

**Douglas M. Coldwell, Ph.D., M.D.**

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**01AUG2018**

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**EDUCATION**

1967-1971 B.A. Materials Science, Rice University, Houston, TX  
1972-1975 Ph.D. Materials Science, Rice University, Houston, TX  
Dissertation: Thermodynamics of Fe-Cr-H Ternary Interstitial Solid Solutions  
1980-1983 M.D. Medicine, University of Texas Medical Branch, Galveston, TX  
1980-1983 Residency, Diagnostic Radiology, Pennsylvania State University, Hershey Medical Center, Hershey, PA  
1983-1984 Fellowship, Interventional Radiology, University of Texas System Cancer Center, M.D. Anderson Hospital and Tumor Institute, Houston, TX

**ACADEMIC APPOINTMENTS**

1984-1987 Assistant Professor  
Radiology and Medical Oncology  
George Washington University  
Washington, DC  
1987-1995 Director of Interventional Radiology, Professor of Radiology  
University of Washington  
Seattle, WA  
1995-1998 Director of Interventional Radiology and Chair, Radiology Denver Health Medical Ctr,  
Professor of Radiology and Surgery  
University of Colorado  
Denver, CO  
1998-2001 Director of Interventional Radiology  
Professor of Radiology and Surgery  
University of Maryland Medical System  
Baltimore, MD  
2001-2002 Director of Interventional Radiology  
Professor of Radiology  
Wake Forest University Medical Center  
Winston-Salem, NC  
2002-2003 Professor  
Interventional Radiology  
Fox Chase Cancer Center  
Philadelphia, PA  
2003-2005 Director of Interventional Radiology  
Professor of Radiology and Radiation Oncology  
University of Mississippi Medical Center  
Jackson, MS  
2005-2006 Clinical Professor  
Vascular and Interventional Radiology  
University of Texas Southwestern Medical Center  
Dallas, TX

2009-Present Director of Vascular and Interventional Radiology  
 Professor of Radiology and Bioengineering  
 Vice Chair of Radiology  
 University of Louisville  
 Louisville, KY

#### **OTHER POSITIONS AND EMPLOYMENT**

2/2001-5/2001 Interventional Radiologist  
 Clinical Diagnostic Radiology, Good Samaritan Hospital  
 Phoenix, AZ

2004-2005 SWAT Team Physician  
 Mississippi Highway Patrol  
 Jackson, MS

2006-2007 Member, Scientific Advisory Board  
 Light Sciences, Inc.  
 Snoqualmie, WA

2006-2007 Chief Medical Officer and Chief of Business Development  
 Adipose Division, Light Sciences, Inc.  
 Snoqualmie, WA

2005-2008 Chief Medical Officer  
 Sky Genetics, Inc.  
 San Diego, CA

2005-2007 Director, Interventional Oncology  
 Goshen Cancer Center  
 Goshen, IN

2007-2009 Interventional Radiologist  
 Jane Phillips Medical Center  
 Bartlesville, OK

#### **MILITARY SERVICE**

Major, MC, USAR

#### **CERTIFICATION AND LICENSURE**

##### **MEDICAL LICENSE**

1981-2003 Pennsylvania  
 1983-Present Texas  
 1984-1989 District of Columbia  
 1995-1998 Colorado  
 1998-2002 Maryland  
 2000-2002 Arizona  
 2001-2003 North Carolina  
 2003-Present Mississippi  
 2005-Present Indiana  
 2006-Present Washington  
 2007-Present Oklahoma  
 2007-Present Florida  
 2008-Present California

2008-Present Missouri  
 2009-Present Kentucky

### **CERTIFICATIONS**

1986 American Board of Radiology  
 1995, 2005 Certificate of Added Qualifications in Angiography and Interventional Radiology  
 1999, 2004 American College of Surgeons, Advanced Trauma Life Support Certification

### **PROFESSIONAL MEMBERSHIPS AND ACTIVITIES**

American Board of Radiology  
 Examiner, CAQ in Angiography/Interventional Radiology  
 Examiner, Diagnostic Radiology Oral Board  
 American Society of Clinical Oncology  
 International Society for Regional Cancer Therapy  
 American Association for Cancer Research  
 Southwest Oncology Group  
 Society of Interventional Radiology  
 1994: Fellow  
 2017: Committee on Interventional Radiology Practice  
 Western Angiographic and Interventional Society  
 1995: Program Chair, Annual Meeting  
 1996: Secretary/Treasurer  
 1997: President  
 American Roentgen Ray Society  
 American College of Radiology  
 2008: Fellow  
 American Heart Association  
 1996: Fellow  
 Special Operations Medical Association  
 International Tactical Emergency Medicine Society  
 International Hepato-Pancreato-Biliary Association  
 American Hepato-Pancreato-Biliary Association  
 American Physical Society  
 Materials Research Society  
 Electrochemical Society  
 Society of Interventional Oncology  
 Founding Fellow  
 Grant Application Reviewer, Polish National Institutes of Health

### **HONORS AND AWARDS**

1963 Eagle Scout  
 1972-1975 Rice University Fellow  
 1984 Certificate of Merit, Annual Clinical Training Research Project Competition, University of Texas System  
 Cancer Center, M.D. Anderson Hospital and Tumor Institute  
 1989 Conrad Jobst Award, Southeastern Surgical Society Annual Meeting  
 1990 Best Paper, Seattle Surgical Annual Meeting  
 1991 Roscoe Miller Award for Best Original Scientific Paper at Gastrointestinal Radiology Society Meeting  
 1995, 1996 Certificate of Appreciation of Trauma Care, Rocky Mountain Region Trauma Center  
 1999 First in US to perform yttrium microsphere therapy of unresectable liver tumors

2010	Named as a "Top Radiologist"
2002-Present	Named as one of "America's Top Doctors"
2002-Present	First to perform yttrium microsphere therapy of unresectable liver tumors in Italy, Germany, United Kingdom, Turkey
2010	Appointment to the honorable order of Kentucky Colonels by Governor Steve Beshear
2017	Nomination to US Army ROTC Hall of Fame
2018	Distinguished graduate of Highland Park High School, Dallas, TX

## COMMITTEE ASSIGNMENTS AND ADMINISTRATIVE SERVICES

1987-1988	Inter-Society Affairs Committee Regional Representative, Society of Cardiovascular and Interventional Radiology
1988-1990	Co-chairman of task force to evaluate the therapeutic efficacy of arterial embolization, Southwest Oncology Group (Sole Radiology member)
1988-1995	Washington Technology Center, Compound Semiconductor Technology Center Advisory Committee
1988-1995	Army ROTC Advisory Committee
1990-1992	Faculty Senate, University of Washington
1990-1992	Operating Room Committee, University of Washington
1991-2003	Scientific Program Committee, Society of Cardiovascular and Interventional Radiology
1991-2003	Education Committee, Society of Cardiovascular and Interventional Radiology
1991-2005	Fellowship Program Director Committee, Society of Cardiovascular and Interventional Radiology
1991-1995	Young Investigator Award Committee, Society of Cardiovascular and Interventional Radiology
1992-1995	Scientific Program Committee, American Heart Association
1993-2008	Continuing Medical Education Committee, Western Angiographic and Interventional Society
1993-1995	Technology Assessment Committee, Society of Cardiovascular and Interventional Radiology
1993-2008	Executive Committee, Western Angiographic and Interventional Society
1994-1999	FDA Liaison Committee, Society of Cardiovascular and Interventional Radiology
1995-1998	Annual Meeting Committee, Society of Cardiovascular and Interventional Radiology
1995-1998	Colorado State Regional Trauma Committee
1995-1998	Denver Health Medical Center Critical Care Committee
1995-1998	Denver Health Medical Center Committee on Physician Compensation
1995-1998	Denver Health Medical Center Operating Room Committee
1995-1998	University of Colorado Radiology Department Education Committee
1995-1998	University of Colorado Radiology Department Promotions Committee
1995-1998	Denver Health Medical Center Long Range Systems Planning Group
1995-1998	Denver Health Medical Center Directors of Service Committee
1996	Program Chairman, Annual Meeting, Western Angiographic and Interventional Society
1996-1997	Secretary-Treasurer, Western Angiographic and Interventional Society
1997-1998	President, Western Angiographic and Interventional Society
2004-2006	EMT Trainer, Mississippi Highway Patrol SWAT School
2011-Present	Radiologic Devices Panel, Center for Devices and Radiologic Health, Food and Drug Administration, Bethesda, MD

## CAMPUS ACTIVITIES

1989-1995	Director, Vascular and Interventional Radiology Fellowship, University of Washington
1998-2003	Policy and Procedures Committee, Diagnostic Radiology, University of Maryland
	Director, Vascular and Interventional Radiology Fellowship, University of Maryland
1999-2001	Promotion Committee, Diagnostic Radiology, University of Maryland

2003-2005	Education Committee, University of Mississippi
2003-2005	Director, Vascular and Interventional Radiology Fellowship, University of Mississippi
2005-2006	Institutional Review Board, University of Texas Southwestern Medical Center
2010-Present	Residency Education Committee, Department of Radiology, University of Louisville
2010-Present	Peer Review Committee, University of Louisville
2010-Present	New Technology Assessment Committee, University of Louisville Hospital
2010-Present	Institutional Review Board, University of Louisville
2017-Present	Fellowship Program Director, University of Louisville
2014	5 yr Review Committee of Chair of Medicine at University of Louisville
2015-Present	University and Hospital Disaster Management Committee at University of Louisville
2013-2017	University of Louisville Physicians Board of Directors Executive Committee Finance Committee Contract Negotiations Committee Retirement Benefits Committee

### EDUCATIONAL ACTIVITIES

1987-1992	Taught Materials Science and Engineering 466, Electronic Structure of Materials, University of Washington
1988-1995	Guest Lecturer, Materials Science and Engineering 466, University of Washington
1990-1995	Guest Lecturer, Bioengineering 400, Introduction to Bioengineering Materials, University of Washington
1990-1995	Lecturer in Diagnostic and Interventional Radiology at Madigan Army Medical Center
1991-1995	Semimonthly Radiology Resident Conferences, University of Washington Medical Center
1991-1995	Semimonthly Fellow Teaching Conferences, University of Washington Medical Center
1990-1995	Yearly Radiology Resident Angiography/Interventional Radiology Course, University of Washington Medical Center
1995-1998	Yearly Radiology Resident Angiography/Interventional Radiology Course, University of Colorado Medical Center
1998-2001	Yearly Radiology Resident Angiography/Interventional Radiology Course, University of Maryland Medical Center
2001-2002	Yearly Radiology Resident Angiography/Interventional Radiology Course, Wake Forest University
2002-2003	Yearly Radiology Resident Angiography/Interventional Radiology Course, University of Pennsylvania
2003-2005	Yearly Radiology Resident Angiography/Interventional Radiology Course, University of Mississippi
2005-2006	Yearly Radiology Resident Angiography/Interventional Radiology Course, University of Texas Southwestern Medical Center
2009-Present	Yearly Radiology Resident Angiography/Interventional Radiology Course, University of Louisville

### GRANTS AND CONTRACTS

1. George Washington University and National Institutes of Health Basic Science Research Grant NIH-2-507-RR-05359-23 #8-85, Differential Response of the Rabbit V2 Tumor to Intraarterial and Intravenous Delivery of the Radiation Sensitizer SR-2508. Awarded 1985 (Principal Investigator).
2. Departmental Funding for the Establishment of the Rabbit V2 Carcinoma Model at the University of Washington and the initial evaluation of the model for evaluation of hepatic arterial embolization mechanisms of action, August 1989.
3. Mallinckrodt Medical Inc. Determination of the ideal size embolization particle for arterial embolization for tumor therapy, 1990 (Principal Investigator).
4. ATL Inc. Differential Doppler ultrasound detection of hepatic tumors with enhancement of portal venous flow, 1990.
5. Cook Inc. Clinical trial of a new nonionic contrast material, 1991 (Co-investigator).

6. Schneider Inc. Clinical efficacy of the Wallstent TIPS endoprosthesis (Co-investigator nationally, principal investigator locally), 1994.
7. Radio-Therapeutics Inc., testing of the RF ablation of VX2 tumors in rabbits, 1997.
8. Schneider, Inc. Optimal anticoagulation regimen for intra-arterial stents in the swine model, 1997.
9. Conceptus, Inc. RF GDC coils for Fallopian tube occlusion in rabbits, 1997.
10. Genentech, Inc. Recombinant Tissue Plasminogen Activator for the restoration of function to central venous access, Principal investigator, 1999.
11. Boston Scientific Corporation, Wallgraft Trauma Trial, Co-investigator nationally, principal investigator locally, 2000.
12. Bard Corporation, Unrestricted Research Grant for Clinical Follow-up of Central Venous Access Catheters, Principal Investigator, 2000.
13. Boston Scientific Corporation, Unrestricted Research Grant for Radiofrequency Ablation of Tumors, Principal Investigator, 2000.
14. Sirtex Medical, Inc. Unrestricted Research Grand for Investigation of the Treatment of Unresectable Tumors Utilizing Intra-arterial Embolization of Yttrium-90 containing Microspheres, 2003, 2004.

### ***Clinical Research Protocols, Principal Investigator***

#### *National Protocols*

1. Mortimer J, Coldwell DM: 5-FU/Leukovorin and Embolization in the Treatment of Duke's D Colon Cancer, A Phase II Study, Southwest Oncology Group Protocol 8820.

#### University of Washington Protocols

1. Mortimer J, Coldwell DM: Fluorouracil/Leukovorin and Embolization in the Treatment of Duke's D Colon Cancer, A Phase II Study.
2. Coldwell DM, Pohlman T, Ellis G, Mortimer J; Changes in Tumor Necrosis Factor and Endotoxin Levels after Hepatic Arterial Embolization.
3. Collins C, Coldwell DM. Conrad E, Griffin B: Combined Multimodality Neo-adjuvant Therapy in the Treatment of Sarcomas.
4. Coldwell DM, Johansen K: Randomization Between Operative Portocaval Shunts and TIPS in Child's A and B Patients.
5. Coldwell DM: Clinical Evaluation of the Transit Infusion Catheter.
6. Terasaki G, Coldwell DM, Nelson J: Arterial Ketone Body Ratios: A Predictor of Hepatic Function in TIPS.
7. Coldwell DM, Glickerman D, Harley J, Althaus S, Patel N: Evaluation of a Metallic Expandable Stent in Treatment of Large Vessel Stenoses.

#### University of Colorado Protocols

1. Coldwell DM, Ryu R, Novak Z, Kumpe D, Durham J, Krysl J: Placement of a temporary Inferior Vena Caval Filter.

#### University of Maryland Protocols

1. Coldwell DM, VanEcho D, Levy S, Hastings G, Boyd-Kranis R, Murthy R, Santilli J, Radack D: Chemoembolization and Radiofrequency Ablation of Hepatocellular Carcinomas, Principal Investigator.
2. Coldwell DM, VanEcho D, Levy S, Hastings G, Boyd-Kranis R, Murthy R, Santilli J, Radack D: Superselective Infusion of Intra-arterial Platinol in the Treatment of Maximally Treated Head and Neck Squamous Cell Carcinomas, Principal Investigator.
3. Coldwell DM, Wesley BA, Hastings G, Boyd-Kranis R, Murthy R, Santilli J, Radack D Recombinant Tissue Plasminogen Activator for the restoration of function to central venous access, Principal investigator.

University of Mississippi Protocols

1. Coldwell DM, Sewell PE. Yttrium-90 containing microspheres in the treatment of unresectable tumors. Principal Investigator.
2. Sewell PE, Coldwell DM. Use of Radiofrequency Ablation in the treatment of lung cancer. Co-investigator.

University of Louisville Protocols – IRB approved

1. Complications of Subcutaneous Port Placement. Principal investigator.
2. Review of imaging results of arteriography and the calculation of fractal dimension to determine tumor from non-tumor areas of the liver and kidney. Principal investigator.
3. Review of imaging and clinical results of Selective Internal Radiation Treatment. Multi-institutional study. Local principal investigator, co-investigator on entire study.
4. Internal dosimetry of patients undergoing selective internal radiation therapy treatment for unresectable hepatic tumors. Principal investigator in cooperation with Oak Ridge National Laboratories.
5. BCC-RAD-11-01 Randomized Phase II Trial of Stereotactic Radiation Therapy (SRT) versus SRT plus Vertebral Augmentation Procedure (VAP) for Vertebral Metastasis. Co-investigator. Woo S, Principal investigator.

**EDITORIAL WORK**Editorial Board

1990-1999	Oncology and Biotechnology News
1993-1998	Medithesis, A Central Venous Access Journal
1999-Present	RadioGraphics
2005	Editor, RadioGraphics Special Issue on Vascular and Interventional Radiology
1999	Guest Editor, SCVIR Case Club of the Month, December
2002-Present	US Editor, Chinese Journal of Interventional Radiology
2008-Present	Journal of Special Operations Medicine Editorial Board
2010-Present	Medical Advisor, <i>RadiologyInfo.org</i> sponsored by Radiological Society of North America

Manuscript Review

1976-Present	Journal of the Electrochemical Society
1986-Present	Radiology
1988-Present	RadioGraphics
	Distinguished Reviewer, 1991, 1992, 1993, 1995, 1998-2017
	Abstractor
1990-Present	Journal of Vascular and Interventional Radiology
	Distinguished Reviewer, 1992, 1993, 1995, 1997, 2002-7
1992-1995	Diabetes Care
2008-Present	Journal of Special Operations Medicine
2010-Present	International Journal of Hepatology
2013-Present	The Scientific World Journal
2013-Present	Editorial Board
2013-Present	American Journal of Clinical Oncology
2017-Present	Applied Physics Letters

Book Reviewer

Radiology  
Journal of the Electrochemical Society

On-line Forums

Expert of the Month, May 2000, Endovascular Forum  
 Chemoembolization  
 Radiofrequency Ablation of Tumors

**ABSTRACTS AND PRESENTATIONS*****POSTERS***

1. **Coldwell DM**, Mortimer J: Effect of Selective Hepatic Artery Embolization, American Society of Clinical Oncology, 1989.
2. **Coldwell DM**, Mortimer J: Effect of Selective Hepatic Artery Embolization, Washington State Medical Society Annual Meeting, September 1989.
3. **Coldwell DM**, Mortimer J: Effect of Selective Hepatic Artery Embolization, Southwest Oncology Group Fall Meeting, November 1989.
4. Thomas CR Jr., **Coldwell DM**, Althaus SJ, Chambers L. Alternating systemic protracted continuous infusion 5FU and regional transarterial chemoembolization. American Association for Cancer Research Annual Meeting, May 1993.
5. Matsuo RT, Patel NH, **Coldwell DM**, Graney DO. Anatomic Basis of Anterior and Posterior Celiac Plexus Block. Radiological Society of North America Annual Meeting, November 1994.
6. Richard HM, **Coldwell DM**, Novak Z, Hastings GS, Boyd-Kranis RL, Murthy R, Radack DM. Pleurex tunneled catheter in the management of malignant ascites. SCVIR Annual Meeting, March 2000.
7. **Coldwell DM**, VanEcho DD, Murthy R, Boyd-Kranis RL, Hastings GS, Radack DM. Feasibility of treatment of hepatic tumors utilizing embolization with Yttrium-90 glass microspheres. SCVIR Annual Meeting, March 2001.
8. VanEcho DA, Kennedy A, **Coldwell DM**, Murthy R, Sarfaraz M, Line B. Therasphere for mixed hepatic cancers at 143 Gy median dose, feasibility and toxicities. ASCO Annual Meeting, May 2001.
9. **Coldwell DM**. Comparison of the properties and patient related experience of the first twelve resin and glass based microspheres for treatment of unresectable hepatic tumors. SCVIR Annual Meeting, March 2003.
10. Kennedy AS, **Coldwell DM**, Nutting C, et al. Liver brachytherapy for unresectable colorectal metastases: US results 2000-2004. ASCO Gastrointestinal Malignancies Conference, Miami, January 2005.
11. **Coldwell DM**. Treatment of cholangiocarcinoma utilizing Yttrium-90 intra-arterial brachytherapy. World Congress of GI Cancer, Barcelona, June 2006.
12. **Coldwell D**, Kennedy A, Sangro B, Wasan H, Turner D. Integrating radioembolisation into current treatment options for liver tumors: An international working group report. World Congress on Interventional Oncology, 2008.
13. Kennedy A, Ball D, Cohen S, Cohn M, **Coldwell D**, et al. USA Patients Receiving Resin 90Y Microspheres for Unresectable Colorectal Liver Metastases: A Multi-Center Study of 606 patients. ASCO Annual Meeting, 2012.
14. Jennings, Jack; Irving, Winston; Georgy, Bassem; **Coldwell, Douglas**; Zablou, Bruce; DePena, Charles; Brook, Allan. Image-guided targeted radiofrequency ablation (t-RFA) of spinal tumors using a novel bipolar navigational device: Multicenter initial clinical experience. Society of Interventional Radiologists Annual Meeting, 2013.
15. Shi H, Hite M, Palmer G, **Coldwell D**. Quantitative analysis of tumor vasculature in hepatocellular carcinoma. Society of Interventional Radiologists Annual Meeting, 2013.
16. Kennedy A, Ball D, Cohen S, Cohn m, **Coldwell D**, Drooz A, Ehrenwald E, Kanani S, Moselein F, Nutting C, Putnam S, Rose S, Savin M, Schirm S, Sharma N, Wang E. Central review of radiologic response following radioembolization with yttrium-90-labeled resin microspheres in unresectable liver-dominant metastases from colorectal cancer. American College of Radiation Oncology Annual Meeting, Orlando, February 2014.
17. Kennedy A, Ball D, Cohen S, Cohn m, **Coldwell D**, Drooz A, Ehrenwald E, Kanani S, Moselein F, Nutting C, Putnam S, Rose S, Savin M, Schirm S, Sharma N, Wang E. Safety and efficacy of radioembolization in elderly ( $\geq 70$  years) and very elderly ( $\geq 75$  years) patients compared with younger patients with resectable liver-dominant colorectal cancer. American College of Radiation Oncology Annual Meeting, Orlando, February 2014.

18. Kennedy A, Ball D, Cohen S, Cohn m, **Coldwell D**, Drooz A, Ehrenwald E, Kanani S, Moselein F, Nutting C, Putnam S, Rose S, Savin M, Schirm S, Sharma N, Wang E. Impact of baseline laboratory values on survival following radioembolization in patients with unresectable, liver-dominant colorectal metastases. American College of Radiation Oncology Annual Meeting, Orlando, February 2014.
19. Kennedy A, Ball D, Cohen S, Cohn m, **Coldwell D**, Drooz A, et al. Multicenter evaluation of the safety and efficacy of radioembolization with <sup>90</sup>Y resin microspheres in 606 patients with unresectable colorectal liver metastases. American College of Radiation Oncology Annual Meeting, Orlando, February 2014.
20. Kennedy AS, Ball D, Cohen SJ, Cohn S, **Coldwell DM**, et al. Pre-90y hepatic radiotherapy hemoglobin and liver functions predict overall survival in unresectable, chemotherapy refractory metastatic colorectal cancer. American Society of Clinical Oncology Gastrointestinal Cancer Meeting, San Francisco, January, 2014.
21. Kennedy A, Ball D, Cohen S, Cohn m, **Coldwell D**, Drooz A, Ehrenwald E, Kanani S, Moselein F, Nutting C, Putnam S, Rose S, Savin M, Schirm S, Sharma N, Wang E. Impact of baseline laboratory values on survival following radioembolization in patients with unresectable, liver-dominant colorectal metastases. American College of Radiation Oncology Annual Meeting, Orlando, February 2014.
22. Schacht M, Sharma V, **Coldwell D**. The Impact of KRAS mutation on Radioembolization in the Treatment of Unresectable Liver Predominant Metastatic Colorectal Cancer. American Society of Clinical Oncology Gastrointestinal Cancer Meeting, San Francisco, January, 2014.
23. Schacht M, **Coldwell D**. Using Fast-Track Registration Improves Start Times and Decreases Time-In Hospital in Outpatient Subcutaneous Ports Placed in the Interventional Radiology Department. RSNA 101<sup>st</sup> Scientific Assembly and Annual Meeting, November 29-December 4, 2015.
24. Kennedy AS, Cohn M, **Coldwell DM**, Drooz A, Ehrenwald E, Kaiser A, et al. Updated Survival Outcomes and Analysis of Long-term Survivors from the MORE Study on Safety and Efficacy of Radioembolization in Patients with Unresectable Colorectal Cancer Liver Metastases. ASCO Gastrointestinal Oncology Meeting, January, 2017.
25. Zuberi O, **Coldwell D**, Potts M. The Forgotten Artery: Clinical implications of the epiploic (omental) arteries; a case and systemic review. SIR Annual Meeting, March 2018.
26. Zuberi O, Dinglasan L, **Coldwell D**, Potts M. Arterial Complications of Pancreatitis. SIR Annual Meeting, March 2018.
27. Hopewell P, Samman M, **Coldwell D**. Management of stomal variceal hemorrhage in the setting of portal hypertension: an overview of the pathophysiology and an approach to interventional management of this less common but life-threatening emergency. SIR Annual Meeting, March 2018.

### **Scientific Presentations**

1. **Coldwell DM**, Roques R: Silicon by Reduction of Silicon Dioxide with Carbon in a Plasma. Electrochemical Society Meeting, April 1977.
2. **Coldwell DM**, Wright K, Wallace S, et al.: The Comparative Efficacy of Intraarterial Administration of Misonidazole in the Treatment of Rabbit V2 Carcinoma. Radiological Society of North America Annual Meeting, November 1984.
3. Varnell R, **Coldwell DM**, Sangeorzan B, Johansen K: Arterial injury Complicating Knee Disruption. American College of Surgeons Meeting, October 1988.
4. Loper K, **Coldwell DM**, Dowling K: Celiac Plexus Block as Anesthesia in Hepatic Arterial Embolization. American Society for Regional Anesthesia, October 1988.
5. **Coldwell DM**: Control of Hemorrhage in Massive Blunt Trauma. Radiological Society of North America Annual Meeting, November 1988.
6. Varnell R, **Coldwell DM**, Sangeorzan B, Johansen K: Knee Dislocations and Resulting Arterial Injury. Southeastern Surgical Society, January 1989. Gold Medal Recipient.
7. **Coldwell DM**, Yakes W: Workshop on Embolotherapy. SCVIR Annual Meeting, March 1989.
8. **Coldwell DM**, Mortimer J: Southwest Oncology Group Study 8820: Combined 5FU/Leukovorin and Hepatic Arterial Embolization in the Treatment of Duke's D Carcinoma of the Colon. Southwest Oncology Principal Investigator's Meeting, April 1989.

9. **Coldwell DM:** Celiac Plexus Block for Upper Abdominal Interventional Procedures. Western Angiographic and Interventional Radiology Society Annual Meeting, August 1989.
10. **Coldwell DM:** Bone Embolization. Western Angiographic and Interventional Radiology Society Annual Meeting, August 1989.
11. **Coldwell DM, Loper K:** Celiac Plexus Block for Treatment of Postembolization Syndrome Pain due to Hepatic Arterial Embolization. Radiological Society of North America Annual Meeting, November 1989.
12. Simmons R, Sinanan M, **Coldwell DM:** Surgical Treatment of Postembolization Complications, Seattle Surgical Society, January 1990.
13. Eddy AC, Nance DR, Goldman ML, **Coldwell DM, Verrier ED, Carrico CJ:** Digital Subtraction Angiography: A Screening Examination for Traumatic Thoracic Aortic Injury, Seattle Surgical Society, January 1990.
14. Moore A, Wang K, Cyr D, **Coldwell DM:** Evaluation of Hepatic Tumor Embolization with Doppler Ultrasound. Society of Cardiovascular and Interventional Radiology Annual Meeting, March 1990.
15. **Coldwell DM, Vogelzang R:** Workshop on Pain Management. Society of Cardiovascular and Interventional Radiology Annual Meeting, March 1990.
16. **Coldwell DM, Yakes W:** Workshop on Embolotherapy. Society of Cardiovascular and Interventional Radiology Annual Meeting, March 1990.
17. **Coldwell DM, Mortimer J, Ellis G, Collins C, Livingston R:** Patient Selection for Embolotherapy for Treatment of Hepatocellular Carcinoma (HCC). ARRS Annual Meeting, April 1990.
18. **Coldwell DM, Pohlman T, Perkins J, Shuman W:** Influence of CT Portography on Surgical Decision making for Hepatic Resections. RSNA Annual Meeting, 1990.
19. Nelson JA, Starr FR, Schenck EM, **Coldwell DM:** Percutaneous Portocaval Shunt. Gastrointestinal Radiology Annual Meeting, February 1991.
20. Katz M, **Coldwell DM, Ben-Menachem Y, Hofer G:** Postoperative Angioplasty of Occluded Portocaval Shunts, proceedings of the Society of Cardiovascular and Interventional Radiology Annual Meeting, February 1991.
21. **Coldwell DM, Johansen K.** TIPS: The University of Washington Experience in 12 Patients. Pacific Northwest Vascular Surgery Society, September 1991.
22. **Coldwell DM, Kerlan R:** Workshop on Embolotherapy, Society of Cardiovascular and Interventional Radiology Annual Meeting, February 1991.
23. **Coldwell DM, Yakes W:** Workshop on Interventional Techniques, Society of Cardiovascular and Interventional Radiology Annual Meeting, April 1992.
24. **Coldwell DM:** Refresher Course on Embolotherapy, Society of Cardiovascular and Interventional Radiology Annual Meeting, April 1992.
25. **Coldwell DM:** Refresher Course and Moderator Session on Embolotherapy, Radiological Society of North America Annual Meeting, November 1992.
26. **Coldwell DM:** Intra- and Post-procedural Pain Management in Hepatic Arterial Embolizations, Society of Cardiovascular and Interventional Radiology Annual Meeting, March 1993.
27. **Coldwell DM:** Optimization of Embolic Agent Size, Society of Cardiovascular and Interventional Radiology Annual Meeting, March 1993.
28. **Coldwell DM, Widlis D, Griffith D:** Workshop on Embolotherapy, Society of Cardiovascular and Interventional Radiology Annual Meeting, March 1993.
29. Darcy M, **Coldwell DM:** Workshop on TIPS, Society of Cardiovascular and Interventional Radiology Annual Meeting, March 1993.
30. **Coldwell DM:** Moderator, Embolization and Chemoembolization of Tumors Society of Cardiovascular and Interventional Radiology Annual Meeting, March 1993.
31. **Coldwell DM:** Moderator, Interventional Radiology and Cancer, International Congress of Radiation Oncology, Kyoto, Japan 1993.
32. **Coldwell DM:** Hepatic Embolotherapy of Metastatic Colorectal Cancer, International Congress of Radiation Oncology, Kyoto, Japan, June 1993.
33. **Coldwell DM:** Use of Intravascular Ultrasound in TIPS, Western Angiographic and Interventional Society Annual Meeting, October 1993.

34. **Coldwell DM:** Refresher Course and Moderator Session on Embolotherapy, Radiological Society of North America Annual Meeting, November 1993.
35. **Coldwell DM:** Moderator, Interventions in the Liver, Radiological Society of North America Annual Meeting, November 1993.
36. **Coldwell DM:** Workshop on TIPS, Society of Cardiovascular and Interventional Radiology Annual Meeting, March 1994.
37. **Coldwell DM:** Moderator, Embolization and Chemoembolization of Tumors, Society of Cardiovascular and Interventional Radiology Annual Meeting, March 1994.
38. **Coldwell DM:** Workshop on Chemoembolization, Society of Cardiovascular and Interventional Radiology Annual Meeting, March 1994.
39. **Coldwell DM:** Refresher Course and Moderator Session on Embolotherapy, Radiological Society of North America Annual Meeting, November 1994.
40. **Coldwell DM:** Moderator, TIPS, Radiological Society of North America Annual Meeting, November 1994.
41. **Coldwell DM:** Moderator, Embolization, Radiological Society of North America Annual Meeting, November 1994.
42. **Coldwell DM:** Interventional Radiology in Trauma, Asian Pacific Cardiovascular and Interventional Radiology Society, Melbourne Australia, April 1997.
43. **Coldwell DM:** Embolic materials, Fourth Conference on Practical Interventional Radiology, Prague, June 1997.
44. **Coldwell DM:** Interventional Radiology in Trauma, Fourth Conference on Practical Interventional Radiology, Prague, June 1997.
45. **Coldwell DM:** Workshop on Trauma Interventional Radiology, Society of Cardiovascular and Interventional Radiology Annual Meeting, San Francisco, CA, March 1998.
46. **Coldwell DM:** Role of Interventional Radiologist in Trauma. Western Angiographic and Interventional Society Meeting, Santa Fe, NM, September 20-29, 1998.
47. **Coldwell DM:** Role of Interventional Radiologist in Trauma, Society of Cardiovascular and Interventional Radiology Annual Meeting, Orlando, FL, March 1999.
48. **Coldwell DM:** Workshop on Tumor Ablation Devices, Society of Cardiovascular and Interventional Radiology Annual Meeting, Orlando, FL, March 1999.
49. **Coldwell DM:** Tissue Plasminogen Activator in Peripheral Vascular Disease, Western Angiographic and Interventional Society Annual Meeting, Kuai, Hawaii, September 1999.
50. **Coldwell DM:** Advances in loco-regional cancer therapy, Western Angiographic and Interventional Society Annual Meeting, Kuai, Hawaii, September 1999.
51. **Coldwell DM:** Trauma Interventional Radiology, R. Adams Cowley National Trauma Symposium, Baltimore, MD, November 1999.
52. **Coldwell DM:** Blunt Carotid Trauma, R. Adams Cowley National Trauma Symposium, Baltimore, MD, November 1999.
53. **Coldwell DM:** Pilot study of chemoembolization of liver metastases from colorectal cancer patients with Irinotecan followed by radio-frequency ablation, Focus on Locoregional Cancer Therapy: From neoadjuvant to palliative treatments, Ravenna, Italy, March 2000.
54. **Coldwell DM:** Workshop on Trauma, , Society of Cardiovascular and Interventional Radiology Annual Meeting, San Diego, CA, March 2000.
55. **Coldwell DM:** Moderator, Renal Interventions, Society of Cardiovascular and Interventional Radiology Annual Meeting, San Diego, CA, March 2000.
56. **Coldwell DM:** Embolization in Trauma, Asia-Pacific Congress of Cardiovascular and Interventional Radiology, Singapore, July 2000.
57. **Coldwell DM:** Stents in Trauma, Asia-Pacific Congress of Cardiovascular and Interventional Radiology, Singapore, July 2000.
58. **Coldwell DM:** Venous Access, Asia-Pacific Congress of Cardiovascular and Interventional Radiology, Singapore, July 2000.
59. **Coldwell DM:** Radiofrequency Ablation and locoregional therapy of malignant neoplasms, Asia-Pacific Congress of Cardiovascular and Interventional Radiology, Singapore, July 2000.

60. **Coldwell DM**, Kennedy AS, Murthy R, et al. Safety and immediate efficacy of intra-arterial treatment of 150 consecutive patients with yttrium-90 containing microspheres. SCVIR Annual Meeting, March 2003.
61. Kennedy AS, **Coldwell DM**, Nutting C, et al. Liver brachytherapy for unresectable colorectal metastases: US results 2000-204. ASCO Gastrointestinal Malignancies Conference, Miami, January 2005.
62. Kennedy A, **Coldwell D**, Nutting C, Overton C, Sailer S. Hepatic brachytherapy for GI neuroendocrine tumors with 90-Y microspheres: Long term US experience. ICACT Annual Meeting, Paris, France, February, 2005.
63. **Coldwell DM**, Kennedy AS, et al. Treatment of unresectable metastatic neuroendocrine tumors in the liver with intra-arterial brachytherapy using yttrium-90 microspheres. World Congress of Gastrointestinal Cancer, Barcelona, June 2005.
64. **Coldwell, DM**. Arterial interventions in the musculoskeletal system. RSNA Annual Meeting, December 2005.
65. **Coldwell DM**. Yttrium-90 in the treatment of unresectable hepatic tumors. Colorectal Cancer: Translational Research and Clinical Application, Rome, Italy, December 2005.
66. **Coldwell DM**. Yttrium-90 in the management of unresectable tumors. UT Southwestern Medical Center Diagnostic Radiology Update, Dallas, TX, March 2006.
67. **Coldwell DM**. Techniques and tips in utilizing 90Yttrium in the treatment of unresectable hepatic tumors. 3rd European Symposium on Liver-Directed Cancer Therapy using 90Y Microspheres, Munich, Germany, June 2010.
68. Hite M, **Coldwell D**. Fractal dimensionality of normal versus tumoral blood vessels in hepatocellular carcinoma. 7<sup>th</sup> International Conference on Industrial and Applied Mathematics, 2011.
69. Jennings J, Georgy B, **Coldwell D**, et al. Targeted radiofrequency ablation (t-RFA) of spinal tumors using a novel bipolar navigational device: Multicenter US initial clinical experience. WCIO, May 2013.
70. **Coldwell DM**. Use of SirSpheres or TACE in the treatment of Breast Cancer Metastases to the Liver, 3rd International Local Therapy for Liver Tumor Conference, Essen, April 2013.
71. Hopewell PN, Schulz BJ, Van Meter TL, Martin RCG, **Coldwell DM**. Vascular findings on short-term follow-up computed tomography associated with irreversible electroporation (IRE) of locally advanced pancreatic cancer. RSNA Annual Meeting, November 2016.
72. Priddy E, **Coldwell D**, Potts M. Predictors of positive angiography in trauma patients with negative CT. SIR Annual Meeting, March 2018.
73. Priddy E, Khan M **Coldwell D**, Potts M. Predictors of 90-day mortality in Y90 radioembolization for hepatic metastatic disease. SIR Annual Meeting, March 2018.
74. Ghazi C, Peterson S, **Coldwell D**, Dinglasan L. Does timing of radiation treatment affect endovascular stenting procedure parameters in the treatment of SVC syndrome? SIR Annual Meeting, March 2018.

### ***Invited Presentations***

1. Mechanisms of Action and Possible Uses of the Radiation Sensitizer, Misonidazole. Department of Biology and Biochemistry, Rice University, March 1984.
2. Embolization and Intraarterial Infusion of Chemotherapy in the Treatment of Solid Neoplasms. George Washington University, Department of Medicine Grand Rounds, October 1984.
3. Diagnostic Radiology in the Staging of Cancer. George Washington University Oncology Board Review Course, October 1985.
4. Interventional Radiology in Cancer Treatment. George Washington University Oncology Board Review Course, October 1985.
5. Transcatheter Management of Neoplasms. Howard University Cancer Center Grand Rounds, September 1986.
6. Interventional Radiology in the Thorax. Department of Medicine, Pulmonary Grand Rounds, University of Washington, June 1987.
7. Applications of Transcatheter Embolization. Department of Medicine, Hematology-Oncology Grand Rounds, University of Washington, February 1988.
8. Treatment of Hepatomas. Department of Medicine, Gastroenterology Grand Rounds, University of Washington, February 1988.

9. Transcatheter Diagnosis and Treatment of Hyperparathyroidism. Department of Medicine, Endocrinology Grand Rounds, University of Washington, February 1988.
10. Memory Metals and Possible Biomedical Applications, Department of Materials Science and Engineering Seminar, University of Washington, April 1988.
11. Visceral Embolization, an Update. Department of Radiology Grand Rounds, University of Washington, January 1989.
12. Complications of Arterial Embolotherapy, Department of Surgery, University of Washington, March 1989.
13. Radiologic Aspects of Thrombolytic Therapy, Surgical Grand Rounds, Skagit Valley Hospital, June 1989.
14. Digital Subtraction Angiography: A Clinical Perspective. Imaging on Lake Coeur d'Alene, CME Course presented by the University of Washington, August 1989.
15. Hepatic Neoplasms: Diagnosis and Treatment. Imaging on Lake Coeur d'Alene, CME Course presented by the University of Washington, August 1989.
16. University of Washington Experience with Angiographic Embolization of Unresectable Hepatic Metastases, Recent Advances in the Multidisciplinary Management of Colon and Rectal.
17. Carcinoma, CME Course presented by University of Washington, February 1990.
18. Percutaneous Gastrostomies, Otorhinolaryngology Grand Rounds, University of Washington, February 1990.
19. Interventional Radiologic Devices or Toys-R-Us, Radiation Oncology Grand Rounds, University of Washington, March 1990.
20. The Role of Intraarterial Chemotherapy in the Treatment of Soft Tissue and Bone Sarcomas, Recent Advances in the Management of Soft Tissue and Bone Sarcomas, CME Course presented by the University of Washington, September 1990.
21. Diagnostic and Therapeutic Hepatic Angiography, Western Angiographic and Interventional Society, October 1990.
22. Infusion and Arterial Embolization of Malignant Tumors, Hematology-Oncology Grand Rounds, University of Washington, October 1990.
23. Hepatic Arterial Embolotherapy for Hepatic Metastases, Harrisburg Hospital, December 1990.
24. AZ Ritzmann Memorial Lectureship, Embolotherapy of Hepatic Metastases, South Central Pennsylvania Radiologic Society, December 1990.
25. New Modality in the Treatment of Metastatic Liver Cancer, Evergreen Hospital, Seattle, Washington, March 1991.
26. Pain Control of Metastases Using Embolotherapy, Pain Service Grand Rounds, University of Washington, August 1991.
27. Embolotherapy, Radiology Day Lecture at Good Samaritan Hospital, Eugene Oregon, October 1991.
28. Transcatheter Therapy of Hepatomas, Gastroenterology Grand Rounds, November 1991.
29. TIPS, Stents and Beyond, Surgery Grand Rounds, University of Washington, May 1992.
30. TIPS: Initial Clinical Experience, medical Grand Rounds, Madigan Army Medical Center, Tacoma, WA, June 1992.
31. The Radiologic Evaluation and Placement of Hickman Catheters, Physician's Advisory Panel, Bard Access Systems, Salt Lake City, UT, March 1993.
32. TIPS, Osaka Angio Conference, ICRO 1993 Meeting, Osaka, Japan, June 1993.
33. TIPS, Annual Madigan Medical Imaging Conference, Tacoma, WA August 1993.
34. Chemoembolization of Hepatic Tumors, Annual Madigan Medical Imaging Conference, Tacoma, WA, August 1993.
35. Transcatheter Management of Malignant Neoplasms, Mid-America Interventional Radiology Society Annual Meeting, Oklahoma City, OK, April 1994.
36. The Role of TIPS in the Management of Portal Hypertension, Mid-America Interventional Radiology Society Annual Meeting, Oklahoma City, OK, April 1994.
37. TIPS: The University of Washington Experience, Radiology Grand Rounds, M.D. Anderson Hospital and Tumor Institute, Houston, TX, April 1994.
38. Transcatheter Management of Malignant Neoplasms, Medical Oncology Grand Rounds, University of Utah, Salt Lake City, UT, May 1994.
39. Practical Aspects of Embolizing Tumors, Angio Club, Salt Lake City, UT, May 1994.
40. Chemoembolization of Hepatic (an non-hepatic) Neoplasms, Radiology Grand Rounds, University of Southern California, Los Angeles, CA, June 1994.
41. Practical Aspects of Embolizing Tumors, Angio Club, Los Angeles, CA, June 1994.

42. Chemoembolization of Malignant Neoplasms, Hawaii Radiological Society, Honolulu, HI, September 1994.
43. Embolization in Trauma, Hawaii Radiological Society, Honolulu, HI, September 1994.
44. Transcatheter Management of Malignant Neoplasms, Radiology Grand Rounds, University of Chicago, January 1995.
45. Embolization in Trauma, Radiology Grand Rounds, Medical College of Virginia, March 1995.
46. Transcatheter Management of Malignant Neoplasms, Radiology Grand Rounds, Medical College of Virginia, March 1995.
47. Interventional Radiology in Trauma, Asian Pacific Cardiovascular and Interventional Radiology Society, Melbourne Australia, April 1997.
48. TIPS topics, Fourth Military Medical University, Xian, China, April 1997.
49. Embolic materials, Fourth Conference on Practical Interventional Radiology, Prague, June 1997.
50. Interventional Radiology in Trauma, Fourth Conference on Practical Interventional Radiology, Prague, June 1997.
51. Interventional Radiology in the Trauma Patient, Rocky Mountain Radiology Society, Breckenridge, CO, July 1997.
52. Review of Embolization, Rocky Mountain Radiology Society, Breckenridge, CO, July 1997.
53. Interventional Radiology in the Care of the Trauma Patient, 13th Annual Colorado Trauma Symposium, Breckenridge, CO, August 1997.
54. Review of Embolization, Rocky Mountain Radiology Society, Breckenridge, CO, July 1997.
55. Trauma Interventional Radiology, Colorado Radiological Society, Denver, CO, September 1997.
56. Embolization, Colorado Radiological Society, Denver, CO, September 1997.
57. Trauma Interventional Radiology, Johns Hopkins University Resident Seminar, Baltimore, MD, September 1997.
58. Peripherally Inserted Central Venous Access, IV Nursing Society, Denver, CO, October 1997.
59. Trauma Interventional Radiology, Salt Lake City Angio Club, Salt Lake City, UT, October 1997.
60. Advanced Transjugular Intrahepatic Portosystemic Shunts, 4th National Congress of Interventional Radiology in China, Guangzhou, China, November 1997.
61. Trauma Interventional Radiology, 4th National Congress of Interventional Radiology in China, Guangzhou, China, November 1997.
62. Trauma Interventional Radiology, Hong Kong College of Radiologists, Hong Kong, November 1997.
63. Trauma Interventional Radiology, Grand Rounds, Beijing Medical College, 301 Military Medical Center, Beijing, China, November 1997.
64. Advanced Topics in TIPS, Grand Rounds, Beijing Medical College, 301 Military Medical Center, Beijing, China, November 1997.
65. Trauma Interventional Radiology, Grand Rounds, University of Wisconsin, Madison, Wisconsin, April 1998.
66. Trauma Interventional Radiology, Purkynjje Medical College, Brno, Czech Republic, June 1998.
67. Review of Embolization, Purkynjje Medical College, Brno, Czech Republic, June 1998.
68. Trauma Interventional Radiology, Grand Rounds, R. Adams Cowley Shock Trauma Center, University of Maryland, Baltimore, MD, December 1998.
69. Radiofrequency Tumor Ablation, Angio Club, Little Rock, AR, August 1999.
70. Tissue Plasminogen Activator in Peripheral Vascular Disease, Angio Club, Richmond, VA, September 1999.
71. Blunt Carotid Injury: Diagnosis and Therapy, Grand Rounds, R. Adams Cowley Shock Trauma Center, University of Maryland, Baltimore, MD, December 1999.
72. Loco-Regional Therapy for Malignant Solid Tumors, Hematology-Oncology Grand Rounds, University of Maryland Medical System, December 1999.
73. Tissue Plasminogen Activator in Peripheral Vascular Disease, Angio Club, Philadelphia, PA, April 2000.
74. Blunt Carotid Injury: Diagnosis and Therapy, Grand Rounds, Baylor College of Medicine, Houston, TX, May 2000.
75. The Use of Embolization in Trauma, Grand Rounds, University of Texas Health Science Center at Houston, Houston, TX, May 2000.
76. Thrombo-lies, thrombo-facts: Lysing the hype now that UK is gone, Houston Radiological Society, Houston, TX, May 2000.
77. Non-Surgical Hepatic Tumor Ablation, Nuts, Bolts, and Innovation in Gastrointestinal Disease, College of Medical Education, Pierce County Medical Society, Tacoma, WA, June 2000.

78. Imaging and Intervention in Abdominal Trauma, Nuts, Bolts, and Innovation in Gastrointestinal Disease, College of Medical Education, Pierce County Medical Society, Tacoma, WA, June 2000.
79. Tissue Plasminogen Activator in Peripheral Vascular Disease, Angio Club, Columbus, OH, June 2000.
80. Radiofrequency Tumor Ablation, Angio Club, Springfield, IL, June 2000.
81. Radiofrequency Tumor Ablation and Regional Cancer Treatment, Grand Rounds, Stanford University, Palo Alto, CA, October 2000.
82. Radiofrequency Tumor Ablation, Angio Club, Springfield, MO, December 2000.
83. Yttrium-90 microspheres in the treatment of unresectable hepatic disease, St. Luke's Hospital, Bethlehem, PA, January 2005.
84. Yttrium-90 microspheres in the treatment of unresectable hepatic disease, Memorial Sloan Kettering Cancer Center, NY, NY, January 2005.
85. Image Guided Therapies for the treatment of cancer, FDA CDRH Panel, sponsored by SIR, January 2005.
86. Yttrium-90 microspheres in the treatment of unresectable hepatic disease, University of Rome, Rome, Italy, February 2005.
87. Microsphere treatment of unresectable hepatic tumors, LA Angio Club, Los Angeles, February 2005.
88. Treatment of unresectable tumors with yttrium-90 microspheres. Nuclear Medicine Update, Annual Meeting of the Mississippi Society of Nuclear Medicine, February 2005.
89. Patient selection in the treatment of unresectable hepatic tumors. Congress of Interventional Radiology Societies of Europe, September 2005.
90. Treatment of unresectable hepatic neoplasms. Grand Rounds, Thomas Jefferson University, Philadelphia, October 2005.
91. Intra-arterial brachytherapy in the treatment of unresectable hepatic tumors. Oncology Lecture Series, Gwinett Heath System, Lawrenceville, GA, March 2006.
92. Weapons of Mass Destruction: Response of Radiology. Refresher Course, Radiological Society of North America Annual Meeting, Chicago, IL, November 2007.
93. Yttrium-90 therapy for malignant tumors. Grand Rounds, Turkish Military Medical University, Ankara, Turkey, April 2008.
94. Use of yttrium-90 in the treatment of metastatic neuroendocrine tumors. Hepatobiliary Medicine and Surgery Course, Hammersmith Hospital, London, UK, September 2008.
95. Weapons of Mass Destruction: Bioterrorism and the Response of Radiology. Refresher Course, Radiological Society of North America Annual Meeting, Chicago, IL, November 2008.
96. Selective Internal Radiation Therapy, Oncology Grand Rounds, University of Louisville, March 2009.
97. Selective Internal Radiation Therapy, King's College Hepatic-Pancreatic-Biliary Oncology meeting, London, UK, April 2009.
98. Radiology: Imaging and Intervention from Head to Toe. Methodist Hospital, Houston, TX, November 2009.
99. Management of Lower Extremity Diabetic Ulcers, Endocrinology Grand Rounds, University of Louisville, February 2010.
100. Selective Internal Radiation Therapy, Hammersmith Hospital New Technology Grand Rounds, London, UK, June 2010.
101. Yttrium-90 Microsphere Therapy of Unresectable Hepatic Tumors, University of Kunming Course on Interventional Radiology, July 2010.
102. Interventional Radiology in the Management of Geriatric Patients, Family Medicine and Geriatric Grand Rounds, University of Louisville, August 2010.
103. Yttrium-90 Microsphere Therapy of Unresectable Tumors, Hematology/Oncology Grand Rounds, University of Louisville, September 2010.
104. Jennings JW, Georgy BA, **Coldwell D**, Irving W, Brook A. Targeted radiofrequency ablation (t-RFA) of spinal tumors using a novel bipolar navigational device: Initial multicenter clinical experience. Presented at Symposium on Clinical Interventional Oncology (CIO) 2013. Miami, FL. January 2013.
105. Use of SirSpheres or TACE in the treatment of Breast Cancer Metastases to the Liver, 3rd International Local Therapy for Liver Tumor Conference, Essen, April 2013.

106. Fractal Dynamics in Image Interpretation, Ecole Polytechnique, Paris, April 2013
107. Hematology Oncology Grand Rounds, Pain Management in the Oncology Patient, University of Louisville, January 2017.
108. The Role of Interventional Radiology in the Treatment of the Cancer Patient, New Hematology/Oncology Fellow Orientation, August 2017.
109. Hematology-Oncology Grand Rounds, Treatment of Spinal Metastases, November 2017.
110. Minimally invasive lumbar decompression for Lumbar Spinal Stenosis, Rehabilitation Medicine Grand Rounds, March 2018.
111. The Role of Interventional Radiology in the Treatment of the Cancer Patient, New Hematology/Oncology Fellow Orientation, August 2018.

## **PUBLICATIONS**

### **PEER-REVIEWED**

1. **Coldwell DM**, McLellan R: Thermodynamics of Iron-Chromium-Hydrogen Ternary Solid Solutions. *Acta Metallurgica* 23:57, 1975.
2. **Coldwell DM**: A Thermodynamic Analysis of the Reduction of Silicon Oxides Using a Plasma. *High Temperature Science* 8:309, 1976.
3. **Coldwell DM**, Roques R: The Reduction of Silicon Dioxide with Carbon in a Plasma. *J Electrochemical Society* 124:1686, 1977.
4. **Coldwell DM**: Molecular Dynamics of Product Quenching in the Si-C-O System. *High Temperature Science* 9:209, 1977.
5. Page R, Plourde P, **Coldwell DM**, et al.: Intracellar Mixed Germ Cell Tumor. *J. Neurosurgery* 58:766, 1983.
6. **Coldwell DM**, Boal D, Gross G: Stress Fracture of the Femoral Neck in a Child. *Pediatric Radiology* 14:174, 1984.
7. **Coldwell DM**, Hottenstein D, Ricci J, et al.: Emphysematous Cholecystitis as a Complication of Hepatic Embolization. *Cardiovasc Intervent Radiol* 8:36, 1985.
8. **Coldwell DM**: Hepatic Embolization with an Open-ended Guide Wire. *Radiology* 165:285, 1987.
9. Fraser K, Hill M, **Coldwell DM**, O'Neil W: Duplex Doppler Evaluation of Mesocaval and Mesoatrial Shunt Patency. *J. Clinical Ultrasound* 16:127, 1988.
10. Orzel J, **Coldwell DM**, Eskridge J: Superselective Embolization for Renal Hemorrhage with a New Coaxial Catheter and Steerable Guidewires. *Cardiovasc Intervent Radiol* 11:646,1988.
11. **Coldwell DM**, Marcellus H, Huff J, Coldwell S: Experimental intraarterial administration of SR-2508 in the Rabbit V2 Carcinoma Model. *British Journal of Radiology* 62:234, 1989.
12. Loper K, **Coldwell DM**, Lecky J, Dowling K: Celiac Plexus Block for Hepatic Arterial Embolization: A Comparison with Intravenous Morphine. *Anesthesia and Analgesia* 69:398, 1989.
13. Bertino R, Shaw D, Mulholland M, **Coldwell DM**, Goldman M: Use of Tetracycline for Sclerosis of a Biliary-Cutaneous Fistula. *AJR* 153:65, 1989.

14. Varnell R, **Coldwell DM**, Sangeorzan B, Johansen K: Arterial Injury Complicating Knee Disruption. *American Surgeon* 55:699, 1989.
15. **Coldwell DM**: Embolization of Paraspinal Masses. *Cardiovasc Intervent Radiol* 12:252-254, 1989. (Abstracted in 1991 Yearbook of Diagnostic Radiology, Mosby-Year Books, Inc.).
16. **Coldwell DM**, Mortimer J: Transcatheter Therapy for Malignant Neoplasms. *Western Journal of Medicine*. 151:299, 1989.
17. **Coldwell DM**, Loper K: Regional Anesthesia for Hepatic Arterial Embolization. *Radiology* 172:1039, 1989.
18. **Coldwell DM**, Baron R, Charnsangevej C: Angiosarcoma: Diagnosis and Clinical Course. *Acta Radiologica* 30:627, 1990.
19. **Coldwell DM**: Hepatic Arterial Embolization Utilizing a Coaxial Catheter System: technical note. *Cardiovasc Intervent Radiology* 13:53-54, 1990.
20. Eddy AC, Nance DR, Goldman ML, **Coldwell DM**, Copass M, Verrier ED, Carrico CJ: Rapid Diagnosis of Thoracic Aortic Transection Using Intravenous Digital Subtraction Angiography. *Am J Surg*, 159:500-503, 1990.
21. Shaw D, **Coldwell DM**, Bertino R, Goldman M: Use of the Hawkins Hunter Rocket Wire in the Biliary System. *AJR* 154:1101, 1990.
22. Hollerman J, Fackler M, **Coldwell DM**, Ben-Menachem Y: Firearms, Ballistics, and Mechanisms of Injury. *AJR* 155:685-690, 1990.
23. Hollerman J, Fackler M, **Coldwell DM**, Ben-Menachem Y: The Radiology of Gunshot Wounds. *AJR* 155:691-702, 1990.
24. **Coldwell DM**, Moore A, Ben-Menachem Y, Johansen K: Bleeding Gastroesophageal Varices: Gastric Vein Embolization after Partial Portal Decompression. *Radiology* 178:249-252, 1991.
25. Edwards JM, **Coldwell DM**, Goldman ML, Strandness DE: The Role of Duplex Scanning in the Selection of Patients for Transluminal Angioplasty. *J Vasc Surg* 13:69, 1991.
26. Patten R, **Coldwell DM**, Ben-Menachem Y: Ligamentous Compression of the Celiac Axis: CT Findings. *AJR* 156:1101, 1991.
27. Liddell R, **Coldwell DM**, Wang K: Percutaneous Drainage of an Infected Endometrioma. *J Intervent Radiol* 6:55-56, 1991.
28. **Coldwell DM**, Mortimer J: Hepatic Artery Embolization in the Treatment of Hepatic Malignancies, Regional Cancer Treatment 3:298-301, 1991.
29. Ben-Menachem Y, **Coldwell DM**, Young J, Burgess A: Hemorrhage Associated with Pelvic Fractures: Causes, Diagnosis, and Emergency Management. *AJR* 157:1005, 1991.
30. **Coldwell DM**: Visceral angiography and embolization. *Curr Opin Radiol* 4:97-101, 1992.
31. Simons R, Sinanan M, **Coldwell DM**: Gangrenous cholecystitis as a complication of hepatic artery embolization: case report. *Surgery* 4:583, 1993.

32. Markel A, Goldman M, **Coldwell DM**, Manzo RA, Strandness Jr. DE: Follow-up on Percutaneously Placed Inferior Vena Cava Filters by Duplex Scanning, *Journal of Vascular Technology* 1992; 16: 74-78.
33. Shmulewitz A, Teefey S, **Coldwell DM**, Starr III F: Temperature Dependent Ultrasound Color Flow Doppler Imaging in the Study of a VX2 Tumor in Rabbits: Preliminary Findings. *J Ultrasound Med Biol* 19: 221, 1993.
34. Helton WS, Belshaw A, Althaus S, Park S, **Coldwell DM**, Johansen K: A Critical Appraisal of Angiographic Portocaval Shunt, *Am J Surgery* 165:566-71, 1993.
35. Schenck E, Nelson JA, Starr FL, **Coldwell DM**: Animal Model of Portal Hypertension with Observations Regarding the Relationship between Portal Flow and Pressure. *Investigative Radiology* 1993; 28:442-445.
36. Verschuyt E, Steed M, **Coldwell DM**: Percutaneous transhepatic revision of a stenosed transjugular intrahepatic portosystemic shunt. *JVIR* 5:379-381, 1994.
37. Goldfarb PA, **Coldwell DM**: Cost-effective bedside placement in long-term vascular access: Technique innovation and complication avoidance. *Cancer Practice* 2(4):279-283, 1994.
38. **Coldwell DM**, Stokes K, Yakes W: Embolotherapy: agents, clinical applications, and techniques. *RadioGraphics* 14:623-643, 1994.
39. Harrison KL, Nghiem HV, **Coldwell DM**, Davis CL: Renal dysfunction due to an arteriovenous fistula in a transplant recipient. *J. Am Soc of Nephrol* 5:1300-1306, 1994.
40. Althaus SJ, Keskey TS, Harker CP, **Coldwell DM**: Percutaneous placement of self-expanding stent for acute traumatic arterial injury. *J Trauma* 1996 Jul;41(1):145-8.
41. Harker CP, Steed M, Althaus SJ, **Coldwell DM**: Flash pulmonary edema: an acute and unusual complication of renal angioplasty, *JVIR* 6 (1):130-132, 1995.
42. Macaulay SE, **Coldwell DM**, Althaus SJ: Internal mammary artery embolization for hepatic tumors. *CVIR*, 18:20-24, 1995.
43. **Coldwell DM**, Ring E, Rees C, et al: Multicenter Investigation of the Transjugular Intrahepatic Portosystemic Shunt (TIPS): Role in the Management of Portal Hypertension. *Radiology* 196:335-340, 1995.
44. Nghiem HV, Winter TC, Mountford MC, Mack LA, Yuan C, **Coldwell DM**, Althaus SJ, Carithers RL, McVicar JP, Freeny PC: Pre-liver transplant evaluation of the portal venous system with phase contrast MR angiography. *AJR* 164:871-878, 1995.
45. Winter TC, Freeny PC, Nghiem HV, Hommeyer SC, Barr D, Croghan AM, **Coldwell DM**, Althaus SJ, Mack LA: 3D-CTA evaluation of hepatic arterial anatomy in transplant candidates. *Radiology* 195:363-370, 1995.
46. Althaus SJ, Ashdown B, **Coldwell DM**, Helton WS, Freeny PC: Transcatheter arterial embolization of two symptomatic giant cavernous hemangiomas of the liver. *CVIR* 19:364-367, 1996.
47. Kuno RC, Richardson ML, Zink-Brody GC, **Coldwell DM**. Prevalence of muscle injury following intra-arterial chemotherapy. *Skeletal Radiol* 1996;25:345-8.
48. Ryu RK, Duke BJ, Brega KE, **Coldwell DM**: Percutaneous endoluminal stent placement for traumatic occlusion of the internal jugular vein. *JVIR* 8:359-362, 1997.

49. Denton JR, Moore EE, **Coldwell DM**: Multimodality treatment for grade V hepatic injuries: Perihepatic packing, arterial embolization, and venous stenting. *J Trauma* 42:964-968, 1997.
50. Verschuyt EJ, Kaatee R, Beek FJA, Patel NH, Fontaine AB, Daly DP, **Coldwell DM**, et al.: Renal artery origins: Best angiographic projection angles. *Radiology* 205:115-120, 1997.
51. Duke BJ, Ryu RK, **Coldwell DM**, Brega KE: Bilateral jugular vein thrombosis: A review of the literature. *Neurosurg* 1997;41:680-683.
52. Duke BJ, Ryu RK, Brega KE, **Coldwell DM**: Treatment of blunt carotid injuries using endovascular stents: An early experience. *J. Neurosurg* 1997;87:825-829.
53. Bernstein S, **Coldwell DM**, Prall JA, Brega KE: Treatment of traumatic carotid pseudoaneurysm with endovascular stent placement. *JVIR*. 1997; 8:1065-1068.
54. Terasaki M, Patel N, Helton W, **Coldwell DM**, et al: Effects of transjugular intrahepatic portosystemic shunt on hepatic metabolic function by serial monitoring of arterial ketone bodies. *JVIR* 1998;9:129-35.
55. Prall JA, Brega KE, **Coldwell DM**, Breeze RE: Incidence of unsuspected blunt carotid arterial injury. *Neurosurg* 1998;42:495-8.
56. Ryu R, Novak Z, **Coldwell DM**: Percutaneous embolization of a post-traumatic nephrobiliary fistula. *J Trauma* 1998;44:389-391.
57. Biffi WL, Moore EE, Ryu RK, Offner PJ, Novak Z, **Coldwell DM**, Franciose RJ, Burch JM: The unrecognized epidemic of blunt carotid arterial injuries: early diagnosis improves neurologic outcome. *Ann Surg* 1998; 228:462-70.
58. Bavisotto LM, **Coldwell DM**, Althaus SJ, Patel N, Nghiem HV, Thompson T, Chard F, Bassuk D, Storer B, Thomas CR: Hepatic transcatheter arterial chemoembolization alternating with systemic protracted continuous infusion 5-fluorouracil for gastrointestinal malignancies metastatic to liver: a phase II trial of the Puget Sound Oncology Consortium (PSOC 1104).. *Clin Cancer Res*. 1999;5:95-109.
59. Sidhu MK, Shaw DWW, Daly CP, Waldhausen JH, **Coldwell D**: Post-traumatic hepatic pseudoaneurysms in children. *Pediatr Radiol*. 1999;29:46-52.
60. Novak Z, **Coldwell DM**, Mitchell RM, Ryu RK, Kandarpa K: Percutaneous transgastric placement of esophageal stents. *JVIR* 1999;10:428-30.
61. Novak Z, **Coldwell DM**, Brega KE: Selective infusion of Urokinase and thrombectomy in the treatment of acute cerebral sinus thrombosis. *AJNR* 2000;21:143-45.
62. Patel NH, Hahn D, Rapp S, Bergan K, **Coldwell DM**: Hepatic artery embolization: Factors predisposing to postembolization pain and nausea. *JVIR* 2000;11:453-476.
63. **Coldwell DM**, Novak Z, Ryu RK, Brega KK, et al: Treatment of Posttraumatic Internal Carotid Arterial Pseudoaneurysms with Endovascular Stents. *J Trauma* 2000;48:470-472.
64. Poletti PA, Shanmuganathan K, Mirvis SE, Killeen KL, **Coldwell DM**. CT criteria for management of blunt liver trauma: correlation with angiographic and surgical findings. *Radiology*. 2000;216:418-27.
65. Richard HM, **Coldwell DM**, Novak Z, Hastings GS, Boyd-Kranis RL, Murthy R, Radack DM. Pleurex tunneled catheter in the management of malignant ascites. *JVIR* 2001;12:373-375.

66. Richard HM, Hastings GS, Boyd-Kranis RL, Murthy R, Radack DM, Santilli JG, **Coldwell DM**. A randomized, prospective evaluation of the tesio, ash split and bard opti-flow hemodialysis catheters. *JVIR* 2001;12:431-435.
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90. Kennedy A, Ball D, Cohen S, Cohn M, **Coldwell D, Drooz A, Ehrenwald E, Kanani S, Moselein F, Nutting C, Putnam S, Rose S, Savin M, Schirm S, Sharma N, Wang E.** Impact of baseline laboratory values on survival following radioembolization in patients with unresectable, liver-dominant colorectal metastases. American College of Radiation Oncology Annual Meeting, Orlando, February 2014.
91. Mandadi M, Potts M, Vyleta M, Samman M, Kloecker G, **Coldwell D.** Management of cancer treatment-related painful bone lesions. ASCO Annual Meeting, Chicago, IL, June 2014.
92. Hopewell PN, Schulz BJ, Van Meter TL, Martin RCG, **Coldwell DM.** Vascular findings on short-term follow-up computed tomography associated with irreversible electroporation (IRE) of locally advanced pancreatic cancer. Proceedings of the RSNA Annual Meeting, November 2016
93. Kennedy A, Ball D, Cohen S, Cohn M, **Coldwell D, Drooz A, Ehrenwald E, Kanani S, Moselein F, Nutting C, Putnam S, Rose S, Savin M, Schirm S, Sharma N, Wang E.** Unresectable colorectal cancer liver metastases treated with radioembolization: updated survival analysis of the MORE study. ASCO GI Annual Meeting, January 2017.
94. Priddy E, **Coldwell D, Potts M.** Predictors of positive angiography in trauma patients with negative CT. SIR Annual Meeting, March 2018.
95. Priddy E, Khan M, **Coldwell D, Potts M.** Predictors of 90-day mortality in Y90 radioembolization for hepatic metastatic disease. SIR Annual Meeting, March 2018.
96. Ghazi C, Peterson S, **Coldwell D, Dinglasan L.** Does timing of radiation treatment affect endovascular stenting procedure parameters in the treatment of SVC syndrome? SIR Annual Meeting, March 2018.

#### VISITING PROFESSORSHIPS

1. State University of New York at Syracuse, January 1990.

2. Mallinckrodt Institute of Radiology, April 1990.
3. Canterbury Area Health Board, Christchurch, New Zealand, July 1990.
4. Pennsylvania State University Hershey Medical Center, December 1990.
5. University of Chicago, June 1992.
6. Keio University, Tokyo, Japan, June 1993
7. Fukuoka University, Kyushu, Japan, June 1993.
8. Kumamoto University, Kyushu, Japan, June 1993.
9. Wakayama University, Osaka, Japan 1993.
10. Nara University, Osaka, Japan, June 1993.
11. University of Texas System Cancer Center, April 1994.
12. University of Utah, May 1994.
13. University of Southern California, June 1994.
14. University of Chicago, January 1995.
15. University of Tennessee, October 1995.
16. University of Southern California, September 1996.
17. Fourth Military Medical University, Xian, China, April 1997.
18. Nanjing University, Nanjing, China, April 1997.
19. Charles University, Prague, Czech Republic, June 1997.
20. Johns Hopkins University, September 1997.
21. University of Utah, October 1997.
22. Sun Yat Sen Medical University, Guangzhou, China, November 1997.
23. Beijing Medical College, Beijing, China, November 1997.
24. University of Wisconsin, Madison, April 1998.
25. Purkynjiev Medical College, Brno, Czech Republic, June 1998.
26. Johns Hopkins University, February 2000.
27. Baylor College of Medicine, May 2000.
28. University of Texas Health Science Center at Houston, May 2000.
29. National University of Singapore, July 2000.
30. Stanford University, October 2000.
31. University of Texas System Cancer Center, October 2001.
32. Stanford University, February 2002.
33. Nanjing University, Nanjing, China, October 2003.
34. Suzhou Affiliated University Hospital, Suzhou, China, October 2003.
35. University of California, Irvine, October 2003.
36. University of Connecticut, November 2003.
37. University of Rome, June 2004.
38. University of Barcelona, Spain, June 2004.
39. University of Vienna, September 2004.
40. University of Rome, February 2005.
41. Emory University, February 2005.
42. Thomas Jefferson University, October 2005.
43. University of Bologna, Italy, November 2006.
44. Ankara University, Turkey, April 2008.
45. Hacettepe University, Ankara, Turkey, April 2008.
46. Turkish Military Medical University, Ankara, Turkey, April 2008.
47. University of Istanbul, Istanbul, Turkey, June 2008.
48. Hammersmith Hospital, London, UK, September 2008.
49. Oxford University, Oxford, UK, January 2009.
50. King's College, London, UK, April 2009.
51. University of Heidelberg, Heidelberg, Germany, April 2009.
52. University of Tübingen, Tübingen, Germany, April 2009.

53. University of Freiburg, Freiburg, Germany, May 2009.
54. Cambridge University, Cambridge, UK, July 2009.
55. University of Leichester, Leichester, UK, June 2010.
56. Oxford University, Oxford, UK, June 2010.
57. King's College Hospital, London, UK, June 2010.
58. University of Dali, China, July 2010.
59. University of Kunming, China, July 2010.
60. Oxford University, Oxford, UK, January 2011.
61. Xian University, Xian, China, August 2011.
62. University of Hasselt, Belgium, April 2013
63. University of Birmingham Hospitals, Queen Elizabeth Hospital, Birmingham, UK, April 2013
64. University of Aarhus, Denmark, April 2013
65. Ecole Polytechnique, Paris, April 2013
66. Lanzhou University, Lanzhou, China, September 2014
67. University of Rome, Rome, Italy, April 2017