

# Curriculum Vitae

## Matthew Scott Davenport, M.D.

University of Michigan Health System  
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Division of Abdominal Imaging  
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### Faculty

**Assistant Professor, Diagnostic Radiology, Abdominal Section,  
University of Michigan Health System, Ann Arbor, Michigan**  
2011-present

### Fellowship

**Abdominal Imaging, Duke University Medical Center, Durham, North  
Carolina**  
2010-2011

### Residency

**Diagnostic Radiology, University of Michigan, Ann Arbor, Michigan**  
2006-2010  
Chief Resident, 2009

**Internal Medicine Preliminary Year, The Jewish Hospital, Cincinnati,  
Ohio**  
2005-2006

### Education

**University of Cincinnati College of Medicine, Cincinnati, Ohio**  
2001-2005  
M.D.  
Alpha Omega Alpha

**University of Cincinnati, Cincinnati, Ohio**  
1997-2001  
B.S. Biological Sciences  
B.A. Psychology  
Phi Beta Kappa  
McKibben Medal for Most Outstanding Graduating Man

## **Certification**

**Certification in Diagnostic Radiology**, The American Board of Radiology, 2010

ABR Oral Examination, Pass, 2010

ABR Written Examination, Pass, 2008

ABR Physics Examination, Pass, 2007

## **United States Medical Licensing Examinations**

Step 1 Pass

Step 2 Pass

Step 3 Pass

**BLS Provider**, renewed 7/2011

## **Active Licenses**

Medical license, State of Michigan

DEA

## **National Service**

Member, Collaborative committee to revise the ACR-SPR Practice Guideline for the Use of Intravascular Contrast Media (2011)

Member, American College of Radiology, Committee on Drugs and Contrast Media (2009-present)

## **Peer-Review Service**

Reviewer (manuscripts), Prostate Cancer and Prostatic Diseases (2011)

Reviewer (manuscripts), Urology, "The Gold Journal" (2011)

Reviewer (abstracts), American Roentgen Ray Society Annual Meeting, Genitourinary section (2010-present)

## **Local / Regional Service**

Faculty, Annual Course on Contrast Media, University of Michigan Health System (2009-present)

Faculty, University of Michigan Medical School Radiology Interest Group (2011-present)

Author, Institutional Contrast Reaction Treatment Guidelines, Duke University Medical Center (2010)

Co-editor, Institutional Corticosteroid Premedication Guidelines, Duke University Medical Center (2010)

Co-Author, Adverse Event Reporting Document, Duke University Medical Center, Department of Radiology (2011)

Co-Founder, Multidisciplinary Prostate Cancer Workgroup, Duke University Medical Center (2010)

Co-Creator, Internal Medicine – Radiology Lecture Series, University of Michigan Health System (2009-2010)

Co-Author, Junior Call Handbook, University of Michigan Health System  
Department of Radiology (2009)  
Member, Radiology Departmental Quality Assurance Committee,  
University of Michigan Health System (2008-2010)  
Radiology Department Junior-Call Training, University of Michigan  
Health System (2008-2010)  
Revised Institutional Contrast Reaction Treatment Guidelines, University  
of Michigan Health System (2008)  
Member, MRI Lean Committee [Quality Improvement] (2007-2010)  
Member, MRI Orbits Process Quality Improvement Team (2007-2009)

## **Invited Lectures**

**Davenport MS**, “Prostate MRI – Didn’t we give up on this 10 years ago?  
GU Oncology Multidisciplinary Conference, Duke University Medical  
Center, 6/9/2011

**Davenport MS**, “GU Section, Mock Oral Boards”, Radiology  
Department, Duke University Medical Center, 4/26/2011

**Leder R, Davenport MS**. “Contrast Media Update 2011: Pre-assessment  
strategies and contrast reaction management”, American College of  
Radiology North Carolina Chapter, Annual Meeting, 3/12/2011

**Davenport MS**, “GU Board Review: 2”, Duke University Medical Center,  
Radiology Department, Resident Oral Board Review, 3/4/2011

**Davenport MS**, “GU Board Review: 1”, Duke University Medical Center,  
Radiology Department, Resident Oral Board Review, 2/28/2011

**Davenport MS**, “Management of acute contrast reactions”, Duke  
University Medical Center, Radiation Oncology Department, 1/25/2011

**Davenport MS**, “MR Imaging of Prostate Cancer”, Duke University  
Medical Center, Prostate Cancer Workgroup, 10/19/2010.

**Davenport MS**. “Basic Computed Tomography of the Abdomen and  
Pelvis”, Duke University Medical Center, Department of Radiology,  
10/15/2010.

**Leder R, Davenport MS**. “Contrast Media Update”, Duke University  
Medical Center, Department of Radiology, Grand Rounds, 9/30/2010.

**Davenport MS**. “Treatment of contrast reactions”, University of  
Michigan Health System, Department of Radiology, Contrast Reaction  
Course, 9/22/2010.

**Davenport MS**. “Basic plain film interpretation and x-ray physics”.  
University of Michigan Health System, Department of Internal Medicine,  
Ambulatory Conference. 10/15/2009, repeated 1/27/2010.

**Davenport MS.** “Treatment of contrast-related complications”, University of Michigan Health System, Department of Radiology, Contrast Reaction Course, 10/7/2009.

**Davenport MS.** “Basic computed tomography physics and interpretation”. University of Michigan Health System, Department of Internal Medicine, Morning Report, 9/23/2009.

**Davenport MS.** “Utility of delayed whole body bone scintigraphy following directed 3-phase examinations. University of Michigan Health System, Department of Radiology, Grand Rounds, 11/2008.

## **Tumor Boards**

Faculty presenter, Genitourinary Oncology Conference, Department of Urology, University of Michigan Health System 8/16/2011

## **National Workshops**

Cohan RH, **Davenport MS.** “A patient is crashing in your CT suite after receiving IV contrast. Do you know what to do?” Society of Uroradiology Annual Meeting, 2011.

Cohan RH, **Davenport MS,** Ellis JH. “Roid rage: the continuing battle over steroid preps”. Society of Uroradiology Annual Meeting, 2010.

## **Abstracts**

**Davenport MS,** Wang CL, Bashir MR, Neville AM, Paulson EK. Effect of extrinsic warming of low osmolality iodinated contrast material to 37° Celsius on the rate of extravasations and allergic-like reactions. (accepted, RSNA 2011, SBCTMR 2011)

**Davenport MS,** Lakshmanan M, Rosenzweig S, Palmeri M, Zhai L, Madden J, Merkle E, Polascik T, Nightingale K. Acoustic radiation force impulse imaging of prostate cancer: initial experience. Society of Uroradiology Annual Meeting, 2011.

**Davenport MS,** Neville AM, Ellis JH, Cohan RH, Chaudhry H, Leder RA. Hounsfield unit thresholds for the diagnosis of renal angiomyolipoma: effect of ROI size and scan type. Society of Uroradiology Annual Meeting, 2011.

**Davenport MS,** Cohan RH, Caoili EM, Ellis JH. Hyperglycemia in hospitalized patients receiving corticosteroid premedication. ARRS Annual Meeting (Executive Council Award, 2010), ESUR Annual Meeting (Honorable Mention, 2010).

**Davenport MS**, Ellis JH, Khalatbari SH, Myles JD, Klein KA. Effect of work hours, caseload, shift type and experience on resident call performance. AUR Annual Meeting (Memorial Award), 2010.

O'Malley R, Cohan RH, Caoili EM, **Davenport MS**, Dillman JR, Ellis JH. Use of premedication prior to intravenous administration of iodinated and gadolinium based contrast material: A survey of SUR members. Society of Uroradiology Annual Meeting, 2010.

**Davenport MS**, Cohan RH, Caoili EM, Ellis JH. Hyperglycemic consequences of corticosteroid premedication in an outpatient population. Society of Uroradiology Annual Meeting, 2010.

Hryhorczuk SL, Torres ML, **Davenport MS**, Strouse PJ. Diagnostic advantages of fetal MRI in the evaluation of prenatal genitourinary abnormalities. Society of Uroradiology Annual Meeting, 2010.

**Davenport MS**, Brown RKJ, Frey KA. Utility of delayed whole body bone scintigraphy following directed 3-phase examinations. ARRS Annual Meeting, 2009.

**Davenport MS**, Cohan RH, Caoili EM, Ellis JH. Frequency & severity of repeat contrast reactions in premedicated patients. Society of Uroradiology Annual Meeting, 2009.

Hoff C, Cohan RH, Caoili EM, Ellis JH, **Davenport MS**. Renal manifestations of von Hippel-Lindau disease—Effect of screening on clinical management. Society of Uroradiology Annual Meeting, 2009.

**Davenport MS**, Caoili EM, Cohan RH, Ellis JH, Higgins EJ, Willatt J, Fox GA. CT and MR Evaluation of the successfully treated renal mass post percutaneous radiofrequency ablation. Society of Uroradiology Annual Meeting, 2008; Am J Roentgenol, Vol. 190, Issue 4 Supplement, A43, 2008.

Higham TE, **Davenport MS**, Jayne BC. How turning angle affects the locomotion of three sympatric ecomorphs of arboreal lizards. Journal of Morphology 2001; 248(3):240.

Higham TE, **Davenport MS**, Mattingly WB, Jayne BC. Effects of turn angle on the sprinting performance of three sympatric ecomorphs of arboreal lizards. American Zoologist 2000; 40(6):1056.

## **Peer-Reviewed Publications**

**Davenport MS**, Heye T, Dale BM, Horvath JJ, Breault SR, Feuerlein S, Bashir MR, Boll DT, Merkle EM. Inter- and intra-rater reproducibility of quantitative dynamic contrast enhanced MRI using TWIST perfusion data in a uterine fibroid model. (submitted)

**Davenport MS**, Heye T, Dale BM, Horvath JJ, Breault SR, Feuerlein S, Bashir MR, Boll DT, Merkle EM. Inter- and intra-rater reproducibility of quantitative dynamic contrast enhanced MRI using TWIST perfusion data in a uterine fibroid model. (submitted)

Feuerlein S, Grimm LJ, Brown JK, **Davenport MS**, Haystead CM, Miller CM, Neville AM, Jaffe TA. Localization of primary colonic tumors: a comparison of CT and colonoscopy. (submitted)

Bashir MR, Gupta RT, **Davenport MS**, Allen BC, Jaffe TA, Ho LM, Boll DT, Merkle EM. Hepatocellular carcinoma in a North American population: does hepatobiliary MR imaging with gadoteric acid improve sensitivity and confidence for diagnosis? (submitted)

**Davenport MS**, Wang CL, Bashir MR, Neville AM, Paulson EK. Effect of extrinsic warming of iopamidol to 37° Celsius on the rate of extravasations and allergic-like reactions. (Radiology 2011, in press)

**Davenport MS**, Gardner CS, Jaffe TA. Effect of mandated radiologist-performed electronic order entry on oral contrast administration. (AJR 2011, in press)

Chaudhry H, **Davenport M**, Nieman C, Ho L, Neville A. Histogram analysis of solid renal masses revisited: differentiating lipid poor renal angiomyolipoma from renal cell carcinoma. (AJR 2011, in press)

**Davenport MS**, Neville AM, Ellis JH, Cohan RH, Chaudhry H, Leder RA. Hounsfield unit thresholds for the diagnosis of renal angiomyolipoma: effect of ROI size and nephrographic phase imaging. Radiology 2011; 260:158-165.

**Davenport MS**, Cohan RH, Caoili EM, Ellis JH. Hyperglycemia in hospitalized patients receiving corticosteroid premedication. Acad Radiol 2011; 18:384-390.

O'Malley R, Cohan RH, Caoili EM, **Davenport MS**, Dillman JR, Ellis JH. Use of premedication prior to intravenous administration of iodinated and gadolinium based contrast material: A survey of SUR members. J Amer Coll Radiol 2011; 8:345-354.

**Davenport MS**, Ellis JH, Khalatbari SH, Myles JD, Klein KA. Effect of work hours, caseload, shift type and experience on resident call performance. Acad Radiol 2010; 17:921-927.

**Davenport MS**, Caoili EM, Cohan RH, Hoff CN, Ellis JH. Pancreatic manifestations of von Hippel-Lindau disease: effect of imaging on clinical management. J Comp Assist Tomog 2010; 34:517-522.

**Davenport MS**, Cohan RH, Caoili EM, Ellis JH. Hyperglycemic consequences of corticosteroid premedication in an outpatient population. *Am J Roentgenol* 2010; 194:W483-W488.

**Davenport MS**, Cohan RH, Caoli EM, Ellis JH. Repeat contrast reactions in premedicated patients: frequency and severity. *Radiology* 2009; 253:372-379.

**Davenport MS**, Brown RKJ, Frey KA. Utility of delayed whole body bone scintigraphy following directed 3-phase examinations. *Am J Roentgenol* 2009; 193:338-342.

**Davenport MS**, Caoili EM, Cohan RH, Ellis JH, Higgins EJ, Willatt J, Fox GA. MRI and CT characteristics of successfully ablated renal masses: imaging surveillance after radiofrequency ablation. *Am J Roentgenol* 2009; 192:1571-1578.

Higham TE, **Davenport MS**, Jayne BC. Maneuvering in an arboreal habitat: The effects of turn angle on the locomotion of three sympatric ecomorphs of *Anolis* lizards. *J Exp Biol* 2001; 204(23):4141-4155.

## Scientific Posters

Hsu C, Polascik T, Madden J, **Davenport M**, Gupta R, Merkle E, Palmeri M, Nightingale K. ARFI elastography for guidance of prostate procedures. Symposium on Focal Therapy and Imaging in Prostate and Kidney Cancer, Amsterdam, Netherlands, 2011.

Hryhorczuk AL, Torres ML, **Davenport MS**, Strouse PJ. Diagnostic advantages of fetal MRI in the evaluation of prenatal genitourinary abnormalities. Society of Uroradiology Annual Meeting, 2010. (1<sup>st</sup> place scientific poster)

**Davenport MS**, Caoili EM, Cohan RH, Ellis JH, Higgins EJ, Willatt J, Fox GA. CT and MR evaluation of the successfully treated renal mass post percutaneous radiofrequency ablation. University of Michigan Urology Symposium. Ann Arbor, MI, 2008.

## Educational Exhibits

**Davenport MS**, Trout A, Weadock W. CT angiography of the upper extremities. RSNA, 2008.

Trout A, **Davenport MS**, Weadock W. CT angiography of the lower extremities. RSNA, 2008.

## Oral Presentations

**Davenport MS**, Neville AM, Ellis JH, Cohan RH, Chaudhry H, Leder RA. Hounsfield unit thresholds for the diagnosis of renal angiomyolipoma: effect of ROI size and scan type. Society of Uroradiology Annual Meeting, 2011.

**Davenport MS**, Cohan RH, Caoili EM, Ellis JH. Hyperglycemia in hospitalized patients receiving corticosteroid premedication. ARRS Annual Meeting (Executive Council Award for outstanding research paper by a resident or fellow), 2010.

**Davenport MS**, Ellis JH, Khalatbari SH, Myles JD, Klein KA. Effect of work hours, caseload, shift type and experience on resident call performance. AUR Annual Meeting (Memorial Award for best research paper by a resident or fellow), 2010.

**Davenport MS**, Cohan RH, Caoli EM, Ellis JH. Hyperglycemic consequences of corticosteroid premedication in an outpatient population. Society of Uroradiology Annual Meeting, 2010.

**Davenport MS**, Brown RKJ, Frey KA. Utility of delayed whole body bone scintigraphy following directed 3-phase examinations. ARRS Annual Meeting, 2009.

**Davenport MS**, Cohan RH, Caoili EM, Ellis JH. Frequency & severity of repeat contrast reactions in premedicated patients. Society of Uroradiology Annual Meeting (1<sup>st</sup> place scientific paper), 2009.

**Davenport MS**, Caoili EM, Cohan RH, Ellis JH, Higgins EJ, Willatt J, Fox GA. CT and MR evaluation of the successfully treated renal mass post percutaneous radiofrequency ablation. ARRS Annual Meeting, Washington DC, 2008.

**Davenport MS**, Caoili EM, Cohan RH, Ellis JH, Higgins EJ, Willatt J, Fox GA. CT and MR evaluation of the successfully treated renal mass post percutaneous radiofrequency ablation. Society of Uroradiology Annual Meeting (2<sup>nd</sup> place scientific paper), Rancho Mirage, CA, 2008.

**Davenport MS**, Cho K. Transjugular liver biopsy in the diagnosis of Wilson's disease. Regional SIR Chapter Meeting. Southfield, MI, 2008.

## Research Interests

Contrast media  
Genitourinary imaging  
Prostate MRI  
Patient safety  
Quality assurance

## **Work Experience**

**Medical Consultant for the United States Department of Justice**  
2009-2010

**Radiologist (Teleradiology Moonlighting)**

7/2008 – 6/2010

St. Joseph Mercy Hospital, 5301 McAuley Drive, Ypsilanti,  
Michigan

Chelsea Community Hospital, 775 South Main Street, Chelsea,  
Michigan

St. Joseph Mercy Livingston Hospital, 620 Byron Road, Howell,  
Michigan

St. Joseph Mercy Saline Hospital, 400 Russell Street,  
Saline, Michigan

Bixby Medical Center, 818 Riverside Ave., Adrian, Michigan

Herrick Memorial Hospital, 500 E Pottawatamie St.,  
Tecumseh, Michigan

5/2010—6/2010

St. Mary's Hospital Livonia, 36475 Five Mile Rd., Livonia, Michigan

**Research Assistant**

2000-2002

University of Cincinnati Biology Department

## **Societies**

Radiological Society of North America (RSNA)

Society of Uroradiology (SUR)

Association of University Radiologists (AUR)

American College of Radiology (ACR)

American Roentgen Ray Society (ARRS)

Society of Interventional Radiology (SIR)

Hodges Society, University of Michigan

## **Awards**

Honorable Mention, Scientific Abstract, European Society of  
Uroradiology, 2010

Nuclear Medicine Excellence in Research Award, University of Michigan  
Health System, Department of Radiology, 2010

Outstanding Radiology Resident Research Award, University of Michigan  
Health System, Department of Radiology, 2010

Executive Council Award, American Roentgen Ray Society Annual  
Meeting, 2010

Member, First Place Team, Kay Vydareny Film Interpretation  
Competition, Association of University Radiologists Annual Meeting,  
2010

Memorial Award, Association of University Radiologists Annual Meeting,  
2010  
First Place Scientific Poster Award (3<sup>rd</sup> author), Society of Uroradiology,  
2010  
“Making a Difference Award,” University of Michigan Health System,  
Department of Radiology, 2009  
Outstanding Radiology Resident Research Award, University of Michigan  
Health System, Department of Radiology, 2009  
First Place Scientific Paper Award: Society of Uroradiology, 2009  
Member, First Place Annual Michigan Radiological Society Quiz Team,  
2009  
First Place ACR/AFIP Cardiac MRI Quiz Competition, 2009  
Second Place Scientific Paper Award: Society of Uroradiology, 2008  
Resident in Training Scholarship: Society of Interventional Radiology,  
2007  
Voorheis Cincinnatus Scholarship for Academic Achievement  
Mary Rowe Scholarship for Academic Achievement  
Arts & Sciences Scholarship for Academic Achievement  
National Dean’s List  
Research Experience for Undergraduates Grant for Biological Research  
Mortar Board Honorary Society  
Golden Key National Honors Society