risk From CT Scans: A Call for Jan 2005

Patient-Focused Imaging  
(The fourth most read article of 2005)

Fellow of the International Society of Magnetic Apr 2001

Resonance in Medicine

First Place University of Manitoba Dec 1984

Resident Lecture Competition

CT Appearance of Hepatic Parenchymal

Disease

FLEX Examination Jun 1983

Dean's Honor List 1978 - 1979

Faculty of Science

St. John's College Alumni Association 1978 - 1979

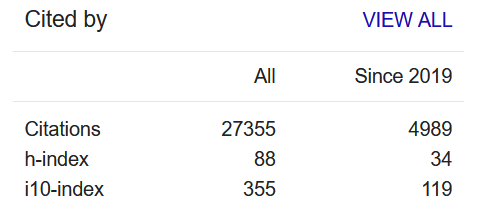
Scholarship for Academic Achievement

Dean's Honor List 1977 - 1978

Faculty of Science

**Bibliography and Products of Scholarship**

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**Text Books**

1. **Semelka RC,** Brown MA, Altun E. Abdominal-Pelvic MRI, 4th Edition. Wiley-Blackwell 2016
2. Dale BM, Brown MA, **Semelka RC.** MRI: Basic Principles and Applications 5th Edition. Wiley Blackwell, 2015
3. Altun E, El-Azzazi M, **Semelka RC**. Liver Imaging: MRI with CT Correlation. Wiley-Blackwell; 1st edition 2015
4. Birchard KR, Busireddy K, **Semelka RC**. Critical Observations in Radiology for Medical Students. Wiley Blackwell, Hoboken, NJ, 2015
5. Brown MA, Ojeda-Fournier H, Djilas D, El-Azzazi M, **Semelka RC**. Women's Imaging: MRI with Multimodality Correlation. Wiley Blackwell, Hoboken, NJ, 2014
6. Tomei E, **Semelka RC**, Nissman D. Text-Atlas of Skeletal Age Determination: MRI of the Hand and Wrist in Children. Wiley-Blackwell Hoboken, NJ, February 2014.
7. Tomei E, Battisti S, Martino M, Nissman DB, **Semelka RC**. MRI of the Hand and Wrist in Children. Wiley Blackwell, Hoboken, NJ, 2014
8. Elias J Jr, **Semelka RC**. Health Care Reform in Radiology. Wiley-Blackwell. Hoboken, NJ, 2013
9. **Semelka RC**. Abdominal-Pelvic MRI, 2 volume set, Third Edition. Wiley-Blackwell. New Jersey, 2010
10. Brown MA, **Semelka RC**. MRI Basic Principles and Applications. Fourth Edition. Wiley-Liss. New York, 2010.
11. **Semelka RC.** Clyde Jones Penguins, Giraffes and Other Critters His Joyous Vision. Lulu Press, Inc., 2010
12. Martin DR, Brown MA, **Semelka RC**. Primer on MR Imaging of the Abdomen and Pelvis. Wiley-Liss. New York, 2005.
13. **Semelka RC**. Abdominal-Pelvic MRI Second Edition. John Wiley & Sons, Inc. New Jersey, 2005.
14. Brown MA, **Semelka RC**. MRI Basic Principles and Applications. Third Edition. Wiley-Liss. New York, 2003.
15. **Semelka RC.** Abdominal-Pelvic MRI. John Wiley & Sons, Inc. New Jersey, 2002.
16. Brown MA, **Semelka RC**. MRI Basic Principles and Applications. Second Edition. Wiley-Liss. New York, 1999.
17. Brown MA, **Semelka RC**. MRI Basic Principles and Applications. Wiley-Liss. New York, 1995.

**Book Chapters**

1. Castro Pereira JF, Ramalho M, Velloni F and **Semelka R**. Pancreas. In: Magnetic Resonance Imaging. Editor: Luca Saba. 2024, Taylor & Francis
2. Matos AP, Velloni FG, AlObaidy M, Pinetti RZ, **Semelka RC**, Ramalho M. MR of Maternal Chest Diseases in Pregnancy. In: MRI of Fetal and Maternal Diseases in Pregnancy. Editor: Gabriele Masselli. 2016. Springer International Publishing Switzerland
3. Velloni F, Altun E, Ramalho M, **Semelka RC**. Pancreas. In: Magnetic Resonance Imaging Handbook. Editor: Luca Saba. End of 2015, Taylor & Francis
4. Heredia V, Ramalho M, Duarte S and **Semelka** RC. Magnetic Resonance Imaging Of Pulmonary Embolism: A Review Of Technical And Clinical Aspects. In: Pulmonary Embolism: Causes, Symptoms and Treatment, Editors: Nicole J. Wright and Andrew Smith. Nova Science Publishers, Inc. Hauppauge, NY, USA, 2012. Chapter 4.
5. Ramalho R, Guimarães L, Herédia V, Ramalho F and **Semelka RC**. Complementary procedures to capsule enteroscopy: non-endoscopic imaging studies. Cross Sectional Imaging Of The Small Bowel. In: Juan Manuel Herrerias, Miguel Mascarenhas-Saraiva eds. Atlas of Capsule Endoscopy 2. Sulime 2012. Chapter 4, pp.353-372
6. Herédia V, Ramalho M, Duarte S, de Campos ROP, Jalles Tavares N and **Semelka RC**. Magnetic Resonance Imaging of the Thoracic Aorta: A Review of Technical and Clinical Aspects, Including Its Use in the Evaluation of Aneurysms and Acute Vascular Conditions. In: Reinhart Grundmann ed. Diagnosis and Treatment of Abdominal and Thoracic Aortic Aneurysms Including the Ascending Aorta and the Aortic Arch. InTech, 2011. Chapter 8, pp. 101-126
7. Shin SS, Lee CH, de Campos R, **Semelka RC**. Chapter 7 - MR imaging of the pancreas pp 82-110. In: Kamel, I.R. and Merkle, E.M. (eds.) (2011) Body MR Imaging at 3 Tesla.
8. Kim SH, Kim MJ, Kim HJ, De Campos ROP, **Semelka RC**. Stomach duodenum magnetic resonance tomography. Pages315-326. In: Abdominal Imaging. Springer-Verlag Berlin Heidelberg. 2013
9. de Campos ROP, Herédia V, Ramalho M, Altun E and **Semelka RC**. Application Of Gadolinium Based Contrast Agents In Abdominal Magnetic Resonance Imaging: Important Considerations. In: Caden C. Thompson, ed. Gadolinium: Compounds, Production and Applications, 2011 Nova Science Publishers, Inc. Chapter 6, pp 217-244
10. Ramalho, Heredia V, Ramalho F, **Semelka RC**. Crohn´s Disease: Why MRI? In: Juan Manuel Herrerias, Martin Brotman y Ralph Giannella, eds. Atlas on Crohn’s disease, Sulime, 2010. Chapter 5, pp58-70
11. Balci NC, Altun E, Hermann K, **Semelka RC**. Abdominal MRI. In: Reiser MF, Semmler W, Hrickak H, eds. Magnetic Resonance Tomography. Springer-Verlag, 2008. Chapter 6, pp.864-911
12. Brown MA, Noone TC, **Semelka RC**. The liver and biliary system: MRI. In: Shirkhoda A, ed. Variants and pitfalls in Body Imaging. Lippincott, Williams and Wilkins, Philadelphia, 2000. Chapter 9, pp 219-232.
13. Kelekis NL, **Semelka RC**. Magnetic resonance imaging of the pancreas. In: Evans SRT, Ascher SM, eds. Hepatobiliary and pancreatic surgery. Wiley-Liss, New York, 1998. Chapter 23, pp 465-488.
14. Kelekis NL, **Semelka RC**. Magnetic resonance imaging of the liver. In: Evans SRT, Ascher SM, eds. Hepatobiliary and pancreatic surgery. Wiley-Liss, New York, 1998. Chapter 18, pp 357-386.
15. Kelekis NL, **Semelka RC**. Magnetic resonance imaging of the gallbladder. In: Evans SRT, Ascher SM, eds. Hepatobiliary and pancreatic surgery. Wiley-Liss, New York, 1998. Chapter 4, pp 45-54.
16. Lee JKT, Willms AB, **Semelka RC**. Pelvis. In: Lee JKT, Sagel SS, Stanley RJ, Heiken JP. Computed Body Tomography with MRI Correlation. Lippincott-Raven, New York, NY, 1998. Chapter 20, pp 1209-1274.
17. Lee JKT, Hiken JN, **Semelka RC**. Retroperitoneum. In: Lee JKT, Sagel SS, Stanley RJ, Heiken JP. Computed Body Tomography with MRI Correlation. Lippincott-Raven, New York, NY, 1998. Chapter 17, pp 1209-1274.
18. Stanley RJ, **Semelka RC**. Pancreas. In: Lee JKT, Sagel SS, Stanley RJ, Heiken JP. Computed Body Tomography with MRI Correlation. Lippincott-Raven, New York, NY, 1998. Chapter 15, pp 873-960.
19. Memel DS, Balfe DM, **Semelka RC**. The Biliary Tract. In: Lee JKT, Sagel SS, Stanley RJ, Heiken JP. Computed Body Tomography with MRI Correlation. Lippincott-Raven, New York, NY, 1998 Chapter 13, pp 779-844.
20. Brown MA, **Semelka RC**, Borrello JA, Lee JKT. MRI: Basic Priniciples and Techniques. In: Lee JKT, Sagel SS, Stanley RJ, Heiken JP. Computed Body Tomography with MRI Correlation. Lippincott-Raven, New York, NY, 1998. Chapter 2, pp 69-106.
21. Brown ED, **Semelka RC**. Magnetic Resonance Imaging of the Urinary Tract. In: Diagnosis of Genitourinary Disease 2nd edition. Resnick MI, Older RA, eds. Thieme New York, NY 1997.
22. **Semelka RC**, Ascher SM, Reinhold C. MRI of the Abdomen and Pelvis a text-atlas. WILEY-LISS. New York, 1997
23. Ascher SM, **Semelka RC**. The gastrointestinal tract. In: Magnetic Resonance Imaging of the Body. Higgins CB, Hricak H, Helms CA, eds. Lippincott-Raven. Philadelphia, 1997. Chapter 27, pp 677-700.
24. Mitchell DG, **Semelka RC**. The pancreas and spleen. In: Magnetic Resonance Imaging of the Body. Higgins CB, Hricak H, Helms CA, eds. Lippincott-Raven. Philadelphia, 1997. Chapter 26, pp 639-676.
25. **Semelka RC**, Mitchell DG, Reinhold C. The liver and biliary system. In: Magnetic Resonance Imaging of the Body. Higgins CB, Hricak H, Helms CA, eds. Lippincott-Raven. Philadelphia, 1997. Chapter 25, pp 591-638.
26. Ascher SM, **Semelka RC,** Brown JJ. Pancreas, spleen, bowel and peritoneum. In: Clinical Magnetic Resonance Imaging. Edelman RR, Hesselink JR, Zlatkin MB, eds. WB Saunders. Philadelphia, 1996. Chapter 51, pp 1564-1611.
27. **Semelka RC,** Kettritz U, Brown ED. Kidneys, adrenal glands and retroperitoneum. In: Clinical Magnetic Resonance Imaging. Edelman RR, Hesselink JR, Zlatkin MB, eds. WB Saunders. Philadelphia, 1996. Chapter 50, pp 1513-1563.
28. **Semelka RC,** Mitchell DG. Liver and biliary system. In: Clinical Magnetic Resonance Imaging. Edelman RR, Hesselink JR, Zlatkin MB, eds. WB Saunders. Philadelphia, 1996. Chapter 49, pp 1466-1512.
29. Brown MA, **Semelka RC**. MRI Basic Principles and Applications. Wiley-Liss. New York, 1995.
30. Brown ED, **Semelka RC**. Contrast-enhanced magnetic resonance imaging of the extrahepatic abdomen. Current Review of MRI. First Edition. Javier Beltran, MD, ed. Current Medicine. Churchill Livingstone, Philadelphia, PA 1995. Chapter 23, pp 294-317.
31. **Semelka RC**, Shoenut JP. MRI of the Abdomen with CT Correlation. Raven Press. New York, 1993.
32. **Semelka RC,** Wagner S, Buser P, Higgins CB. Cine Imaging of the Heart. In: Magnetic Resonance of the Cardiovascular System. Eds: R. Underwood, D. Firmin. Blackwell Scientific Publications Ltd. Oxford, 1991.

**In Refereed Journals:**

1. Ramalho J, Ramalho M, **Semelka RC**. Gadolinium Elimination in a Gadolinium Deposition Disease Population After a Single Exposure to Gadolinium-Based Contrast Agents. Invest Radiol. 2024 Dec 5. doi: 10.1097/RLI.0000000000001146. Epub ahead of print. PMID: 39637356.
2. **Semelka RC**, Ramalho M. Near-cure in patients with Gadolinium deposition disease undergoing intravenous DTPA chelation. Front Toxicol. 2024 Jul 25;6:1371131. doi: 10.3389/ftox.2024.1371131. Retraction in: Front Toxicol. 2024 Nov 25;6:1528757.
3. **Semelka RC**, Ramalho M. Mesenteric Panniculitis: A comprehensive review of imaging, clinical associations, and treatment approaches. *Gastroenterol Hepatol Open Access*. 2024;15(5):147-149
4. **Semelka RC**, Ramalho M. Redefining acute acalculous cholecystitis: insights into its systemic inflammatory implications. *Gastroenterol Hepatol Open Access*. 2024;15(3):51‒52.
5. **Semelka RC**, Ramalho M. Abnormal enhancement of the diseased upper digestive tract shown on MRI. *Int J Radiol Radiat Ther*. 2024;11(5):137-140.
6. **Semelka RC**, Ramalho M. Splanchnic inflammatory syndrome and the not-so-silent risk of cancer. Gastroenterol Hepatol Open Access. 2024;15(2):63‒64.
7. **Semelka** **RC**, Elias Jr J,Castro Pereira J, Ramalho M. Hepatic Steatosis: Additional Findings in the Splanchnic System on Magnetic Resonance Imaging Gastroenterol Hepatol Open Access. 2024;15(1):3‒9.
8. **Semelka RC**, Ramalho M. Splanchnic Inflammatory System – Expert Opinion. *Int J Gastroenterol Liver Dis.* 2023;3(2):1‒3
9. **Semelka RC**, Ramalho M. Gadolinium Deposition Disease: Current State of Knowledge and Expert Opinion. *Invest Radiol.* 2023 Aug 1;58(8):523-529.
10. **Semelka RC**, Ramalho M. Commentary on the Association of Symptoms Associated With Gadolinium Exposure/Gadolinium Deposition Disease and Gadolinium-Based Contrast Agents. *Invest Radiol*. 2022 Oct 1;57(10):674-676.
11. Maecker HT, Siebert JC, Rosenberg-Hasson Y, Koran LM, Ramalho M, **Semelka RC**. Dynamic Serial Cytokine Measurements During Intravenous Ca-DTPA Chelation in Gadolinium Deposition Disease and Gadolinium Storage Condition: A Pilot Study. *Invest Radiol.* 2022 Jan 1;57(1):71-76.
12. Maecker HT, Siebert JC, Rosenberg-Hasson Y, Koran LM, Ramalho M, **Semelka RC**. Acute Chelation Therapy-Associated Changes in Urine Gadolinium, Self-reported Flare Severity, and Serum Cytokines in Gadolinium Deposition Disease. *Invest Radiol.* 2021 Jun 1;56(6):374-384.
13. **Semelka RC**, Ramalho M. Physician-sufferers with self-diagnosed Gadolinium Deposition Disease: Series Report. *Radiol Bras*. 2021 Jul-Aug;54(4):238-242
14. Ramalho J, **Semelka RC**, Cruz J, Morais T, Ramalho M. T1 Signal Intensity of the Dentate Nucleus after administration of a Macrocyclic Gadolinium-based Contrast Agent Gadoterate Meglumine: An Observational Study. *Radiologia* (Engl Ed). 2022 Sep-Oct;64(5):397-406. Epub 2022 Jun 2.
15. Maecker H, Wang W, Rosemberg-Hasson Y, **Semelka RC**, Hickey J, Koran LM. An Initial Investigation of Serum Cytokine Levels in Patients with Gadolinium Retention. *Radiol Bras*. 2020 Sep-Oct;53(5):306-313.
16. Mervak BM, Altun E, McGinty KA, Hyslop WB, **Semelka RC**, Burke LM. MRI in pregnancy: Indications and practical considerations*. J Magn Reson Imaging*. 2019 Mar;49(3):621-631.
17. **Semelka RC**, Prybylski JP, Ramalho M. Influence of excess ligand on Nephrogenic Systemic Fibrosis associated with nonionic, linear gadolinium-based contrast agents. *Magn Reson Imaging*. 2019 May; 58:174-178
18. **Semelka RC**, Nimojan N, Chandana S, Ramalho M, Palmer SL, DeMulder D, Parada Villavicencio C, Woosley J, Garon BL, Jha RC, Miller FH, Altun E. MRI features of primary rare malignancies of the liver: A report from four university centres. *Eur Radiol.* 2018 Apr;28(4):1529-1539.
19. **Semelka RC**, Ramalho M, Jay M, Hickey L, Hickey J. Intravenous Calcium-/Zinc-Diethylene Triamine Penta-Acetic Acid in Patients with Presumed Gadolinium Deposition Disease: A Preliminary Report on 25 Patients. *Invest Radiol*. 2018 Jun;53(6):373-379.
20. Busireddy KK, Ramalho M, AlObaidy M, Matos AP, Burke LM, Dale BM, **Semelka RC**. Multiple focal nodular hyperplasia: MRI features. *Clin Imaging*. 2017 Nov 24;49:89-96.
21. Sofue K, Burke LMB, Nilmini V, Alagiyawanna M, Muir AJ, Choudhury KR, Jaffe TA, **Semelka RC**, Bashir MR. Liver imaging reporting and data system category 4 observations in MRI: Risk factors predicting upgrade to category 5. *J Magn Reson Imaging.* 2017 Sep;46(3):783-792.
22. Santucci D, Lee SS, Hartman H, Walgampaya S, AlObaidy M, Ramalho M, Dale BM, **Semelka RC**. Comparison of Cartesian and radial acquisition on short-tau inversion recovery (STIR) sequences in breast MRI. *Radiol Bras*. 2017 Jul-Aug;50(4):216-223.
23. Ramalho M, Ramalho J, Burke LM, **Semelka RC**. Gadolinium Retention and Toxicity-An Update. *Adv Chronic Kidney Dis.* 2017 May;24(3):138-146.
24. Ramalho M, Matos AP, AlObaidy M, Velloni F, Altun E, **Semelka RC**. Magnetic resonance imaging of the cirrhotic liver: diagnosis of hepatocellular carcinoma and evaluation of response to treatment - Part 2. *Radiol Bras.* 2017 Mar-Apr;50(2):115-125.
25. Ramalho M, Matos AP, AlObaidy M, Velloni F, Altun E, **Semelka RC**. Magnetic resonance imaging of the cirrhotic liver: diagnosis of hepatocellular carcinoma and evaluation of response to treatment - Part 1. *Radiol Bras.* 2017 Jan-Feb;50(1):38-47.
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27. Prybylski JP, **Semelka RC**, Jay M. The stability of gadolinium-based contrast agents in human serum: A reanalysis of literature data and association with clinical outcomes. *Magn Reson Imaging.* 2017 May; 38:145-151.
28. Commander CW, Johnson DC, Raynor MC, Burke LM, Hacker KE, Hoag B, Fielding JR, **Semelka RC**, Lee ER. Detection of Upper Tract Urothelial Malignancies by Computed Tomography Urography in Patients Referred for Hematuria at a Large Tertiary Referral Center. *Urology*. 2017 Apr; 102:31-37.
29. Ramalho J, Ramalho M, Jay M, Burke LM, **Semelka RC**. Gadolinium toxicity and treatment. *Magn Reson Imaging.* 2016 Dec;34(10):1394-1398.
30. Giardino A, Miller FH, Kalb B, Ramalho M, Martin DR, Rodacki K, Woosley JT, **Semelka RC**. Hepatic epithelioid hemangioendothelioma: a report from three university centers. *Radiol Bras.* 2016 Sep-Oct;49(5):288-294.
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Malignant uterine disease with concurrent myometrial contraction at MRI: a possible source of overstaging. *Radiol Bras.* 2016 Sep-Oct;49(5):342-343.

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2. **Semelka RC**, Ramalho M, Jay M. Summary of special issue on gadolinium bioeffects and toxicity with a look to the future. *Magn Reson Imaging.* 2016 Dec;34(10):1399-1401.
3. **Semelka RC**, Commander CW, Jay M, Burke LM, Ramalho M. Presumed Gadolinium Toxicity in Subjects with Normal Renal Function: A Report of 4 Cases. *Invest Radiol*. 2016 Oct;51(10):661-5.
4. **Semelka RC**, Ramalho J, Vakharia A, AlObaidy M, Burke LM, Jay M, Ramalho M. Gadolinium deposition disease: Initial description of a disease that has been around for a while. *Magn Reson Imaging.* 2016 Dec;34(10):1383-1390.
5. Prybylski JP, **Semelka RC**, Jay M. Can gadolinium be re-chelated in vivo? Considerations from decorporation therapy. *Magn Reson Imaging*. 2016 Dec;34(10):1391-1393.
6. Burke LM, Ramalho M, AlObaidy M, Chang E, Jay M, **Semelka RC**. Self-reported gadolinium toxicity: A survey of patients with chronic symptoms. *Magn Reson Imaging*. 2016 May 19;34(8):1078-1080.
7. Ramalho M, AlObaidy M, Matos AP, **Semelka RC**. Magnetic Resonance Imaging Diagnosis of Hepatocellular Carcinoma in Cirrhotic Patients: Where Are We Now? *Acta Med Port*. 2016 May;29(5):293-296.
8. Burke LM, Sofue K, Alagiyawanna M, Nilmini V, Muir AJ, Choudhury KR, **Semelka RC**, Bashir MR. Natural history of liver imaging reporting and data system category 4 nodules in MRI. *Abdom Radiol* (NY). 2016 Sep;41(9):1758-66.
9. Ramalho J, Ramalho M, AlObaidy M, Nunes RH, Castillo M, **Semelka RC**.

T1 Signal-Intensity Increase in the Dentate Nucleus after Multiple Exposures to Gadodiamide: Intraindividual Comparison between 2 Commonly Used Sequences. AJNR *Am J Neuroradiol*. 2016 Aug;37(8):1427-31.

1. AlObaidy M, Ramalho M, Velloni F, Matos AP, Herman K, **Semelka RC**.

Enhancement of abdominal structures on MRI at 1.5 and 3 T: a retrospective intraindividual crossover comparison. *Eur Radiol*. 2017 Apr;27(4):1596-1604

1. Matos AP, Jeon YH, Ramalho M, AlObaidy M, **Semelka RC**. Lobulated Margination of Liver Hemangiomas: Is This a Definitive Feature? *Clin Imaging*. 2016 Jul-Aug;40(4):801-5.
2. Huckle JE, Sadgrove MP, Leed MG, Yang YT, Mumper RJ, **Semelka RC**, Jay M. Synthesis and Physicochemical Characterization of a Diethyl Ester Prodrug of DTPA and Its Investigation as an Oral Decorporation Agent in Rats. AAPS J. 2016 Jul;18(4):972-80.
3. Ramalho M, Hithaya I, AlObaidy M, Kalubowila J, Jeon YH, Manikkavasakar S, **Semelka RC**. MRI Evaluation of Cooperative and Non-Cooperative Patients with Non-Traumatic Acute Abdominal Pain - Preliminary Observations. *Clin Imaging*. 2016 Jul-Aug;40(4):707-13.
4. **Semelka RC**, Ramalho M, AlObaidy M, Ramalho J. Gadolinium in Humans: A Family of Disorders. AJR *Am J Roentgenol*. 2016 Aug;207(2):229-33
5. Ramalho J, **Semelka RC**, Ramalho M, AlObaidy M, Nunes RH, Castillo M. Signal Intensity Increase in the Dentate Nucleus After Multiple Exposures to Gadodiamide: Intra-Individual Comparison Between Two Commonly Utilized Sequences. AJNR *Am J Neuroradiol*. 2016 Aug;37(8):1427-31
6. Matos AP, **Semelka RC**, Herédia V, AlObaidy M, Veloso Gomes F, Ramalho M. Modified Approach on the Characterization of Adrenal Nodules Using a Standard Abdominal MRI Protocol (Accepted - January 2016, Radiologia Brasileira)
7. Velloni F, Ramalho M, AlObaydi M, Matos AP, **Semelka RC**. Bone metastases of Hepatocellular Carcinoma - Appearance on Magnetic Resonance Imaging Using a Standard Abdominal Protocol. AJR *Am J Roentgenol*. 2016 May;206(5):1003-12.
8. **Semelka RC**, Busireddy KK, Burke LM, Ramalho M, Martí-Bonmatí L, Morana G, AlObaidy M, Elias J Jr. Radiologist income, receipts, and academic performance: an analysis of many nations. *Acta Radiol*. 2016 Feb 27. [Epub ahead of print]
9. Ramalho J, **Semelka RC**, Ramalho M, Nunes RH, AlObaidy M, Castillo M. Reply.

AJNR *Am J Neuroradiol*. 2016 May;37(5): E42.

1. Ramalho J, **Semelka RC**, AlObaidy M, Ramalho M, Nunes RH, Castillo M. Signal intensity change on unenhanced T1-weighted images in dentate nucleus following gadobenate dimeglumine in patients with and without previous multiple administrations of gadodiamide. *Eur Radiol*. 2016 Nov;26(11):4080-4088.
2. Ansari NA, Ramalho M, **Semelka RC**, Buonocore V, Gigli S, Maccioni F. Role of magnetic resonance imaging in the detection and characterization of solid pancreatic nodules: An update. *World J Radiol*. 2015 Nov 28;7(11):361-74.
3. AlObaidy M, **Ramalho M**, Busireddy KK, Dale BM, Burke LM, Altun E, Liu B, Semelka RC. Surrogate arterial phase imaging using a long duration (≈1.5 min) radial acquisition T1-weighted sequence: an alternative in patients unable to breath-hold. *Acta Radiol.* 2016 Aug;57(8):955-63
4. Ramalho J, **Semelka RC**, Ramalho M, Nunes RH, AlObaidy, Castillo M. Gadolinium-Based Contrast Agents Accumulation and Toxicity: An Update. AJNR *Am J Neuroradiol.* 2016 Jul;37(7):1192-8.

\*\* #1 - The 50 Most-Frequently Read Articles in AJNR Am J Neuroradiol during December 2015 thru November 2016 - updated monthly (<http://www.ajnr.org/reports/most-read>) \*\*

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40. Martin DR, **Semelka RC**. MR imaging of pancreatic masses*.* *Magn Reson Imaging Clin N Am* 2000; 8:787-812.
41. Calvo BF, **Semelka RC**. Beyond anatomy: MR imaging as a molecular diagnostic tool*.* *Surg Oncol Clin N Am* 1999; 8:171-183.
42. **Semelka RC**, Noone TC. The benefits of MRI in the evaluation of renal disease*.* *Contemporary Urology* 1998; 10:51-72.
43. **Semelka RC**, Sofka CM. Hepatic hemangiomas*.* *Magn Reson Imaging Clin N Am* 1997; 5:241-253.
44. Kelekis NL, **Semelka RC**. MR imaging of the gallbladder*.* *Top Magn Reson Imaging* 1996; 8:312-320.
45. Kettritz U, **Semelka RC**. Contrast-enhanced MR imaging of the pancreas*.* *Magn Reson Imaging Clin N Am* 1996; 4:87-100.
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47. Brown ED, **Semelka RC**. Magnetic resonance imaging of the spleen and pancreas*.* *Top Magn Reson Imaging* 1995; 7:82-89.
48. Brown ED, **Semelka RC**. Magnetic resonance imaging of the adrenal gland and kidney*.* *Top Magn Reson Imaging* 1995; 7:90-101.
49. Larson RE, **Semelka RC**. Magnetic resonance imaging of the liver*.* *Top Magn Reson Imaging* 1995; 7:71-81.
50. Kelekis NL, **Semelka RC**. New pulse sequences reduce artifacts and shorten exam times, improving MRI's competitiveness in evaluation of abdominal disease*.* *MR, the Newsmagazine of Magnetic Resonance* 1995; Winter Issue:22-32.
51. Kettritz U, Shoenut JP, **Semelka RC**. MR imaging of the gastrointestinal tract*.* *Magn Reson Imaging Clin N Am* 1995; 3:87-98.
52. Brown ED, **Semelka RC**. Liver Masses: Metastases*.* *Magnetic Resonance Update* 1994.
53. Brown ED, **Semelka RC**. Adrenal Masses: Metastases*.* *Magnetic Resonance Update* 1994.
54. Brown ED, **Semelka RC**. Bladder Cancer Staging*.* *Magnetic Resonance Update* 1994.
55. Brown ED, **Semelka RC**. Renal Masses*.* *Magnetic Resonance Update* 1994.
56. Brown ED, **Semelka RC**. Contrast-enhanced magnetic resonance imaging of the abdomen*.* *Magn Reson Q* 1994; 10:97-124.
57. Corrigan K, **Semelka RC**. The potential use of magnetic resonance imaging in detection of insulitis*.* *Diabetes Prevention and Therapy* 1993; 7:2-3.
58. **Semelka RC**, Shoenut JP. CT and MRI in the Investigation of Metastatic Disease to the Liver*.* *Current Imaging* 1991; 3:202-206.

**Abstracts (Peer Reviewed):**

1. **Semelka RC**. Keynote Address. Reactions to Contrast Agents in Radiology.

Presented at the Annual Meeting of the Radiological Society of North America, Chicago, Illinois November 2013.

1. **Semelka RC**. The Role of Liver Specific Contrast. Presented at the Annual Meeting of the Radiological Society of North America, Chicago, Illinois November 2011.
2. **Semelka RC**. Motion Resistant Techniques. Presented at the Annual Meeting of the Radiological Society of North America, Chicago, Illinois November 2011.
3. Heredia V, Ramalho M, Campos RO, Dale B, Azevedo R, Woosley J, **Semelka RC**. Liver vessel cancellation artifact on in-phase and out-of-phase MRI imaging: a sign of ultra-high liver fat content. Session title: Diffuse liver disease. Insights into Imaging. ESGAR 2011 Book of Abstracts / Volume 2 / Supplement 2 / May 2011, 41
4. Ramalho M, Heredia V, de Campos RO, Azevedo RM, Dale DM, **Semelka RC**. In-phase and out-of-phase gradient-echo imaging in abdominal studies: intra-individual comparison of three different techniques. Session Title: Advances in MRI and US in abdominal imaging Insights into Imaging. ECR 2011 Book of Abstracts / Volume 2 / Supplement 1 / March 2011, 139-140
5. Ramalho M, de Campos R, Heredia V, Azevedo R**, Semelka RC**. Comparison of three different in-phase and out-of-phase gradient-echo imaging techniques for the characterization of adrenal lesions at 1.5T: preliminary observations. Session Title: Renal MRI Insights into Imaging. ECR 2011 Book of Abstracts / Volume 2 / Supplement 1 / March 2011, 121
6. **Semelka RC.** Body MR Imaging: Current Practice and Future Horizons (How-to Workshop). Presented at the Annual Meeting of the Radiological Society of North America, Chicago, Illinois November 2009.
7. **Semelka RC.** Body MR Imaging: Current Practice and Future Horizons (How-to Workshop). Presented at the Annual Meeting of the Radiological Society of North America, Chicago, Illinois November 2008.
8. Heredia V, Altun E, **Semelka RC.** Qualitative and quantitative comparison of 3.0T and 1.5T MRI for the liver with chronic liver disease M. Ramalho, M. Tsurusaki, Session Title: Challenges in hepatobiliary diseases European Radiology Supplements. ECR 2008 Book of Abstracts / Volume 18/ Supplement 1 / February 2008, 142.
9. **Semelka RC**, Picano E, Vano E, and Regulla D. The American College of Radiology white paper on radiation dose in medicine: deep impact on the practice of cardiovascular imaging Cardiovascular Ultrasound 2007, 5:37 Oct 2007.
10. **Semelka RC**. Body MR Imaging: Current Practice and Future Horizons (How-to Workshop). Presented at the Annual Meeting of the Radiological Society of North America, Chicago, Illinois November 2007.
11. **Semelka RC**. MRI of Endocrine Tumors of the Abdomen. Presented at Joint Annual Meeting ISMRM-ESMRMB, Berlin, Germany, May 2007.
12. **Semelka RC**. MRI of Diffuse Liver Disease. Presented at Joint Annual Meeting ISMRM-ESMRMB, Berlin, Germany, May 2007.
13. **Semelka RC**. MRI of focal liver disease. Presented at Joint Annual Meeting ISMRM-ESMRMB, Berlin, Germany, May 2007.
14. **Semelka RC**. The Difficult Liver Lesion – Body MRI. Presented at Joint Annual Meeting ISMRM-ESMRMB, Berlin, Germany, May 2007.
15. **Semelka RC,** Leyendecker J. Gastrointestinal (MR: Miscellaneous, Liver). Presented at the Annual Meeting of the Radiological Society of North America, Chicago, Illinois November 2006.
16. **Semelka RC,** Martin D, Hussain S, Balci N. Body MR Imaging: Current Practice and Future Horizons (How-to Workshop). Presented at the Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 2006.
17. Kim JK, **Semelka RC,** Elias J Jr, Pamuklar E. [Gastrointestinal (Pancreatitis: CT, MR)](http://rsna2006.rsna.org/rsna2006/V2006/conference/event_display.cfm?id=66601&em_id=8002059) Focal Pancreatic Mass: Distinction between Pancreatic Cancer versus Chronic Pancreatitis Using Gadolinium Enhanced 3D-Gradient Echo MR Imaging. Presented at the Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 2006.
18. **Semelka RC,** Hussain S, Brown M. MR Imaging of the Abdomen and Pelvis: Only the Tough Cases ("How-to" Workshop). Presented at the Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 2005.
19. **Semelka RC**. Noncirrhotic Liver. Presented at the Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 2005.
20. Birchard K, **Semelka RC,** Hyslop W, Armao D, Brown A, Firat Z. Suspected Pancreatic Cancer: Evaluation by Gadolinium-enhanced 3D-Gradient Echo MRI. Presented at the Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 2004.
21. **Semelka RC,** Brown M, Hussain S. MR Imaging of the Abdomen and Pelvis: Only the Tough Cases ("How-to" Workshop). Presented at the Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 2004.
22. **Semelka RC**. Noncirrhotic Liver. Presented at the Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 2004.
23. Weeks S, Shrestha R, Gerber D, **Semelka RC**. Liver Transplantation: Imaging and Interventional Strategies ("How-to" Workshop). Presented at the Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 2003.
24. Shiels W, **Semelka RC**, Bureau N, et. al. Practical Answers for Complex Imaging Questions--Hands-on/How-to: Musculoskeletal Interventional Sonographic Procedures ("Hands-on" Workshop). Presented at the Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 2003.
25. Shiels W, **Semelka RC,** Debatin J, Johnson C. Practical Answers for Complex Imaging Questions--Hands-on/How-to: CT and MR Colonography ("How-to" Workshop). Presented at the Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 2003.
26. Kanematsu M, Kondo H, Goshima S, Kato H, Hoshi H, **Semelka RC.** Early-enhancing Pseudolesions with Gadolinium-enhanced MR Imaging of the Liver: Assessment of Frequency, Imaging Characteristics, Causes, and Significance in Correlation with Combined CT Hepatic Arteriography and CT during. Presented at the Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 2003.
27. Shiels W, **Semelka, RC,** Wong W, Mathis J. Practical Answers for Complex Imaging Questions--Hands-on/How-to: Common Spinal Injection Procedures for Diagnosis and Treatment of Back Pain ("How-to" Workshop). Presented at the Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 2003.
28. Shiels W, **Semelka, RC,** Wood B, Dupuy D, Wong W. Practical Answers for Complex Imaging Questions--Hands-on/How-to: Radiofrequency and Intraarterial Tumor Ablation ("How-to" Workshop). Presented at the Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 2003.
29. Lu D, **Semelka RC.** MRI of the Pancreas. Presented at the Annual Meeting of the American Roentgen Ray Society, Atlanta, GA, April 28-May 3, 2002.
30. HussainSM, **Semelka RC**, Marcos HB, Woosley JT. Perilesional enhancement in liver metastases: MR-pathologic correlation. Presented at the 1999 85th Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 28 – December 3, 1999.
31. Hussain SM, **Semelka RC**, Marcos HB, Woosley JT. Chronic hepatitis: correlation of enhancement patterns on dynamic gadolinium-enhanced MRI imaging and histopathology. Presented at the 1999 85th Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 28 – December 3, 1999.
32. Balci NC, **Semelka RC**, Op de Beeck B, Reinhold C. The 10-minute comprehensive abdominal MRI: comparison with a lengthier MR protocol. Presented at the 1998 Radiological Society of North America 84th Scientific Assembly and Annual Meeting, Chicago, Illinois, November 29 – December 4, 1998.
33. Noone TC, **Semelka RC**, Worawattanakul S, Marcos HB. Intraperitoneal abscesses: diagnostic accuracy and appearances on MR imaging. Presented at the 98th Annual Meeting of the American Roentgen Ray Society, San Francisco, California, April 26 – May 1, 1998.
34. Noone TC, **Semelka RC**, Chaney D, Reinhold C. Comparison of diagnostic accuracy of ultrasound, computed tomography, MR imaging in the same individual. Presented at the 98th Annual Meeting of the American Roentgen Ray Society, San Francisco, California, April 26 – May 1, 1998.
35. Noone TC, **Semelka RC**, Lee JKT, Worawattanakul S, Patt RH, Ascher SM. Sequential use of ferumoxide particles and gadolinium chelate for the evaluation of focal liver lesions on MR imaging. Presented at the 1997 Radiological Society of North America Eighty-third Scientific Assembly and Annual Meeting, Chicago, Illinois November 30- December 5, 1997.
36. O’Malley CM Jr, Ascher SM, Thomasson D, Rajan SS, **Semelka RC**, Zeman RK. Non-breath-hold versus breath-hold T2-weighted fast SE imaging of the uterus. Presented at the 1996 Radiological Society of North America Eighty-second Scientific Assembly and Annual Meeting, Chicago, Illinois December 1 - December 6, 1996.
37. Coche E, Reinhold C, Bret PM, Duguid W, Atri M, **Semelka RC.** MR appearance of pancreatic cystic tumors. Presented at the 1996 Radiological Society of North America Eighty-second Scientific Assembly and Annual Meeting, Chicago, Illinois December 1 - December 6, 1996.
38. Kelekis NL, **Semelka RC**, Jeon HJ, Sallah AS Shea TC, Woosely JT. Dark ring sign: MR appearance of necrotizing fungal granulomas in patients undergoing treatment with antifungal antibiotics. Presented at the Fourth Scientific Meeting of the International Society for Magnetic Resonance in Medicine, New York City, April 27 - May 3, 1996.
39. Thorp JM, Hyatt S, Brown ED, Kuller JA, **Semelka RC**. Anatomical changes in the pelvic floor after delivery: evaluation with serial magnetic resonance imaging. Presented at the Society for Gynecological investigation 43rd Annual Meeting, Philadelphia, Pennsylvania, March 1996.
40. Reinhold C, Hricak H, **Semelka RC,** Ascher SM, Forstner R, Bret PM. Primary Amenorrhea: Evaluation with MR Imaging. RSNA Meeting, Chicago, Illinois, November 1995.
41. Ramani M, Reinhold C, **Semelka RC,** Ascher AM, Liang L, Bret PM. MR Imaging Characteristics of Splenic Hemangiomas: A Review of 17 Lesions. RSNA Meeting, Chicago, Illinois, November 1995.
42. Kettritz UI, **Semelka RC,** Brown ED, Lawing WL, Colindres RE. MR Imaging Findings in Diffuse Renal Parenchymal Disease. RSNA Meeting, Chicago, Illinois, November 1995.
43. Kelekis NL, **Semelka RC,** DeLange EE, Bis KG, Ascher SM. Hepatocellular Carcinoma: A Multi-institutional Study of Appearance on T1-weighted, T2-weighted, and Serial Gadolinium-enhanced GRE MR Images - Work in Progress. RSNA Meeting, Chicago, Illinois, November 1995.
44. Reinhold C, Hricak H, Forstner R, Ascher S, Meyer WR, Bret PM, **Semelka RC**. Primary Amenorrhea: Evaluation with MR imaging. Meeting of SMR and ESMRMB, Nice France August 19-25, 1995.
45. Braeuning MP, Hemminger BM, **Semelka RC**, Pisano ED, Schiro S. Three-dimensional MR imaging of the breast. Presented at the Annual meeting of the American Roentgen Ray Society, Washington, DC, May 1995.
46. Agrawal R, Bis KG, Ascher SM, **Semelka RC,** Brown ED, Maximovich A. MR Imaging Spectrum of Pelvic Endometriosis with Laparoscopic Correlation. Radiological Society of North America. Scientific Exhibit. Chicago, IL. November 1994.
47. Kim B, **Semelka RC**, Ascher SM, Chaplin D, Carroll P, Hricak H: Bladder Cancer: Comparison of Contrast-Enhanced CT and T1, T2, Histopathological Correlation. Radiological Society of North America. Annual Meeting. Chicago, Illinois. November 28-December 3, 1993.
48. **Semelka RC**, Tomei E, Shoenut JP, Ascher SM, Magro CM, Kroeker MA, MacMahon R, Greenberg HM: Renal cancer: Comparison of contrast enhanced CT and gadolinium-enhanced fat suppressed spin echo and breath hold gradient echo MRI. European Society for Magnetic Resonance in Medicine and Biology. Annual Meeting. Rome, Italy. June 3-6, 1993.
49. Cumming M, **Semelka RC**, Shoenut PJ, Yaffe CS, Kroeker MA, Greenberg HM. Islet Cell Tumors: Prospective Comparison of Contrast-enhanced CT and Gd-DTPA-enhanced MR Imaging with FLASH and Fat-Suppression Techniques. Radiological Society of North America. Annual Meeting. Chicago, Illinois, November 29 - December 4, 1992.
50. Recht M, **Semelka RC**, Simm FC, Laub GA, Deimling M. Rapid Liver Imaging: A Comparison of Three Techniques. Society of Magnetic Resonance in Medicine. Annual Meeting. San Francisco, California. August 10-16, 1991.
51. Simm FC, **Semelka RC**, Recht M, Deimling M, Lenz G, Laub GA: Breathhold T2-weighted sequences of the Liver - A Comparison of Four Techniques at High Field Strength. Radiological Society of North America. Annual Meeting. Chicago, Illinois. November 25 - 30, 1990.
52. Auffermann W, Chew WM, Tavares NJ, **Semelka RC**, Parmley W, Higgins CB: Characterization of Cardiac Function and Metabolism in Human Dilated Cardiomyopathy Using Magnetic Resonance Imaging and Spectroscopy. Radiological Society of North America. Annual Meeting. Chicago, Illinois, November 26 December 1, 1989.
53. Tomei E, **Semelka RC**, Wagner S, Mayo J, Chatterjee K, Parmley WW, O'Sullivan M, Wolfe CL, Caputo G, Higgins CB: Assessment of Left Ventricular (LV) Mass in Sequential Studies by Cine MR. Radiological Society of North America. Annual Meeting. Chicago, Illinois, November 26 - December 1, 1989.
54. Wagner S, Chew WM, **Semelka RC**, Tomei E, Caputo G, O'Sullivan M, Chatterjee K, Parmley WW, Wolfe CL, Higgins CB: Integrative Analysis of Cardiac Function and Metabolism in Patients with Idiopathic Hypertrophic Cardiomyopathy with H-1 Cine MR Imaging and P-31 MR Spectroscopy. Radiological Society of North America. Annual Meeting. Chicago, Illinois, November 26 December 1, 1989.
55. Auffermann W, Chew W, Tavares NJ, Parmley WW, **Semelka RC**, Donnelly T, Chatterjee K, Wolfe C, Higgins CB: 31P MR Spectroscopy and Cine MR Imaging in Patients with Dilated Cardiomyopathy. Society of Magnetic Resonance in Medicine. Annual Meeting. Amsterdam, August 1989.

**Scientific Presentations - Papers (Peer Reviewed):**

1. AlObaidy M, Ramalho M, Busireddy KK, Dale BM, Altun E, Burke L, **Semelka RC**. Surrogate Arterial Phase Imaging Using Long-Duration Free-Breathing Fat- Suppressed Radial 3D Gradient-Recalled Echo Sequence: An Alternative Approach in Patients Unable to Breath-Hold. RSNA 100th, Chicago, USA, November 30 – December 5, 2014
2. Matos A, Ramalho M, Palas J, Herédia V, Veloso Gomes F, **Semelka RC**. Novel Approach on the Characterization of Adrenal Nodules Using Standard Abdominal MRI Protocol. RSNA 99th, Chicago, USA, December 1-6, 2013
3. Heredia V, Ramalho M, Campos RO, Dale B, Azevedo R, Woosley J, **Semelka RC**. Liver vessel cancellation artifact on in-phase and out-of-phase MRI imaging: a sign of ultra-high liver fat content. European Society of Gastrointestinal and Abdominal Radiology (ESGAR 2011), May 22, 2011, Venice, Italy
4. Ramalho M, Heredia V, de Campos ROP, Azevedo RM, Dale BM, **Semelka RC**. In-phase and out-of-phase gradient-echo imaging in abdominal studies: intra- individual comparison of three different techniques. 23rd European Congress of Radiology (ECR 2011), March 7, 2011, Vienna, Austria
5. Ramalho M, de Campos R, Heredia V, Azevedo R, **Semelka RC**. Comparison of three different in-phase and out-of-phase gradient-echo imaging techniques for the characterisation of adrenal lesions at 1.5T: preliminary observations. 23rd European Congress of Radiology (ECR 2011), March 6, 2011, Vienna, Austria
6. Ramalho M, Tsurusaki M, Heredia V, Altun E, **Semelka** **RC**. Qualitative and quantitative comparison of 3.0T and 1.5T MRI for the liver with chronic liver disease. 20th European Congress of Radiology (ECR 2008), March 2008, Vienna, Austria
7. **Semelka RC.** [Approach to Diagnosis of the Difficult Liver Lesion with MRI](http://cds.ismrm.org/protected/Presentations06/E11). ISRM Annual Meeting. Seattle, WA. May 2006.
8. **Semelka RC**. MRI Orthopedics, Abdomen, Arteriography-Current Best Use for Scans, MRI’s, etc. High Point, NC. February 2003.
9. **Semelka RC**. How to Perform Body MR. Society of Computed Body Tomography and Magnetic Resonance. Rochester, MN. March 2001.
10. **Semelka RC**. MR Imaging of the Liver. National Diagnostic Imaging Symposium. Lake Buena Vista, Florida. December 2001.
11. **Semelka RC**. MR Imaging of the Pancreas. National Diagnostic Imaging Symposium. Lake Buena Vista, Florida. December 2001.
12. **Semelka RC**. Liver Transplantation: Imaging and Interventional Strategies (“How-to Workshop). Radiological Society of North America 87th Annual Meeting, Chicago, Illinois. November 2001.
13. **Semelka RC**. Cross-Sectional Imaging of the Pancreas. American Roentgen Ray Society 101st Annual Scientific Meeting. Seattle, WA. April 2001.
14. **Semelka RC**. How to Perform Body MR (D). Society of Computed Body Tomography and Magnetic Resonance 24th Annual Course 2001. South Beach, FL. March 2001.
15. **Semelka RC**. Pancreatic Neoplasms: CT and MR. Radiological Society of North America 86th Annual Meeting, Chicago, Illinois. December 2000.
16. **Semelka RC**. Gastrointestinal MR: Focal Liver Masses. Radiological Society of North America. 86th Annual Meeting, Chicago, Illinois. December 2000.
17. **Semelka RC.**  Liver Transplantation: Imaging and Interventional Strategies (“How-to Workshop”). Radiological Society of North America. 86th Annual Meeting, Chicago, Illinois. November 2000.
18. **Semelka RC**. Gastrointestinal Keynote Speaker. Chicago, IL. December 1999.
19. Charnsangavej C and **Semelka RC**. Pancreatic Neoplasms: CT and MR. Chicago, IL. December 1999.
20. Kressel HY, **Semelka RC** and Hamm III BK. Abdominal MR Imaging: Myth versus Reality. Chicago, IL. December 1999.
21. Lee JKT, **Semelka RC**, Ropsky N, Heiken J, Baron R. Battle for Supremacy in Abdominal Imaging: Helical CT versus MR Imaging. Chicago, IL. December 1999.
22. **Semelka RC,** Techniques of Body MRI. St. Mary’s MRI Center. Richmond, Virginia. August 1999
23. **Semelka RC**, Manos H, Mauro M, Cance W. Comparison of current MR techniques and spiral CT arterial protography for detection of liver metastases in 20 patients with surgical proof. Annual Meeting European Congress of Radiology. Vienna, Austria. March 1999.
24. **Semelka RC.** MR Imaging of the Abdomen: Techniques and Image Interpretation. New Orleans, Louisiana. May 1999.
25. **Semelka RC.** MRI Contrast Agents: Educational Course. International Society of Magnetic Resonance in Medicine Annual Meeting, May 1999.
26. Charnsangavej C, **Semelka RC**. Pancreatic Neoplasms: CT and MR. RSNA Refresher Course. Radiological Society of North America. 84th Annual Meeting, Chicago, Illinois, November 29 – December 4, 1998.
27. Kressel HY, Hamm III BK, **Semelka RC**. Abdominal MR Imaging: Myth versus Reality. RSNA Refresher Course. Radiological Society of North America. 84th Annual Meeting, Chicago, Illinois. November 30 – December 5, 1997; November 29 – December 4, 1998.
28. **Semelka RC**, Ascher SM. MR imaging of the abdomen: techniques and image interpretation. ARRS Refresher Course. 98th Annual Meeting of the American Roentgen Ray Society. San Francisco, California. April 26 – May 1, 1998.
29. Charnsangavej C, **Semelka RC**. Pancreatic Neoplasms: CT and MR. RSNA Refresher Course. Radiological Society of North America. 83rd Annual Meeting. Chicago, Illinois, November 30 - December 5, 1997.
30. **Semelka RC**. MR Appearance of Focal Hepatic Lymphoma. European Congress of Radiology. March 2-7, 1997. Vienna, Austria.
31. **Semelka RC**. Focal Liver Lesion Detection and Characterization: Comparison of Single-Phase Spiral CT and MRI. European Congress of Radiology. March 2-7, 1997. Vienna, Austria.
32. **Semelka RC**, et al. Liver Lesion Detection and Characterization: Comparison of Single-Phase Spiral CT and Current MR Techniques. RSNA Refresher Course. Radiological Society of North America. 82nd Annual Meeting. Chicago, Illinois, December 1-6, 1996.
33. **Semelka RC**, Kelekis NL, Thomasson D, Brown MA, Laub GA. Abdominal MR imaging using the HASTE sequence. Presented at the Fourth Scientific Meeting of the International Society for Magnetic Resonance in Medicine, New York City, April 27 - May 3, 1996.
34. **Semelka RC,** Kelekis NL, Molina PL, Sharp T, Calvo B. Pancreatic Cancer Detection: Comparison of Spiral CT and MR Imaging by Using ROC Analysis. Radiological Society of North America, Chicago, Illinois, November 1995.
35. **Semelka RC**, Molina PL, Kelekis N, Sharp T, Calvo B. Pancreatic Cancer Detection: Comparison of Spiral CT and MRI Using ROC Analysis. Meeting of SMR and ESMRMB, Nice France August 19-25, 1995.
36. **Semelka RC**, Loud PA, Kettritz U, Brown JJ, Reinhold C. MR Imaging in Acute Cholecystitis. Meeting of SMR and ESMRMB, Nice France August 19-25, 1995.
37. **Semelka RC**, Kettritz U, Isaacs K, Warshauer DM. Chrohn's Disease: Comparison of Gadolinium-Enhanced Fat Suppressed MRI with Clinical Evaluation. Meeting of SMR and ESMRMB, Nice France August 19-25, 1995.
38. **Semelka RC**, Schlund JF, Kettritz U, Weeks SB, Kahlenberg M, Cance WG. Correlation of perfusion abnormalities on CT and immediate post intravenous gadolinium enhanced gradient echo MRI. European Congress of Radiology, Vienna, Austria, March 1995.
39. **Semelka RC**, Kettritz U, Schlund JF, Wilbur K, Eisenberg LB. Comparison of gadolinium chelates with manganese-DPDP for liver lesion detection and characterization. European Congress of Radiology, Vienna, Austria, March 1995.
40. **Semelka RC,** Schlund JF, Molina PL, Willms AB, Kahlenberg M, Mauro MA, Weeks SM, Cance WG. Liver Lesions: Comparison of CT arterial portography and MR imaging with T2-fat-saturated and gadolinium-enhanced sinusoid-phase FLASH for detection, cost and effect on patient care. Radiological Society of North America. Chicago, IL, November 1994.
41. **Semelka RC**, Brown ED, Ascher SM, Patt RH, Bagley AS, Wei L, Edelman RR, Shoenut JP and Brown JJ. Hepatic Hemangiomas: A Multi-Institutional Study Examining Appearances on T2-weighted Images and Serial Post-Gadolinium Gradient-Echo Images. Society of Magnetic Resonance. San Francisco, California. August 7-12, 1994.
42. **Semelka RC**, Larson RE, Bagley AS, Molina PL, Brown ED and Lee JKT. Malignant Hypervascular Liver Lesions: Comparison of Td-Enhanced Sinusoid Phase FLASH, T2FS and Nonequilibrium Phase FLASH and CT, and Characterization by Serial Post-Gd FLASH. Society of Magnetic Resonance Imaging. San Francisco, California, August 7-12, 1994.
43. **Semelka RC**, Shoenut JP, Magro CM, Silverman R, Yaffe CS, Micflikier AB:

Inflammatory Bowel Disease: Comparison of Endoscopy and MR Imaging in Assessment of the Type and Severity of Disease at Initial Presentation. Radiological Society of North America. Annual Meeting. Chicago, Illinois November 28 - December 3, 1993.

1. **Semelka RC**, Shoenut JP, Ascher SM, Kroeker MA, Micflikier AB. Solitary liver

metastasis: comparison of dynamic contrast enhanced CT and MRI using T2 fat sat spin echo, FLASH and dynamic gadolinium enhanced FLASH. European Congress of Radiology Annual Meeting, Vienna, Austria, September 12-17, 1993.

1. **Semelka RC**, Shoenut JP, Magro CM, Silverman R, Yaffe CS, Micflikier AB: Inflammatory Bowel Disease: Comparison of Magnetic Resonance Imaging and Endoscopy in Distinguishing type and Severity of Disease. Society of Magnetic Resonance in Medicine. Annual Meeting. New York, NY, August 14-20, 1993.
2. **Semelka RC**, Shoenut JP, Silverman R, Yaffe CS, Micflikier AB: Inflammatory Bowel Disease: Correlation of Gadolinium-enhanced Fat-Suppression MR Imaging and Endoscopy/Surgery. Radiological Society of North America. Annual Meeting. Chicago, Illinois, November 29 -December 4, 1992.
3. **Semelka RC**, Shoenut JP, Lawrence PH, Greenberg HM, Maycher B, Madden TP, Kroeker MA: Adrenal Masses: Comparison of Unenhanced and Gadolinium-enhanced Breath-Hold and Fat-Suppression MR Imaging and Contrast-enhanced CT. Radiological Society of North America. Annual Meeting. Chicago, Illinois, November 29 - December 4, 1992.
4. **Semelka RC**. MR of the Abdomen and Pelvis. Society of Magnetic Resonance in Medicine. Annual Meeting (Advanced MRI Educational Program), August 8-14, 1992, Berlin, Germany.
5. **Semelka RC,** Shoenut JP, Wilson M, Pellech AE, Patton JN: Cardiac masses: MRI signal intensity features on spin echo, gradient echo, and Gd-DTPA enhanced spin echo and TurboFLASH images. 1992 Annual Meeting of the American Roentgen Ray Society, May 10-15, 1992, Orlando, Florida.
6. **Semelka RC**. Recent advances in cardiac MRI: fast imaging and 3D display. International symposium on magnetic resonance imaging and spectroscopy. St. Boniface Hospital Research Centre. Winnipeg, Manitoba, May 8-9, 1992.
7. **Semelka RC.** Abdominal MRI: State of the Art. International symposium on magnetic resonance imaging and spectroscopy. St. Boniface Hospital Research Centre. Winnipeg, Manitoba, May 8-9, 1992.
8. **Semelka RC**, Shoenut JP, Kroeker MA, Kroeker R, Micflikier AB, Silverman R, Yaffe CS: Bowel Disease: Comparison between Intravenous Gd-DTPA-enhanced Fat-suppressed MR Imaging and CT.
9. **Semelka RC**, Shoenut JP, Kroeker MA, Greenberg HM, Simm FC, Minuk GY, Micflikier AB, Kroeker R: Imaging Liver Disease: Prospective Comparison of 1.5T MRI with T2-weighted Fat Suppression, FLASH, and Dynamic Gd-DTPA enhanced FLASH versus Dynamic Contrast-enhanced CT. Radiological Society of North America. Annual Meeting. Chicago, Illinois, December 1-6, 1991.
10. **Semelka RC,** Shoenut JP, Kroeker MA, Madden TP, Kroeker R, Greenberg HM, Micflikier AB, MacMahon R: Renal Masses: Prospective Comparison of Fat Suppression and Pre- and Post-Gd-DTPA FLASH MR Imaging with Contrast-enhanced CT. Radiological Society of North America. Annual Meeting. Chicago, Illinois, December 1-6, 1991.
11. **Semelka RC,** Maycher B, Shoenut JP, Kroeker R, Griffin P, Lertzman M: Single-Breath Whole-Thorax Gd-DTPA-enhanced MR Imaging of Pulmonary Nodules and Interstitial Disease: Comparison with CT. Radiological Society of North America. Annual Meeting. Chicago, Illinois, December 1-6, 1991.
12. **Semelka RC**, Kroeker M, Shoenut JP, Simm FC, Greenberg HM, Micflikier AB. Liver Lesions: Comparison of CT and T2-Weighted Fat-Suppression, Breath-Hold FLASH and Dynamic Gd-DTPA-Enhanced FLASH at 1.5T MRI. European Congress of Radiology. Annual Meeting. Vienna, Austria. September 15-20, 1991.
13. **Semelka RC**, Kroeker M, Shoenut JP, Yaffe CS, Micflikier AB. Optimized Strategies for High Field MRI of the Pancreas: Incorporating Breath-Hold FLASH, Gd-DTPA Enhancement, and Fat Suppression. Society of Magnetic Resonance in Medicine. Annual Meeting. San Francisco, California, August 10-16, 1991.
14. **Semelka RC**, Kroeker M, Shoenut JP, Simm FC, Greenberg HM, Micflikier AB. MRI of the Liver: T2-Weighted Fat Suppression, Breath-Hold FLASH and Dynamic Gd-DTPA Enhanced FLASH at 1.5T with Comparison to CT. Society of Magnetic Resonance in Medicine. Annual Meeting. San Francisco, California, August 10-16, 1991.
15. **Semelka RC**, Hricak H, Stevens SK, Tomei E, Carroll PR: Renal Masses: Detection and Characterization with Combined Fat Saturation and Gd-DTPA-Enhanced MR Imaging. Annual Meeting. Chicago, Illinois, November 25-30, 1990.
16. **Semelka RC**, Simm FC, Recht M, Deimling M, Lenz G, Secht H, Laub GA. Strategies for Optimized MRI of the Pancreas at High Field. Radiological Society of North America. Annual Meeting. Chicago, Illinois, November 25-30, 1990.
17. **Semelka RC**, Simm FC, Recht M, Deimling M, Lenz G, Laub GA: T1-weighted Sequences of the Liver - A Comparison of Three Techniques for Single Breath Whole Volume Acquisition at High Field Strength. Radiological Society of North America. Annual Meeting. Chicago, Illinois. November 25 - 30, 1990.
18. **Semelka RC**, Hricak H, Tomei E, Floth A, Stoller M: Dynamic Gd-DTPA Enhanced MR Imaging to Distinguish Dilated Nonobstructed, Acutely and Chronically Obstructed Kidneys. The Radiological Society of North America. Annual Meeting. Chicago, Illinois. November 26 - December 1, 1989.
19. **Semelka RC**, Chew WM, Hricak H, Higgins CB: Improved MR Imaging in the Upper Abdomen with Fat Saturation Imaging Technique. The Radiological Society of North America. Annual Meeting. Chicago, Illinois, November 26-December 1, 1989.
20. **Semelka RC**, Tomei E, Wagner S, Mayo J, Kondo C, Caputo G, Higgins CB: Reproducibility of Cardiac Measurements by Cine MR in Normal Volunteers Between Sequential Studies. Association of University Radiologists Annual Meeting. Seattle, Washington, May 1989.
21. **Semelka RC**, MacEwan DW: Diagnosis of Colon Cancer, Quo Vadis. Canadian Association of Radiologists. Annual Meeting, Ottawa, June 1985

**Book Reviews**:

Compos Z, Narumi Y, Hricak H. Pocket Atlas of MRI of the Pelvis, Raven Press, New York, 1992; 127 pp. *Investigative Radiology*, 1994; 29:261.

Mitchell DG. Stark DD. Hepatobiliary MRI: A Text-Atlas at Mid and High Field. Mosby Yearbook, St. Louis 1992; 304 pp. *Investigative Radiology*, 1994; 29:261.

Higgins CB, Hricak H, Helms CA. Magnetic Resonance Imaging of the Body (2nd edition). Raven Press. New York, 1993 for *Investigative Radiology*.

**Partial List of Former Scholars Trained in Body MRI**

Ute Kettritz, MD

Associate Professor of Radiology

Charrite University

Berlin, Germany

Nikolaos Kelekis, MD

Associate Professor and Vice Chair

Department of Radiology

University of Athens

Athens, Greece

N. Cem Balci, MD

Associate Professor

Department of Radiology

St. Louis University

St. Louis, Missouri

Alexander B. Lukiancheko, MD, PhD. DSc

Professor and Head MRI

Department of Radiology

Cancer Research Center

Moscow, Russia

Nadia Gourova, MD

Professor and Head of Division of Digital Radiology, Mammography, CT, MRI

President’s Medical Center

Moscow, Russia

Shinichi Hasegawa, MD

Associate Professor

Department of Radiology

Hamamatsu Medical Center

Hamamatsu, Japan

Shahid M. Hussain, MD

Professor and Head Abdominal Imaging

University of Nebraska Medical Center

Omaha, Nebraska

Jae-Joon Chung, MD

Associate Professor

Department of Radiology

Yonsei University Hospital

South Korea

Diego Martin, MD, PhD, FRCPC

Head, Department of Medical Imaging,

University of Arizona College of Medicine

Tucson, Arizona

Till R. Bader, MD

Associate Professor and Director Body and Cardiovascular MRI

Department of Radiology

University of Vienna

Vienna, Austria

Masayuki Kanematsu, MD

Associate Professor

Department of Radiology

Gifu University

Japan

Maria Danet, MD

Assistant Professor

Department of Radiology

Montreal University

Montreal, Canada

Lara B. Eisenberg, MD

Chair

Department of Radiology

Sibley Memorial Hospital

Washington, DC

Larissa Braga, MD, PhD, MPH

University of Nebraska Medical Center

Assistant Professor Candidate

Omaha, Nebraska

Jorge Elias Jr, MD, PhD

Radiology Division

University of Sao Paulo

Ribeirao Preto, Sao Paulo, Brazil

**Visiting Professorships and Lectureships- International**

RI: fast, e and comprehensive

1. Intrahepatic Cholangiocarcinoma May 2017

Leaping Forward Oncology

International Clinical Congress

Lisbon, Portugal

1. MRI of the Abdomen: How I do It

Beacon Hospital, Paris France Oct 2014

1. Judicious use of biopsy in the setting of liver MRI Jan 2014

International Radiology Conference

Dammam University

Saudi, Arabia

1. Managing artifacts in body MRI Jan 2014

International Radiology Conference

Dammam University

Saudi, Arabia

1. Pancreas MRI Jan 2014

International Radiology Conference

Dammam University

Saudi, Arabia

1. How to Address Vascular Imaging Quandaries In Jan 2014

Body Imaging with MRI

International Radiology Conference

Dammam University

Saudi, Arabia

1. MRI of Gastrointestinal Tract Jan 2014

International Radiology Conference

Dammam University

Saudi, Arabia

1. Ressonância magnética do corpo: rápida e eficiente Oct 2013

Ressonância magnética das vias biliares

Ressonância magnética do trato gastrointestinal

Ressonância magnética dos rins

Ressonância magnética das adrenais

42nd Brazilian Congress of Radiology and

27th Brazilian Congresso of Nuclear Medicine

Curitiba, Brazil

1. To Biopsy or Not to Biopsy Sep 2013

15th Annual Western Canadian Gastrointestinal

Cancer Consensus Conference

Winnipeg, Canada

**l Western Canadian Gastrointestinal Cancer Consensus Conference**

1. Perform Body MRI Studies Jul 2013

University of Vienna

Vienna, Austria

1. How to manage Artifacts in Body MRI Jul 2013

Sapienza University

Rome, Italy

1. Rare liver tumors and unusual appearances of liver tumors: May 2013

Imaging findings

Paris Hospital

Paris, France

1. Body MRI: fast, efficient and comprehensive Sep 2012

Update in Abdominal and Urogenital

Bruges, Belgium

1. Imaging of Renal and a Adrenal Tumors Sep 2012

Update in Abdominal and Urogenital

Bruges, Belgium

1. Case Review of Body MRI for the Radiology Residents May 2012

University of Manitoba

Manitoba, Canada

1. MRI of the Abdomen: Fast, Efficient, Comprehensive Jan 2012

2nd African Radiology Conference (ASR 2012)

Alexandria, Egypt

1. MRI of the Pancreas Jan 2012

2nd African Radiology Conference (ASR 2012)

Alexandria, Egypt

1. MRI of the Kidneys

2nd African Radiology Conference (ASR 2012) Jan 2012

Alexandria, Egypt

1. MRI of the Liver Jan 2012

2nd African Radiology Conference (ASR 2012)

Alexandria, Egypt

1. MRI of the Gastrointestinal Tract Oct 2011

Hospital Universitari Vall d’Hebron

Barcelona, Spain

1. MRI of the Gastrointestinal Tract Oct 2011

University of Manitoba

Manitoba, Canada

1. The Medical University of Vienna Sep 2011

Body MRI: Pediatric Developments

Vienna, Austria

1. The Medical University of Vienna Sep 2011

Body MRI: Fast, Efficient and Comprehensive

Vienna, Austria

1. 2011 Annual ISMRM Meeting May 2011

The Difficult Liver with Cancer – Diagnosis with MRI

Montreal, Canada

1. The Cali Medical Center Feb 2011

Current Status of Body MRI

Cali, Columbia

1. MRI of the Abdomen: Current Approach Sep 2010

University of Manitoba

Manitoba, Canada

1. Magnetic Resonance of the Pancreas

ISMRM Global Outreach Meeting Jun 2010

Mexico City, Mexico

1. Kidneys and Adrenals

ISMRM Global Outreach Meeting Jun 2010

Mexico City, Mexico

1. The Advantages of MR

ISMRM Global Outreach Meeting Jun 2010

Mexico City, Mexico

1. The Difficult Liver with Cancer: Diagnosis with MRI Apr/May 2010

International Society for MR in Medicine

ESMRMB Joint Meeting

Stockholm, Sweden

1. MRI of the liver and MRI of the Pancreas Apr 2010

Chiang Mai University

Chiang Mai, Thailand

1. International Conference on Radiation Medicine Mar 2010

King Faisal Specialist Hospital and Research Centre

CT Studies and Risks of Medical Radiation,

Risks in Radiology: Radiation, Contrast Induced

Nephropathy and Nephrogenic Systemic Fibrosis,

How I Do Liver MRI Studies,Body MRI: The Future

Direction for Patient Safety

Riyadh, Saudi Arabia

1. 2nd CardioEvent: Cardiology Towards the Future Jan 2010

Innovation in Cardiology

Florence, Italy

1. Grand Rounds Sep 2009

Body MR at 3T Opportunities and Challenges Meeting

Winnipeg, Canada

1. Educational course "l'essenziale in RM body

University of Latina May 2009

Latina, Italy

1. Health Risks from Medical Radiation in CT May 2009

Institute for Cardiovascular Research

Lucca, Italy

1. 3T body MRI Current Benefits and Challenges May 2009

La Sapienza University

Rome, Italy

1. 2nd Arag Radiology Congress Apr 2009

PAARS

Cairo, Egypt

1. Review and Evaluation of MRI Equipment Mar 2009

Siemens Research Meeting

Erlangen, Germany

1. MR Presentation Sep 2008

Siemens Healthcare

Serbia

1. MR Presentation Sep 2008

Siemens Healthcare

Croatia

1. MR Presentation Sep 2008

Siemens Healthcare

Erlangen, Germany

1. Visiting Professor Jul 2008

University of Manitoba

Winnipeg, Canada

1. MultiHance Workshop May 2008

Tangdu Hospital

Xi’an, China

1. MultiHance Seminar May 2008

Jiuzhai Paradise InterContinental Resort

Jiuzhai, China

1. ECR Mar 2008

How to Maximize the Risk-Benefit Ratio of Contrast

Enhanced MRI in at Risk Patients

Vienna, Austria

1. The Canberra Hospital Oct 2007

Body MR: How to Perform It Oct

Canberra, Australia

1. The Canberra Hospital Oct 2007

MRI of the Gallbladder and Biliary Tree

Canberra, Australia

1. The Canberra Hospital Oct 2007

Liver MRI: The Comprehensive Approach

Canberra, Australia

1. The Canberra Hospital Oct 2007

MRI of the Pancreas

Canberra, Australia

1. The Canberra Hospital Oct 2007

MRI of the Kidney

Canberra, Australia

1. Royal Children’s Hospital Oct 2007

Liver MRI: The Comprehensive Approach to

Studying the Liver

Brisbane, Australia

1. Royal Children’s Hospital Oct 2007

MRI of the Gallbladder and Biliary Tree

Brisbane, Australia

1. Royal Children’s Hospital Oct 2007

Approach to the Unknown Liver Lesion

Brisbane, Australia

1. Royal Children’s Hospital Oct 2007

MRI of the Pancreas

Brisbane, Australia

1. 58th Annual Royal Australian and New Zealand Oct 2007

College of Radiology Meeting

MR Pancreatography

Melbourne, Australia

1. 1st Arab Radiological Conference Apr 2007

MRI of diffuse liver disease: seeing things that no

other modality can.

Dead Sea, Jordan

1. 1st Arab Radiological Conference Apr 2007

MRI of focal liver disease: Unmatched diagnostic ability.

Dead Sea, Jordan

1. 1st Arab Radiological Conference Apr 2007

MRI of the abdomen: safe, efficient and accurate.

Dead Sea, Jordan

1. 1st Arab Radiological Conference Apr 2007

MRI of the Pancreas

Dead Sea, Jordan

1. 1st Arab Radiological Conference Apr 2007

MRI of diffuse liver disease: Seeing Things That

No Other Modality Can.

Dead Sea, Jordan

1. Society of Computed Body Tomography and Magnetic Aug 2006

Resonance 15th Summer Practicum

MRI Evaluation of Focal Liver Lesions

Quebec City, Canada

1. Society of Computed Body Tomography and Magnetic Aug 2006

Resonance 15th Summer Practicum

MRI of Pancreatic Carcinoma

Quebec City, Canada

1. Society of Computed Body Tomography and Magnetic Aug 2006

Resonance 15th Summer Practicum

MRI Abdomen Practical Considerations

Quebec City, Canada

1. Visiting Professional Jun 2006

University College Hospital

London England

1. Presenter

European Congress of Radiology Mar 2006

Vienna, Austria

1. 1st Joint Course SMRI and ISMRM in Magnetic Resonance Oct 2005

“State of the Art” MRI of the Cirrhotic Liver

Mexico City, Mexico

1. 1st Joint Course SMRI and ISMRM in Magnetic Oct 2005

Resonance “State of the Art” Whole Body MR Imaging

Mexico City, Mexico

1. 1st Joint Course SMRI and ISMRM in Magnetic Resonance Oct 2005

“State of the Art” MRI of the Kidneys and Adrenals

Mexico City, Mexico

1. 1st Joint Course SMRI and ISMRM in Magnetic Resonance Oct 2005

“State of the Art” Whole Body MR Imaging

Mexico City, Mexico

1. 1st Joint Course SMRI and ISMRM in Magnetic Resonance Oct 2005

“State of the Art” MRI of the Gastrointestinal Tract

Mexico City, Mexico

1. 1st Joint Course SMRI and ISMRM in Magnetic Resonance Oct 2005

“State of the Art” MR of the Liver: Diffuse Lesions

Mexico City, Mexico

1. 1st Joint Course SMRI and ISMRM in Magnetic Resonance Oct 2005

“State of the Art” MR of the Pancreas

Mexico City, Mexico

1. 25th Congress Central American Radiology Society Oct 2005

MRI of the Pancreas

Panama City, Panama

1. 25th Congress Central American Radiology Society Oct 2005

MRI of the Cirrhotic Liver

Panama City, Panama

1. Society of Computed Body Tomography and Magnetic Oct 2005

Resonance

MRI of Pancreatic Carcinoma

MRI Evaluation of Focal Liver Lesions

1. Ïlerï Görüntüleme Uygulamalari Uygulamalari Mar 2005

Sempozyumu

Whole Body MRI Faster and Better

Istanbul, Turkey

1. Presenter Mar 2005

European Congress of Radiology

Vienna, Austria

1. Hepatic Imaging – Future Directions: Future Dec 2004

Horizons in MRI of the Liver

Asian Pacific Association for the Study of the Liver

New Dehli, India

1. Focal Hepatic Lesions in Normal and Diseased Liver Dec 2004

Asian Pacific Association for the Study of the Liver

New Dehli, India

1. Techniques of Liver Imaging: Hepatic MR-How I Do It Dec 2004

Asian Pacific Association for the Study of the Liver

New Dehli, India

1. MRI of the Pancreas Nov 2004

XXXIII Congresso Brasileiro de Radiologia

Rio de Janeiro

1. MRI of Focal Liver Disease Nov 2004

XXXIII Congresso Brasileiro de Radiologia

Rio de Janeiro

1. MRI of the Abdomen: How I Do It Nov 2004

XXXIII Congresso Brasileiro de Radiologia

Rio de Janeiro

1. MRI of the Pancreas Oct 2004

Atlantic Radiology Conference

Halifax, Nova Scotia

1. MRI of the Abdomen: How I Do It Oct 2004

Atlantic Radiology Conference

Halifax, Nova Scotia

1. MRI of the Liver: Distinguishing Benign from Oct 2004

Liver Malignant Lesions

Atlantic Radiology Conference

1. Halifax, Nova Scotia

MRI of the Pancreas: How to Approach the Challenge Sep 2004

Vienna – State of the Art MRI

Vienna, Austria

1. MRI of Benign and Malignant Liver Lesions: How I Tell Sep 2004

Them Apart

Vienna – State of the Art MRI

Vienna, Austria

1. MRI of the Abdomen – Comprehensive Sep 2004

and Efficient Imaging

Vienna – State of the Art MRI

Vienna, Austria

1. Detection and Staging of Abdominal Cancers with MRI Sep 2004

Vienna – State of the Art MRI

Vienna Austria

1. MRI vs. CT of Peritoneal Carcinomatoses Jun 2004

23rd International Congress of Radiology

Montreal Canada

1. MRI in HCC Surveillance Jun 2004

23rd International Congress of Radiology

Montreal Canada

1. MRI of Diffuse Liver Disease Jun 2004

23rd International Congress of Radiology

Montreal Canada

1. Co-Moderator Workshop Advanced MRI of the Abdomen May 2004

ISMRM Meeting

Kyoto, Japan

1. Presenter MRI of the Pancreas May 2004

ISMRM Meeting

Kyoto, Japan

1. MRI of the Abdomen-State-of-the-art Imaging and Oct 2003

Future Outlook

Burg Oberkapfenberg

Kapfenberg

Styria, Austria

1. Visiting Professor Sep 2003

University of Manitoba

Manitoba, Canada

1. MRI of the Abdomen-State-of-the-art Imaging and Jul 2003

ISMRM Meeting

Toronto, Canada

1. Section for Magnetic Resonance Technologists May 2003

12th Annual Meeting

Metro Toronto Convention Centre

Toronto, Ontario, Canada

1. Presenter

European Congress of Radiology Mar 2003

Vienna, Austria

1. MRI of the Duodenum Jul 2002

Italian Gastrointestinal Society Meeting

Rome, Italy

1. MRI of the Liver Jul 2002

CT/MR Course

La Sapienza University

Rome, Italy

1. MRI of the Abdomen: Clinical Role and Future Jul 2002

Prospects

1. MRI of the Liver Jun 2002

MRI of the Abdomen

LaGuardia University

Milan, Italy

1. Abdominal MRI and MRA: May 2002

Clinical practice of today and tomorrow

The Netherlands

1. New Horizons in MRI of the Abdomen and Pelvis May 2002

University Klinik für Radioldiagnostik

Wien Vorstand

Wahringer Gurtel Wien

1. Lymph Nodes and Spleen May 2001

Erasmus Course Magnetic Resonance Imaging Meeting

Brussels, Belgium

1. Future perspective of MR Abdomen May 2001

Brussels, Belgium

1. Hepatic MRI: A Pattern Recognition Approach Apr 2001

International Society of Magnetic Resonance in

Medicine Annual Meeting

Glasgow, Scotland

1. MRI of Endocrine Tumors of the Abdomen Jan 2001

9th International MRI Symposium

Garnishch-Partenkirchen,Munchen

1. Abdominal MRI/MRA Aug 2000

The 2nd Gold Coast Medical Imaging Conference

Gold Coast Queensland, Australia

1. MRI of the Pancreas Jun 2000

Abdominal MRI: Clinical Practice today and tomorrow

Zeist, The Netherlands

1. MRI of Benign Liver Lesions Jun 2000

Abdominal MRI: Clinical Practice today and tomorrow

Zeist, The Netherlands

1. MRI of the Abdomen Nov 1999

Hong Kong Radiological Society

Hong Kong, Japan

1. Body MRI Oct 1999

Liver MRI: Techniques and contrast agents

Turkey

1. Pancreas MRI Oct 1999

Hacettepe University

Ankara, Turkey

1. Body MRI: Current Status Oct 1999

University of Istanbul

Istanbul, Turkey

1. Body MRI: Current Status Oct 1999

University of Athens

Athens, Greece

1. Body MRI: How and Why? Oct 1999

MRCP and Bowel MRI

The 12th International Somerset MRI Course

Somerset, UK

1. MRI of the Abdomen Oct 1999

STAR Program

Kuala Lumpus

1. MRI of the Liver Oct 1999

STAR Program Kuala

Kuala Lumpus

1. MRI of the Kidneys and Adrenals Sep 1999

Canadian Association of Radiologists

Canada

1. MRI of the Abdomen Jun 1999

European Society of Oncology

Moscow, Russia

1. MRI of the Liver: Jun 1999

European Society of Oncology

Moscow, Russia

1. MRI of the Pancreas Jun 1999

European Society of Oncology

Moscow, Russia

1. MRI of the Abdomen Jun 1999

Armed Services Hospital

St. Petersburg, Russia

1. MRI of the Liver: Techniques and Contrast Agents Nov 1998

Japanese Association of Tomography

Hamamatsu, Japan

1. MRI of the Abdomen: Imaging Approaches Nov 1998

Japanese Association of Tomography

Hamamatsu, Japan

1. High Speed Imaging of the Liver and Pancreas Apr 1997

Annual Meeting of the ISMRM

Vancouver, Canada

1. Body MRI: State-of-the-Art Oct 1996

West Coast Radiology Club

Finland

1. Technical Aspects of Abdominal MRI Oct 1996

Sophia Hemmet

Advances in Diagnostic Radiology

Sweden

1. MRI of the Liver Oct 1996

Sophia Hemmet

Advances in Diagnostic Radiology

Sweden

1. Continued MRI of the Liver and MRI of the Spleen Oct 1996

Sophia Hemmet

Advances in Diagnostic Radiology

Sweden

1. MRI of the Pancreas Oct 1996

Sophia Hemmet

Advances in Diagnostic Radiology

Sweden

1. MRI of the Kidneys, Adrenals and Retroperitoneum Oct 1996

Sophia Hemmet

Advances in Diagnostic Radiology

Sweden

1. MRI of the bowel Oct 1996

Sophia Hemmet

Advances in Diagnostic Radiology

Sweden

1. Future Aspects of MRI Oct 1996

Sophia Hemmet

Advances in Diagnostic Radiology

Sweden

1. MRI of the Alimentary Tract with CT Correlation Sep 1996

Berliner-Birchow Symposium

Abdominelle Diagnostik und Intervention

Berlin

1. Technical Factors in MRI Body Imaging Aug1996

Gold Coast MRI and CT Conference

Royal Australasian College of Radiologists

Australia

1. MRI Liver with CT Correlation Aug 1996

Gold Coast MRI and CT Conference

Royal Australasian College of Radiologists

Australia

1. MRI Kidney, Pancreas Aug 1996

Gold Coast MRI and CT Conference

Royal Australasian College of Radiologists

Australia

1. Body MRI Aug 1996

Gold Coast MRI and CT Conference

Royal Australasian College of Radiologists

Australia

1. MRI of the Kidneys with CT Correlation Oct/Nov 1995

Schering Training in Advances in Radiology

STAR - Jeddah/Riyadh

Saudi Arabia

1. MRI of the Liver with CT Correlation Oct/Nov 1995

Schering Training in Advances in Radiology

STAR - Jeddah/Riyadh

Saudi Arabia

1. MRI and CT of the Retroperitoneum Oct /Nov 1995

Schering Training in Advances in Radiology

STAR - Jeddah/Riyadh

Saudi Arabia

1. MRI of the Spleen Sep 1995

Advanced Magnetic Resonance

International Conference**,** Klinikum Grossharden

Munich, Germany

1. MRI of Malignant Disease of the Pancreas Sep 1995

Advanced Magnetic Resonance

International Conference, Klinikum Grossharden

Munich, Germany

1. Modern MRI and CT of the Liver May 1995

Schering Training in Advances in Radiology

Manilla and Cebu City

The Philippines

1. MRI and CT of the Kidney May 1995

Schering Training in Advances in Radiology

Manilla and Cebu City

The Philippines

1. MRI of the Pancreas and Retroperitoneum May 1995

Schering Training in Advances in Radiology

Manilla and Cebu City

The Philippines

1. MRI of the Pancreas with CT Correlation Mar 1995

Universita Cattolica Del Sacro Cuore Roma

Rome, Italy

1. MRI of the Diseases of the Biliary Tree Mar 1995

Univerrsita Cattolica Del Sarco Cuore Roma

Rome, Italy

1. Research Projects in Abdominal MRI Mar 1995

University of La Sapienza

Rome, Italy

1. MR imaging of liver with CT correlation. Oct 1994

STAR Schering Training in Advances in Radiology

Rio de Janeiro, and Sao Paulo, Brazil

1. MR of the kidney with CT correlation Oct 1994

STAR Schering Training in Advances in Radiology

Rio de Janeiro, and Sao Paulo, Brazil

1. MR imaging of the pancreas with CT correlation Oct 1994

STAR Schering Training in Advances in Radiology

Rio de Janeiro, and Sao Paulo, Brazil

1. Dynamic Gadolinium Enhanced Breath Hold MR Jan 1993

imaging of Normal Lungs, and Patients with Interstitial

Lung Disease and Pulmonary Nodules.

Internationales Kernspintomographie Symposium-MR '93

1. MRI of the Abdomen April 1992

Department of Radiology Grand Rounds

University of Manitoba

Winnipeg, Canada

1. MRI of the Cardiovascular System Jan 1992

Department of Medicine Grand Rounds

University of Manitoba

Winnipeg, Canada

1. MRI of the Genito-urinary System Jan 1992

Section of Urology Rounds

University of Manitoba

Winnipeg, Canada

1. MRI of Malignant Disease of Abdomen and Pelvis Oct 1991

Radiation Oncology Research Seminar

University of Manitoba

Winnipeg, Canada

1. MRI Scanning in General Surgery Oct 1991

Section of Surgery Rounds

St. Boniface General Hospital

Winnipeg, Canada

1. ImagingDepartment of Nephrology Grand Rounds May 1991

St. Boniface

St. Boniface General Hospital, Winnipeg

1. MRI of the Kidneys Anatomical and functional Jan 1991

St. Boniface General Hospital,

Winnipeg, Canada

1. Imaging Department of Nephrology Grand Rounds May 1991

St. Boniface General Hospital

Winnipeg, Canada

1. Evaluation of blood flow and ventricular Oct 1990

function in athletes with MRI. Coauthors:

E. Mueller, G.A. Laub. International Symposium

on Sports Medicine. "The safety of the athlete in Olympic

Sports"

Assisi, Italy

1. The role of fat suppression in imaging the upper Oct 1990

abdomen. Coauthors: F.C. Simm, M. Deimling,

G.A. Laub. European Seminars on Diagnostic

Imaging 1990. "Magnetic Resonance Imaging of

the Abdomen."

L'Aquila, Italy

1. Advances in liver MRI Oct 1990

Breathhold studies

University of Rome

Rome, Italy

1. Importance of sequence optimization in Oct 1990

breathhold and fat suppression studies

Schering Contrast Research Group

Berlin, Germany

1. Breathhold imaging of the liver with T1- and Aug 1990

T2-weighting

University of Prague

Prague

1. Fat suppression and contrast-enhancement Jun 1990

in the evaluation of renal masses

Steglitz Clinic

Free University of Berlin

Berlin, Germany

1. Contrast-enhanced studies-role of dynamic Jun 1990

acquisition and fat saturation in MRI.

Schering Contrast Research Group

Berlin, Germany

1. MRI advances in cardiac and abdominal imaging Apr 1990

MRI Section

Siemens

Erlangen, Germany

1. Plenary lecture. The Role of Non- invasive Feb 1990

Procedures in Cardiac Diagnosis

Magnetic Resonance \*Imaging

XI World Congress of Cardiology

Manila, Philippines

1. Radiology Grand Rounds Jan 1988

Double Contrast Barium Enema vs.

Colonoscopy in the Diagnosis of Colon Cancer

Health Sciences Centre

Winnipeg, Canada

1. Grand Rounds Feb 1987

CT of Complicated Pancreatic

Concordia General Hospital

Inflammatory Disease

Winnipeg, Canada

1. Grand Rounds Feb 1986

Concordia General Hospital

Winnipeg, Canada

Diagnosis of Colon Cancer - The

Manitoba Experience

Manitoba, Canada

**Visiting Professorships and Lectureships - National**

1. Dialogue with The Joint Commission: New Diagnostic Dec 2015

Imaging Standards for CT and MR. 2015 RSNA.

Chicago, IL

1. MRI of the Lungs: Imaging the Last Frontier

keynote speaker at the 3rd Asian Congress of Thoracic Mar 2015

Imaging in Taipei, Taiwan.

1. Jalil Farah, M.D. Annual Radiology Conference 2014 Sep 2014

Advances in Body Imaging with Emphasis on MRI

Auburn Hills Marriott Pontiac at Centerpoint

Beaumont, TX

1. Is it Time We Obtain Informed Consent for May 2013

CT Imaging?

UCSF Virtual Symposium: Radiation Safety in CT

San Francisco, CA

1. MRA Safety Considerations for the Apr 2013

Cardiovascular Patient

Advances in MRA Curriculum Development Meeting

Washington, DC

1. Radiologists and Malpractice: From Bias to Verdict. Mar 2013

North Carolina American College of Radiology’s annual

chapter meeting.

Durham, NC

1. ACR Quality and Safety 2013 Feb 2013

American College of Radiology’s Annual Conference on

Quality And Safety. Scottsdale, AZ

1. Body MRI: Fast, Efficient and Comprehensive Jan 2013

LARS 65th Annual Midwinter Meeting

Pasadena, CA

1. Pancreas MRI: Current Clinical Practices Jan 2013

LARS 65th Annual Midwinter Meeting

Pasadena, CA

1. Renal and Adrenal Masses on MRI Jan 2013

LARS 65th Annual Midwinter Meeting

Pasadena, CA

1. Solving Vascular Conumdrums with MRI Jan 2013

LARS 65th Annual Midwinter Meeting

Pasadena, CA

1. Body MRI: How I Do It Mar 2012

### University of Texas Medical Branch

Galveston, Texas

1. Pancreas MRI Mar 2012

### University of Texas Medical Branch

Galveston, Texas

1. Safety in Radiology Medical Radiation & Contrast Agents Mar 2012

### University of Texas Medical Branch

Galveston, Texas

1. Motion Resistant Techniques for Body MRI Nov 2012

2012 RSNA Refresher Course

Chicago, IL

1. ACR 5th Annual MRI Program Jun 2011

Liver Tumors

Atlanta, GA

1. ACR 5th Annual MRI Program Jun 2011

Pancreas: Tumors

Atlanta, GA

* 1. ACR 5th Annual MRI Program Jun 2011

“Imaging Gently Wisely”

Atlanta, GA

1. ACR 5th Annual MRI Program Jun 2011

Contrast Agents and Safety

Atlanta, GA

1. 2011 AOCR Meeting Apr 2011

Pancreas

Palm Beach, FL

1. 2011 AOCR Meeting Apr 2011

Safety: Radiation and Contrast Agents

Palm Beach, FL

1. 2011 AOCR Meeting Apr 2011

Biliary and MRCP Imaging

Palm Beach, FL

1. University of Florida Feb 2011

Body MRI: Rare and Wonderful Diseases

Gainesville, FL

1. University of Florida Feb 2011

Liver MRI” (@ brain institute)

Gainesville, FL

1. ACR 4th Annual Body MRI Program Mar 2010

Pancreas Tumors: Comprehensive Review

Arlington, VA

1. ACR 4th Annual Body MRI Program Mar 2010

Liver Tumors

Arlington, VA

1. ACR 4th Annual Body MRI Program Mar 2010

Chronic Liver Disease and Transplantation

Arlington, VA

1. San Diego Radiological Society Dec 2009

LaJolla, CA

1. ACR Education Center Course Sept 2009

Body MR

Reston, VA

1. MRI Customer Workshop July 2009

MRI Demostrations

Philadelphia, PA

1. MR Protocols Meeting May 2009

RXperience

Coral Gables, FL

1. Content Development Meeting May 2009

RXperience

Coral Gables, FL

1. ACR 3rd Annual Body MRI Update Mar 2009

Technical Advances: 3T and the Patient Who Moves

Washington, DC

1. ACR 3rd Annual Body MRI Update Mar 2009

Tumor Imaging: Liver and Bile Ducts

Washington, DC

1. ACR 3rd Annual Body MRI Update Mar 2009

Liver: Difficult Cases

Washington, DC

1. ACR 3rd Annual Body MRI Update Mar 2009

Chest

Washington, DC

1. UNOS Meeting Nov 2008

Liver Transplant

Chicago, IL

1. Practical Body MRI by the Experts Jul 2008

Berkley, CA

1. Pacific Northwest Radiological Society Apr 2007

Radiation and CT

Portland, OR

1. Pacific Northwest Radiological Society Apr 2007

Body MRI How I Do It

Portland, OR

1. ISMRM Mar 2007

Abdominal MR Practical Approach

Tampa, FL

1. ISMRM Mar 2007

MRI of Biliary System/MRCP

Tampa, FL

1. ISMRM Mar 2007

MRI of the Pancreas

Tampa, FL

1. Northwestern University Mar 2007

Imaging at Saddlebrook Hot Topics in MRI and CT

Tampa, FL

1. MR Imaging of the Abdomen and Pelvis: Dec 2005

Only the Tough Cases (“How-to” Workshop)

2005 RSNA Refresher Course

Chicago, IL

1. Liver MR Imaging: Technique and Advanced Imaging Nov 2005

Noncirrhotic Liver

2005 RSNA Refresher Course

Chicago, IL

1. Liver Issue Sep 2005

Radiological Clinics of North America

University of Virginia SOM

Charlottesville, VA

1. MRI Evaluation of Focal Liver Lesions Aug 2005

SCBT/MR Summer Practicum

Napa, CA

1. MRI of the Abdomen: Practical Considerations Aug 2005

SCBT/MR Summer Practicum

Napa, CA

1. MRI of Pancreatic Carcinoma Aug 2005

SCBT/MR Summer Practicum

Napa, CA

1. MRI of Liver Fibrosis Apr 2005

NIH Conference on Liver and Kidney Fibrosis Imaging

Methodologies

NIH – Besthesda, MD

1. Liver MR Imaging: Techniques and Advanced Imaging Nov 2004

2004 RSNA Refresher Course

Chicago, IL

1. MR Imaging of the Abdomen and Pelvis: Only the Nov 2004

Tough Cases (“How-to” Workshop

2004 RSNA Refresher Course

Chicago, IL

1. MRI of the Abdomen Oct 2004

Advances in Body MR

New Orleans, LA

1. MRI of the Liver: Distinguishing Benign from Malignant Oct 2004

Liver Lesions

Advances in Body MR

New Orleans, LA

1. MRI of the Pancreas Oct 2004

Advances in Body MR

New Orleans, LA

1. MRI of the Abdomen: How I Do It Sep 2004

Radiology Grand Rounds

Evanston Northwestern Healthcare

Evanston, IL

1. Detection & Staging of Abdominal Malignancies with MRI Apr 2004

Texas Radiology Course XI

UTMB Levin Hall

Galveston, TX

1. MRI of the Pancreas Apr 2004

Texas Radiology Course XI

UTMB Levin Hall

Galveston, TX

1. MRI of the Pancreas Dec 2001

World Class Radiology

Disney’s Coronado Springs Resort

Orlando, Florida

1. MRI of the Liver Dec 2001

World Class Radiology

Disney’s Coronado Springs Resort

Orlando, Florida

1. MRI Contrast Use in the Abdomen & Pelvis Aug 2000

MR Contrast: Update 2000

Grand Hyatt New York

New York, New York

1. MRI Contrast Use in the Abdomen & Pelvis Jun 2000

MR Contrast: Update 2000

The Philadelphia Marriott

Philadelphia, Pennsylvania

1. MRI of the Abdomen Jan 2000

LA Radiological Society Midwinter Meeting

Los Angeles, CA

1. Techniques of Body MRI Apr 1999

Atlanta, Georgia

1. Liver MR –Techniques and Contrast Optimization Apr 1999

Atlanta, Georgia

1. Body MRI: How and Why Apr 1999

Boston Medical Center

Boston University School of Medicine

Boston, Massachusetts

1. Body MRI: How and Why Feb 1999

Cleveland Radiological Society

Cleveland, Ohio

1. Grand Rounds Dec 1998

Loma Linda University Medical Center

Transplantation Institute

Loma Linda, California

1. Clinical Cases Review Dec 1998

Loma Linda University Medical Center

Transplantation Institute

Loma Linda, California

1. MRI of the Abdomen: Techniques Oct 1998

61st Radiology Course

Radiology/98

Thoracoabdominal Imaging & Mammography

University of Minnesota Minneapolis, Minnesota

1. MRI of the Liver: Techniques and Contrast Agents Oct 1998

61st Radiology CourseOct Radiology/98

Thoracoabdominal Imaging & Mammography

University of Minnesota

Minneapolis, Minnesota

1. MRI of the Kidneys and Adrenals Oct 1998

61st Radiology Course

Radiology/98

Thoracoabdominal Imaging & Mammography

University of Minnesota

Minneapolis, Minnesota

1. MRI of the Liver: Techniques and Contrast Agents Oct 1998

Nycomed Amersham Imaging

University of Washington

Seattle, Washington

1. MRI of the Liver and Pancreas Aug 1998

Ultrasound and MRI in Paradise

Maui, Hawaii

1. MRI of the Pelvis Aug 1998

Ultrasound and MRI in Paradise

Maui, Hawaii

1. MRI of the Kidneys and Adrenals Aug 1998

Ultrasound and MRI in Paradise

Maui, Hawaii

1. MRI of the Bowl and Retroperitoneum Aug 1998

Ultrasound and MRI in Paradise

Maui, Hawaii

1. Liver MRI: New Techniques and Contrast Agents Jul 1998

San Francisco Bay Radiological Society Meeting

San Francisco, CA

1. MR of the Pancreas Apr 1998

SCBT/MR

Rancho Mirage, CA

1. MR Imaging of the Abdomen Apr 1998

SCBT/MR

Rancho Mirage, CA

1. MRI of Renal Masses Apr 1998

SCBT/MR

Rancho Mirage, CA

1. MRI of the Abdomen: Techniques Feb 1998

19th Annual Intermountain Imaging Conference

Park City, Utah

1. MRI of the Liver Feb 1998

19th Annual Intermountain Imaging Conference

Park City, Utah

1. MRI of the Kidneys Feb 1998

19th Annual Intermountain Imaging Conference

Park City, Utah

1. MRI of the and Abdominal Aorta Feb 1998

19th Annual Intermountain Imaging Conference

Park City, Utah

1. MR of the Abdomen: Techniques and Considerations Feb 1998

MRI in Clinical Practice

Snowmass, Colorado

1. MRI of the Liver Nov 1997

MRI of the Abdomen

University of Alabama at Birmingham

Birmingham, Alabama

1. MRI of the Liver Oct 1997

MRI of the Abdomen

University of Chicago

Chicago, Illinois

1. MRI of the Liver Oct 1997

MRI of the Abdomen

Medical College of Georgia

Augusta, Georgia

1. MRI of the Abdomen Sep 1997

University of Kentucky

Louisville, Kentucky

1. MRI of the Abdomen Sep 1997

Loyola University Medical Center

Maywood, Illinois

1. MRI of the Abdomen Sep 1997

University of Illinois

Chicago, Illinois

1. MRI of the Abdomen Jun 1997

University of Miami

Jackson Memorial Medical Center

Miami, Florida

1. General Considerations and Techniques for Mar 1997

Conducting MRI studies of the Abdomen and Pelvis

CT/MR Aspen Refresher: 1997

Aspen, Colorado

1. Imaging the Bowel and Retroperitoneum Mar 1997

CT/MR Aspen Refresher: 1997

Aspen, Colorado

1. Abdominal MR Imaging: Myth versus Reality Dec 1996

RSNA Refresher Course

82nd Scientific Assembly and Annual Meeting

Chicago, IL

1. MR Techniques for Evaluation of Abdomen and Pelvis Oct 1996

Clinical Magnetic Resonance Imaging

UCSF

San Francisco, CA

1. MRI of the Gallbladder, Biliary Tree and Spleen Oct 1996

Clinical Magnetic Resonance Imaging

UCSF

San Francisco, CA

1. MRI of the Kidneys and Adrenals Oct 1996

Clinical Magnetic Resonance Imaging

UCSF

San Francisco, CA

1. MRI of the Retroperitoneum Oct 1996

Clinical Magnetic Resonance Imaging

UCSF

San Francisco, CA

1. Body MRI: Fast Imaging Techniques Oct 1996

University of Maryland

Maryland Radiologic Society

Baltimore, MD

1. Body MRI: New Techniques Sep 1996

Santa Fe Imaging Center

New Mexico Medical Society

Santa Fe, NM

1. MRI of the Pancreas and Biliary Tract Mar 1996

Abdominal MRI & MRA Clinical Advances

Boston University School of Medicine

Boston, MA

1. MRI of Focal Hepatic Masses Mar 1996

Abdominal MRI & MRA Clinical Advances

Boston University School of Medicine

Boston, MA

1. MRI of the Liver May 1995

Annual Meeting of the Hawaii Radiological Society

Big Island, Hawaii

1. MRI of the Extrahepatic Abdomen May 1995

Annual Meeting of the Hawaii Radiological Society

Big Island, Hawaii

1. MRI of the Pancreas, Spleen and Adrenal Glands Feb 1995

MRI in Clinical Practice

Breckenridge, Colorado

1. MR of the Kidneys Feb 1995

MRI in Clinical Practice

Breckenridge, Colorado

1. Contrast Enhanced MRI of the Abdomen: Current Use; Feb 1995

Future Directions

Breckenridge, Colorado

1. MRI of the Liver with CT Correlation Jan 1995

Thomas Jefferson University Hospital

Philadelphia, PA

1. MRI of the Extrahepatic Abdomen Jan 1995

Thomas Jefferson University Hospital

Philadelphia, PA

1. MRI with CT Correlation Jun 1994

MRI Abdomen Extra Hepatic

Third Annual Cape Fear MRI Conference

Wrightsville Beach, NC

1. MRI of the Liver with CT Correlations May 1994

Magnetic Resonance Imaging and Ultrasound

University of California

San Francisco, California

1. MRI of the Pancreas: Current Clinical Indications May 1994

Magnetic Resonance Imaging and Ultrasound in

Monterey/Carmel

University of California

San Francisco, California

1. MRI of the Kidney and Adrenal May 1994

Magnetic Resonance Imaging and Ultrasound in

Monterey/Carmel

University of California

San Francisco, California

1. MRI of the Extrahepatic Abdomen May 1994

MRI of the Liver with CT Correlation

Beth Israel Hospital

Harvard Medical School

Boston, MA

1. MRI of the Abdomen - Excluding the Liver Apr 1994

American Roentgen Ray Society Annual Meeting

New Orleans, Louisiana

1. Extra-hepatic abdominal uses of Mar 1994

MRI Contrast Agents

Educational Program

SMR Meeting

Dallas, Texas

1. MRI of the Abdomen Mar 1994

Oregon Radiological Society

Portland, Oregon

1. MRI of the liver Oct 1993

Clinical Magnetic Resonance Imaging

University of California at San Francisco

San Francisco, California

1. MRI of the gastrointestinal tract Oct 1993

Clinical Magnetic Resonance Imaging

University of California at San Francisco

San Francisco, California

1. MRI of the bladder Oct 1993

Clinical Magnetic Resonance Imaging

University of California at San Francisco

San Francisco, California

1. MRI of the colon and rectum Oct 1993

Clinical Magnetic Resonance Imaging

University of California at San Francisco

San Francisco, California

1. MRI of the liver Oct 1993

Clinical Magnetic Resonance Imaging

University of California at San Francisco

San Francisco, California

1. MRI of the liver Oct 1993

Magnetic Resonance Update

University of Alabama at Birmingham

Hilton Head Island, SC

1. MRI of the pancreas Oct 1993

Magnetic Resonance Update

University of Alabama at Birmingham

Hilton Head Island, SC

1. MRI of the kidney Oct 1993

Magnetic Resonance Update

University of Alabama at Birmingham

Hilton Head Island, SC

1. MRI of the Liver MRI of the Abdomen Sep 1993

Mallinckrodt Institute of Radiology

St. Louis, Missouri

1. MRI of the liver. May 1993

Georgetown University Medical Center

Washington, DC

1. Advanced Techniques for MRI of the Abdomen Apr 1993

University of California San Francisco

Department of Radiology

Magnetic Resonance Imaging and

Magnetic Resonance Angiography Course

Kona, Hawaii

1. MRI of the Liver: When Is It the Procedure of Choice? Apr 1993

University of California San Francisco

Department of Radiology

Magnetic Resonance Imaging and

Magnetic Resonance Angiography Course

Kona, Hawaii

1. MRI of the Pancreas: When Is It Useful Apr 1993

University of California San Francisco

Department of Radiology

Magnetic Resonance Imaging and

Magnetic Resonance Angiography Course

Kona, Hawaii

1. MRI of the Bowel and Rectum Apr 1993

University of California San Francisco

Department of Radiology

Magnetic Resonance Imaging and

Magnetic Resonance Angiography Course

Kona, Hawaii

1. MRI of the Liver with CT Correlation Apr 1993

Instructional Course, Annual Meeting

of the American Roentgen Ray Society,

San Francisco, California

1. MR of the Liver and Spleen Mar 1993

Florida Radiological Society

MRI in Clinical Practice:

Steamboat Springs, 1993

Steamboat Springs, Colorado

1. MRI of the Kidney, Bladder and Adrenal Glands Mar 1993

Florida Radiological Society

MRI in Clinical Practice:

Steamboat Springs, 1993

Steamboat Springs, Colorado

1. Contrast Enhanced Imaging of the Abdomen. Oct 1992

UCSF Clinical Magnetic Resonance Imaging Symposium

San Francisco, California

1. MRI of the Pancreas, Spleen and Bowel Oct 1992

UCSF Clinical Magnetic Resonance Imaging Symposium

San Francisco, California

1. MRI of the Kidneys Nov 1989

University of California San Francisco

San Francisco California

1. Radiology Research Conference Oct1989

University of California San Francisco

Use of Gd-DTPA in Renal Imaging

San Francisco, California

1. St. Boniface Research Sep 1989

Foundation Research Rounds

Magnetic Resonance Imaging and

Spectroscopy of the Heart

1. Department of Radiology Jul 1989

Grand Rounds, University of Chicago

Magnetic Resonance Imaging of the Cardiovascular

System -An Overview

Chicago, Illinois

**Visiting Professorships and Lectureships - Local**

1. Safety Aspects of Iodine and Gadolinium Contrast January 2014

Agents in Radiology

Department of Radiology Grand Rounds

University of North Carolina at Chapel Hill

Chapel Hill, NC

1. Radiation Exposure During Medical Imaging Oct 2013

Department of Medicine Grand Rounds

University of North Carolina at Chapel Hill

Chapel Hill, NC

1. The Use of Blinded External Reads to Determine Mar 2013

Standard of Care

ACR North Carolina Chapter

Durham, NC

1. Approaches to Safety with Medical Radiation: Mar 2011

Appropriate Substitution of MRI for CT in Various

Settings in Abdominal Imaging

ACR NC Chapter/Duke University

Durham, NC

1. Exposure to Low-Dose Ionizing Radiation from Medical Apr 2010

Imaging Procedures

Dept of Medicine Grand Rounds

University of North Carolina

Chapel Hill, NC

1. Siemens 3T Workshop Mar 2010

Body Imaging at 3T, Liver Imaging at 3T

Siemens Training and Development

Cary, NC

1. Gadolinium Use and Nephrogenic Systemic Fibrosis May 2007

Dept Medicine Grand Rounds

University of North Carolina

Chapel Hill, NC

1. Nephrogenic Fibrosing Dermopathy May 2007

Department of Medicine

University of North Carolina

Chapel Hill, NC

1. Safety issues in Radiology Jun 2007

CT and radiation, MRI and NSF

Emergency Medicine Rounds

University of North Carolina

Chapel Hill, NC

1. Multidisciplinary Management of GI Malignancies: Apr 2005

Pancreatic and Colorectal Cancers

UNC SOM/Lineberger Comprehensive Cancer Center

Chapel Hill, NC

1. Benign and Malignant Liver Masses Apr 2004

Wake AHEC

Raleigh, NC

1. MRI/Body Clinic Nov 2003

UNC Visiting Clinician Program

Chapel Hill, NC

1. MRI Use in Hypertension Jun 2001

Nephrology Rounds

University of North Carolina

Chapel Hill, NC

1. MRI in Cardiac, Vascular and Thoracic Diseases Jun 2001

Cardiothoracic Surgery Rounds

University of North Carolina

Chapel Hill, NC

1. MRI of the Abdomen: State of the Art Feb 2000

Cape Fear Valley Health System

Fayetteville, NC

1. MRI of the Liver: How it Helps the Surgeon Nov 1999

Colorectal Cancer Symposium

William & Ida Friday Continuing Education Center

Chapel Hill, NC

1. Imaging Update: MRI/CT Oct 1998

High Point Regional Hospital

High Point, NC (AHEC)

1. MRI of OB/GYN Sep 1997

Department of Obstetrics and Gynecology

Grand Rounds

University of North Carolina

Chapel Hill, NC

1. MRI in Reproduction Endocrinology Sep 1997

Reproductive Endocrinology Rounds

University of North Carolina

Chapel Hill, NC

1. New Options in Diagnosis & Staging of Liver Lesions May 1997

Center for Bio-Medical Communications, Inc

Morrisville, NC

1. MRI of Abdominal Cancer Apr 1996

Surgery Grand Rounds

Department of Surgery

University of North Carolina

Chapel Hill, NC

1. MRI of the Pelvis Nov 1995

Endocrine Conference

University of North Carolina

Chapel Hill, NC

1. CT vs. MRI vs. X-ray Jan 1996

High Point Regional Hospital

Greensboro Area Health and Education Center

High Point, NC

1. Update of the Role of MRI in Urological Practice Oct 1995

Urology Rounds

University of North Carolina

Chapel Hill, NC

1. Magnetic Resonance Imaging in Surgery Apr 1995

Surgery Grand Rounds

University of North Carolina

Chapel Hill, NC

1. Research Projects in Abdominal MRI Apr 1995

Department of Radiology

Chapel Hill, NC

1. Current Indications for MRI: Applications/Limitations Dec 1994

AHEC

Rocky Mount, NC

1. Update in Diagnostic MRI Sep 1994

OB/GYN Imaging

AHEC

Asheville, NC

1. MRI of the Extrahepatic Abdomen Apr 1994

NC Chapter American College of Radiology

Raleigh, North Carolina

1. MRI of the Liver Apr 1994

NC Chapter American College of Radiology

Raleigh, North Carolina

1. MRI in Urology Nov 1993

Clinical Seminar Series

Division of Urology, Department of Surgery

School of Medicine

University of North Carolina at Chapel Hill

Chapel Hill, NC

1. The Role of MRI in Managing the Surgical Patient Feb 1993

Surgical Ground Rounds, UNC Hospital

Chapel Hill, North Carolina

1. MRI in OB/Gyn Feb 1993

OB/Gyn Grand Rounds

UNC Hospital

Chapel Hill, North Carolina

**Grants**:

Reducing Toxicity Associated with Magnetic Resonance

Imaging Contrast Agents

Technology Enhancement Grant application Apr 2015 – Dec 2015

Sponsor: UNC Eshelman School of Pharmacy

Principle Investigator $28,723

Novel Methods for MRI PET for early detection of Hepatic Aug 2013 – Jul 2014

Cancer and for imaging predictors of tumor response

Sponsor: Siemens

Principle Investigator $50,000

Evaluation of Dotarem-enhanced MRA Compared to Apr 2009 – Mar 2010

Time-of-Flight MRA in the Diagnosis of Renal Arterial Disease.

Sponsor: Guerbet Role

Principle Investigator $69,422

Development of Body MRI Jan 2009 – Jan 2010

Work Flow Projects

Sponsor: Siemens

Principal Investigator $40,000

Evaluation of Dotarem-enhanced MRA Compared to Apr 2009 – Mar 2010

Time-of-Flight MRA in the Diagnosis of Renal Arterial Disease.

Sponsor: Guerbet. Role:

Principle Investigator $69,422

A Genetic and Clinical Approach to the Early May 2008 – present

Detection of Pancreatic Cancer in a Selected High Risk

Population Utilizing Three Dimensional (3D)-Gradient Echo

(GRE) Volumetric Interpolated Breath-Hold Examination

(VIBE) MRI\_\_; LCCC Clinical/Translational Research Award;

Principal Investigator $40,000

Development of Body MRI Jan 2009 – Jan 2010

Workflow Projects

Sponsor: Siemens

Principal Investigator $40,000   
  
MH-136; A Prospective Cohort Study Evaluating the Apr 2008 – present

Incidence of Nephrogenic Systemic Fibrosis in Patients

with Stage 3 to 5 Chronic Kidney Disease Undergoing

MRI with the Injection of MultiHance;

Sponsor: Bracco

Principal Investigator

RG-1068-16; A Phase III Study to Demonstrate the Efficacy Mar 2008 – present.

and Safety of RG1068 (Synthetic Human Secretin) –

Enhanced Magnetic Resonance Cholangiopancreatography

(MRCP) in the Evaluation of Subjects with a History of

Acute or Acute Recurrent Pancreatitis.

Sponsor: Repligen;

Co-investigator

LCCC0704; Comparison of Standard Dose Gadobenate Dec 2007 – Dec 2009

Dimeglumine (Gd-BOPTA, MultiHance and Standard

Dose Gadopenate Dimeglumine (Magnevist) in the

Detection of Hepatocellular Carcinoma Using

Intra-Individual Crossover Design

Sponsor: Bracco

Principal Investigator

Short-Duration High-Parallel-lmaging-Factor MR Imaging of Nov 2008 – Oct 2010

the Body using a 32 Channel Torso Coil

Addendum id: UNC-2008-MR-01-Semelka

Sponsor: Siemens

Principal Investigator $22500

Workflow Optimization in Body MRI Addendum id Nov 2008 – Mar 2010

UNC-2008-MR-02-Semelka

Sponsor: Siemens

Principal Investigator $22,500

A Genetic and Clinical Approach to the Early May 2008 – present

Detection of Pancreatic Cancer in a Selected High Risk

Population Utilizing Three Dimensional (3D)-Gradient Echo

(GRE) Volumetric Interpolated Breath-Hold Examination

(VIBE) MRI\_\_; LCCC Clinical/Translational Research Award.

Principal Investigator $40,000

NIEHS “Uterine Leiomyoma Longitudinal Intervention Apr 2001 – Mar 2004

Study (ULLIS) Dynamics of Leiomyoma Growth.”

$135,000

Berlex Laboratories, Inc. “Multicenter Open-Label Apr 2000 – Feb 2001

Study of Gd-EOB-DTPA with a Single I.V. Injection

(25 /mol/kgBW) in Patients with Known or Suspected

Focal Liver Lesions.” $24,500

Nycomed, Inc. “Use of Teslascan® and Omniscan® Aug 1998 – Jan 2000

for the Evaluation of Focal Liver Lesions on MRI in One

Patient Visit.” $20,000

A Clinical Study of Feridex I.V.® (ferumoxides injectable May 1998 – Jan1999

solution) When Administered as a Direct Injection in

Patients.” $72,500

Siemens Medical Systems Oct 1995 – Oct 1996

Body MRI development grant. $60,000

Lineberger Cancer Center Jan 1995 – Jan 1996

"Can magnetic resonance imaging with gadolinium

enhancement improve breast cancer detection in

mammographically dense breasts?" $20,000

Mallinckrodt Medical, Inc May 1995 – May 1997

A multi-center, open label, signal dose study

to evaluate the safety, tolerance and efficacy of

Optimark (TM) (gadoversetamide injection) in

MRI of the Liver $168,603

Nycomed Inc. "Contrast Enhanced Magnetic Oct 1994 – Feb 1995

Imaging of the abdomen or pelvis: an open

label, phase III, multi-center study with WIN

39996 oral suspensions in patients with suspected

abdominal or pelvic disease" $9,600

Mallinckrodt Medical, Inc. Jun 1994 – Nov 1994

"A multi-center, double-blind, multi-dose

With in-patient study to evaluate the safety, tolerance

and efficacy of MP-11077/10 injection in MRI of the

liver" $74,625

Sterling-Winthrop Pharmaceuticals Jun 1994 – Aug1994

"Contrast enhanced magnetic resonance imaging

of the liver with intravenous WIN 59010-2 injection: A

multi-center, open label phase III study in patients

with highly suspected or known focal liver lesions

to assess delayed imaging." $14,250

Sterling-Winthrop Pharmaceuticals Dec 1993 – May 1995

"Contrast Enhanced Magnetic Resonance Imaging

of the Liver with Intravenous WIN 59010-2

Injection. A Multi-Center, Open Label study in

adults with known or suspected focal liver lesions"

St. Boniface Research Foundation Apr 1992 – Mar 1994

"Strategies for the Development of MRI

of the Abdomen" $111,250

St. Boniface Research Foundation Apr 1992 – Mar 1993

"Magnetic Resonance Imaging (MRI) Initiative"

$51,000 salary support

$50,000 operating funds

Manitoba Health Research Council Feb 1992 – Jan 1993

University-Industry Collaborative grant

"Data analysis of cardiovascular information

for magnetic resonance imaging". $116,550

Manitoba Health Research Council Jul 1990 – Oct 1990

Industrial Research Grant $17,938

**Professional Service**:

Contributor to American 1998 – present

Board of Radiology Oral Examination

Gastrointestinal Section

**Editorial Board** 1997 – present

Magnetic Resonance Imaging

**Editorial Board**

Journal of Magnetic Resonance Imaging 1996 – present

**Editorial Board** 2007 – present

Investigative Radiology

**Editorial Board** 1993 – present

Topics in Magnetic Resonance Imaging

**Editorial Board** 1997 – present

Magnetic Resonance Imaging

**Editorial Board** 2007 – present

Radiologia Brasileira (Journal of the Brazilian College of Radiology)

**Editorial Board** 2013 – 2020

European Radiology

**Reviewer**

Journal of Magnetic Resonance Imaging 1996 – present

Abdominal Imaging 1996 – present

Magnetic Resonance Imaging 1997 – present

European Radiology 2011 – present

Obstetrics and Gynecology 1994 – present

Radiology1991 – present

Investigative Radiology 2006 – present

Member 2007 – 2017

Pediatric Sedation Committee

UNC Hospitals

Member 2002 – 2006

Post Tenure Review Committee

Member 2001 – 2005

General Clinical Research Center

University of North Carolina at Chapel Hill

Member 2000 – 2006

Public Information Access Network

RSNA

Subcommittee Member 1999 – 2003

American College of Surgeons Commission on Cancer

Liver patient care evaluation committee

Member 1998 – 2004

Radiology Society of North America

Refresher Course

**Committees**:

Body Imaging Head of the Educational Committee 2014 - 2016

ISMRM

Member, Pediatric Sedation Committee Dec 2007 – 2017

UNC Hospitals

Member, Post Tenure Review Committee Dec 2002 – 2017

UNC Hospitals

Member 2000 – 2006

Public Information Access Network

RSNA

Member, Clinic Research Advisory Committee Sep 2001– 2017

General Clinical Research Center

University of North Carolina at Chapel Hill

Member, American College of Surgeons 1999 – 2001

Commission on Cancer

Subcommittee Member,

Liver patient care evaluation committee

Member, Radiology Society of North America Nov 1998 – 2006

Refresher Course Committee

Member Jul 1994 – 2017

Clinical Research Scientific Advisory Committee

General Clinical Research Center

University of North Carolina at Chapel Hill

Founder and Chairman of the Body Nov 1992 – present

Magnetic Resonance Research Group

Member July – Dec 1987

Academic Committee, University of Manitoba

Department of Radiology

Member, Postgraduate Committee July – Dec 1987

Department of Radiology

University of Manitoba

Member, Standards Committee, July – Dec 1987

Department of Radiology, Health Sciences Centre

**Professional Societies:**

Member, Radiological Society of North America

Member, International Society of Magnetic Resonance in Medicine