Research Institute

Report of Accomplishments

2011

Beaumont® | Health System
For more than 45 years, researchers at Beaumont have helped to bring new technologies, new treatments, and new medications into the practice of medicine, and have helped to move the standard of care forward to improve the safety and quality of medical care for patients locally, nationally, and internationally. The greatest reward from these achievements is the realization that patients' lives are improved and enriched because of the outstanding research carried out by the Beaumont physicians and staff.

Outstanding biomedical research is a major component of the excellent reputation of Beaumont Health System as an academic medical center. The Board of Directors at Beaumont made a commitment several decades ago to strengthen Beaumont as an academic institution through growth and support of graduate medical education, the hiring of full time physicians with conspicuous excellence in research, and committed support of ongoing research activities of key programs. This commitment has helped to forge the reputation of Beaumont Health System as a leading academic medical center, with recognition by U.S. News and World Report, a distinction that places Beaumont in the forefront of medicine in the U.S.

As Beaumont Health System moves forward as the Health Care affiliate with the Oakland University William Beaumont School of Medicine, our research activities, graduate medical education, and scholarly endeavors are even more important. Our Board of Directors and senior leadership have reaffirmed their commitment to this ongoing academic mission for Beaumont. Strong undergraduate medical education requires faculty committed to research and a broad, excellent program of graduate medical education. The ACGME (Accreditation Council on Graduate Medical Education) is steadily increasing the requirements for excellence in both faculty research achievement and resident/fellow research training in order to maintain full accreditation for residency and fellowship programs. The Board for Accrediting Level 1 Trauma Center status, presently achieved by Beaumont Royal Oak, now requires high productivity of peer-reviewed publications in recognized journals by participating faculty. The LCME (Liaison Committee on Medical Education), the accrediting organization for medical schools in the U.S. and Canada, requires the presence of biomedical research activities that can provide both basic sciences and clinical research opportunities for medical students. The formation of a new medical school provides further impetus to enhance biomedical research at both Beaumont and Oakland University, to integrate research activities between the two institutions, and to initiate new programs, centers, and collaborative projects shared by both institutions. Beaumont and Oakland University already have several areas of long standing ongoing research collaboration, and have initiated a formal program of small grant support for collaborative studies. These organizations also have formed the Institute for Stem Cell Research and Regenerative Medicine.

Beaumont research is heavily oriented towards clinical translational research, investigating new treatments, pharmaceuticals, medical devices, and scientific approaches aimed at enhancing the excellence and safety of patient care. Beaumont has a robust program of clinical trials, numbering over 1,100 trials with over 82,000 enrolled subjects. Beaumont's clinical services are superb, providing the standard upon which new and innovative research is built. Beaumont's volume of patients served, combined with the excellence of clinical care, provides a striking opportunity to develop new treatments.

The Research Institute has built a full service Core Molecular Laboratory (The Erb Family Core Molecular and Genetics Laboratory) with modern technologies in genomics, proteomics, molecular biology, cell sorting, confocal microscopy, and other sophisticated technologies, along with the necessary technical support, in order to provide the research tools for clinical investigators to further their research activities. The Research Institute also has established a BioBank for tissue and serum collection, storage, and analysis, available for clinical translational research across the entire Beaumont academic spectrum. The initial emphasis of the Core Molecular Laboratory and the BioBank is research on molecular biomarker discovery, particularly related to early detection of disease, disease risk, and the selection of appropriate therapies. The Research Institute also has
strengthened grant writing support, assistance with identifying sources of funding and grant opportunities, and other support services, with a renewed emphasis on a commitment to helping Beaumont physicians carry out excellent research. The success of our commitment to excellent service and patient safety is shown by our receipt of full accreditation of our human research protection program by AAHRPP (Association for Accreditation of Human Research Protection Programs) on the first submission.

Beaumont’s strategic plan calls for initiatives that reflect the well established national and international reputation achieved by some of our research programs, including Cardiovascular Medicine, Radiation Oncology, Medical Oncology (Hem/Onc), Urology, Orthopaedics, Ophthalmology, Anesthesiology, Surgery, Emergency Medicine, and many other programs. Thus, we look forward to continuing research excellence and productivity as Beaumont enters an exciting new phase of academic development. This Report of Research Accomplishments highlights the depth and breadth of Beaumont’s academic excellence. We extend our congratulations and appreciation to the many investigators who have contributed these extraordinary achievements while providing outstanding medical care to our patients.

David L. Felten, M.D., Ph.D.
Vice President, Research
Medical Director, Research Institute
Beaumont Health System
Associate Dean for Research
Oakland University William Beaumont School of Medicine
Beaumont Health System, with three hospitals in the northern Detroit suburbs serving southern Michigan and beyond, is a highly productive contributor to clinical trials across the nation. The Beaumont Research Institute (RI), established by the hospital’s Board of Trustees in 1966, strengthens Beaumont's ability to conduct medical research and to provide a research training experience for the medical staff and participants in graduate medical education programs.

Beaumont is a major teaching facility, with 37 accredited residency and fellowship programs involving 428 residents and fellows, and 206 research staff, including 68 research nurses.

**Funding**

2012 Research Institute Operations $33.8M

**External sources of research funding**

(based on 2011 data)
- Commercial sponsors 43%
- Federal sponsors 14%
- Philanthropic sponsors 14%
- Intellectual Property 29%

**Types of research at Beaumont Health System**

(based on 2011 percentage of revenue)
- Clinical Research 64%
  - 3% Phase I
  - 27% Phase II Phase based
  - 69% Phase III on HIC submission
  - 1% Phase IV
- Pre-clinical/ Research 36%

**External sources of research funding by Research Service Line**

(based on 2011 data)
- Surgical Services 48%
  - Radiation Oncology 29%
  - Urology 6%
  - Orthopaedics 5%
  - Surgical Clinical Trials & Lab 4%
  - Anesthesia 2%
  - Ophthalmology 2%
- Medical Services and Other 52%
  - Cardiology 12%
  - Hematology/Oncology 12%
  - Emergency 12%
  - Beaumont Coordinating Ctr. 9%
  - Nutrition & Preventive Med 3%
  - Other Programs (various) 4%

**Clinical Trials/Research Participants**
- 1,100 open trials
- Over 82,000 registered research participants

**Educational opportunities for research staff**
- 2-day orientation for new research staff
- On-line CITI human subjects protection training program
- Prep courses for clinical research certification exams (SOCRA, ACRP)
- Tuition reimbursement for clinical research certification exams
- Seminar Series and Workshops
- Residents’/ Fellows’ Research Forum
- Biostatistics course
- Online guidance/modules regarding initiating research

**Facility space dedicated to research**
- Research Institute Building
- Beaumont Health Center
- Cancer Center
- Imaging Center
- Royal Oak Hospital
- Royal Oak Medical Office Building
- Technical Service Building
- Troy Hospital
- Other offsite

**Support staff available to researchers**
- Accounting / Administrative
- Beaumont Research Coordinating Center
- BioBank/Erb Family Core Molecular Laboratory
- Biosafety Committee
- Biostatisticians
- Compliance
- Database Development
- Education
- Federal Grant Development
- Human Resources
- Institutional Review Board (IRB)
- Outcomes Research Group

**The scope of support for the Research Institute**

- Beaumont Health System:
  - More than 227,268 Emergency Center visits
  - 94,956 Inpatient admissions
  - 70 surgical suites
  - A 128-slice CT scanner
  - PET-CT and b iod tracer
  - Beaumont Research Coordinating Center for multicenter clinical trials
- Human Research Protection Program fully accredited by AAHRPP
- Automated, robotic clinical laboratories
- Internationally recognized and respected principal investigators
- National Cancer Institute / Community Clinical Oncology Program (CCOP)
- Fully equipped bench laboratories
- State of the art BioBank & Core Molecular Lab
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*Note: * Indicates the author(s) was not Beaumont staff at the time of publication, or was a Beaumont employee at the time of the publication but has since left Beaumont.
ANESTHESIOLOGY AND PERIOPERATIVE MEDICINE

Peer-Reviewed Articles:


Book Chapters:


Anesthesiology and Perioperative Medicine

Platform or Symposium Presentations/Abstracts:


Hartrick CT, Rozek RJ, Conroy S. Teaching pain to premedical students. Anesthesiology (ASA Abstracts) 2011;A1323.


Qu G, Hartrick CT, Wu H. Towards subgroup analysis using neuropathic pain scale based clustering. 2nd Annual Oakland University Beaumont Hospitals Biomedical Research Symposium, Rochester, MI, February 16, 2011.


Anesthesiology and Perioperative Medicine

Poster Presentations/Abstracts:


Website Contributions, Video Clips, or other Multi-Media Contributions:


Other Publications (non peer-reviewed):

Soto R. Just who is burning out, chairpersons or program directors? Anesthesiology 2011; 115:437.
Peer-Reviewed Articles:


Book Chapters:


Platform or Symposium Presentations/Abstracts:

Ahmed S, Geddes T. Automated nucleic acid extraction from challenging sample types. The Association for Molecular Pathology (AMP) 2011 Annual Meeting, Grapevine, TX, November 17-19, 2011.


Wilson G. Translational research: Bench to bedside. Advances in head and neck cancer – minimizing morbidity and dealing with HPV in a multidisciplinary fashion, Townsend Hotel, Birmingham, MI, July 8, 2011.
**BioBank**

**Platform or Symposium Presentations/Abstracts:** continued


**Wilson G.** Head and neck cancer research enabled by the BioBank. 4th Annual BioBank Symposium, Beaumont Health System, Royal Oak, MI, November 18, 2011.

**Poster Presentations/Abstracts:**


BioBank

**Poster Presentations/Abstracts: continued**


**Website Contributions, Video Clips, or other Multi-Media Contributions:**


**Other Publications (non-peer-reviewed):**


Wilson GD. Biology Bytes: Translational research: Bench to bedside and back. ASTROnews 14:3, Fall 2011.
CARDIOVASCULAR DISEASE

Peer-Reviewed Articles:


Glazier JJ, Dixon SR. Skin injury following prolonged fluoroscopy: Early and late appearances. QJM 2011 May 27.

Cardiovascular Disease

Peer-Reviewed Articles: continued


Cardiovascular Disease

Peer-Reviewed Articles: continued


Cardiovascular Disease

Peer-Reviewed Articles: continued


Cardiovascular Disease

Peer-Reviewed Articles: continued


Book Chapters:


Cardiovascular Disease

**Platform or Symposium Presentations/Abstracts:**


**Billecke SS.** Generation and elimination of asymmetric dimethylarginine in blood. Oakland University Department of Biological Sciences 1st Annual Graduate Student Research Symposium, Rochester, MI, April 29, 2011.


Cardiovascular Disease

Platform or Symposium Presentations/Abstracts: continued


Marcovitz P. Women and heart disease: Updates in screening and prevention. 3rd Annual Advances in Heart Disease Prevention and Rehabilitation, Pontiac, MI, June 25, 2011.


Poster Presentations/Abstracts:


Cardiovascular Disease

**Poster Presentations/Abstracts:** continued


**Website Contributions, Video Clips, or other Multi-Media Contributions:**

**Almany S.** Fish oil and cardiac disease on WNIC radio, September 28, 2011.


**Marcovitz P.** Ask the doctor webinar: The things women need to know about a healthy heart. February 15, 2011. [http://www.beaumont.edu/womens-heart-webinar](http://www.beaumont.edu/womens-heart-webinar).
Cardiovascular Disease

Other Publications (non peer-reviewed):

Almany S. Left atrial appendage exclusion. St John Hospital Grand Rounds, Detroit, MI, January 26, 2011.


Billecke SS, Teiber JF. Pitfalls in the assessment of PON1 status in clinical populations. Fertil Steril, published online April, 2011.
**COLON and RECTAL SURGERY**

**Peer-Reviewed Articles:**


**Platform or Symposium Presentations/Abstracts:**


**Poster Presentations/Abstracts:**


Hain J. Prevention of colonic and extracolonic malignancy in FAP. Beaumont Health System Cancer Symposium, Birmingham, MI, June 17, 2011.


Colon and Rectal Surgery

Poster Presentations/Abstracts: continued

DIAGNOSTIC RADIOLOGY

**Peer-Reviewed Articles:**


**Book Chapters:**


**Platform or Symposium Presentations/Abstracts:**


Diagnostic Radiology

Platform or Symposium Presentations/Abstracts: continued


**Barry K, Biondo-Savin E, Perni K.** Solitary fibrous tumors of the cervical spine. 49th Annual ASNR Meeting 2011, Seattle, WA, June 4-9, 2011.


**Emerson, S, Liang Y, Aurand D, Culver-Schultz C.** CTDI verification with a farmer chamber and skin dose in routine CT brain perfusion studies using Siemens 64 Slice, definition dual source, and flash CT scanners. 2011 American Association of Physicists in Medicine (AAPM) and the Canadian Organization of Medical Physicists (COMP), Vancouver, BC, Canada, July 31-August 4, 2011.

Diagnostic Radiology

Platform or Symposium Presentations/Abstracts: continued


Metz T, Khan AM. Patterns in development and maldevelopment of the neonatal and infant brain. 49th Annual ASNR Meeting, Seattle, WA, June 4-9, 2011.


Diagnostic Radiology

Platform or Symposium Presentations/Abstracts: continued


EMERGENCY MEDICINE

Peer-Reviewed Articles:

Auferheide TP, Frascone RJ, Wayne MA, Mahoney BD, Swor RA, Domeier RM. An impedance threshold device combined with active compression decompression CPR improves survival with good neurologic function after cardiac arrest, Lancet 2011:377:301-311. (Also Poster Presentation/Abstract)


Clark C, Berman A, McHugh A, *Roe E, Boura J, Swor R. Hospital process intervals, not EMS time intervals are the most important predictor of rapid reperfusion in EMS STEMI patients. Prehospital Emergency Care, published online October 14, 2011,


Platform or Symposium Presentations/Abstracts:

Emergency Medicine

Poster Presentations/Abstracts:


Website Contributions, Video Clips, or other Multi-Media Contributions:

Emergency Medicine

**Website Contributions, Video Clips, or other Multi-Media Contributions:** continued


**Other Publications (non peer-reviewed):**


FAMILY MEDICINE

**Peer-Reviewed Articles:**


**Platform or Symposium Presentations/Posters:**


Lick D. Common upper extremity joint injections in the ambulatory setting. Practical Update in Primary Care Medicine, Troy, MI, October 2011.

Mulhem E. Update on management of abnormal pap test. Practical Update in Primary Care Conference, Troy, MI, October 2011.

**Poster Presentations/Abstracts:**

**PATHOLOGY and LABORATORY MEDICINE**

**Peer-Reviewed Articles:**


Cappell MS, Onea M, **Amin MB**. GI bleeding from colonic ecchymoses associated with cutaneous ecchymoses over the lower extremities from leukocytoclastic vasculitis mediated by IgA deposition in Henoch-Schönlein purpura. Dig Dis Sci 2011 Jun;56(6):1919-20.


**Maine GN**, Subramanian V, **Mohanakumar T**. ABO-incompatible renal transplantation. ASHI Quarterly, 35:8-12, 2011.

Pathology and Laboratory Medicine

Peer-Reviewed Articles: continued


Book Chapters:


Platform or Symposium Presentations/Abstracts:


Pathology and Laboratory Medicine

Platform or Symposium Presentations/Abstracts: continued


Poster Presentations/Abstracts:


Fennell TR, Rooney MR, Zhang PL. Immunofluorescent slides for renal biopsies can be safely used for review after one and half years of storage in room temperature (USCAP 2011). Modern Pathology 2011; 24 Suppl 1; page 433A. United States and Canadian Academy of Pathology (USCAP) 100th Annual Meeting, San Antonio, TX, February 26-March 4, 2011.


Poster Presentations/Abstracts: continued


Qu ZH. Meaningful implementation of computerized speech recognition (CSR) in routine pathology reporting must be determined by its accuracy and efficacy. Modern Pathology 24(suppl 1): 454A, 2011.


Wiesend W, Rooney MT, Fennel TR, Hicks SK, Zhang PL. Immunohistochemical stains of kappa and lambda confirm monoclonality by immunofluorescent studies and reveal a high percent of “hybrid” proximal tubulopathy in light chains associated monoclonal nephropathy. Modern Pathology 2011;24 Suppl 1; page 354A. United States and Canadian Academy of Pathology (USCAP) 100th Annual Meeting, San Antonio, TX, February 26-March 4, 2011.


Zhang PL, Amin MB. Clear cell papillary renal cell carcinoma and XP11.2 translocation-associated renal cell carcinoma are derived from distal nephron tubules and proximal-tubules respectively. Modern Pathology 2011;24 Suppl 1; page 233A. United States and Canadian Academy of Pathology (USCAP) 100th Annual Meeting, San Antonio, TX, February 26-March 4, 2011.


Website Contributions, Video Clips, or other Multi-Media Contributions:


Other Publications (non peer-reviewed): 


SUBSPECIALTY DIVISIONS OF INTERNAL MEDICINE

GASTROENTEROLOGY and HEPATOLOGY

GENERAL INTERNAL MEDICINE

GERIATRICS

HEMATOLOGY / ONCOLOGY

COMPREHENSIVE BREAST CARE CENTER

INFECTIOUS DISEASES

NEPHROLOGY

NEUROLOGY

NUTRITION and PREVENTIVE MEDICINE
GASTROENTEROLOGY and HEPATOLOGY

Peer-Reviewed Articles:

Al Sibae MR, Cappell MS. Accuracy of MELD scores in predicting mortality in decompensated cirrhosis from variceal bleeding, hepatorenal syndrome, alcoholic hepatitis, or acute liver failure as well as mortality after nontransplant surgery or TIPS. Dig Dis Sci 2011; 56(4):977-987.

Cappell MS. Accidental occupational injuries to endoscopic personnel in a high volume endoscopy suite or hospital during the last decade: Mechanisms, workplace hazards, and proposed remediations. Dig Dis Sci 2011; 56(2):479-487.


Cappell MS. Should a physician interpret a procedural study improperly performed by a nurse or technician, such as capsule endoscopy performed on a wrong patient? A reasonable solution to a medicolegal dilemma. Minerva Gastroenterol Dietol 2011; 57(4):427-432.


Cappell MS. To scope or not to scope: A doctored version of Hamlet’s soliloquy. Am J Gastroenterol 2011; 106(7):1366-1367.
Gastroenterology and Hepatology

Peer-Reviewed Articles: continued

Cappell MS. Transplant hepatology training for board certification: Six months during internal medicine residency and six months during gastroenterology fellowship? Am J Gastroenterol 2011; 106(8):1556-1557.

Cappell MS. Tragic death of Ismar Boas, the father of gastroenterology. Am J Gastroenterol 2011; 106(12):2204.

Platform or Symposium Presentations/Abstracts:


Poster Presentations/Abstracts:


Gastroenterology and Hepatology

Poster Presentations/Abstracts: continued


Other Publications (non peer-reviewed):

Cappell MS. Controversy in history: Four original, landmark publications that revolutionized gastroenterology and medicine with annotations. American College of Gastroenterology, Washington, DC, October 28-November 2, 2011.
Peer-Reviewed Articles:


Platform or Symposium Presentations/Abstracts:


Poster Presentations/Abstracts:


General Internal Medicine

Poster Presentations/Abstracts: continued


Kelekar A. MRI characteristics of BRCA associated breast cancers. American Society of Clinical Oncology, Chicago IL, June 4, 2011.

*Kumar U. CA-MRSA causing severe necrotizing multilobar pneumonia leading to ARDS. American College of Physicians Associates Scientific Meeting, Ann Arbor, MI, May 20, 2011.


**General Internal Medicine**

**Poster Presentations/Abstracts: continued**

**Nojkov B, Duffy M, Cappell M.** Utility of repeated abdominal computed tomography (CT) in patients with an initially negative CT scan presenting to emergency room with non-traumatic abdominal pain. Digestive Disease Week Meeting, Chicago, IL, May 6-8, 2011.


**Raza S, Pothugunta K.** Not as easy as ABCDE. American College of Physicians, Michigan Chapter Scientific Meeting, Grand Rapids, MI, September 8-10, 2011.

*Samala N, Siddiqi M, Snyder M, Cappell M.** All gastrointestinal bleeds are not purely intestinal in origin. Digestive Disease Week Meeting, Chicago, IL, May 8, 2011.


**Skrzynski A, Shah A.** Introducing palliative care options at an appropriate time for patients with end stage heart failure during hospitalization. American College of Physicians, Michigan Chapter Scientific Meeting, Grand Rapids, MI, September 8-10, 2011.

**Sule AN, Sule AS, Ram Pai B, Shamoun T.** Lump in the breast: Resident or alien. Michigan Chapter Scientific Meeting, Grand Rapids, MI, September 8-10, 2011.

**Verrill T, Bilal A, Junaidi B.** Myeloproliferative nature of JAK 2 mutation revealed by splenectomy. American College of Physicians, Michigan Chapter Scientific Meeting, Grand Rapids, MI, September 8-10, 2011.
GERIATRICS

Platform or Symposium Presentations/Abstracts:


Poster Presentations/Abstracts:


Barton EM, Voytas J. Syncope work up at Beaumont: Are we getting the most for our money? 41st Annual Residents and Fellows Research Forum, Beaumont Health System, Royal Oak, MI June 8, 2011.


HEMATOLOGY / ONCOLOGY

Peer-Reviewed Articles:


Platform or Symposium Presentations/Abstracts:

**Hematology / Oncology**

**Platform or Symposium Presentations/Abstracts:** continued


**Poster Presentations/Abstracts:**


COMPREHENSIVE BREAST CARE CENTER

Peer-Reviewed Articles:


Platform or Symposium Presentations/Abstracts:


Poster Presentations/Abstracts:


Comprehensive Breast Care Center

Website Contributions, Video Clips, or other Multi-Media Contributions:

**INFECTIOUS DISEASES**

**Peer-Reviewed Articles:**


**Book Chapters:**


**Platform or Symposium Presentations/Abstracts:**

Marples B, Sims MD, Li J. Creating image-analysis software to categorize tissue architecture in pre-clinical and clinical histological sections. 2nd Annual Oakland University Beaumont Biomedical Research Symposium, February 16, 2011.

**Poster Presentations/Abstracts:**

Infectious Diseases

Poster Presentations/Abstracts: continued


Website Contributions, Video Clips, or other Multi-Media Contributions:


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Peer-Reviewed Articles:


Platform or Symposium Presentations/Abstracts:


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Other Publications (non peer-reviewed):

NUTRITION and PREVENTIVE MEDICINE

Peer-Reviewed Articles:


Poster Presentations/Abstracts:

**NUCLEAR MEDICINE**

**Peer-Reviewed Articles:**


**Poster Presentations/Abstracts:**


Wu D, Wong CYO, Cheng W. Negative predictive value of FDG PET/CT studies for pulmonary nodules without appreciable FDG activity on visual analysis. World Molecular Imaging Congress (WMIC), San Diego, CA, September 7-10, 2011.

Website Contributions, Video Clips, or other Multi-Media Contributions:


Other Publications (non peer-reviewed):   

Peer-Reviewed Articles:


Platform or Symposium Presentations/Abstracts:


Poster Presentations/Abstracts:


Poster Presentations/Abstracts:

Obstetrical / Gynecological Services

Obstetrical Ultrasound & Fetal Imaging

Peer-Reviewed Articles:


Poster Presentations/Abstracts:


**OPHTHALMOLOGY**

**Peer-Reviewed Articles:**

Alexandra AO, **Drenser KA.** Hypercoagulable state in a patient with a retinal vein occlusion. Retinal Cases and Brief Reports 2011;5:76-8.


**Capone A,** Repka MX, Tung B, Good WV Jr, Shapiro MJ. Outcome of eyes developing retinal detachment during the early treatment for retinopathy of prematurity study. Arch Ophthalmol 2011; Sep;129(9):1175-9.


Ophthalmology

Peer-Reviewed Articles: continued


Fecko AM, Ho LY, Walsh MK, Williams GA. Intravitreal bevacizumab and ranibizumab for choroidal neovascularization secondary to endogenous endophthalmitis. Retinal Cases and Brief Reports 2011;5:229-32.


**Ophthalmology**

**Peer-Reviewed Articles:** continued

**Hassan TS.** Managing proliferative vitreoretinopathy with retinal detachment. Retina Today 2011;38-40.


Ho LY, Ho V, Aggarwal H, Ranchod TM, **Capone A Jr, Trese MT, Drenser KA.** Management of avascular peripheral retina in older prematurely born infants. Retina 2011;31(7):1248-54.


Ho V, Ho LY, Ranchod TM, **Drenser KA, Williams GA, Garretson BR.** Endogenous methicillin-resistant staphylococcus aureus endophthalmitis. Retina 2011;31(3):596-601.


Ranchod TM, **Drenser KA, Garretson BR.** Retinal neovascularization after internal carotid artery occlusion. Retinal Cases and Brief Reports 2011;5:206-8.

Ranchod TM, Ho LY, **Drenser KA, Capone A Jr, Trese MT.** Clinical presentation of familial exudative vitreoretinopathy. Ophthalmology 2011;118(10):2070-5.


Ranchod TM, **Walsh MK, Capone A, Hassan TS, Williams GA.** Hyphema after intravitreal injection of ranibizumab or bevacizumab. Retinal Cases & Brief Reports 2011;5:87-90.


**Williams GA.** Predicting visual success in macular hole surgery. Evidence-Based Ophthalmology, Volume 12, No. 1, 2011.
Peer-Reviewed Articles: continued


Book Chapters:


Platform Presentations/Abstracts:


Dass AB. All floaters are not created equally: Diagnostic challenges. Retinal update for the Contemporary Optometrist, Southfield, MI, March 20, 2011.


Drenser KA. Retinal disease in the pediatric population. Retinal Update for the Contemporary Optometrist, Southfield, MI, March 20, 2011.


Drenser KA. Rescue and maintenance of retinal capillaries. 29th Pan-American Congress of Ophthalmology, Buenos Aires, Argentina, July 6-9, 2011.
Ophthalmology

**Platform Presentations/Abstracts: continued**

**Drenser KA, Capone A, Tokunago C, Trese MT.** Wnt-directed vascular remodeling in a model of retinopathy. 29th Annual Meeting of the American Society of Retina Specialists (ASRS), Boston, MA, August 20-24, 2011.

**Drenser KA.** Rescued vascularization by norrin in a model of retinopathy. 44th Retina Society Annual Scientific Meeting, Rome, Italy, September 21-25, 2011.

**Drenser KA.** Manejo de ROP agresivo posterior. Asociación Mexicana De Retina, Cancun, Mexico, September 7-10, 2011.

**Drenser KA.** Discusión de casos clinicos con los expertos. Asociación Mexicana De Retina, Cancun, Mexico, September 7-10, 2011.

**Drenser KA.** Experiencia clínica tratando edema macular. Asociación Mexicana De Retina, Cancun, Mexico, September 7-10, 2011.


**Drenser KA.** Pros and pitfalls of anti-VEGF treatment in the neonate. International Symposium on Ocular Pharmacology and Therapeutics (ISOPT), Vienna, Austria, December 1-4, 2011.

**Drenser KA.** Wnt-driven modulation of capillary growth and maintenance. International Symposium on Ocular Pharmacology and Therapeutics (ISOPT), Vienna, Austria, December 1-4, 2011.


**Faia LJ.** Scleritis and systemic diseases. 11th Annual International Ocular Inflammation Society Congress, Goa, India, November 15, 2011.

**Faia LJ.** Vitreoretinal lymphoma: Cases and management. 11th Annual International Ocular Inflammation Society Congress, Goa, India, November 15, 2011.


**Faia LJ.** Surgical management of infectious uveitis. 29th Pan-American Congress, Buenos Aires, Argentina, July 9, 2011.

**Faia LJ.** Not all Inflammation is the same: Diagnoses you cannot miss. Retinal Update for the Contemporary Optometrist, Novi, MI, March 20, 2011.
Ophthalmology

Platform Presentations/Abstracts: continued


Hassan TS. Faculty debates: Lucentis is superior to Avastin. 11th Annual Retina Fellows Forum, Chicago, IL, January 28-30, 2011.


Hassan TS. Diagnosis and treatment of diabetic macular edema. Retinal Update for the Contemporary Optometrist, Southfield, MI, March 20, 2011.


Hassan TS. Vitreoretinal dry labs b and c. 13th Vitreoretinal Symposium. Vitreoretinal Surgery Teaching with the EyeSi Microsurgical and Diagnostic Simulator, Frankfurt, Germany, May 12, 2011.

Hassan TS. Interface approaches. 13th Vitreoretinal Symposium, Frankfurt, Germany, May 13, 2011.

Hassan TS. Injection, combination, and mono-site vitrectomy technology. 13th Vitreoretinal Symposium, Frankfurt, Germany, May 13, 2011.


Hassan TS. Outcomes of vitrectomy and pars plana vitrectomy for dropped cataractous lens material in previously vitrectomized eyes. 29th Annual American Society of Retina Specialists (ASRS) Meeting, Boston, MA, August 20-24, 2011. XXXVI Brazilian Congress of Ophthalmology, Porto Alegre, Brazil, September 6-9, 2011.


Hassan TS. Current concepts of vitrectomy for diabetic macular edema. XXXVI Brazilian Congress of Ophthalmology, Porto Alegre, Brazil, September 6-9, 2011.

Hassan TS. Enzymatic vitrectomy: What will we be able to do with it? XXXVI Brazilian Congress of Ophthalmology, Porto Alegre, Brazil, September 6-9, 2011.


Ophthalmology

Platform Presentations/Abstracts: continued


Pandya HK, **Faia LJ, Drenser KA.** Macular development in advanced posterior retinopathy of prematurity. Association for Research in Vision and Ophthalmology, Fort Lauderdale, FL, May 1-5, 2011.

**Ruby AJ.** Retinal manifestations of systemic disease: What you don’t want to miss. Retinal Update for the Contemporary Optometrist, Southfield, Michigan, March 2011.

**Ruby AJ.** Treatment of cystoid macular edema. Spring Cataract and Refractive Surgical Symposium Breakfast with the Experts, Beaumont Health System, Royal Oak, MI, May 2011.

**Ruby AJ.** Posterior fibrin proliferation following diabetic retinopathy. Club Vit 14th Annual Meeting, Santa Monica, CA, July 2011.

**Ruby AJ.** Wet age related macular degeneration (AMD) retinal vein occlusion (RVO), and the role of diagnostics. For Technicians in Retina, Southfield, MI, August 2011.


Ophthalmology

Platform Presentations/Abstracts: continued

Trese MT. Management of vitreoretinal juncture. GIVRE Meeting, Rome, Italy, June 2011.


Trese MT. Translating from bench to bedside. New Approaches to Understand and Treat Vision Loss Symposium, Stanford University, Palo Alto, CA, September 2011.


Trese MT. Enzymatic manipulation of the vitreous. Vision Discovery Institute Seminar, Georgia Health Sciences University, Augusta, GA, November 2011.

Trese MT. Translational minisymposium and resident/fellow teaching conference, University of Kentucky, Lexington, KY, December, 2011.


Williams GA. What have we learned from the CATT: How has it impacted my practice, and will it affect financial reimbursement? 11th Annual Advanced Vitreoretinal Techniques and Technology (AVTT) Symposium & CPE Vitreoretinal Fellow’s Program, Chicago, IL, August 2011.

Williams GA. Pharmologic vitreolysis. Mid-Year Seminar for Osteopathic Ophthalmologists, Detroit, MI, August 2011.

Ophthalmology

**Platform Presentations/Abstracts:** continued

**Wolfe JD.** Diagnosis and treatment of peripheral retinal disease. Retinal Update for the Contemporary Optometrist. Southfield, MI, March 20, 2011.


**Poster Presentations/Abstracts:**


**Faia LJ.** Macular development in aggressive posterior retinopathy of prematurity. Association for Research in Vision and Ophthalmology, Fort Lauderdale, FL, May 1, 2011.


**Other Publications (non peer-reviewed):**

**ORTHOPAEDIC SURGERY**

**Peer-Reviewed Articles:**


Orthopaedic Surgery

Peer-Reviewed Articles: continued


Book Chapters:


Platform or Symposium Presentations/Abstracts:


Orthopaedic Surgery

Platform or Symposium Presentations/Abstracts: continued


Orthopaedic Surgery

Platform or Symposium Presentations/Abstracts: continued


Poster Presentations/Abstracts:


Orthopaedic Surgery

**Poster Presentations/Abstracts:** continued


PEDIATRIC SERVICES

Peer-Reviewed Articles:


Book Chapters:


Platform or Symposium Presentations/Abstracts:

Pediatric Services

Poster Presentations/Abstracts:


Kuisle E, Hanson K, Doshi D. Biphasic stridor in a former twin preterm infant. 10th International Congress on Pediatric Pulmonology, Versailles, France, June 2011.


Other Publications (non peer-reviewed):

PHARMACEUTICAL SERVICES

Poster Presentations/Abstracts:

Peer-Reviewed Articles:


Radiation Oncology

Peer-Reviewed Articles: continued


Radiation Oncology

Peer-Reviewed Articles: continued


Radiation Oncology

Peer-Reviewed Articles: continued


Book Chapters:

Radiation Oncology

Book Chapters: continued


Platform or Symposium Presentations/Abstracts:

Burgess L. Volumetric modulated arc therapy (VMAT): Emerging technology and treatment technique. American Society for Radiation Oncology 53rd Annual Meeting, Miami Beach, FL, October 2-6, 2011.


*Chunta J. Refining MicroPET/CT acquisition and reconstruction parameters for optimal treatment response monitoring in orthotopic glioblastoma multiforme (GBM). 2011 World Molecular Imaging Congress (WMIC), San Diego, CA, September 5-11, 2011.

Marples B. Cell death pathways: Mechanisms and relevance to the radiation response. 14th International Congress of Radiation Research, Warsaw, Poland, August 28-September 1, 2011.

Marples B. Creating image-analysis software to categorize tissue architecture in pre-clinical and clinical histological sections. 2nd Annual Oakland University Beaumont Biomedical Research Symposium, Oakland University, Rochester, MI, February 16, 2011.


Marples B. Pre-clinical radiobiology research: From Alzheimer’s to xenografts. 4th Annual BioBank Symposium, Beaumont Health System, Royal Oak, MI, November 18, 2011.


Marples B. Small animal imaging in radiation oncology. Radiation Research SIT Workshop, Intercontinental Hotel, Warsaw, Poland, August 27, 2011.
**Radiation Oncology**

**Platform or Symposium Presentations/Abstracts: continued**


**Martin S.** The imaging experience: Cone beam methods and techniques. American Society for Radiation Oncology Annual Meeting, Miami Beach, FL, October 2-6, 2011.


**Wilson G.** Translational research: Bench to bedside. Advances in head and neck cancer: minimizing morbidity and dealing with HPV in a multidisciplinary fashion, Townsend Hotel, Birmingham, MI, July 8, 2011.

**Wloch J.** The imaging experience: Review of site specific cone beam CT images. American Society for Radiation Oncology Annual Meeting, Miami Beach, FL, October 2-6, 2011.

**Poster Presentations/Abstracts:**

Radiation Oncology

Poster Presentations/Abstracts: continued

*Al-Dabanni N. Comparing the effect of the relatively higher activity of the iridium-192 in the first week of source exchange to the relatively lower activity in the last week just before the source replacement and its effect in toxicity. American Society for Radiation Oncology 53rd Annual Meeting, Miami Beach, FL, October 2-6, 2011.


Radiation Oncology

**Poster Presentations/Abstracts:** continued


Radiation Oncology

**Poster Presentations/Abstracts: continued**


**Lee D.** Identification of an E3 ubiquitin ligase, CUBL, as a substrate for protein arginine methyltransferase, CARM 1, and its potential role in radiation-induced DNA damage repair. American Society for Radiation Oncology 53rd Annual Meeting, Miami Beach, FL, October 2-6, 2011.
Radiation Oncology

Poster Presentations/Abstracts: continued

Lee D. Assessment of treatment response and mechanisms of concurrent radiation and temozolomide action by microPET/CT in a murine orthotopic model of glioblastoma multiforme. American Society for Radiation Oncology 53rd Annual Meeting, Miami Beach, FL, October 2-6, 2011.


Radiation Oncology

**Poster Presentations/Abstracts: continued**


Stone B. Changes in pulmonary function following image guided stereotactic radiotherapy of the lung. American Society for Radiation Oncology 53rd Annual Meeting, Miami Beach, FL, October 2-6, 2011.


Wilkinson J. Abdominal compression vs. no compression for early stage lung ca or lung metastases. American Society for Radiation Oncology 53rd Annual Meeting, Miami Beach, FL, October 2-6, 2011.


Radiation Oncology

Poster Presentations/Abstracts: continued


Other Publications (non peer-reviewed):


RESEARCH INSTITUTE

Research Administration

Peer-Reviewed Articles:


Research Administration

Peer-Reviewed Articles: continued


Platform or Symposium Presentations/Abstracts:


Research Administration

Platform or Symposium Presentations/Abstracts: continued


Poster Presentations/Abstracts:


Research Administration

Poster Presentations/Abstracts: continued


SUBSPECIALTY DIVISIONS OF SURGICAL SERVICES

EAR, NOSE and THROAT SURGERY
GENERAL SURGERY
MULTI-ORGAN TRANSPLANT
NEUROSURGERY
PERIPHERAL VASCULAR SURGERY
PULMONARY and CRITICAL CARE
SURGICAL LEARNING CENTER
THORACIC SURGERY
SURGICAL SERVICES

Ear, Nose and Throat Surgery

Peer-Reviewed Articles:


Poster Presentations/Abstracts:


SURGICAL SERVICES

General Surgery

Peer-Reviewed Articles:


Nagar S, Koffron A, Raofi V. A case of ruptured ectopic liver tissue within the gallbladder wall. HPB Surgery 2011:389381, published online August 11, 2011.


Platform or Symposium Presentations/Abstracts:


General Surgery

Platform or Symposium Presentations/Abstracts: continued


Poster Presentations/Abstracts:


General Surgery

**Poster Presentations/Abstracts: continued**


**Nagar S.** Discrimination of benign versus malignant follicular lesions of the thyroid gland using gene expression of fine needle aspirates. American Association of Endocrine Surgeons, Houston, TX, April 9-12, 2011.


General Surgery

Poster Presentations/Abstracts: continued

Urban N. Prospective surveillance for lower extremity deep vein thrombosis in surgical intensive care unit patients. 41st Annual Residents’ and Fellows’ Research Forum, Beaumont Health System, Royal Oak, MI, June 8, 2011.
SURGICAL SERVICES

Multi-Organ Transplant Surgery

Peer-Reviewed Articles:


Platform or Symposium Presentations/Abstracts:


SURGICAL SERVICES

Neurosurgery

Peer-Reviewed Articles:


Book Chapters:


Neurosurgery

**Book Chapters**: continued


**Poster Presentations/Abstracts:**

**Diaz FG, Pieper DR, Michael DB, Olson RE.** Clinical outcomes and toxicities following gamma knife radiosurgery for arteriovenous malformations. American Society for Therapeutic Radiology and Oncology Meeting, Miami, FL, October 2011.

**Diaz FG.** Surgical and radiosurgical management of arterio venous malformations. World Federation of Neurological Surgery Continuing Education Course. 15th Annual Brazilian Society of Neurosurgery Congress of Continuous Education, Porto de Galinhas Beach, Pernambuco, Brazil, September 2011.

**Michael MB.** Significant reduction of beta-amyloid in the CNS following external radiation: Implications for treatment in Alzheimer's Disease. 10th International Conference on Alzheimer's and Parkinson's Diseases, Barcelona, Spain, December 2011.
Neurosurgery

Poster Presentations/Abstracts: continued


**Pieper DR.** Quality of life and audiologic changes in patients treated with gamma knife stereotactic radiosurgery for vestibular schwannoma. American Society for Therapeutic Radiology and Oncology Meeting, Miami, FL, October 2011.

**Pieper DR.** Outcomes and toxicities following gamma knife radiosurgery with or without surgical resection for glomus tumors. American Society for Therapeutic Radiology and Oncology Meeting, Miami, FL, October 2011.


**Perez-Cruet MJ.** Utility of minimally invasive single level spinal fusion and adjacent level laminectomy in patients with multilevel spinal stenosis and spindylolisthesis. Congress of Neurological Surgeon Meeting, Washington, DC, October 2011.

Surgical Services

Peripheral Vascular Surgery

Peer-Reviewed Articles:


Platform or Symposium Presentations/Abstracts:


Rawashdeh O, **Hammond R, Das M, Shanley C**. Development of a canine model for the study of obstructive sleep apnea. 2nd Annual Oakland University Beaumont Hospitals Biomedical Research Symposium, Rochester, MI, February 16, 2011.


Poster Presentations/Abstracts:


Peripheral Vascular Surgery

**Poster Presentations/Abstracts**: continued


Pulmonary and Critical Care

Poster Presentations/Abstracts:

SURGICAL SERVICES

Thoracic Surgery

Peer-Reviewed Articles:


Poster Presentations/Abstracts:


Peer-Reviewed Articles:


Peters KM. Interstitial cystitis: Is it time to look beyond the bladder? J Urology, published online December 14, 2011.

Urology

Peer-Reviewed Articles: continued


Book Chapters:

Urology

Book Chapters: continued


Platform or Symposium Presentations/Abstracts:


Chancellor M. Neuromodulation with botulinum toxin. Hands-on neuromodulation, Dearborn, MI, September 30-October 1, 2011.


Gilleran J, Carrico DJ, Peters K. Does the pelvic floor distress inventory questionnaire (PFDI-20) adequately reflect the visual analogue scale for pelvic pain in women? Society for Urodynamics and Female Urology, Phoenix, AZ, March 1-5, 2011.

Gilleran J, Martinez-Suarez H, Peters K. One-year outcome of staged InterStim implant in those with less than 4 active leads by sensory response does not differ in those with 4 active leads. Society for Urodynamics and Female Urology, Phoenix, AZ, March 1-5, 2011.


Urology

Platform or Symposium Presentations/Abstracts: continued


**Peters K.** Advanced neuromodulation: Sacral, pudendal and tibial. 7th Pan Arab Continence Society Meeting in collaboration with The International Continence Society and International Children Continence Society, Dubai, UAE, February 4, 2011.

**Peters K.** Lumbar to sacral nerve rerouting to restore voiding and bowel function in spina bifida and spinal cord injury. 7th Pan Arab Continence Society Meeting in collaboration with the International Continence Society and International Children Continence Society. Dubai, UAE, February 4, 2011.


Urology

Platform or Symposium Presentations/Abstracts: continued


Poster Presentations/Abstracts:


Urology

Poster Presentations/Abstracts: continued


Peters K. Treatment interval frequency of percutaneous tibial nerve stimulation 18-month results from the STEP study. 41st International Continence Society Meeting, Glasgow, Scotland, August 31, 2011.


Urology

**Poster Presentations/Abstracts**: continued


**Tyagi P, Qu XG, Chancellor MB, Peters K.** Urine inflammatory biomarkers for differential diagnosis of OAB from IC/PBS. 2nd Annual Oakland University Beaumont Hospitals Biomedical Research Symposium, February 16, 2011.


**Other Publications (non peer-reviewed):**

