Research Institute

Report of Accomplishments

2013
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 patients’ lives are improved and enriched because of the outstanding research carried out by 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 a history of 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 which 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 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 OUWB 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.

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 research, numbering over 1,103 trials with over 620,293 registered research participants. Beaumont’s clinical services are superb, providing the standard upon which new and innovative research is built. The volume of patients served at Beaumont, combined with the excellence of clinical care, provides a striking opportunity to develop new treatments.

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 which 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 provide. 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.
Beaumont Research Institute
Fact Sheet – 2013

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 40 accredited residency and fellowship programs involving 454 residents and fellows, and 195 research staff, including 63 research nurses.

Funding
2014 Research Institute Operations $34.0M

External sources of research funding
(based on 2013 data)
♦ Commercial sponsors 36 %
♦ Federal sponsors 15 %
♦ Philanthropic sponsors 13 %
♦ Intellectual Property 36 %

Types of research at Beaumont Health System
(based on 2013 percentage of revenue)
• Clinical Research 50 %
• 3 % Phase I
• 28 % Phase II  Phase based
• 69 % Phase III  on HIC submission
• Pre-clinical/ Research 50 %

External sources of research funding by Research Service Line
(based on 2013 data)
• Surgical Services 43%
  ♦ Radiation Oncology 25 %
  ♦ Urology 6 %
  ♦ Surgical Clinical Trials & Lab 5 %
  ♦ Orthopedics Bench 4 %
  ♦ Anesthesia 2 %
  ♦ Other Programs (various) 1 %

• Medical Services and Other 57%
  ♦ Emergency 5 %
  ♦ Hematology/Oncology 8 %
  ♦ Cardiology 10 %
  ♦ Beaumont Coordinating Center. 5 %
  ♦ Infectious Disease 2 %
  ♦ Nutrition & Preventive Med 1 %
  ♦ Other (Various) 26 %

• Clinical Trials/PIs/Research Participants
  ♦ 1,103 open trials
  ♦ 456 active principal investigators
  ♦ 620,293 registered research participants

Educational opportunities for research staff
♦ 2-day orientation for new research staff
♦ On-line CITI human subjects protection training program
♦ Tuition reimbursement for clinical research certification exams
♦ Seminar Series and Workshops
♦ Residents’ and Fellows’ Research Forum
♦ 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
♦ Commercialization Center
♦ Compliance
♦ Database Development
♦ Education
♦ Federal Grant Development
♦ Human Resources
♦ Institutional Animal Care and Use Committee (IACUC)
♦ Institutional Review Board (IRB)
♦ Outcomes Research Group

The scope of support for the Research Institute
Beaumont Health System:
♦ More than 238,280 Emergency Center visits
♦ 98,401 Inpatient admissions
♦ 70 surgical suites
♦ A Flash CT scanner
♦ PET-CT and bitracer
♦ 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.
Peer-Reviewed Articles:


Abstracts from Scientific/Medical Meetings:


Anesthesiology and Perioperative Medicine

Abstracts from Scientific/Medical Meetings: continued


PeR-Reviewed Articles:


Pezeshkian P, Donnelly C, Tamburo K, Geddes TJ, Madlambayan G. Leukemia mediated endothelial cell activation modulates leukemia cell susceptibility to chemotherapy through a positive feedback loop mechanism. PLoS One, published online April 1, 2013.


Geddes TJ. The new generation of biorepository sample quality assessment for downstream analyses: The SMART and SPIN metrics. 5th International Leaders in Biobanking Congress, Indianapolis, IN, November 4, 2013.
BioBank

Abstracts from Scientific/Medical Meetings: continued


Thibodeau BJ. Ongoing BioBank studies in head and neck cancer. 6th Annual BioBank and Erb Family Core Molecular Laboratories Symposium, Royal Oak, MI, November 1, 2013.

Thibodeau BJ. Implementation of a DNA signature for sample identification and quality control at the Beaumont BioBank. 5th International Leaders in Biobanking Congress, Indianapolis, IN, November 4-5, 2013.


BioBank

Abstracts from Scientific/Medical Meetings: continued


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


Other Publications (non peer-reviewed):


CARDIOVASCULAR DISEASE

Peer-Reviewed Articles:


Goldstein JA. Coronary artery spasm and thyrotoxicosis: The best index is that of suspicion. Coron Artery Dis, published online December 9, 2013.
Cardiovascular Disease

Peer-Reviewed Articles: continued


Cardiovascular Disease

Peer-Reviewed Articles: continued


Rizik D, Goldstein JA. NIRS-IVUS imaging to characterize the composition and structure of coronary plaques. J Intervent Cardiol 2013;25:2-4A.


Cardiovascular Disease

Peer-Reviewed Articles: continued


Book Chapter or Full Book Publications:


Abstracts from Scientific/Medical Meetings:


Burris A. Aortic dissection and puncturing from false to true lumen. 22nd Annual Cardiovascular Conference, Beaver Creek, CO, February 10-13, 2013.

Crimmins G. Complication using Lariat device with hemopericardium. 22nd Annual Cardiovascular Conference, Beaver Creek, CO, February 10-13, 2013.


Jiddou M. Impella CP case presentation. 22nd Annual Cardiovascular Conference, Beaver Creek, CO, February 10-13, 2013.

Jiddou M. Pressure wire fraction and migration crossing Bjork-Shiley AoV requiring snaring. 22nd Annual Cardiovascular Conference, Beaver Creek, CO, February 10-13, 2013.


Wood F. Transapical approach closure of paravalvular leak with apical hemorrhage. 22nd Annual Cardiovascular Conference, Beaver Creek, CO, February 10-13, 2013.


Other Publications (non peer-reviewed):

Cardiovascular Disease

Other Publications (non peer-reviewed): continued


Abstracts from Scientific/Medical Meetings:


Peer-Reviewed Articles:


Diagnostic Radiology and Molecular Imaging

Peer-Reviewed Articles: continued


Book Chapter or Full Book Publications:


Diagnostic Radiology and Molecular Imaging

Abstracts from Scientific/Medical Meetings:


Copelan A, Savin M. Y-microspheres selective internal radiation therapy: Case study of carcinoid metastasis to the liver. Triage cases of HCC. Is there a best treatment option? The Cleveland Clinic Foundation Conference, Cleveland, OH, February 27, 2013.

*Cox A, Bis K. Imaging of post liver transplant complications and normal variants. 43rd Annual Beaumont Health System Residents’ and Fellows’ Research Forum, Royal Oak, MI, June 5, 2013.


Jolepalem P, Rydberg J, Wong CY. Improvement of hepatic metastasis detection by 18F-FDG PET/CT with the use of the lesion to background liver activity ratio. American College of Nuclear Medicine Society of Nuclear Medicine and Molecular Imaging Mid-Winter Meeting, New Orleans, LA, January 23-27, 2013.


Diagnostic Radiology and Molecular Imaging

Abstracts from Scientific/Medical Meetings: continued


Diagnostic Radiology and Molecular Imaging

Abstracts from Scientific/Medical Meetings: continued


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


Other Publications (non peer-reviewed):


**Peer-Reviewed Articles:**

**Bastani A, Shaqiri B, Palomba K, Bannano D, Anderson WT.** An ED scribe program is able to improve throughput time and patient satisfaction. American Journal Emergency Medicine, published online March 26, 2013.


Kurz MC, Sawyer KN. Perhaps crying "clear" should be left to the TV actors? Resuscitation. 2013 May;84(5):533-4.
**Emergency Medicine**

**Peer-Reviewed Articles:** continued


**Abstracts from Scientific/Medical Meetings:**


Bell SA, Kowalenko T, Oteng R, Donkor P. Emergency nursing education in West Africa: Challenges and successes. 18th World Congress on Disaster and Emergency Medicine, Manchester, United Kingdom, May 28-31, 2013.
Emergency Medicine

Abstracts from Scientific/Medical Meetings: continued


Linnstaedt S, Bortsov A, Swor RA, Jones J, Lee D, Peak D, et al. Among women with substantial pretraumatic distress after minor motor vehicle collision (MVC), the presence of one or more G alleles at OPRM1 A118G is protective against developing persistent moderate or severe pain. Annual Meeting of the American Pain Society, New Orleans, LA, May 8-11, 2013.


Emergency Medicine

Abstracts from Scientific/Medical Meetings: continued


Emergency Medicine

Other Publications (non peer-reviewed):

Peer-Reviewed Articles:


Abstracts from Scientific/Medical Meetings:


Other Publications (non peer-reviewed):

Mulhem E. What are the benefits and harms of zinc for preventing the common cold? Cochrane Clinical Answers 2013. DOI: 10.1002/cca.188.

Mulhem E. What are the effects of zinc for treating the common cold? Cochrane Clinical Answers 2013. DOI: 10.1002/cca.187.

Mulhem E. What are the effects of topical steroid in people with chronic rhinosinusitis without polyps? Cochrane Clinical Answers 2013. DOI: 10.1002/cca.191.

Mulhem E. In children with acute bacterial meningitis, is there randomized controlled trial evidence to support adding corticosteroids to standard treatment with antibacterial agents? Cochrane Clinical Answers 2013. DOI: 10.1002/cca.164.

Mulhem E. In adults with acute bacterial meningitis, is adding corticosteroids to standard treatment with antibacterial agents helpful? Cochrane Clinical Answers 2013. DOI: 10.1002/cca.163.

Mulhem E. In people with symptomatic chronic rhinosinusitis, how does topical and systemic antifungal therapy affect outcomes? Cochrane Clinical Answers 2013. DOI: 10.1002/cca.160.

Mulhem E. In people with type 2 diabetes mellitus, what are the effects of adding colesevelam to other antidiabetic agents? Cochrane Clinical Answers 2013. DOI: 10.1002/cca.170.

Mulhem E. In pregnant women with pre-existing diabetes, how do different intensities of glycemic control affect outcomes? Cochrane Clinical Answers 2013. DOI: 10.1002/cca.128.

Mulhem E. What are the benefits and harms of different intravenous fluid regimens in people with acute bacterial meningitis? Cochrane Clinical Answers 2013. DOI: 10.1002/cca.124.

Family Medicine

Other Publications (non peer-reviewed): continued


Mulhem E. What are the effects of nebulized epinephrine in children with croup? Cochrane Clinical Answers 2013. DOI: 10.1002/cca.82.

Mulhem E. What are the benefits and harms of adding zinc to standard antibiotic therapy for pneumonia in young children? Cochrane Clinical Answers 2013. DOI: 10.1002/cca.91.

Mulhem E. In people with acute bronchitis, how do antibiotics affect outcomes? Cochrane Clinical Answers 2013. DOI: 10.1002/cca.87.
PATHOLOGY and LABORATORY MEDICINE

Peer-Reviewed Articles:


Pathology and Laboratory Medicine

Peer-Reviewed Articles: continued


**Hayek S, Kuntzman T, Jax J, Cary D, Bernacki E.** Comparison of endoscopic ultrasound-guided fine needle aspiration of solid pancreatic lesions and lymph nodes with and without rapid on-site adequacy evaluation. Journal of the American Society of Cytopathology 2013 (2) (Suppl)S64.


Pathology and Laboratory Medicine

Peer-Reviewed Articles: continued


Saad A, Cappell M, Amin M. Endoscopic findings with GI angiosarcoma correspond with the propensity of these vascular tumors to cause GI bleeding: Two case reports and review of the literature. Dig Dis Sci June 2013 58:1797-1801.


Abstracts from Scientific/Medical Meetings:

*Baqai J, Huang J, Smith MD. Bcl-2 maturation pattern in t-cells distinguishes thymic neoplasm/hyperplasia, t-lymphoblastic lymphoma and reactive lymph nodes. United States and Canadian Academy of Pathology Annual Meeting, Baltimore, MD, March 2-8, 2013.


Pathology and Laboratory Medicine

Abstracts from Scientific/Medical Meetings: continued


Robinson-Dunn BE, Makin J, Darnell E, Boyanton Jr BL. Verification of the Bactec FX System for culture of normally sterile body fluids. 113th General Meeting, American Society for Microbiology, Denver, CO, May 18-21, 2013.


Pathology and Laboratory Medicine

Abstracts from Scientific/Medical Meetings: continued


SUBSPECIALTY DIVISIONS OF INTERNAL MEDICINE

ALLERGY

GASTROENTEROLOGY and HEPATOLOGY

GENERAL INTERNAL MEDICINE

GERIATRICS

HEMATOLOGY / ONCOLOGY

COMPREHENSIVE BREAST CARE CENTER

INFECTIOUS DISEASES

NEPHROLOGY

NEUROLOGY

NUTRITION and PREVENTIVE MEDICINE

PALLIATIVE CARE
Abstracts from Scientific/Medical Meetings:

Peer-Reviewed Articles:


Gastroenterology and Hepatology

Peer-Reviewed Articles: continued


Saad A, Cappell MS, Amin M. Endoscopic findings with GI angiosarcomas correspond with the propensity of these vascular tumors to cause GI bleeding. Dig Dis Sci 2013; 58(6):1797-1801.

Skomorowski, M, Cappell, MS. Endoscopic findings with severely symptomatic esophagitis from an overly restrictive laparoscopic adjustable gastric band. Surgery for Obesity & Related Diseases, published online July 10, 2013.

Abstracts from Scientific/Medical Meetings:


Gastroenterology and Hepatology

Abstracts from Scientific/Medical Meetings: continued


Peer-Reviewed Articles:


Abstracts from Scientific/Medical Meetings:


Daloul R. What looks like Fabry disease, may not be Fabry! American Society of Nephrology Kidney Week Annual Meeting, Atlanta, GA, November 5-10, 2013.


General Internal Medicine

Abstracts from Scientific/Medical Meetings: continued


Dass K, Niculescu O. Alternaria alternata induced asthma. American College of Allergy, Asthma, and Immunology National Meeting, Baltimore, MD, November 7-11, 2013.


General Internal Medicine

Abstracts from Scientific/Medical Meetings: continued


**Karnib H, Ravikrishnan KP.** The calm before the storm. American College of Physicians Michigan Chapter Scientific Meeting, Bellaire, MI, September 27-29, 2013.

**Kassier A.** West Nile virus associate flaccid paralysis. American College of Physicians Internal Medicine, San Francisco, CA, April 8-13, 2013.


**Ladkany R.** In acute hepatitis: Don’t forget to check for EBV. American College of Physicians Associates Meeting, Troy, MI, May 10, 2013.


General Internal Medicine

Abstracts from Scientific/Medical Meetings: continued


Paudel S. Daytime arrhythmia in severe obstructive sleep apnea: An unusual case. Society of General internal Medicine, Midwest Chapter Meeting, Chicago IL, September 12-13, 2013.


**General Internal Medicine**

**Abstracts from Scientific/Medical Meetings**: continued


**Skrzynski J.** Eosinophilic pneumonia: Resist the temptation to treat pneumonia that isn’t. American College of Physicians Associates Meeting, Troy, MI, May 10, 2013.


**Yadav S.** Expressive aphasia: When it is not stroke or infection. American College of Physicians Associates Meeting, Troy, MI, May 10, 2013.


HEMATOLOGY / ONCOLOGY

Peer-Reviewed Articles:


Abstracts from Scientific/Medical Meetings:


COMPREHENSIVE BREAST CARE CENTER

Peer-Reviewed Articles:

INFECTIOUS DISEASES

**Peer-Reviewed Articles:**


**Book Chapter or Full Book Publications:**


Infectious Diseases

**Book Chapter or Full Book Publications:** continued


**Abstracts from Scientific/Medical Meetings:**

Aggarwal A, Smith J, Mehta N, Boura J, Chinnaiyan K, **Lauter C**, Raff G. High dose beta blocker use does not increase the frequency of allergic contrast reaction in coronary CT angiogram (CTA) examinations. American Heart Association National Meeting, Dallas, TX, November 18-20, 2013.


Muraleedharan C, Bhutani N, Mikhail S, **Band J,** Kumar A, Walia SK. Characterizing extended spectrum beta lactamase (blaCTX-M-1, blaTEM and blaKPC) gene pollution in urban Clinton river fresh water sediments in Michigan. 113th General Meeting, American Society for Microbiology, Denver, CO, May 2013.
Infectious Diseases

Abstracts from Scientific/Medical Meetings: continued


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


Other Publications (non peer-reviewed):

Peer-Reviewed Articles:


Peer-Reviewed Articles:


Other Publications (non peer-reviewed):

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

Peer-Reviewed Articles:


OBSTETRICAL / GYNECOLOGICAL SERVICES

**Peer-Reviewed Articles:**


**Book Chapter or Full Book Publications:**


**Abstracts from Scientific/Medical Meetings:**


Obstetrical / Gynecological Services

Other Publications (non peer-reviewed):


Peer-Reviewed Articles:


Peer-Reviewed Articles:


Orthopaedic Surgery

Peer-Reviewed Articles: continued


Orthopaedic Surgery

Peer-Reviewed Articles: continued


Book Chapter or Full Book Publications:


Abstracts from Scientific/Medical Meetings:


Orthopaedic Surgery

Abstracts from Scientific/Medical Meetings: continued


*Moore DD. In vivo incorporation of fresh osteochondral allografts pretreated with bisphosphonates during cold storage. 16th Annual Orthopaedic Research and Education Foundation/Orthopaedic Research Society Resident Research Symposium, Chicago, IL, May 17, 2013. First Place, Basic Science Category.


Orthopaedic Surgery

Abstracts from Scientific/Medical Meetings: continued


Orthopaedic Surgery

Abstracts from Scientific/Medical Meetings: continued


Orthopaedic Surgery

Abstracts from Scientific/Medical Meetings: continued


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


Rohde RS. Trouble opening jars? A Nation in Motion, June 2013. http://anationinmotion.org/2013/06/?post_type=commentary


**PEDIATRIC SERVICES**

**Peer-Reviewed Articles:**


Pediatric Services

Peer-Reviewed Articles: continued


Abstracts from Scientific/Medical Meetings:


Pediatric Services

Abstracts from Scientific/Medical Meetings: continued


Pediatric Services

Abstracts from Scientific/Medical Meetings: continued


Website Contributions, Videoclips, or other Multi-Media Contributions:


Other Publications (non peer-reviewed):


Peer-Reviewed Articles:


Abstracts from Scientific/Medical Meetings:


RADIATION ONCOLOGY

Peer-Reviewed Articles:


**Radiation Oncology**

**Peer-Reviewed Articles: continued**


Schoenherr D, Krueger SA, Martin L, Marignol L, Wilson GD, Marples B. Determining if low dose hyper-radiosensitivity (HRS) can be exploited to provide a therapeutic advantage: A cell line study in four glioblastoma multiforme (GBM) cell lines. International Journal of Radiation Biology 89(12):1009-16, 2013.


Abstracts from Scientific/Medical Meetings:


Radiation Oncology

Abstracts from Scientific/Medical Meetings: continued


Radiation Oncology

Abstracts from Scientific/Medical Meetings: continued


Other Publications (non peer-reviewed):

Research Administration

Peer-Reviewed Articles:


Research Administration

**Peer-Reviewed Articles:** continued


**Abstracts from Scientific/Medical Meetings:**

Aggarwal A, Smith J, Mehta N, **Boura JA,** Chinnaiyan K, Lauter C, Raff G. High dose beta blocker use does not increase the frequency of allergic contrast reaction in coronary CT angiogram (CTA) examinations: Results from the Advanced Cardiovascular Imaging Consortium (ACIC). American Heart Association National Meeting, Dallas, TX, November 18-20, 2013.


Research Administration

Abstracts from Scientific/Medical Meetings: continued


SUBSPECIALTY DIVISIONS OF SURGICAL SERVICES

GENERAL SURGERY
MULTI-ORGAN TRANSPLANT
NEUROSURGERY
OTOLARYNGOLOGY
PULMONARY and CRITICAL CARE
THORACIC SURGERY
VASCULAR SURGERY
**GENERAL SURGERY**

**Peer-Reviewed Articles:**


Khandhar P, **Jenkins C**. Malrotation with midgut volvulus presenting as pediatric sepsis. Critical Care Medicine, Volume 41, Issue 12, December 2013, p 1129.


**Abstracts from Scientific/Medical Meetings:**


Peer-Reviewed Articles:


Abstracts from Scientific/Medical Meetings:


NEUROSURGERY

Peer-Reviewed Articles:


Book Chapter or Full Book Publications:


Abstracts from Scientific/Medical Meetings:


Neurosurgery

Abstracts from Scientific/Medical Meetings: continued

**Diaz F.** Management of cerebral arterio venous malformations of the brain. Surgery or Radiosurgery. Inauguration Seminar, Gamma Knife Center of Indonesia, Jakarta, Indonesia, February 2013.

**Diaz F.** Gamma knife radiosurgery for metastatic brain disease. 5th International Oncology Symposium, Yangtze University, Jingzhou, China, November 2013.


**Perez-Cruet M.** Patient selection, operative nuances and complication avoidance for TLIF. Minimally Invasive Neurosurgery Meeting, Oakland University William Beaumont School of Medicine, Royal Oak, MI, August 2013.

**Perez-Cruet M.** Understanding the pathophysiology of low back pain to offer cost effective surgical care using minimally invasive spinal techniques. SMISS Meeting, Las Vegas, NV, November 1-3, 2013.
Peer-Reviewed Articles:


Book Chapter or Full Book Publications:


Abstracts from Scientific/Medical Meetings:


PLASTIC SURGERY

Peer-Reviewed Articles:


Abstracts from Scientific/Medical Meetings:

Peer-Reviewed Articles:

Chung H, Welsh R. Continuous sedation during spontaneous breathing trial as an adjunct for extubation. Critical Care Medicine Dec 2013; 41(12):381.

Abstracts from Scientific/Medical Meetings:

Peer-Reviewed Articles:


Abstracts from Scientific/Medical Meetings:

Peer-Reviewed Articles:


Urology

Peer-Reviewed Articles: continued


Urology

Peer-Reviewed Articles: continued


Urology

Peer-Reviewed Articles: continued


Book Chapter or Full Book Publications:


Abstracts from Scientific/Medical Meetings:


Urology

Abstracts from Scientific/Medical Meetings: continued


Korman H. Multidisciplinary cancer clinics in urology: The wave of the future. Uro-Oncology Update for Primary Care Physicians, Birmingham MI, November 1, 2013.
Korman H. Treatment of prostate cancer and rising PSA. Uro-Oncology Udate for Primary Care Physicians, Birmingham, MI, November 1, 2013.


Urology

Abstracts from Scientific/Medical Meetings: continued


Pridmore D, Kaul S. Enucleation of T1 renal masses. 87th Annual Meeting of the North Central Section of the American Urological Association, Naples, FL, October 8-13, 2013.


**Urology**

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