Research Institute

Report of Accomplishments

2017

Beaumont HEALTH
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 Beaumont physicians, scientists and staff.

Outstanding biomedical research is a major component of the excellent reputation of Beaumont Health as an academic health system. 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 as a leading academic health system, with recognition by U.S. News and World Report, a distinction which places Beaumont in the forefront of medicine in the U.S.

With Beaumont Health’s role 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 basic, translational and population 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 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 1,158 trials with over 10,363 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. Moving forward, Beaumont Health and OUWB will build upon existing research strengths in nationally recognized clinical and translational programs, including Cardiovascular Medicine, Radiation Oncology, Urology, Orthopaedics, OB/GYN, Ophthalmology, Emergency Medicine and many others, to establish a new emphasis in population/community health and learning health system initiatives that will focus on improving health and healthcare delivery for our patients and communities.

We are proud to present this Report of Research Accomplishments. It highlights the depth and breadth of Beaumont’s academic excellence, including our affiliation with OUWB. We extend our congratulations and appreciation to the many investigators who have contributed these extraordinary achievements.
Beaumont Health, serving southern Michigan and beyond, recognizes the inherent value of research as a major contributing factor to future improvements in health care delivery and the health of our local and global communities. The Beaumont Research Institute (RI), established by the Board of Trustees in 1966, strengthens Beaumont’s ability to conduct medical research and to provide research training for allied health and medical staff and participants in undergraduate and graduate medical education programs. Beaumont Health is a major teaching facility, with 79 accredited residency and fellowship programs involving 837 residents and 97 fellows, and 170 research staff.

### Funding
2018 Research Institute actual operations $36.9M

### External Sources of Research Funding
(2017 data)
- Commercial sponsors 32 %
- Federal sponsors 21 %
- Philanthropic sponsors 10 %
- Intellectual Property 37 %

### Types of Research at Beaumont Health
(2017 percentage of expenses)
- Clinical Research 47 %
- Pre-clinical Research 53 %

### External Research Funding by Service Line
(2017 data)
- Radiation Oncology 26 %
- Urology 10 %
- Hematology/Oncology 8 %
- Infectious Disease 6 %
- Orthopedics 6 %
- Emergency 5 %
- Cardiology 5 %
- OB/GYN 3 %
- Other (Various, Admin/Inv. IP Share) 31 %

### Educational Opportunities for Research Staff
- 2-day orientation for new clinical research staff
- Animal use training
- On-line CITI human subjects protection training
- Online guidance/modules on initiating research
- Resident and Fellow Research Forum
- Seminar series and workshops

### Support Staff Available
- Accounting / Contracting / Administrative
- Biostatisticians
- Commercialization Center
- Compliance Office
- Database Development
- Grant Development
- Human Resources
- Institutional Animal Care and Use Committee
- Institutional Biosafety Committee
- Institutional Review Board
- Outcomes Research Group
- Research Education

### Support for the Research Institute
- AAALAC accredited animal facility
- AAHRPP accredited human research protection program
- Beaumont Research Coordinating Center for multicenter clinical trials
- BioBank/Erb Family Core Molecular Lab
- Flash CT scanner
- Fully equipped bench laboratories
- National Cancer Institute’s Community Oncology Research Program (NCORP)
- Partnership with OUWB School of Medicine
- Proton Beam
- PET-CT and Biotracer

### Clinical Research
- 1,232 clinical studies
- 357 interventional studies
- 874 non-interventional studies
- 439 active principal investigators
- 5,021 registered research participants
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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.
BEAUMONT HOSPITAL
Royal Oak, Troy, Grosse Pointe
**Peer-Reviewed Articles:**


**Abstracts with Associated Research Presentations:**


**Invited Research Presentations:**

BIOBANK

Peer-Reviewed Articles:


Abstracts with Associated Research Presentations:


Invited Research Presentations:

CARDIOVASCULAR DISEASE

Peer-Reviewed Articles:


Cardiovascular Disease

**Peer-Reviewed Articles:** continued


**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 Chapter or Full Book Publications:


Cardiovascular Disease

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


**Abstracts with Associated Research Presentations:**


Cardiovascular Disease

Abstracts with Associated Research Presentations: continued


Invited Research Presentations:

Franklin BA. After athletics: Behavioral skills for winning in life. Starner Distinguished Speaker Series, Kent State University, Kent, OH, April 30, 2017.


Franklin BA. Discussant, case presentation. 29th Annual Michigan Chapter of the American College of Cardiology, Dearborn, MI, October 13-14, 2017.

Franklin BA. Enhancing the continuum of care through evidence-based practice: The case for cardiac rehabilitation. Medical Grand Rounds, Las Palmas Del Sol Healthcare Continuing Medical Education, Del Sol Medical Center, El Paso, TX, April 26, 2017.
Cardiovascular Disease

Invited Research Presentations: continued


Franklin BA. Moving from our reactive ‘sick care’ model to proactive healthcare: Changing paradigms and perceptions. 64th Annual Meeting of the American College of Sports Medicine, Denver, CO, May 31-June 3, 2017.

Franklin BA. Obesity, physical activity, and cardiorespiratory fitness: Key roles in survival of the cardiovascular patient. Cardiometabolic University Meeting Program, Dallas, TX, December 3, 2017.


Franklin BA. Transforming ordinary people into extraordinary leaders: Key behavioral skills leaders learn along the way. 32nd AACVPR Annual Meeting, Charleston, SC, October 4-7, 2017.

Franklin BA. Transforming ordinary people into extraordinary leaders. Michigan Society for Respiratory Care, Fall Conference, Frankenmuth, MI, October 9, 2017.
Cardiovascular Disease

Invited Research Presentations: continued

Goldstein JA. Angiography alone is insufficient to guide PCI: The important role of direct coronary imaging in the interventional lab. 12th Interventional Congress on Coronary Artery Disease (ICCAD), Venice, Italy, October 15-17, 2017.


Goldstein JA. RV failure and percutaneous support. Update on PFO. Scottsdale Interventional Forum (SIF), Scottsdale, AZ, March 8-11, 2017.


Goldstein JA. Vulnerable plaque: Holy grail or fool’s errand? Advanced Revascularization Chapter (ARCH), Percutaneous Cardiac and Peripheral Vascular Therapeutics, St. Louis, MO, April 20-21, 2017.

Safian R. Advances in cardiovascular imaging and intervention: CT and invasive FFR: All the same, or something different? Advances in Cardiovascular Imaging and Intervention, Troy, MI, October 5-8, 2017.


Safian R. Occupational hazards of life in the cath lab. 26th Annual Cardiovascular Conference, Beaver Creek, CO, February 4-8, 2017.


Safian R. Preoperative cardiac risk assessment for non-cardiac surgery. 26th Annual Cardiovascular Conference, Beaver Creek, CO, February 4-8, 2017.
Cardiovascular Disease

Invited Research Presentations: continued


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

Haines D. Core lectures in cardiology, web series, Dr. Uddon, WSU.

Non Peer-Reviewed Publications:

Peer-Reviewed Articles:


Ziegler M. VTE prophylaxis. ASCRS Online Learning Center, September 15, 2017.

Abstracts with Associated Research Presentations:


Peer-Reviewed Articles:


Diagnostic Radiology and Molecular Imaging

**Book Chapter or Full Book Publications:**


**Abstracts with Associated Research Presentations:**


Diagnostic Radiology and Molecular Imaging

Abstracts with Associated Research Presentations: continued


Diagnostic Radiology and Molecular Imaging

Abstracts with Associated Research Presentations: continued


Diagnostic Radiology and Molecular Imaging

Abstracts with Associated Research Presentations: continued


Diagnostic Radiology and Molecular Imaging

Abstracts with Associated Research Presentations: continued


Invited Research Presentations:


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


Non Peer-Reviewed Publications:

Peer-Reviewed Articles:


**Emergency Medicine**

**Peer-Reviewed Articles:** continued


Nicks BA, Shah MN, **Bastani A**, Baugh CW, Caterino JM, **Clark CL**, et al. Minimizing attrition for multi-site emergency care research. Acad Emerg Med. 2017 Apr;24(4);458-466.


Emergency Medicine

Peer-Reviewed Articles: continued


Abstracts with Associated Research Presentations:


Emergency Medicine

Abstracts with Associated Research Presentations: continued


Gupta A. A utility of performing serum glucose measurement and electrocardiogram (EKG) in the outpatient evaluation of pediatric syncope. American Academy of Pediatrics (AAP), Bethesda, MD, April 24-26, 2017.


Emergency Medicine

Abstracts with Associated Research Presentations: continued


Emergency Medicine

Abstracts with Associated Research Presentations: continued


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


Non Peer-Reviewed Publications:

FAMILY MEDICINE

Peer-Reviewed Articles:


Book Chapters or Full Book Publications:


Invited Research Presentations:


Non Peer-Reviewed Publications:


Mulhem E. What are the effects of vilanterol added to fluticasone furoate for people with asthma? Cochrane Clinical Answers, 2017.

Mulhem E. What are the benefits and harms of vitamin D for people with asthma? Cochrane Clinical Answers, 2017.
Family Medicine

Non Peer-Reviewed Publications: continued

Mulhem E. For women undergoing assisted reproduction for subfertility, what are the effects of antioxidants. Cochrane Clinical Answers, 2017.

Mulhem E. What are the benefits and harms of routine oro/nasopharyngeal suction at birth in term infants? Cochrane Clinical Answers, 2017.


Mulhem E, Burch J. How does umeclidinium compare with placebo for people with chronic obstructive pulmonary disease (COPD)? Cochrane Clinical Answers, 2017.


SUBSPECIALTY DIVISIONS OF INTERNAL MEDICINE

ALLERGY

GASTROENTEROLOGY and HEPATOLOGY

GENERAL INTERNAL MEDICINE

GERIATRICS

HEMATOLOGY / ONCOLOGY

INFECTIOUS DISEASES

NEUROLOGY

NUTRITION and PREVENTIVE MEDICINE
ALLERGY and IMMUNOLOGY

**Peer-Reviewed Articles:**


**Abstracts with Associated Research Presentations:**


**Lauter CB.** Eosinophilic myocarditis: A rare hypersensitivity reaction to Mesalamine, American College of Physicians (ACP) Michigan Chapter Meeting, Traverse City, MI, October 20-22, 2017.

GASTROENTEROLOGY and HEPATOLOGY

Peer-Reviewed Articles:


Hakim S, Desai T, Cappell MS. Esophageal hemangiomatosis with chest CT revealing a fine, curvilinear, calcified thrombus within the esophagus simulating acute esophageal fishbone impaction: First reported endoscopic photograph of GI manifestations in Maffucci syndrome. Gastrointest Endosc. 2017 Jun; 85(6):1293-1294.


Gastroenterology and Hepatology

Peer-Reviewed Articles: continued


Book Chapters or Full Book Publications:


Abstracts with Associated Research Presentations:


Gastroenterology and Hepatology

Abstracts with Associated Research Presentations: continued


Peer-Reviewed Articles:


Hakim S, Desai T, Cappell MS. Esophageal hemangiomatosis with chest CT revealing a fine, curvilinear, calcified thrombus within the esophagus simulating acute esophageal fishbone impaction: First reported endoscopic photograph of GI manifestations in Maffucci syndrome. Gastrointest Endosc. 2017 Jun;85(6):1293-1294.


General Internal Medicine

Abstracts with Associated Research Presentations:


*Awarded: 2nd Place Winner*


Hakim S. Phlebotomy to maintain iron depletion reduces alpha fetoprotein and reduces incidence of hepatoma and improves survival in chronic hepatitis C. American College of Gastroenterology (ACG) Annual Scientific Meeting, Orlando, FL, October 13-18, 2017.

General Internal Medicine

Abstracts with Associated Research Presentations: continued


Maditz R. A quality improvement project to increase compliance with American Diabetes Association recommended measures in an academic outpatient setting (2016-present). Association of American Medical Colleges (AAMC) Integrating Quality Meeting: Achieving the Quadruple Aim, Rosemont, IL, June 5-6, 2017.


General Internal Medicine

Abstracts with Associated Research Presentations: continued


General Internal Medicine

Abstracts with Associated Research Presentations: continued


**Peer-Reviewed Articles:**


**Abstracts with Associated Research Presentations:**

**HEMATOLOGY / ONCOLOGY**

**Peer-Reviewed Articles:**


Hematology / Oncology

Abstracts with Associated Research Presentations:


INFECTIONOUS DISEASES

**Peer-Reviewed Articles:**


**Book Chapter or Full Book Publications:**


Infectious Diseases

Book Chapter or Full Book Publications: continued


Infectious Diseases

Book Chapter or Full Book Publications: continued


Abstracts with Associated Research Presentations:


Infectious Diseases

Abstracts with Associated Research Presentations: continued


*Bajrovic V, Sims M. Vancomycin as prophylaxis of relapsing clostridium difficile Infection (VAPOR CDI). Michigan Infectious Diseases Society Annual Scientific Meeting, March 18, 2017, Detroit, MI, USA.


Sims M. Evaluation of the curetis lower respiratory tract infection cartridge on the unyvero platform and feasibility of use in a large clinical microbiology laboratory and medical system. 26th Annual Symposium on Molecular Pathology, Clinical Applications of Genomic Medicine, Troy, MI, September 13-14, 2017.
Peer-Reviewed Articles:


Book Chapter or Full Book Publications:


Abstracts with Associated Research Presentations:


Invited Research Presentations:


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

S0272638617303396.pdf?locale=en_US

https://www.clinicalkey.com/service/content/pdf/watermarked/1-s2.0-
S0272638617303396.pdf?locale=en_US
**Peer-Reviewed Articles:**


Loeffler DA, Klaver AC. Polyvalent immunoglobulin binding is an obstacle to accurate measurement of specific antibodies with ELISA despite inclusion of blocking agents. Int Immunopharmacol. 2017 Nov;52:227-229.


**Abstracts with Associated Research Presentations:**


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


Neurology

Non Peer-Reviewed Publications:

Peer-Reviewed Articles:


Book Chapter or Full Book Publications:


Abstracts with Associated Research Presentations:


Campbell D, Gunning D. Using simulation to evaluate retention of ACLS in an emergency department graduate nurse internship program. Beaumont Health Nurses Week, Royal Oak, MI, May 6-12, 2017.

Coulson D, Iverson L. Improving emergency department patient throughput with the implementation of the nurse care coordinator role. Sigma Theta Tau Research Day, Omaha, NE, May 4, 2017.

Nursing

Abstracts with Associated Research Presentations: continued


Invited Research Presentations:


Book Chapter or Full Book Publications:


Abstracts with Associated Research Presentations:


Invited Research Presentations:

Miller WM. Investigating the association of the microbiome and metabolome with sleeve gastrectomy outcomes. Research Roundtable Seminar, Beaumont Research Institute, Royal Oak, MI, August 1, 2017.
**Peer-Reviewed Articles:**


**Abstracts with Associated Research Presentations:**


Obstetrical / Gynecological Services

Abstracts with Associated Research Presentations: continued


Invited Research Presentations:


Graham SF. Targeted metabolomics and its application to prodromal Parkinson's Disease. Metabolomics in Precision Medicine, from Theory to Practice, Toronto, Canada, June 8, 2017.
OPHTHALMOLOGY

Peer-Reviewed Articles:


Faia LJ, Drenser KA. Pediatric uveitis: Challenging for ophthalmologists, patients, and parents. Management of these complicated diseases differs between pediatric and adult patient populations. Retina Today; October 2017; 62-71.


Ophthalmology

Peer-Reviewed Articles: continued


Thomas AS, Mahmoud TH. Subretinal transplantation of an autologous retinal free flap for chronic retinal detachment with proliferative vitreoretinopathy with and without macular hole. Retina, published online December 29, 2017.


Ophthalmology

Peer-Reviewed Articles: continued


Book Chapter or Full Book Publications:


Abstracts with Associated Research Presentations:


Ophthalmology

Abstracts with Associated Research Presentations: continued

Jeng-Miller Karen, Trese MT. Fellow eye findings in Coats’ Disease: Longitudinal serial evaluation with wide field fluorescein angiography. 50th Annual Retinal Society Scientific Meeting, Boston, MA, October 5-8, 2017.


Invited Research Presentations:


Faia LJ. From studies to clinical use: Uveitis data and case review. Consortium of Research and Education (CORE) Allergan, Detroit, MI, October 11, 2017.

Faia LJ. Sutureless intrascleral fixation of secondary intraocular lenses in uveitic patients. 5th Annual Vit-Buckle Meeting, Las Vegas, NV, April 18, 2017.


Hasbrook MA. Multimodal imaging and histologic correlation of isolated metastasis of prostate adenocarcinoma to the choroid. Michigan Association of Physicians with Indian Heritage (MAPI) Annual Meeting, Troy, MI, March 5, 2017.


Ophthalmology

Invited Research Presentations: continued


Korot E. Algorithmic analysis of vitreous hyperreflective foci in OCT scans of patients with uveitis as a correlate of inflammation and visual acuity. Association for Research in Vision and Ophthalmology (ARVO), Baltimore, MD, May 7-11, 2017.


Ophthalmology

**Invited Research Presentations: continued**


**Randhawa S.** The different flavors of retinal detachment. Retinal Update for the Contemporary Optometrist, Pontiac, MI, October 29, 2017.


**Ruby AJ.** Panel discussion/MDs and PAs working together. ASRS Business of Retina Meeting, Dallas, TX, April 1-2, 2017.


Invited Research Presentations: continued


Williams GA. Intrascleral IOL fixation techniques. Retinal Update for the Contemporary Optometrist, Pontiac, MI, October 29, 2017.


Wolfe JD. Optimal management of diabetic macular edema: Optimizing the management of retinal vascular diseases with anti-VEGF therapy and more. Retina Forum, Dallas, TX, August 5, 2017.


Ophthalmology

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


Non Peer-Reviewed Publications:


Wolfe JD. Intraocular pressure elevations are not necessarily glaucoma: Perspectives on ozurdex treatment. Retina Today Supplement, May/June 2017.
**Peer-Reviewed Articles:**


Orthopaedic Surgery

Peer-Reviewed Articles: continued


Abstracts with Associated Research Presentations:


Orthopaedic Surgery

Abstracts with Associated Research Presentations: continued


Zaltz I. Abnormal growth of the upper femur following the modified-Dunn procedure. Annual Meeting of the Pediatric Society of North America, Barcelona, Spain, May 3-6, 2017.
Orthopaedic Surgery

Abstracts with Associated Research Presentations: continued


Zaltz I. Do compensatory anterior pelvic tilt and lumbar lordosis decrease following bilateral periacetabular osteotomy? Annual Meeting of the Pediatric Society of North America, Barcelona, Spain, May 3-6, 2017.
PATHOLOGY and LABORATORY MEDICINE

Peer-Reviewed Articles:


Pathology and Laboratory Medicine

Peer-Reviewed Articles: continued


Pathology and Laboratory Medicine

Peer-Reviewed Articles: continued


Orosey M, Amin M, Cappell MS. A 14-year study of 398 esophageal adenocarcinomas diagnosed among 156,256 EGDs performed at two large hospitals: An inlet patch is proposed as a significant risk factor for proximal esophageal adenocarcinoma. Dig Dis Sci. published online December 16, 2017.


Cousineau C, Roszka JP, Lewinski KL, Wei Li W, Kannan HD, Zhang PL. There is high sensitivity and specific for the correlation between frozen and permanent sections in renal transplant biopsies. The United States and Canadian Academy of Pathology (USCAP) Annual Meeting, San Antonio, TX, March 4-10, 2017.

Cousineau C, Zhang PL, Qu Z. Reduced androgen receptor expression supports diagnosis of hepatocellular carcinoma. The United States and Canadian Academy of Pathology (USCAP) Annual Meeting, San Antonio, TX, March 4-10, 2017.


Gjorgova-Gjeorgjievski S, Zhang PL, Qu Z. Establishing the baseline levels of eosinophils in adult rectal mucosa. American Society for Clinical Pathology (ASCP) Annual Meeting, Chicago, IL, September 6-8, 2017.


Pathology and Laboratory Medicine

Abstracts with Associated Research Presentations: continued


Qu Z, Micale MA, Zhang PL. A web-based pathology reporting system enhances efficiency and promotes standardization in routine practice. The United States and Canadian Academy of Pathology (USCAP) Annual Meeting, San Antonio, TX, March 4-10, 2017.

Roquiz W, Huang JZ. Rapid diagnosis of aggressive mature BNHL based on graphic presentation and statistic descriptions of FSC parameters by flow cytometry. The United States and Canadian Academy of Pathology (USCAP) Annual Meeting, San Antonio, TX, March 4-10, 2017.


Toushan M, Zhang PL, Wei Li W, Kanaan HD. Concurrent immune complex glomerulonephritis (GN) and ANCA-associated crescentic glomerulonephritis (CGN). American Society for Clinical Pathology (ASCP) Annual Meeting, Chicago, IL, September 6-8, 2017.


Pathology and Laboratory Medicine

**Abstracts with Associated Research Presentations:** continued


**Invited Research Presentations:**


Ducatman BS. Thyroid FNA: Overcoming the fear of follicles. West Virginia Association of Pathologists Annual Meeting, Morgantown WV, September 30, 2017.


Robinson-Dunn BE. Identification and susceptibility testing of nontuberculous mycobacteria. Southwestern Association for Clinical Microbiology, St. Louis, MO, September 7, 2017.


Yu L. Advances in sweat gland neoplasms. Qianfoshan Hospital of Shandong Province, Jinan China, October 23, 2017.


Yu L. Future pathology, hot and practical topics in diagnostic pathology. 3rd Chinese American Pathologists Association Diagnostic Pathology Course, Chicago, IL, August 19, 2017.
Invited Research Presentations: continued

Yu L. Melanocytic lesions. Jiangsu TCM Hospital, Nanjing, China, March 29, 2017.

Yu L. Practicing medicine in the era of artificial intelligence. 30th Anniversary Symposium, School of Medicine Nanjing University, Nanjing, China, May 16, 2017.

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

Ducatman BS. The APC P and M survey. Live Webinar (recorded presentation also available on the APC website), September 27, 2017.
Peer-Reviewed Articles:


Pediatric Services

**Peer-Review Articles: continued**

Ghanim MT, **Berman B.** Immune hemolytic anemia (paroxysmal cold hemoglobinuria) preceding Burkitt Lymphoma in a 12-year-old child. J Pediatr Hematol Oncol. 2017 Jan; 39(1); e25-e26.


Paul IM, **Maisels MJ.** Can I stop phototherapy for this baby? Pediatrics. 2017 Mar;139(3). pii: e20163832.


Pediatric Services

Peer-Review Articles: continued


Abstracts with Associated Research Presentations:


Abstracts with Associated Research Presentations:


**PHYSICAL MEDICINE AND REHABILITATION**

**Peer-Reviewed Articles:**


**Abstracts with Associated Research Presentations:**


**Invited Research Presentations:**


RADIATION ONCOLOGY

Peer-Reviewed Articles:


Radiation Oncology

Peer-Reviewed Articles: continued


Radiation Oncology

Peer-Reviewed Articles: continued


Radiation Oncology

Peer-Reviewed Articles: continued


Radiation Oncology

Peer-Reviewed Articles: continued


Sura K, Wilson LD, Grills IS. Comparison of self-reported data on Student Doctor Network (SDN) to objective data of the National Resident Matching Program (NRMP) for individuals applying to radiation oncology. J Am Coll Radiol. 2017 Dec;14(12):1594-1597.


Radiation Oncology

Peer-Reviewed Articles: continued


Book Chapter or Full Book Publications:


Abstracts with Associated Research Presentations:


Radiation Oncology

Abstracts with Associated Research Presentations: continued


Radiation Oncology

Abstracts with Associated Research Presentations: continued


Radiation Oncology

Abstracts with Associated Research Presentations: continued


Radiation Oncology

Abstracts with Associated Research Presentations: continued

External radiation and amyvid treatment is associated with reduction of aβ plaque burden.

mass dynamics during tidal breathing measured from 4DCT. 59th Annual Meeting of the
American Society for Radiation Oncology (ASTRO), San Diego, CA, September 24-27, 2017.

ZA, Krauss DJ]. Correlating acute and chronic gastrointestinal toxicity and dose volume
parameters using surrogate rectal contours in ultrasound based planning for high dose rate
prostate brachytherapy. American Brachytherapy Society (ABS) Annual Meeting, Boston, MA,

Ogunleye FN, Sura K, Blankenship L, Ezekwudo D, Gbadamosi B, Jaiyesimi IA, et al,
[Kabolizadeh P]. Treatment patterns for resected gastric cancer using the National Cancer
Database. American Society of Clinical Oncology (ASCO) Annual Meeting, Chicago, IL, June 2-6, 2017.

Prabhu A, Kesarwani P, Kant S, Graham SF, Chinnaiyan P. Histologically defined
intratumoral sequencing uncovers evolutionary cues into conserved molecular events driving
gliomagenesis. American Association for Cancer Research (AACR) Annual Meeting,
Washington DC, April 1-5, 2017.

Qin A, Liang J, Yan D. A clinical treatment dose monitoring system based on CBCT. American
Association of Physicists in Medicine (AAPM) Annual Meeting, Denver, CO, July 30-August 3,
2017.

Quinn T, Galoforo S, Wilson TG, Ahmed S, Wilson GD. Dual EGFR and PI3k/mTOR targeting
of head and neck cancer in combination with radiation. 59th Annual Meeting of the American
Society for Radiation Oncology (ASTRO), San Diego, CA, September 24-27, 2017.

phase I trial of hypofractionated stereotactic irradiation (HFSRT) with pembrolizumab and
bevacizumab in patients with recurrent high-grade gliomas. Annual Meeting of the Society for

outcomes for patients with Gleason score 10 prostate adenocarcinoma: Results from a multi-
institutional consortium study. 59th Annual Meeting of the American Society for Radiation
Oncology (ASTRO), San Diego, CA, September 24-27, 2017.

pelvis radiation therapy does not significantly improve prostate-cancer specific survival in
patients with Gleason Score 9-10 prostate adenocarcinoma: An analysis of 942 patients treated
in the modern era. 59th Annual Meeting of the American Society for Radiation Oncology
(ASTRO), San Diego, CA, September 24-27, 2017.
Radiation Oncology

Abstracts with Associated Research Presentations: continued


Sura K, Wilson LD, Grills IS. Comparison of self-reported data on student doctor network to objective data of the National Resident Matching Program for individuals applying to radiation oncology. 59th Annual Meeting of the American Society for Radiation Oncology (ASTRO), San Diego, CA, September 24-27, 2017.

Sura K, Ye H, Vu CC, Robertson JM, Kabolizadeh P. How many lymph nodes is enough? Defining the optimal lymph node dissection in stage I-III gastric cancer using the National Cancer Database. American Society of Clinical Oncology (ASCO) Annual Meeting, Chicago, IL, June 2-6, 2017.


Vu CC, Lanni TB, Nandalur SR. Trends in Medicare work relative value unit (wRVU) production in radiation oncology. 59th Annual Meeting of the American Society for Radiation Oncology (ASTRO), San Diego, CA, September 24-27, 2017.


Wang WG, Ye H, Chinnaiyan P. Practice patterns and survival outcomes of intracranial germinoma an analysis of the National Cancer Database. 59th Annual Meeting of the American Society for Radiation Oncology (ASTRO), San Diego, CA, September 24-27, 2017.


Radiation Oncology

Abstracts with Associated Research Presentations: continued


Invited Research Presentations:

Castillo E. Computed tomography derived functional imaging: Improving patient outcomes with mathematics and image processing. Rice University, Department of Computational and Applied Mathematics Colloquium, Houston, TX, October 2017.


Castillo E. 4DCT-derived functional imaging: Theory, implementation, and applications. University of Texas Health Science Center, San Antonio, TX, August 2017.


**Radiation Oncology**

**Invited Research Presentations:** continued

**Ding X.** Clinical commissioning, operation and challenges in the era of PBS and beyond. American Association of Physicists in Medicine (AAPM) Great Lakes Chapter Fall Meeting, Royal Oak, MI, November 2, 2017.

**Ding X.** Clinical commissioning and operation of IBA ProteusONE: Royal Oak’s experience. IBA proton user meeting, ASTRO San Diego, CA, September 24-27, 2017.

**Ding X.** Clinical commissioning, measurements and dosimetry equipments for IBA ProteusONE. IBA dosimetry seminar. 59th American Society for Radiation Oncology (ASTRO) San Diego, CA, September 24-27, 2017.


**Hamstra DA.** Co-Director and Moderator for GU BOOST Course. Radiologic Society of North America (RSNA) Annual Meeting, Chicago, IL, November 26-December 1, 2017.


**Hamstra DA.** Update in pediatric radiation oncology. The Department of Radiation Oncology, Georgetown University Medical Center, Washington, DC, October 2017.


**Stevens CW.** Protons and brachytherapy: More dose in less time with better outcomes. 3rd Annual Beaumont Interdisciplinary Oncology Symposium: Innovations in Cancer Care, Troy, MI, March 4, 2017.

Radiation Oncology

**Invited Research Presentations: continued**


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

**Ding X.** Beaumont opens proton beam therapy center in Royal Oak, July 14, 2017. (crainsdetroit.com)

**Ding X.** IBA and the Beaumont Hospital’s Cancer Institute in Royal Oak, Michigan announce partnership to develop the next generation proton therapy delivery technique, September 25, 2017. (iba-worldwide.com & medicalphysicsweb.org)

**Non Peer-Reviewed Publications:**


**Hamstra DA, Krauss DJ, Buyyounouski MK.** What more can be learned from the ASCENDE-RT trial? Int J. Rad Onc Biol Phys. 2017. Jun 1;98(2):481-482 Letter to Editor


RESEARCH INSTITUTE

Research Administration

Peer-Reviewed Articles:


Research Administration

Peer-Reviewed Articles: continued


Abstracts with Associated Research Presentations:


Research Administration

Abstracts with Associated Research Presentations: continued


Invited Research Presentations:

Rajput J. Healthcare innovation in times of uncertainty. Crain’s Annual HealthCare Summit, Detroit, MI, October 19, 2017.

SUBSPECIALTY DIVISIONS OF SURGICAL SERVICES

BREAST CARE CENTER
GENERAL SURGERY
MULTI-ORGAN TRANSPLANT SURGERY
NEUROSURGERY
OTOLARYNGOLOGY
PEDIATRIC SURGERY
PLASTIC SURGERY
VASCULAR SURGERY
BREAST CARE CENTER

Abstracts with Associated Research Presentations:


Invited Research Presentations:


**GENERAL SURGERY**

**Peer-Reviewed Articles:**


General Surgery

Peer-Reviewed Articles: continued


Book Chapter or Full Book Publications:


Abstracts with Associated Research Presentations:


General Surgery

Abstracts with Associated Research Presentations: continued


General Surgery

Abstracts with Associated Research Presentations: continued


Invited Research Presentations:


Invited Research Presentations: continued


**General Surgery**

**Invited Research Presentations:** continued


**Halka JT, Iacco A, Janczyk R, Vasyluk A.** Robotic and hybrid robotic transversus abdominis release may be performed with low length of stay and wound morbidity. Central Surgical Association and Midwest Surgical Association Joint Annual Meeting, Chicago IL, July 29-August 1, 2017. **Awarded: MSA Best Surgeon in Training Paper.**


MULTI-ORGAN TRANSPLANTATION

Peer-Reviewed Articles:


Invited Research Presentations:


NEUROSURGERY

Peer-Reviewed Articles:


Book Chapter or Full Book Publications:


Neurosurgery

Abstracts with Associated Research Presentations:

**Fahim DK.** Chordoma in the United States: Prognosis and survival analysis of 1598 patients. European Association of Neurological Surgeons Meeting, Venice, Italy, October 1-5, 2017.

**Fahim DK.** Multilevel Kyphoplasty under the same anesthetic. American Association of Neurological Surgeons Annual Meeting, Los Angeles, CA, April 22-26, 2017.

**Fahim DK.** Prognosis and survival analysis of 1598 patients with chordoma. American Association of Neurological Surgeons Annual Meeting, Los Angeles, CA, April 22-26, 2017.

**Fahim DK.** Safety and efficacy of single session multilevel kyphoplasty. European Association of Neurological Surgeons Meeting, Venice, Italy, October 1-5, 2017.

**Fahim DK.** The addition of radiofrequency tumor ablation in the treatment paradigm of patients with metastatic disease. American Association of Neurological Surgeons Annual Meeting, Los Angeles, CA, April 22-26, 2017.


**Perez-Cruet MJ.** Novel device to achieve intervertebral disc regeneration using human stem cell generated nucleus pulposus cells. Congress of Neurological Surgeons Meeting, Boston, MA, October 7-11, 2017.

**Perez-Cruet MJ.** Minimally invasive transforaminal lumbar interbody fusion using a novel autograft bone collector is a cost-saving alternative method for spinal fusion surgery. Congress of Neurological Surgeons Meeting, Boston, MA, October 7-11, 2017.

**Perez-Cruet MJ.** Potential of human NP-like cells derived from umbilical cord to treat degenerative disc disease: Novel mechanism for disc regeneration. Congress of Neurological Surgeons Meeting, Boston, MA, October 7-11, 2017.


Neurosurgery

Abstracts with Associated Research Presentations: continued


Invited Research Presentations:


Michael DB. Mechanisms of TBI: Can we learn the meaning of the message by studying the chemistry of the ink. Congress of Neurological Surgeons Meeting, Boston, MA, October 7-11, 2017.


**Neurosurgery**

**Invited Research Presentations:** continued


**Perez-Cruet MJ.** Novel device to achieve intervertebral disc regeneration using human cord blood stem cells, Michigan Association for Neurological Surgeons (MANS) Meeting, Traverse City, MI, June 9-11, 2017.


**Non Peer-Reviewed Publications:**

**Michael DB.** Chair’s message. Spring 2017 edition of Neurotrauma and Critical Care News. American Association of Neurological Surgeons and Congress of Neurological Surgeons (CNS) Section on Neurotrauma & Critical Care Newsletter.
Neurosurgery

Non Peer-Reviewed Publications: continued

Michael DB. Chair’s message. Fall 2017 edition of Neurotrauma and Critical Care News, the American Association of Neurological Surgeons and Congress of Neurological Surgeons (CNS) Section on Neurotrauma & Critical Care Newsletter.

Peer-Reviewed Articles:


Abstracts with Associated Research Presentations:


Peer-Reviewed Articles:


Abstracts with Associated Research Presentations:


PLASTIC SURGERY

**Peer-Reviewed Articles:**


**Invited Research Presentations:**


PULMONARY and CRITICAL CARE MEDICINE

Peer-Reviewed Articles:


Book Chapter or Full Book Publications:


Pulmonary and Critical Care Medicine

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


**Abstracts with Associated Research Presentations:**


**Invited Research Presentations:**


Jayaschandran V, **Dalal B**. Comparison of PH in patients with ESRD. American Medical Association (AMA) Research Symposium, Honolulu, HI, November 9-11, 2017.

Pulmonary and Critical Care Medicine

Invited Research Presentations: continued


THORACIC SURGERY

**Peer-Reviewed Articles:**


**Invited Research Presentations:**


**Peer-Reviewed Articles:**


**Book Chapter or Full Book Publications:**


Vascular Surgery

Book Chapter or Full Book Publications: continued


Abstracts with Associated Research Presentations:


Invited Research Presentations:


Brown OW. Why vascular surgery must have its own independent RRC and American Board of Medical Specialties (ABMS) approved board: How can the specialty get it, Vascular and Endovascular Issues (VEITH) Symposium, New York, NY, November 14-18, 2017.
**Peer-Reviewed Articles:**


**Urology**

**Peer-Reviewed Articles:** continued


Peer-Reviewed Articles: continued


Book Chapters or Full Book Publications:


Urology

Abstracts with Associated Research Presentations:


Urology

Abstracts with Associated Research Presentations: continued


**Urology**

**Abstracts with Associated Research Presentations:** continued


Invited Research Presentations:


Urology

Invited Research Presentations: continued


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


Non Peer-Reviewed Publications:

BEAUMONT HOSPITAL
Farmington Hills
Abstracts with Associated Research Presentations:

**Hirschman D, Beard C, Lipkin HD.** Primary cutaneous apocrine carcinoma of the scalp: A case presentation and discussion. Michigan State Medical Society Annual Meeting, Novi, MI October 25, 2017.
PATHOLOGY

Peer-Reviewed Articles:

Abstracts with Associated Research Presentations:
Abstracts with Associated Research Presentations:


Knapp D, Antypas E. Isolated ureter injury in the setting of blunt abdominal trauma: Diagnosis and interventional radiology management. American Osteopathic College of Radiology Annual Conference, Las Vegas, NV, April 3-7, 2017. **Awarded: 3rd Place.**


Invited Research Presentations:


Saenz R. Office-based x-ray: What you should know. Symposium for Primary Care Medicine, Novi, MI, November 3-4, 2017.

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

Radiology

Website Contributions, Videooclips, or other Multi-Media Contributions: continued

Saenz R. Chest x-ray virtual workshop. Symposium for Primary Care Medicine, Novi, MI, November 3-4, 2017.

BEAUMONT HOSPITAL
Dearborn, Taylor, Trenton, Wayne
Peer-Reviewed Articles:

CARDIOVASCULAR DISEASE

Peer-Reviewed Articles:

Peer-Reviewed Articles:


SUBSPECIALTY DIVISIONS OF INTERNAL MEDICINE

CLINICAL NUTRITION

DERMATOLOGY

GENERAL INTERNAL MEDICINE

GERIATRICS

MEDICAL EDUCATION
DERMATOLOGY

Peer-Reviewed Articles:


General Internal Medicine

Peer-Reviewed Articles:


Peer-Reviewed Articles:

Peer-Reviewed Articles:

OBSTETRICAL / GYNECOLOGICAL SERVICES

Peer-Reviewed Articles:


Peer-Reviewed Articles:

Peer-Reviewed Articles:

Peer-Reviewed Articles:


Peer-Reviewed Articles:


SUBSPECIALTY DIVISIONS OF SURGICAL SERVICES

GENERAL SURGERY
ORTHOPAEDIC SURGERY
PODIATRIC SURGERY
GENERAL SURGERY

Peer-Reviewed Articles:


**ORTHOPAEDIC SURGERY**

**Peer-Reviewed Articles:**


Peer-Reviewed Articles:


