



UNIVERSITY OF
SOUTH CAROLINA

School of Medicine
Greenville

**Blueprint for Academic Excellence
in the University of South Carolina
School of Medicine Greenville
(USCSOMG)**

Revised: 3-14-16

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SECTION I

Executive Summary

Mission

Improve the health of the people and diverse communities we serve by educating health professionals who will care compassionately, teach innovatively, and improve constantly.

Vision

Transform health care for the benefit of the people and communities we serve.

Guiding Principles

1. USCSOM Greenville will be responsive to the changing health care needs of our society.
2. USCSOM Greenville will strive to consider the needs of the students, faculty, and administration in a manner which enhances the stature of both USC and GHS.
3. USCSOM Greenville understands that health care delivery is constantly evolving and that its physician graduates should facilitate and advocate transformation that improves care provision.
4. USCSOM Greenville will be integrated with all aspects of the GHS delivery system.
5. USCSOM Greenville will graduate physicians who understand and participate in research that compares the relative clinical effectiveness and outcomes of various treatments.
6. USCSOM Greenville supports development of a health care workforce that reflects future societal needs and the diversity of the communities served.
7. USCSOM Greenville will educate physicians to be champions for patient safety, standardization, evidenced based care, and quality; responsible to the medical needs of their community; sensitive to the societal cost of medicine; activists for the education of the future health care workforce; and practitioners that care for all patients regardless of race, social stature, or ability to pay.
8. USCSOM Greenville students will practice patient centered care that values the interdependent roles of health care providers and facilities in service to their patients.
9. USCSOM Greenville will produce physicians competent not only in medical knowledge, technical skill, and patient care, but also in compassion, collaborative interpersonal communication, professional responsibility and ethical behavior.
10. USCSOM Greenville believes that candidates for medical school who value professionalism and possess exceptional interpersonal communication skills can be prepared, identified, and selected to become successful practicing physicians.
11. USCSOM Greenville will establish a learning environment that emphasizes the relationship between undergraduate medical education and the real world of patient care.
12. USCSOM Greenville strives to alleviate the cost of medical education as a significant barrier to student matriculation and graduation, or as a factor in the selection of a career specialty.

13. USCSOM Greenville utilizes policies and procedures that synergistically combine the academic virtues of USC with the operational efficiencies of the GHS health system to the benefit of its students, faculty and staff.
14. USCSOM Greenville faculty will emphasize and demonstrate the clinical import of the materials that they teach.
15. USCSOM Greenville faculty selection, development, and promotion processes will favor those committed to their profession as a calling; who view their teaching ability as a gift and privilege.
16. USCSOM Greenville graduates will be fully prepared and highly competitive to enter graduate medical education.
17. USCSOM Greenville appreciates that access to medical information is constantly changing and that educational focus must continually emphasize methods to optimally acquire the most current knowledge.
18. USCSOM Greenville will utilize educational resources, infrastructure and technology in a fiscally responsible manner, incorporating external resources in the education of health care students when advantageous.

Funding for the USC School of Medicine Greenville is provided through a combination of tuition dollars, interest income from \$75 million set aside from the Endowment Fund of the Greenville Health System, Inc., philanthropy, grant dollars, and operational support dollars from the Greenville Health System (GHS). The School remains in a building mode, as we welcomed our first full class of 100 students in the fall of 2015. As such, our faculty have primarily focused their efforts on building and delivering curriculum, rather than research. As we approach a steady state, we have initiated conversations with our faculty members about areas of research interest and begun pairing them with clinical faculty members with similar interests. The School remains financially stable and well within the original financial projections approved by the Boards of USC and GHS as a part of the feasibility study. The School continues to receive no State funding and anticipates no financial shortfalls on the planning horizon.

SECTION II

Five-Year Academic Goals

Goals

Five-Year Goals

Goal 1: Recruit a full contingent of Biomedical Sciences Faculty (24) and transition four Clinical Department Chairs (Family Medicine, Medicine, Orthopedics and Pediatrics).

Progress: Nineteen Biomedical Sciences (BMS) faculty members have been recruited. We anticipate another two to four faculty members will be recruited in AY 2016-2017. Consideration will be given to recruitment of an Orthopaedic Chair in 2017, as currently the interim Chair is functioning well over Orthopaedics and Surgery simultaneously. The Pediatric timeline will be determined by the retirement plans of the sitting Chair.

Goal 2: Graduate the first class in 2016 and achieve 95% residency placement (national match rate 95% in 2012 and 93.7% in 2013) in the National Residency Match Program.

Progress: The inaugural class matriculated in July 2012 and graduates May 6, 2016. Their NRMP occurs March 18. Preliminary match result indicators are positive. There are 4,158 applicants for the 100 positions in the class of 2020, suggesting that USCSOM Greenville is increasingly attractive to high potential students.

Goal 3: Achieve provisional LCME accreditation in 2014 and full accreditation in 2016.

Progress: Unconditional LCME full accreditation was granted February 10, 2016 with a maximal five year interval to the next LCME site visit.

Goal 4: Achieve 95% three year pass rate for eligible students on the USMLE.

Progress: Historical national pass rates for USMLE Step 1 range from 94%-95%. In preparation for this exam, all assessment items that the students encounter throughout the first two years (formative and summative assessments) are written to National Board Standards and Guidelines. In addition, all medical students participate in progress testing using a National Board produced integrated Basic Science exam that mirrors Step 1 of the USMLE. Students took this exam upon matriculation, mid-Year 1, end of Year 1, mid-year 2, and end of Year 2 before taking the USMLE.

This allows continuous monitoring of individual student progress, as well as assessment of the curriculum in preparation for National Boards. Serial scores have shown progressive improvement within the class, along with the not unexpected bell curve of results. Online test preparation resources are also available and encouraged to the students through our Information Resources and include Exam Master and USMLE World.

To date, the classes of 2016 and 2017 have achieved a combined first attempt USMLE Step 1 pass rate of 96%. The class of 2016 achieved first attempt USMLE Step 2 pass rates of 96% on Clinical Knowledge (CK) and 98% on Clinical Skills (CS).

Goal 5: Complete \$80 million capital campaign for the Second Century by 2017.

Progress: The philanthropic campaign in support of the academic health system and GHS Clinical University with major focus on the USCSOM Greenville and GHS Clinical Services continues. Success is measured by philanthropic contributions generated in cash, pledges and testamentary gifts. Contributions to GHS should be at least \$8.5M. Contributions to USCSOMG should be at least \$2.5M. Campaign totals should be at least \$78M.

SECTION III

Unit Academic Goals

Academic Year 2015-2016

2015-2016 Academic Year Goals

Goal 1: Achieve LCME full accreditation

Results: Full accreditation was achieved in February 2016. The next site visit will be in 2020-2021.

Goal 2: Complete Biomedical Sciences Department infrastructure and hire two to four additional faculty

Results: Recruitment is underway for four Biomedical Science faculty members. The Department of Biomedical Sciences (BMS) has four initiatives designed to enhance the development of scholarship and research consistent with institutional mission and vision.

- The faculty recruitment strategy supports the expectation of scholarly activity for all BMS faculty, who are intentionally recruited with a passion for teaching, enthusiasm for building new programs, commitment to excellence in research and scholarship, and interest and experience that enhances our endeavors.

- The Chair's Advisory Group on unit Criteria was formed for BMS faculty to engage in discussion aimed at creating rigorous unit criteria that are aligned with the core values of the institution and consistent with institutional mission and vision (See Goal 4 below).

Goal 3: Achieve 90% NRMP match rate

Results: Match Day is March 18, 2016. Early results for military and urology residencies yielded encouraging results.

Goal 4 : Complete Biomedical Sciences Department infrastructure; recruit permanent Chair; complete faculty recruitment; and establish P&T unit criteria and non-tenure track criteria.

Results: A search for a permanent Chair of Biomedical Sciences was conducted in late 2014 and early 2015. A new chair was selected and started in February 2015. Promotion and tenure unit criteria for biomedical and clinical sciences were developed with significant input from USCSOMG faculty. The criteria were approved by the office of the Provost and the UCTP in 2014. Non-track unit criteria for biomedical sciences, clinical and research faculty were also developed and approved in 2015.

Goal 5: Initiate Biomedical Sciences faculty research programs of their selection and establish collaborative relationships

- Results:**
- All BMS faculty have been tasked by the chair to initiate relationships with clinical colleagues and to directly observe patient care activities as appropriate for the purpose of developing an understanding of the patient care and clinical delivery opportunities and interests of our partner institution, GHS.
 - All BMS faculty participated in the Student Scholarship Mentor's Day, which provided an opportunity for them to meet faculty within our institutional environment who already engage actively and productively in research and scholarship. This engagement has allowed the faculty to begin linking collaboratively and strategically to ongoing research projects consistent with the institutional mission and vision.

Proposed Academic Dashboard Measures for USCSOMG

1. 100 highly qualified students (+/- 10%) to matriculate in July 2016
2. Maintain a minimum of 800 clinical faculty in eleven clinical departments
3. Biomedical Sciences Faculty

Name	Rank	Specialty
Core Faculty BMS		
Sergio Arce, PhD	Clinical Associate Professor	Immunology
Kirk Baston, MD	Clinical Assistant Professor	Pathology
Robert Best, PhD	Professor	Cytogenetics
Andrew Binks, PhD	Research Associate Professor	Cardio Pulmonary Physiology
Asa Black, PhD	Clinical Professor	Neuro Anatomy
James Buggy, PhD	Associate Professor	Neuroscience
Richard Goodwin, PhD	Professor	Anatomy
Richard Hodinka, PhD	Professor	Microbiology
Mo Khalil, PhD	Clinical Associate Professor	Histology/Anatomy
Renee LeClair, PhD	Clinical Associate Professor	Biochemistry
Thomas Nathaniel, PhD	Clinical Assistant Professor	Neuroscience
Dennis Peffley, PhD	Clinical Professor	Biochemistry

Jayne Reuben, PhD	Clinical Associate Professor	Pharmacology
William Roudebush, PhD	Clinical Associate Professor	Reproductive Physiology
Jennifer Trilk, PhD	Clinical Assistant Professor	Physiology
Shanna Williams, PhD	Clinical Assistant Professor	Anatomy
Matt Tucker, PhD	Clinical Assistant Professor	Neuroscience
Dennis Wolff, PhD	Clinical Associate Professor	Pharmacology
William Wright, PhD	Clinical Assistant Professor	Physiology
Peggy Wagner, PhD	Research Professor	Research
Other Core Faculty		
John Brooks, PhD	Adjunct Professor	Population Health
Manuel Casanova, PhD	Professor	Neurology/Neuro Therapeutics
Anna Cass, PhD	Clinical Assistant Professor	Epidemiology
Cole Chapman, PhD	Clinical Assistant Professor	Population Health
Brent Egan, MD	Clinical Professor	Medicine
Matt Hudson, PhD	Clinical Assistant Professor	Population Health
Mary Hughes, MD	Clinical Associate Professor	Neuroscience
Rafael Igartua, MD	Volunteer Faculty	Medicine (GU/Renal)
William Kanner, MD	Clinical Assistant Professor	Pathology
Jennifer Knight, MD	Clinical Assistant Professor	Pathology
Rebecca Russ-Sellers, PhD	Clinical Assistant Professor	Health Administration/Policy
Windsor Sherrill, PhD	Adjunct Professor	Health Policy
Allison Young, MD	Clinical Assistant Professor	Pathology

4. Clinical Faculty:

Clinical Professor	Clinical Professor of Practice	Clinical Associate Professor	Clinical Assistant Professor	Clinical Instructor	Emeritus Clinical Professor	Emeritus Clinical Associate Professor
46	1	60	647	42	2	1

5. Contract Faculty:

Steven Blair, PhD	Adjunct Professor (USC – Arnold School of Public Health)	Exercise Science, Epidemiology, and Biostatistics
Neena L. Champaigne, MD	Adjunct Assistant Professor (Greenwood Genetics)	Clinical Faculty
Barbara DuPont, PhD	Adjunct Associate Professor (Greenwood Genetics)	Cytogenetics
Michael J. Friez, PhD	Adjunct Associate Professor (Greenwood)	Director, Diagnostic Laboratory

	Genetics)	
Leta M. Tribble, PhD	Adjunct Assistant Professor (Greenwood Genetics)	Education
Tim Wood, PhD	Adjunct Assistant Professor (Greenwood Genetics)	Biochemical Laboratory

2016-2017 Academic Year Goals

- Goal 1:** Address issues underlying the findings of the LCME full accreditation site visit survey team delineated in the LCME letter of February 23, 2016 and provide a satisfactory report to the LCME by December 1, 2016.
- Goal 2:** Recruit and assimilate highly qualified individuals for three senior administrative positions: Associate Dean for Academic Affairs, Associate Dean for Student Affairs, and Associate Dean for Institutional Culture and Inclusivity.
- Goal 3:** Initiate a pre-matriculation program to promote academic success for students with diverse backgrounds holding an offer to attend USCSOM Greenville.
- Goal 4:** Establish a plan for USCSOM Greenville students to elect population health related distinguished graduation tracks and pilot at least one topic area.
- Goal 5:** Enable at least 50% of the BMS core faculty to identify areas of research and become engaged in focused areas of scholarship pursuit.

Section IV

Appendices

Appendix A

Resources

Academic Year 2017 Budget

The proposed budget includes \$14.7 million in tuition funding and \$9.0 million in funding support from GHS. This amount includes \$207 thousand to fund the 90-day contingency fund approved by the Joint Board Liaison Committee in February, 2013.

UNIVERSITY OF SOUTH CAROLINA SCHOOL OF MEDICINE GREENVILLE
Proposed Unrestricted Current Funds Summary

	AY 2015 - 2016 Projected					
	A Funds	D Funds	E Funds			Total
			Operating Support Funds	Contingency Fund	Dean's Fund	
RESOURCES:						
Revenue:						
Tuition and Fees	\$ 12,271,893	\$ 99,647	\$ 173,382	\$ -	\$ -	\$ 12,544,922
State Appropriations	-	-	-	-	-	-
Grants, Contracts and Gifts	-	-	8,497,569	55,939	500,000	9,053,508
Sales & Service of Educ and Other Sources	148,725	-	-	-	-	148,725
Sales & Service of Auxiliary Enterprise	-	-	-	-	-	-
Total	\$ 12,420,618	\$ 99,647	\$ 8,670,951	\$ 55,939	\$ 500,000	\$ 21,747,155
Transfers:						
Transfers-In	\$ 9,968,972	-	-	-	-	\$ 9,968,972
Transfers-Out	-	(345,320)	(9,123,652)	-	(500,000)	(9,968,972)
Net Transfers	\$ 9,968,972	\$ (345,320)	\$ (9,123,652)	\$ -	\$ (500,000)	\$ -
Prior Year's Fund Balance	\$ 117,875	\$ 245,728	\$ 841,471	\$ 1,431,264	\$ 1,397,815	\$ 4,034,153
TOTAL RESOURCES	\$ 22,507,465	\$ 55	\$ 388,770	\$ 1,487,203	\$ 1,397,815	\$ 25,781,308
USES:						
Educational and General Expenditures:						
Instruction	\$ 9,388,643	-	-	-	-	\$ 9,388,643
Research	-	-	-	-	-	-
Public Service	-	-	-	-	-	-
Academic Support	2,145,423	-	-	-	-	2,145,423
Student Services	1,520,504	55	-	-	-	1,520,559
Institutional Support	3,543,767	-	-	-	-	3,543,767
Operation and Maintenance of Plant	3,429,514	-	-	-	-	3,429,514
Scholarships and Fellowships	2,479,614	-	-	-	-	2,479,614
Total	\$ 22,507,465	\$ 55	\$ -	\$ -	\$ -	\$ 22,507,520
Auxiliary Expenditures	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL USES	\$ 22,507,465	\$ 55	\$ -	\$ -	\$ -	\$ 22,507,520
FUND BALANCE	\$ -	\$ -	\$ 388,770	\$ 1,487,203	\$ 1,397,815	\$ 3,273,788

	AY 2016 - 2017 Budget					
	A Funds	D Funds	E Funds			Total
			Operating Support Funds	E110 90 Day Contingency Fund	Dean's Fund	
RESOURCES:						
Revenue:						
Tuition and Fees	\$ 14,551,506	\$ -	\$ 201,600	\$ -	\$ -	\$ 14,753,106
State Appropriations	-	-	-	-	-	-
Grants, Contracts and Gifts	-	-	8,810,131	207,132	-	9,017,263
Sales & Service of Educ and Other Sources	115,000	-	-	-	-	115,000
Sales & Service of Auxiliary Enterprise	-	-	-	-	-	-
Total	\$ 14,666,506	\$ -	\$ 9,011,731	\$ 207,132	\$ -	\$ 23,885,369
Transfers:						
Transfers-In	\$ 8,998,146	-	-	-	-	\$ 8,998,146
Transfers-Out	-	-	(8,998,146)	-	-	(8,998,146)
Net Transfers	\$ 8,998,146	\$ -	\$ (8,998,146)	\$ -	\$ -	\$ -
Prior Year's Fund Balance	\$ -	\$ -	\$ 388,770	\$ 1,487,203	\$ 1,397,815	\$ 3,273,788
TOTAL RESOURCES	\$ 23,664,652	\$ -	\$ 402,355	\$ 1,694,335	\$ 1,397,815	\$ 27,159,157
USES:						
Educational and General Expenditures:						
Instruction	\$ 9,430,301	-	\$ 102,019	\$ -	\$ 200,000	\$ 9,732,320
Research	-	-	-	-	-	-
Public Service	-	-	-	-	-	-
Academic Support	2,170,005	-	300,336	-	-	2,470,341
Student Services	1,601,891	-	-	-	-	1,601,891
Institutional Support	3,778,602	-	-	-	-	3,778,602
Operation and Maintenance of Plant	3,767,593	-	-	-	-	3,767,593
Scholarships and Fellowships	2,916,260	-	-	-	-	2,916,260
Total	\$ 23,664,652	\$ -	\$ 402,355	\$ -	\$ 200,000	\$ 24,267,007
Auxiliary Expenditures	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL USES	\$ 23,664,652	\$ -	\$ 402,355	\$ -	\$ 200,000	\$ 24,267,007
FUND BALANCE	\$ -	\$ -	\$ -	\$ 1,694,335	\$ 1,197,815	\$ 2,892,150

Appendix B

Institutional Comparisons

Institutional Comparisons

Top 10 Public Medical Schools (Primary Care) 2016 US News & World Report: University of Washington, University of North Carolina-Chapel Hill, University of California-San Francisco, University of Nebraska Medical Center, Oregon Health and Science University, University of Michigan–Ann Arbor, University of California-Los Angeles, University of Colorado, University of Wisconsin–Madison, University of Minnesota..

5 Peer Institutions: Our peer group is called the Macy Schools. These are the schools initiated in this century and currently under study by the AAMC through a grant from the Macy Foundation. Of the 19 Macy Schools, the five listed below are most similar to USCSOMG in both the stage of their development and in their focus on innovative curriculum design based upon a close working relationship between the parent university and its affiliated delivery system.

- Oakland University William Beaumont School of Medicine
- Cooper Medical School of Rowan University
- Hofstra North Shore – Long Island Jewish School of Medicine at Hofstra University
- Virginia Tech Carilion School of Medicine
- Western Michigan University School of Medicine

Appendix C

Strengths and Accomplishments

Scholarship, Research, and Creative Accomplishments

- USCSOMG was accredited as a medical school on October 4, 2011. It was the only applicant medical school to achieve preliminary accreditation in 2011. The School received its full accreditation in February 2016.
- The \$59.5 million Health Sciences Education Building was designed to facilitate curriculum and promote inter-professional education. The facility includes a state of the art simulation center, simulated patient education areas, and health sciences library/academic support center (see **Attachment 1**), which will allow it to serve as a regional health science education resource. The building was completed on budget and ahead of schedule in time to welcome the inaugural class. The School was commended on its facilities and technology during the provisional accreditation in 2014.
- During the 2015-16 Academic Year, the School further advanced its plan to establish and grow research and scholarship in areas that leverages the remarkable medical practices and patient resources of the Greenville Health System to directly benefit and/or have potential to benefit stakeholders such as our patients, students, campus and community. This includes the development of organizational structure in the areas of behavioral, social, and population health sciences with continued cultivation of partnerships between USCSOM Greenville, USC Arnold School of Public Health, the Greenville Health System, and institutional partners within the shared academic health center, and the development of a governance structure for the shared academic health center that gives Provost Gabel a clear leadership role with direct input. With the successful recruitment of a Director for the Childhood Neurotherapeutics program, we now have two SmartState Endowed Chairs conducting high-level research on the Greenville campus. The tenure track was launched during this past academic year, resulting in a tenuring Unit with 3 professors, 3 associate professors and 2 assistant professors. This is a strong start toward aspirations of having half or so of the 25 basic science faculty in tenured or tenure track positions. We continue to develop the research infrastructure on campus to support and grow the scholarly and intellectual environment on our campus.
- GHS established a goal of 200 peer reviewed scholarly products for the fiscal year of October 1, 2014, through September 30, 2015 (**See Attachment 8**). For the GHS Fiscal Year ended September 30, 2015, 209 peer reviewed journal articles, journal abstracts, books, and book chapters were published from the areas of GHS Cancer Institute/Institute for Translational Oncology Research, Care Coordination Institute, Emergency Medicine, Family Medicine, Internal medicine, Obstetrics-Gynecology, Orthopaedics, Pediatrics, Pathology, Surgery, Human Resources/Learning & Development, Institute for Advancement of Health Care Scholars, Nursing, Pharmacy, Rehabilitation (including Proaxis Therapy), and USCSOMG Biomedical Sciences.

Academic Health Center (USCSOMG and GHS) CME/CE Report (Fiscal Year Ended September 30, 2015):

Activies	Hours of Instruction	Physician Participants	Non-Physician Participants
92	1,457	5,470	1,464

Research Plan:

GHS is actively involved in a collaborative strategic planning process for academics that includes education and research. As a part of the GHS Academic Health System, USCSOMG is party to that process. For research infrastructure, USCSOMG faculty have the support of the USC Office of Sponsored Programs (OSP) as well as the GHS OSP office.

Five research cluster areas are emerging consonant with the overall direction of the Academic Health System. USCSOMG faculty will be encouraged to align their research interests and initiatives with one or more of the following clusters.

1. Health Services Research led by the GHS Care Coordination Institute (CCI) and under the aegis of the Institute for Advancement of Heath Care (IAHC). The IAHC is a key research entity for USCSOMG with a vision for “innovative research, training, and dissemination of discoveries promoting health and transforming health care delivery” and a mission to:
 - a. Study methods to build workforce capacity.
 - b. Compare effectiveness of interventions and inform policy.
Investigate patient centered models of care.

See **Attachment 3** for a list of IAHC scholars and Seed Grant awards. IAHC Scholars will serve as research mentors for students with an emphasis on health services research.

2. Oncology translational research within the following four programmatic pillars of ITOR:
 - a. Phase I Clinical Research Unit with 20 clinical trials open at any given time (see **Attachment 4**).
 - b. Biorepository as a component of the USC Cancer Center Tissue Bank (see **Attachment 5**).
 - c. Innovation Zone and research laboratories (Selah, Kyatek, and NuBad).
 - d. Clinical Genomics Center in association with Lab21 and anchored by a Life Technologies Ion Torrent next generation gene sequencer; GHS ITOR has been selected as one of the 10 initial global network partners to participate in Life Technologies' Genetic Care Interchange (GCI).

Additional GHS oncology translation research opportunities are found in the 270 active oncology clinical trials at GHS; the Integrative Cancer Therapy Rehabilitative Science Program with active research proceeding in collaboration with Mark Davis, PhD; and the FACT-accredited Bone Marrow Transplant Program.

3. Orthopaedic and cardiovascular translational research in collaboration with the Clemson University BioEngineering Department on the GHS Patewood Campus (CUBEInc – See **Attachments 6 and 7**).
4. Education research to be developed as a collaborative initiative between USCSOMG, the GHS Center for Teaching and Learning (CTL), and the USC College of Education. The CTL provides resources to support the USCSOMG in the areas of faculty development opportunities, simulation education, strategic financial planning, student orientation, and assessment and evaluation. A focus of the CTL is to foster an environment that enhances academic experiences for learners on the GHS campuses.
5. Health Care Technology Cluster; to be developed.

Appendix D

Challenges

The primary challenge facing the USC School of Medicine Greenville at this time remains securing philanthropy for the purpose of student scholarships. The original business plan for the School of Medicine Greenville set aside 10% of tuition dollars for student scholarships. During our initial years of operations, it became apparent that 20% of tuition would be necessary to remain competitive with our peer schools and attract the best students. We have engaged both the USC Development Office and the GHS Institutional Advancement Office in raising money for scholarships. We believe that access to adequate philanthropic funding for scholarships is the single biggest challenge facing the School and appreciate any and all efforts by both USC and GHS to ensure this funding.

Appendix E

Unit Statistical Profile

University of South Carolina - Columbia Strategic Planning Stats

College/School: Medicine - Greenville (New as of Fall 2012)

Fall 2011 Fall 2012 Fall 2013 Fall 2014 Fall 2015

****Applications**

Undergraduate	0	0	0	0	0
Masters	0	0	0	0	0
Certificate	0	0	0	0	0
First Professional	0	1,445	2,298	2,693	3,072
Doctoral	0	0	0	0	0
Total	0	1,445	2,298	2,693	3,072

Fall 2011 Fall 2012 Fall 2013 Fall 2014 Fall 2015

**** Admissions**

Undergraduate	0	0	0	0	0
Masters	0	0	0	0	0
Certificate	0	0	0	0	0
First Professional	0	83	89	82	181
Doctoral	0	0	0	0	0
Total	0	83	89	82	181

Fall 2011 Fall 2012 Fall 2013 Fall 2014 Fall 2015

Student Headcount

Undergraduate	0	0	0	0	0
Masters	0	0	0	0	0
Certificate	0	0	0	0	0
First Professional	0	53	106	188	104
Doctoral	0	0	0	0	0
Total	0	53	106	188	104

Fall 2011 Fall 2012 Fall 2013 Fall 2014 Fall 2015

Majors

Undergraduate	0	0	0	0	0
Masters	0	0	0	0	0
Certificate	0	0	0	0	0
First Professional	0	1	1	1	1
Doctoral	0	0	0	0	0
Total	0	1	1	1	1

	Fall 2010	Spring 2011	Summer 2011	Fall 2011	Spring 2012	Summer 2012	Fall 2012	Spring 2013	Summer 2013	Fall 2013	Spring 2014	Summer 2014	Fall 2014
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Degrees Awarded

Undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0
Masters	0	0	0	0	0	0	0	0	0	0	0	0	0
Certificate	0	0	0	0	0	0	0	0	0	0	0	0	0
First Professional	0	0	0	0	0	0	0	0	0	0	0	0	0
Doctoral	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0

Fall 2011 Fall 2012 Fall 2013 Fall 2014 Fall 2015

FTE Students

Undergraduate	0	0	0	0	0
Masters	0	0	0	0	0
First Professional	0	53	106	173	106
Doctoral	0	0	0	0	0
Total	0	53	106	173	106

	Fall 2010	Spring 2011	Summer 2011	Fall 2011	Spring 2012	Summer 2012	Fall 2012	Spring 2013	Summer 2013	Fall 2013	Spring 2014	Summer 2014	Fall 2014
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Student Credit Hours*

Undergraduate	0	0	0	0	0	0	0	0	0	0	0	0	0
Masters	0	0	0	0	0	0	0	0	0	0	0	0	0
First Professional	0	0	0	0	0	0	901	1,054	0	1,926	1,748	0	2,588
Doctoral	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	901	1,054	0	1,926	1,748	0	2,588

Fall 2011 Fall 2012 Fall 2013 Fall 2014 Fall 2015

Tenure Track Faculty

Professor	0	2	2	0	2
Associate Professor	0	1	1	1	3
Assistant Professor	0	0	0	0	2

Fall 2011 Fall 2012 Fall 2013 Fall 2014 Fall 2015

Visiting Faculty

Professor	0	0	0	0	0
Associate Professor	0	0	0	0	0
Assistant Professor	0	0	0	0	0

Research Faculty

Professor	0	0	0	0	1
Associate Professor	0	0	1	1	1
Assistant Professor	0	0	0	0	0

Clinical Faculty

Professor	0	2	4	4	4
Associate Professor	0	3	6	6	6
Assistant Professor	0	3	4	5	2
Instructor	0	0	0	0	0

Instructors

0	0	0	0	0
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Adjunct Faculty

0	0	0	0	0
---	---	---	---	---

Lecturers

0	0	0	0	0
---	---	---	---	---

DISCLAIMERS

**Excludes continuing education, readmits, and non-degree graduate students

FALL 2015	ETHNICITY	Medicine (MD) Greenville
<i>PROFESSOR</i>	Hispanic	1
	American Indian/Alaska Native	0
	Asian	0
	Black or African American	0
	White	1
	Two or More Races	0
	TOTAL	2
<i>ASSOC PROF</i>	Hispanic	0
	American Indian/Alaska Native	0
	Asian	0
	Black or African American	1
	White	2
	Two or More Races	0
	TOTAL	3
<i>ASST PROF</i>	Hispanic	0
	American Indian/Alaska Native	0
	Asian	0
	Black or African American	0
	White	2
	Two or More Races	0
	TOTAL	2
<i>INSTRUCTOR</i>	Hispanic	0
	Asian	0
	Black or African American	0
	Hawaiian or Pacific Islander	0
	White	0
	Two or More Races	0
	Unknown	0
	TOTAL	0
	<i>LECTURER</i>	White
	TOTAL	0
<i>DIST PROFESSOR</i>	Hispanic	0
	Black or African American	0
	White	0
	TOTAL	0
<i>VISITING PROFESSOR</i>	White	0
	TOTAL	0
<i>VISITING ASSOC PROF</i>	Unknown	0
	TOTAL	0
<i>VISITING ASST PROF</i>	White	0
	TOTAL	0
<i>LIBRARIAN</i>	American Indian/Alaska Native	0
	Asian	0
	White	0
	Two or More Races	0
	TOTAL	0

<i>INST/LIBRARIAN</i>	Asian	0
	White	0
	TOTAL	0
<i>ASST PROF/ASST LIBR</i>	White	0
	TOTAL	0
<i>RESEARCH PROFESSOR</i>	Hispanic	0
	Asian	0
	White	1
	TOTAL	1
<i>RESEARCH ASSO PROF</i>	Hispanic	0
	Asian	0
	White	1
	TOTAL	1
<i>RESEARCH ASST PROF</i>	Hispanic	0
	Asian	0
	Black or African American	0
	Hawaiian or Pacific Islander	0
	White	0
	Unknown	0
	TOTAL	0
	<i>CLINICAL PROF</i>	Asian
White	4	
TOTAL	4	
<i>CLINICAL ASSOC PROF</i>	Hispanic	1
	Asian	0
	Black or African American	2
	White	3
	Two or More Races	0
	TOTAL	6
<i>CLINICAL ASST PROF</i>	Hispanic	0
	Asian	0
	Black or African American	1
	White	1
	Two or More Races	0
	Unknown	0
	TOTAL	2
<i>CLINICAL INST</i>	Asian	0
	Black or African American	0
	White	0
	Two or More Races	0
	Unknown	0
TOTAL	0	
<i>ADJUNCT</i>	Hispanic	0
	American Indian/Alaska Native	0
	Asian	1
	Black or African American	0
	Hawaiian or Pacific Islander	0

	White	6
	Two or More Races	0
	Unknown	23
	TOTAL	30
<i>TOTAL</i>		51

**UNIVERSITY OF SOUTH CAROLINA - COLUMBIA
TOTAL STUDENT CREDIT HOUR PRODUCTION
FALL 2015**

COLLEGE/SCHOOL	COURSE ACRONYM	Lower Division	Upper Division	Profess- ional	Grad 1 - Masters	Grad 2 - Doctoral	TOTAL
MED - Greenville	GMED	0	0	4,028	0	0	4,028
	TOTAL	0	0	4,028	0	0	4,028

UNIVERSITY OF SOUTH CAROLINA - COLUMBIA
TOTAL FTE STUDENTS
FALL 2015

COLLEGE/SCHOOL	COURSE ACRONYM	Lower Division	Upper Division	Profess- ional	Grad 1 - Masters	Grad 2 - Doctoral	TOTAL
MED - Greenville	GMED	0	0	N/A	0	0	0
	TOTAL	0	0	106	0	0	106

***Medicine - Greenville**

**Faculty data generated by Fall 2015 Unofficial Employee file (yearly file)*

		1st Professional	TOTAL
RESEARCH ASSO PROF	GMED	539	539
	TOTAL	539	539
CLINICAL PROF	GMED	462	462
	TOTAL	462	462
CLINICAL ASSOC PROF	GMED	537	537
	TOTAL	537	537
CLINICAL ASST PROF	GMED	730	730
	TOTAL	730	730
NON-APPLICABLE	GMED	1250	1250
	TOTAL	1250	1250
TOTAL		3518	3518

Research by Prinicpal Investigator

Medicine, School of - (Greenville Campus) 396,872

Casanova, Manuel 23,000

Egan, Brent 228,400

Trilk, Jennifer 145,472

University of South Carolina - Columbia

Departmental Planning Data (2009-2013)

College/School: School of Medicine - Greenville

	Fall	Fall		Fall		Fall		Fall	
	2009	2010	% +/-	2011	% +/-	2012	% +/-	2013	% +/-
Student Headcount (Major)									
Undergraduate	0	.	0	.
Masters	0	.	0	.
First Professional	53	.	106	100.00
Doctoral	0	.	0	.
Total	53	.	106	100.00
FTE Enrollment (All students taught by faculty in academic departments associated to school)									
Undergraduate	.	.	.	0	.	0	.	0	.
Masters	.	.	.	0	.	0	.	0	.
First Professional
Doctoral	.	.	.	0	.	0	.	0	.
Total	.	.	.	0	.	0	.	0	.
Degrees Awarded (Previous Fiscal Yr)									
Undergraduate
Masters
First Professional
Doctoral
Total
Student Credit Hours Produced (All students taught by faculty in academic departments associated to school)									
Undergraduate	.	.	.	0	.	0	.	0	.
Masters	.	.	.	0	.	0	.	0	.
First Professional	.	.	.	0	.	0	.	1,386	.
Doctoral	.	.	.	0	.	0	.	0	.
Total	.	.	.	0	.	0	.	1,386	.
Faculty Full-Time	.	.	.	3	.	10	233.33	15	50.00
Tenure Track	.	.	.	0	.	1	.	1	0.00
Faculty Part-Time	.	.	.	0	.	0	.	1	.
Adjunct Faculty	.	.	.	0	.	0	.	0	.
Grad. Assistants	.	.	.	0	.	0	.	0	.

[\[USC Home Page\]](#) [\[IAC Home Page\]](#) [\[Institutional Planning\]](#)
[\[Departmental Planning Data\]](#)

This page updated 6 March 2014 by [Deborah Staley](#).
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URL <http://kudzu.ipr.sc.edu/planning/Dept2013/gmed.pdf>

Appendix F

Supplemental Attachments

ATTACHMENT 1

Health Sciences Library Annual Report 2015



**GREENVILLE
HEALTH SYSTEM**

ghs.org   

Overview



The Library serves all GHS staff and USC School of Medicine Greenville (USCSOMG) staff, students, and faculty with a library at Greenville Memorial Hospital, the Library Commons at USCSOMG, a special collection at Roger C. Peace Rehabilitation Hospital, and an Archives facility at Patewood Administration Building.



Library GMH



Archives



Library Commons

The Health Sciences Library's mission is to provide informational and educational resources supporting patient care, education, and research, furthering GHS' mission to heal compassionately, teach innovatively, and improve constantly. To this end, the library delivers services and resources to answer patient care questions at the point of clinical care; provides comprehensive literature reviews for process improvement and research; and offers unique educational opportunities to facilitate learning.

This Annual Report serves to highlight and summarize accomplishments for 2015 and to illustrate growth in many areas due to the increasing institutional educational and research goals.

A Message from Fay Towell, Library Director / Archivist:



GREENVILLE
HEALTH SYSTEM



“As Greenville Health System continues to develop research interests with their Clinical University partners and other groups, a robust library with service-oriented staff is paramount to enhance this endeavor. The Health Sciences Library continues to grow electronic resources and databases so that most of this medical knowledge can be accessed by GHS staff from any location. It is exciting to be a part of providing information that furthers GHS’ mission to heal compassionately, teach innovatively, and improve constantly”.

Library Staff

The Library Staff is comprised of 6 master's level librarians and 2 Library Technical Assistants.

From left to right, front row:

Teresa Head, Library Assistant

Joye Edmonds, Librarian

Debbie Douglas, Senior Library Assistant

Peggy Zabel, Librarian

From left to right, back row:

Loretta Westcott, Librarian

Leslie Robinson, Librarian

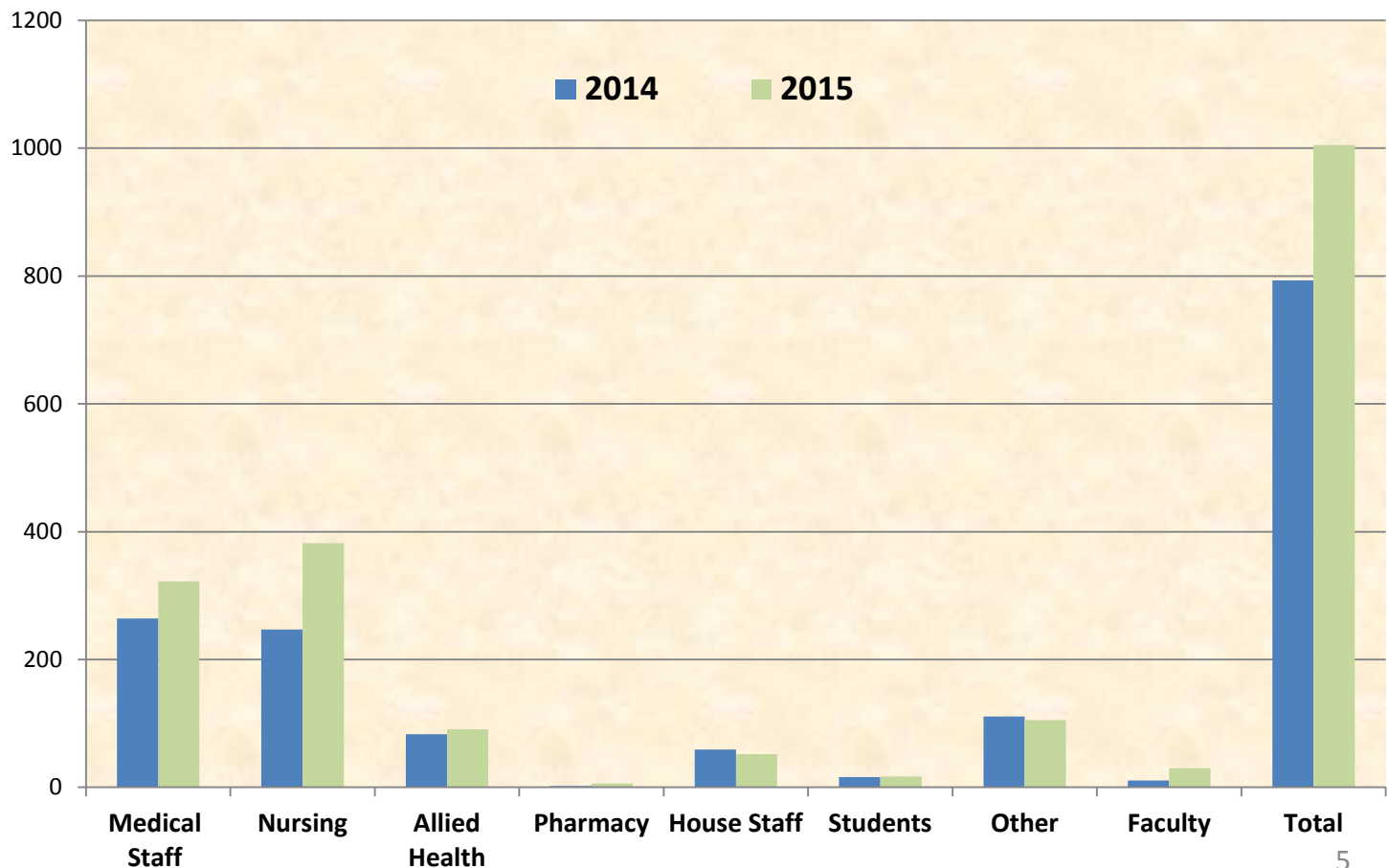
Fay Towell, Library Director/Archivist

Deanna Handley, Librarian



Search Requests

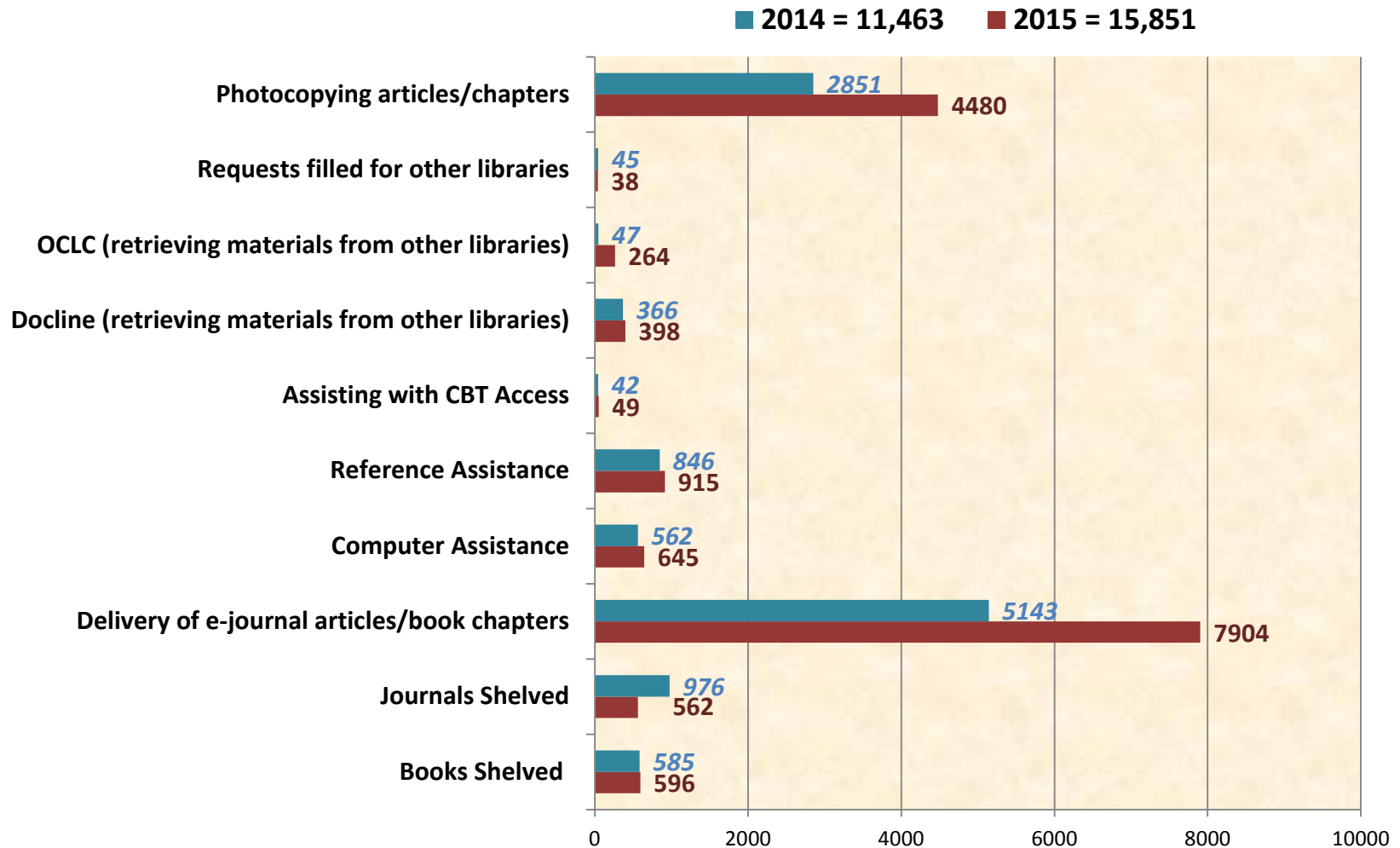
Librarians, trained at the Master's level, conduct professionally mediated searches to answer clinical questions, help staff keep abreast of the latest changes in the practice of medicine, and support educational advancement. Comprehensive, multi-database searches assist researchers and potential authors in their quest to perform a thorough survey of published literature on a subject.



Search requests grew by 26.7% from 2014 to 2015

Staff Assistance

Library Staff provides assistance to patrons in a variety of ways, including maintaining an organized collection of materials, answering questions that arise at the point of care, and gathering appropriate articles as requested. The chart below delineates some of the ways the library staff help GHS staff, faculty, and students with their information needs.



Improvements in the Library Space

For many, the Library offers an environment conducive to quiet learning and research. It is a place where one can linger over a reference book, complete the annual CBT requirement, review a patient record, or receive library assistance.



GMH Library computer monitors were upgraded by Information Services to accommodate EPIC viewing. A dozen older local printers were replaced with 3 new high-speed, networked printers.



Three new USC desktop computers and 2 new GHS networked laptops were added to the Library Commons for user convenience. Additionally, laptops, bookstands, and headphones were made available for checkout.

Library E-Additions

ACCESS Emergency Medicine_®

Meeting the Immediate Needs of the ED

This comprehensive online emergency medicine resource provides quick diagnosis and treatment answers for a broad spectrum of complaints encountered in the ED, ranging from neurologic and pediatric emergencies, to poisoning and trauma --specifically designed for optimized viewing on any device.

ACCESS Surgery

Where Top Surgeons Begin™

A comprehensive online resource connects instantly to leading surgical references, unique collections of surgical videos, and interactive board reviews with ABSITE-style self-assessment questions designed to help residents and clerks prepare for exams.



With the help and support of the Graduate Medical Education Committee and the Library Committee, the Library trialed BoardVitals in 2015 and subsequently began a subscription January 1, 2016. BoardVitals is a comprehensive board review tool that benefits practicing physicians, residents, and medical students by offering questions and providing detailed explanations for right and wrong answers.

TDNet

simply better

TDNet Discover is a new, more robust platform for locating journal articles and books. Customizable features allow for saving searches, creating Tables of Content alerts, and bookmarking favorites.



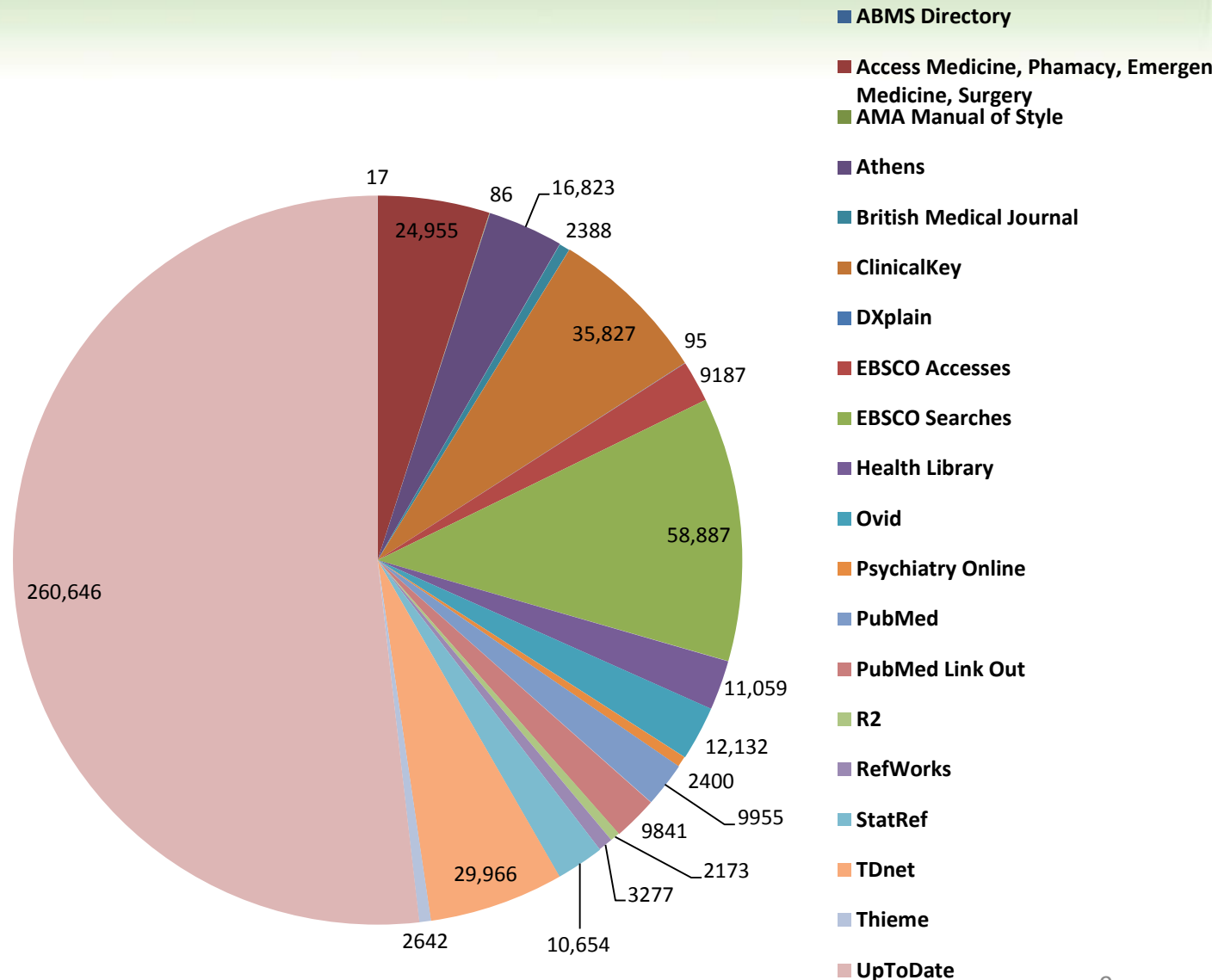
New ebook subscriptions were added to the above collections.

Electronic Usage

Highlights

- ❖ **UpToDate** again led the way with the with more than a quarter million searches.
- ❖ **EBSCO Research Databases** and **PubMed** captured over 75,000 accesses and searches.
- ❖ **ClinicalKey** garnered more than 35,000 uses.
- ❖ **TDNet** facilitated journal access with nearly 30,000 searches.

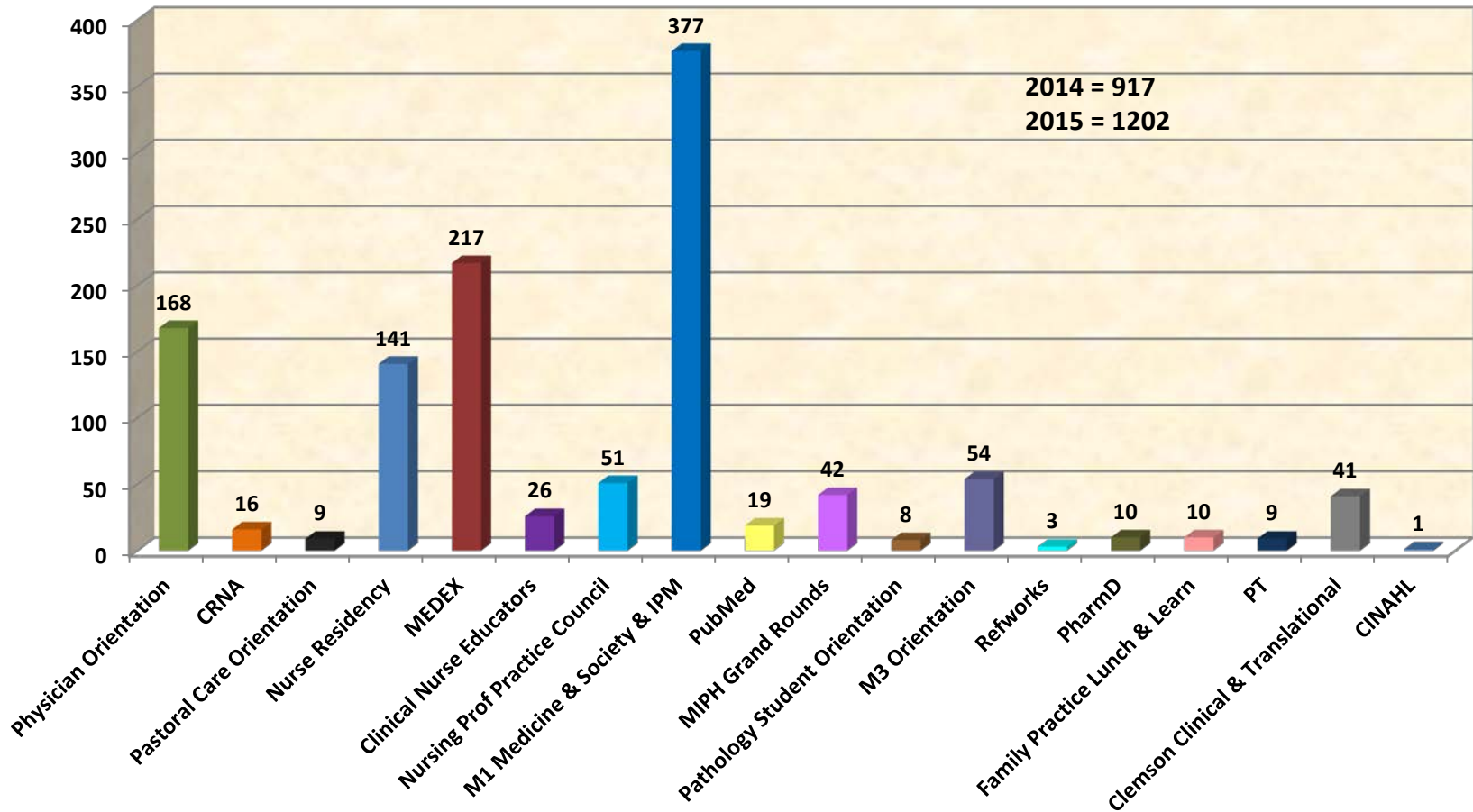
Total uses: 503,010



Learning Groups for 2015 (1202 participants)



Teaching health providers and students the skills necessary to efficiently and effectively search the literature for needed information is an important goal for the library. Requests for presentations and class activities grew from the previous year by 31%.



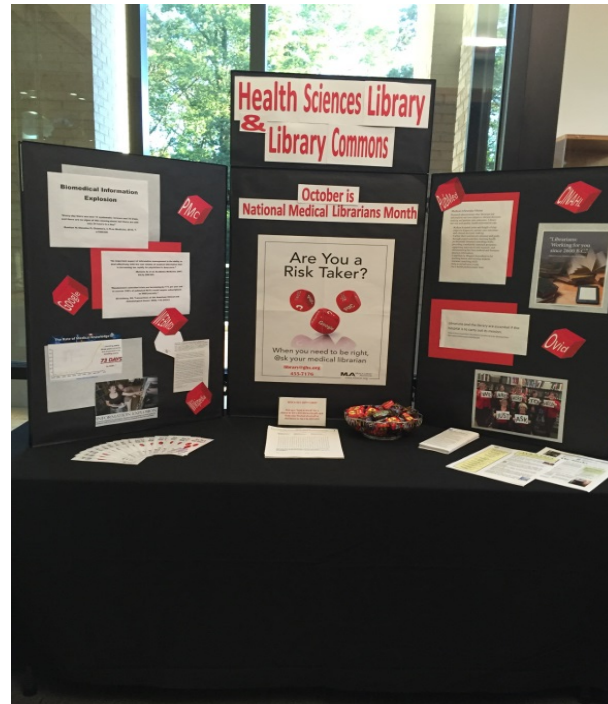
Special Educational Opportunities Enhance Learning



August 2015: Library Speed Rounds (see next page)

October 2015: National Medical Librarians Month display in the employee pavilion and in the medical school included educational handouts and a puzzle

December 2015: BAGELS (Books and Great Electronic Library Sources) event offered coffee, bagels, and educational materials to update the medical students resource list



Library Speed Rounds

Library speed rounds offered first year medical students a new way to learn about library services and resources. After a brief introduction to the library, groups of students switched rooms every 7 minutes to learn about a different library resource. Punch cards validated attendance and once filled, the student received a Dr. Bear stress ball and boxed lunch. Ninety students participated in the event, so it was well-attended and well-received.



Poster Presentations

Medical Education Research Day Poster Presentation:
Saving You Time So You Can Save Lives



Peggy Zabel and Loretta Westcott presented a poster at the Southern Chapter of the Medical Library Association meeting: ***Speed Rounds: An Innovative Method for Introducing First Year Medical Students to Library Resources***

Librarians take part in Clinical & Translational Research Class



GHS has partnered with Clemson University's Department of Public Health Sciences to offer a Graduate Certificate Program in Clinical and Translational Research. The first course in this program, focuses on idea generation and transforming the idea into a working research proposal. As part of the curriculum, Medical Librarian Loretta Westcott offered 2 lectures on *Conducting Effective Literature Reviews*. As a follow-up assignment, students were required to schedule an appointment with a librarian, who conducted an interactive session to help students utilize and build on their search skills using the students own chosen topic.





New Library Website

The Library launched the new website on Plexus in January 2015. This redesigned website delivers an updated look, improved navigation, and expanded content. Searching for books, databases, and journals has never been easier and an intuitive interface provides meaningful results with fewer clicks. Medical Librarian Deanna Handley assumes the responsibility of maintaining the new website; keeping it current is a priority.



The screenshot displays the Health Sciences Library website. At the top, the title "Health Sciences Library" is centered, with the GHS logo to its right. A navigation bar below the title includes links for "News", "About Us", "Services", "E-Resources", "Ask A Librarian", and "Contact Us - library@ghs.org".

The main content area is divided into several sections:

- Images:** Two photographs showing the library's interior. The left image shows a study area with bookshelves and people working at computers. The right image shows a modern, bright lounge area with large windows and contemporary furniture.
- Library Staffed Hours:** A table listing hours for the Health Science Library and Library Commons.

Library Staffed Hours	
Health Science Library	
Monday - Thursday	8:00 - 6:00
Friday	8:00 - 5:00
Library Commons	
Monday - Friday	8:00 - 4:30
- Library News:** A list of recent news items with blue hyperlinks:
 - [LWW Health Library](#)
 - [New Print Books Added to the Library](#)
 - [New e-Books in the Library](#)
 - [Library Newsletter](#)
- Databases:** A row of buttons for "Databases", "E-Journals", "E-Books", "Catalog", and "PubMed".
- Browse by Title:** A grid of letters from A to Z, plus a "~ All" option.
- Announcements:** Three promotional boxes for "ACCESS Emergency Medicine", "ACCESS Surgery", and "BoardVitals from STATRef".
 - ACCESS Emergency Medicine:** "Meeting the Immediate Needs of the ED. Access Emergency Medicine from McGraw-Hill Medical helps meet the immediate needs of the emergency department (ED) - all in one place. [Read more...]"
 - ACCESS Surgery:** "Where Top Surgeons Begin. NEW from McGraw-Hill Medical, Access Surgery introduces a whole new dimension to surgical education and clinical practice, providing quick diagnosis and..."
 - BoardVitals from STATRef:** "The premier healthcare e-source. The GHS Library now has access to BoardVitals, a new effective, high-quality and..."

Conclusion

In a word, this report depicts “growth.” Library staff conducted more searches, taught more students, and delivered more content than ever before. Examples include:

- Search requests increased by **26%**
- Student instruction increased by **31%**
- Staff assistance increased by **44%**
- Electronic resource utilization increased by **12%**

Growth of the System and a goal of academic achievement have increased Library utilization. With more physician practices, the addition of Oconee and Laurens Hospitals, increased numbers of medical students, and the nursing degree requirement, the Library anticipates continued growth in resources, requests for library instruction, and service utilization over the next several years.

A look toward the future:

The Library’s strategic plans include expanding available electronic resources and additional enhancements to Library websites. It is also expected that as electronic resources become more sophisticated, librarians will continue to educate users on the most efficient way to utilize those resources.

The GHS Health Sciences Library is proud to host the Annual Meeting of the Southern Chapter of the Medical Library Association this October 2nd-6th, 2016 at the Westin Poinsett hotel in downtown Greenville. The staff are excited to showcase GHS and the beautiful surroundings of Greenville.

ATTACHMENT 2

USC School of Medicine Greenville

Institutional Setting

The Institutional Setting section of the LCME document articulates the mission, vision and guiding principles for the USCSOM Greenville. The *vision* is to transform health care for the benefit of the people and communities we serve; and the *mission* is improve the health of the people and diverse communities we serve by educating health professionals who will care compassionately, teach innovatively, and improve constantly. The USCSOM Greenville has resources via the GHS delivery system that strengthen the institutional support for faculty, students and administrators.

Specific institutional requirements that must be addressed are identified in the following sections:

IS-13. A medical education program must be conducted in an *environment* that fosters the intellectual challenge and spirit of inquiry appropriate to a community of scholars.

IS-14. An institution that offers a medical education program should make available sufficient opportunities for medical students to participate in *research and other scholarly activities* of its faculty and encourage and support medical student participation.

IS-16. An institution that offers a medical education program must have policies and practices to achieve appropriate *diversity* among its students, faculty, staff, and other members of its academic community, and must engage in ongoing, systematic, and focused efforts to attract and retain students, faculty, staff, and others from demographically diverse backgrounds.

The following GHS entities are in place to respond to these requirements and aligned with USCSOM Greenville guiding principles.

Ramage Center for Teaching and Learning (RCTL)

Guiding Principle: USCSOM Greenville will be integrated with all aspects of the *GHS delivery system*.

Guiding Principle: USCSOM Greenville will utilize *educational resources*, infrastructure and technology in a fiscally responsible manner, incorporating external resources in the education of health care students when advantageous.

USCSOM Greenville's graduates' learning experiences are integrated into the GHS delivery system. This health care environment equips students to address contemporary issues that challenge clinical care delivery such as variation in quality, inadequate access, and uncontrolled cost. Specific guiding principles listed above articulate the importance of aligning GHS via the *Ramage Center for Teaching and Learning* as a resource that integrates USCSOM Greenville with the delivery system.

Institute for Advancement of Health Care (IAHC)

Guiding Principle: USCSOM Greenville will graduate physicians who understand and participate in *research* that compares the relative clinical effectiveness and outcomes of various treatments.

The *IAHC* is a key research entity for the USCSOM Greenville with a vision for "innovative research, training, and dissemination of discoveries promoting health and transforming health care delivery" and a mission "to investigate patient-centered models of care; compare effectiveness of interventions and inform policy; study methods to build workforce capacity." IAHC Scholars will serve as research mentors for students with an emphasis on health services research.

Medical Experience (MedEx) Academy

Guiding Principle: USCSOM Greenville supports development of a health care workforce that reflects future societal needs and the *diversity* of the communities served.

Guiding Principle: USCSOM Greenville will educate physicians to be champions for patient safety, standardization, evidenced based care, and quality; responsible to the medical needs of their community; sensitive to the societal cost of medicine; activists for the education of the *future health care workforce*; and practitioners that care for all patients regardless of race, social stature, or ability to pay.

The *MedEx Academy* is a substantial and growing pipeline to the USCSOM Greenville. While initial engagement has begun with numerous colleges/universities, plans are underway to establish strategic partnerships with historically black colleges and universities (HBCUs) in South Carolina and surrounding states. These partnerships will seek to cultivate interest in medical school among students at HBCUs, as well as offer guidance and assistance to HBCUs in preparing students for medical school. Initial discussions are underway with Furman University and Claflin University. Plans are to explore this model with USC Upstate and USC Regional Campuses.

ATTACHMENT 3

GHS				
Name	Email address	Department	Area of Research Expertise	Brief Description of Scholarly Interests
Best, Robert	rbest@ghs.org	Biomedical Sciences/ Dean's Administration	Genetics, faculty governance, social/ethical/legal issues in emerging technologies, genetic counseling, screening	Healthcare transformation through medical education, genetics and genomics in medicine, philosophy and practice of medical laboratory diagnosis and communication of results, prevention/characterization of neural tube defects
Bethel, Susan	sbethel@ghs.org	Nursing Clinical Programs & Research	Nursing Practice	Use of research and evidence to improve patient outcomes affecting quality and safety; effectiveness of technology on nursing practice at the bedside; innovative methods for providing education for nurses and collaborative partners
Blackhurst, Dawn	dblackhurst@ghs.org	Quality Management	Epidemiology and biostatistics	Application of epidemiologic and biostatistical methods to the evaluation of programs and interventions aimed at improving clinical outcomes, patient safety, equity and cost-effectiveness of healthcare
Cass, Anna	acass@ghs.org	Quality Management	Epidemiology	Investigating questions raised in the course of clinical practice at GHS in collaboration with clinicians across specialty and discipline, partnered with my background in epidemiology as a field that seeks to understand the distribution and determinants of health conditions through systematic inquiry, has shaped my current scholarly interests. The opportunity to investigate research questions in a variety of disciplines and to teach and guide individuals through the research process has given me an appreciation for the varying types of research conducted within this system and has been personally rewarding. Additionally, conducting research out of the Quality Management department of the hospital system has focused my research perspective on seeking to answer questions regarding how to maximize the quality of healthcare delivery. As I work to develop my personal research agenda, I find myself drawn toward questions related to both clinical and social determinants of health as well as the investigation of ways that we can better provide health services for our population. At the same time, I am interested in addressing the challenge of adapting rigorous epidemiologic methods to those situations that do not fit the traditional model those methods were developed to address.
Coltman, Kinneil	kcoltman@ghs.org	Diversity	Health Equity, Health Disparities, Cultural Competence in Clinical Care, Diversity in Health Services Administration	Health Equity, Health Disparities, Cultural Competence in Clinical Care, Diversity in Health Services Administration
Crespo, Lynn	lcrespo@ghs.org	Medicine	Medical Education	Enhancing learning outcomes through innovative teaching and learning pedagogies, including use of technology, early clinical experiences, and interprofessional students teams. A primary focus is the importance of defining objectives, identifying cognitive level of learning, and determining outcome measures as criteria for selecting learning modality.
Higdon, Lee	lhigdon@ghs.org	OB/GYN UMG	Reproductive endocrinology/ infertility; also research development/study design/statistics	Improvement in cell culturing to benefit mammalian embryo production, education delivery systems, workforce development concepts
Hudson, Matthew	mfhudson@ghs.org	Academics	Health care system aptitude for Comparative Effectiveness Research (CER), Medical Decision Making, Behavioral Science	Identifying resources and novel methods facilitating CER, racial disparities research, chronic care improvement, enhancing shared decision making between patients and health care teams
Hughes, Mary	mhughes@ghs.org	Medicine - Division of Neurology	Multiple Sclerosis	Have been involved in a range of projects from pharmaceutical trials to investigator initiated trials in genetics, depression, wellness, patients centered care
Kelly, Desmond	dkelly@ghs.org	Pediatrics - Children's Hospital, Division of Developmental-Behavioral Pediatrics	Health Service Delivery	Earlier in my career I carried out descriptive research on attention and learning problems in children with hearing impairment. More recently I have published on survey results regarding workforce needs in developmental-behavioral pediatrics and been funded (Commonwealth Fund) to study a model of "Midlevel developmental-behavioral pediatrics assessment" and outcomes of a program to promote early identification of developmental delays (PRIDE - Duke Endowment).

Pham, Hiep	hpham@ghs.org	Division of Geriatrics and Palliative Medicine	Innovative interdisciplinary healthcare delivery and educational models based on intensive care integration and coordination.	Implementing and demonstrating efficiency and effectiveness of Holistic and Patient-Centered Interdisciplinary Team Based Care Models to targeted population of frail and vulnerable elders.
Picklesimer, Amy	apicklesimer@ghs.org	Obstetrics and Gynecology, Division of Maternal-Fetal Medicine	Prenatal care, preterm birth, breastfeeding, racial disparities in birth outcomes, access to care	My primary research focus relates to innovative models of prenatal care, specifically CenteringPregnancy group prenatal care. In our experience, group care has shown promise in reducing rates of prematurity, increasing rates of breastfeeding, improving patient education and satisfaction with care. We are also evaluating its role in medical student and resident education.
Reeves, Cara	creeves@ghs.org	Surgery/Pediatrics	Clinical/Pediatric Psychology	Prevention and treatment of pediatric obesity; factors associated with treatment compliance; psychological factors associated with obesity.
Russ-Sellers, Rebecca	rruss-sellers2@ghs.org	Office of Research Support/Department of Total Health	Health Policy	My research interests are aligned with the examination of models of care both as an influence and a response to system, state, and national health policy initiatives. Particularly, I am interested in exploring the influence of Total Health initiatives on access, cost, and improved clinical outcomes within a macro policy context.
Sease, Kerry	ksease@ghs.org	Pediatrics	Pediatric Obesity	Development of comprehensive treatment for pediatric obesity
Sinopoli, Angelo	asinopoli@ghs.org	Internal Medicine/Clinical Integration	Methods	The proposed support would fund a co-investigation with David Neyens, PhD, MPH (Clemson) of a training program to implement the use of process control charts in targeted GHS departments. Use of this methodological approach will facilitate alignment of clinical activities with the Triple Aim.
Tappert, Tod	ttappert@ghs.org	Corporate Office	Leadership Development and Educational Training	I am interested in looking at the impact of developing Conscious Leadership principles and practices among leaders and comparing with organizational outcome/performance measures as well as cooking for connections between Conscious Leadership and other validate leadership measurement tools.
Tobin, Brian	btobin@ghs.org	Biomedical Sciences	Diabetes, cardiovascular disease, insulin secretion, islet transplantation	1) Interdisciplinary research in nutrition science, nutritional determinants of human pancreatic islets of Langerhans and the interaction of endocrine, metabolic, and immunologic systems during pancreatic stress. 2) Interdisciplinary medical education programs focused upon the prevention and management of nutritionally-related metabolic diseases, such as diabetes, obesity, and cardiovascular disease.
Trilk, Jennifer	jtrilk@ghs.org	Biomedical Sciences		Physical activity and healthy lifestyle interventions for non-communicable diseases in pediatrics, adults, and geriatrics; assessing physician self-efficacy in prescribing exercise.

USC

<u>Name</u>	<u>Email address</u>	<u>Department</u>	<u>Area of Research Expertise</u>	<u>Brief Description of Scholarly Interests</u>
Adams, Swann	swann.adams@sc.edu	Epidemiology & Biostatistics and the College of Nursing (joint faculty appt)	Cancer epidemiology; health disparities; mammography; breast cancer	The vast majority of my work has focused on mammography and breast cancer disparities experienced by African American women. Specific areas of focus have included abnormal mammography follow-up time, breast cancer survival, and healthy lifestyle interventions.
Bennett, Charles	bennettc@sccp.sc.edu	Clinical Pharmacy and Outcomes Sciences		Identification of new ADRs; Human factors as a cause of medication errors.
Billings, Deborah	billindl@mailbox.sc.edu	Health Promotion, Education and Behavior	Maternal and women's health, sexual and reproductive health	Qualitative and quantitative research that examines innovative ways of delivering care, including prenatal care and overall sexual and reproductive health care. The impact of interventions that foster social support on women's health and maternal-child health.

Bookstaver, Brandon	bookstaver@sccp.sc.edu	Clinical Pharmacy and Outcomes Sciences	Infectious diseases; pharmacokinetics	Research areas focus primarily in the clinical arena to include hospital-acquired infections, specifically Clostridium difficile infections and central line associated bloodstream infections; antimicrobial lock therapy; antimicrobial dosing and clinical outcomes in obese adults and children; and antimicrobial stewardship outcomes. In addition, currently serving as PI of a statewide collaborative to develop a cumulative 5-year antibiogram.
Browne, Teri	browne@sc.edu	College of Social Work	Psychosocial barrier to health outcomes; health disparity	Psychosocial barrier to health outcomes; health disparity; transdisciplinary health teams; kidney disease; kidney transplant disparity; oral medication self management; chronic illness; quality of life; racialized context of health disparities research
Chen, Brian	bchen@mailbox.sc.edu	Health Service Policy and Management	Health economics, health policy, health law, health management	I am broadly interested in applying my econometric and legal analytical skills to translate empirical research findings in medicine to inform policy in chronic illnesses and pharmaceutical safety
Chou, Rita	richou@sc.edu	College of Social Work	Research methods (both quantitative and qualitative); Program and Practice Evaluation; Aging; Long-Term Care; Elder Support; Quality of Life; Older Workers	Health Disparities; Quality of Life; Psychological Well-Being of Older Adults; Elder Support; Caregiving; Older workers; Social Policy
Davis, Mark	markd@mailbox.sc.edu	Dept of Exercise Science, Arnold School of Public Health	Exercise Physiology/Immunology	Biological mechanisms of mental and physical fatigue, and the role of exercise in nutrition in prevention and treatment of infection and cancer.
Gillam, Pamela	gillamps@mailbox.sc.edu	Center for Health Services and Policy Research (CHSPR)	Quality improvement in Healthcare systems	Use of quality improvement methodologies to improve patient care. Relationship between organizational culture/change/readiness and use of QI methods. Interested in looking at use of QI to develop Accountable Care Organizations/Medical Homes.
Hale, Nathan	halen@mailbox.sc.edu	Health Service Policy and Management	Health services research, maternal and child health	Engaging in research focused on the organizational and management health care delivery systems and the impact on quality of care and outcomes among mothers and children.
Hock, Robert	roberth@sc.edu	College of Social Work	Autism Spectrum Disorders and Family Functioning	I am interested in developing and evaluating family system interventions for families who have members with an autism spectrum disorder. The focus of these interventions is to improve family adaptability as well as adherence to behavioral and medical interventions.
Pate, Russell	rpate@mailbox.sc.edu	Exercise Science	Physical activity and physical fitness in children	Exercise physiologist with interests in physical activity and physical fitness in children and the health implications of physical activity
Schulz, Richard	schulz@sccp.sc.edu	SC College of Pharmacy	Medication adherence, quality of life, pharmacoepidemiology	Examines how and why people take medicines, and tests interventions to improve adherence and outcomes
Sen, Souvik	souvik.sen@uscmed.sc.edu	Neurology	Stroke and Cardiovascular Epidemiology	1) Aortic arch atheroma and stroke; 2) Inflammation and stroke; 3) Stroke trials; 4) Alternative methods to test comparative effectiveness; 5) HIV and stroke
Turner-McGrievy, Brie	brie@sc.edu	Health Promotion, Education and Behavior	Nutrition, obesity, and chronic disease prevention and treatment through diet and physical activity	My current collaboration with GHS involves work with the Reproductive Endocrinology Department where we are exploring two different dietary approaches for managing PCOS and promoting weight loss among overweight women. Additionally, I have interests in using mobile technology to deliver health behavior interventions and exploring different diet approaches for diabetes and weight loss.
Wagner, Peggy	pwagner@ghs.org	Department of Family and Community Medicine, School of Medicine	Patient-centered care, health information technology, clinical practice change	Primary research interests include: innovations that improve patient-centered care; patient safety and quality, use of practice-based research networks for discovery and clinical practice redesign, elements of individual patient and physician behavior change, and health information technology innovations
Wu, Jun	wujun@sccp.sc.edu	College of Pharmacy	Health outcomes, medication adherence, pharmaceutical sciences	1) Develop patient-centered outcomes research relevant to medication use in disadvantaged populations to improve pharmaceutical health services. 2) Evaluate medication use and associated health and economic outcomes using large claims database to provide evidence to healthcare professionals and policymakers. 3) Develop novel drug delivery system using nanotechnology in chemotherapy to reduce adverse drug events and to improve drug effectiveness and patient quality of life.

CLEMSON

Name	Email address	Department	Area of Research Expertise	Brief Description of Scholarly Interests
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Alley, Thomas	alley@clemsun.edu	Psychology	Psychology and anthropology of food and eating	Food choice and avoidance; obesity; food neophobia
Britt, Thomas	twbritt@clemsun.edu	Psychology	Organizational stress, mental health, and treatment seeking	Individual and organizational factors that promote employee resilience under stress, the determinants of whether individuals seek treatment for mental health problems before the problems require emergency care, recognizing mental health symptoms in combat veterans.
Brooks, Johnell	jobrook@clemsun.edu	Campbell Graduate Engineering Program	Human Factors - Transportation & Aging	Enable population to drive as long as safely possible; development and integration of new clinical tools to aid mobility and transportation
Chen, Liwei	liweic@clemsun.edu	Public Health Sciences	Study design (cross-sectional study, cohort study and clinical trial) and data analysis (longitudinal analysis, survival analysis, complex survey design analysis, factor analysis, systematic review and meta-analysis, etc.	My primary research interests lie in nutritional epidemiology and chronic diseases prevention, including obesity, diabetes, hypertension, and cardiovascular diseases. My specific interests are: - Dietary approaches as a means to prevent and manage chronic diseases - Optimal strategies for identification of individuals at high risk of diabetes and cardiovascular diseases - Systematic reviews and meta-analysis for evidence-based medicine - Comparative Effectiveness Research (CER) - Electronic Health Information/Electronic Medical Records (EHI/EMR)
Daily, Shaundra	sdaily@clemsun.edu	School of Computing	Affective (Emotion recognizing) Computing; empathy development; K-12 education outreach	Understanding physiological response to interventions; virtual worlds; project-based learning environments; physician-patient relationships
Desjardins, John	jdesjar@clemsun.edu	Bioengineering	Orthopaedic Biomechanics, Rehabilitation, Biomaterials	Dr. Desjardins received his Ph.D. in Bioengineering from Clemson University in December 2006, and he has worked for over 20 years as a biomechanical research engineer. He has co-authored over 150 peer-reviewed conference or journal publications in the areas of biomechanics, biomaterials tribology, engineering education and mechanical testing, and he directs the Laboratory of Orthopaedics Design and Engineering on the main campus of Clemson University. He currently leads or is a co-PI on multi-disciplinary research teams funded through NASA, DoT, NSF, the Gates Foundation, biomedical industry and other regional non-profit foundations. His research interests lie in Orthopaedic Biomechanics, physical rehabilitation and sports engineering, total joint biomaterials, biomedical device design and total joint biomechanics.
Duggan, Lisa	duggan@clemsun.edu	School of Nursing	Women's Health, Obstetrics/Gynecology	I have been involved in research with GHS for several years both with nursing students and physicians. My areas of interest include: women's health, vulnerable populations, birth outcomes, needs and care; prenatal care, maternal transitions and adaptations both physical and psychosocial; infant health and bonding; and policy related to maternal/child health. I have just begun my career as a researcher, recently graduating from the University of South Carolina with a PhD in Nursing. I also obtain a Graduate Certificate in Women's Studies while pursuing my PhD. I have presented poster and podium presentations locally and have recently been invited to present at the International Congress of Women's Health in Bangkok Thailand in November of this year. My presentation will be concerning my recently completed research at the OB Center at GHS concerning maternal transitions in vulnerable populations.
Dye, Cheryl	tc Cheryl@clemsun.edu	Public Health Sciences	Chronic disease self-management and health promotion of older adults	Use of health coaches to promote chronic disease self-management and lifestyle changes.

Eggert, Julia	jaegger@clemsn.edu	School of Nursing	Geriatrics; Genetics; Oncology	Impact of simple early life experience interventions on cognition in the elderly; Engagement in LTC; Healthcare genetics (HCG) as it relates to healthcare provider and patient literacy; Healthcare genetics molecular translation to the bedside/environment/prevention.
Frendendall, Lawrence	flawren@clemsn.edu	Management	Operations Management / Process Flows	Scheduling, inter-departmental coordination, implementing quality improvement, lean operations, using technology to improve quality and process flows in clinical and non-clinical departments.
Granberg, Ellen	granber@clemsn.edu	Sociology & Anthropology	Obesity & Weight Loss; Mental Health	1) Social, self, and identity impacts of sustained weight loss; 2) Body image and self esteem among African American girls; 3) The impact of racial discrimination on health and mental health.
Haley-Zitlin, Vivian	vivianh@clemsn.edu	Food, Nutrition and Packaging Science		
Hoover, Adam	ahoover@clemsn.edu	Electrical & Computer Engineering	Tracking, embedded systems	Obesity; automated tools for measuring energy intake
King, Bruce	bking2@clemsn.edu	New per Windsor 2/7/13		
Kowalski, Robin	rkowals@clemsn.edu	Psychology	Bullying/Cyberbullying	Previously I conducted research in the area of organ donation as well as cervical cancer screening. Currently, I do research on bully/cyberbullying among youth and adults. This research also looks at prevention and intervention efforts. Finally, I conduct research in the area of sports psychology.
Kwartowitz, David	robotoc@clemsn.edu	Bioengineering	Medical Imaging, Image-processing, and image-guided procedures	My current interests include the development of new medical technologies and procedures using medical imaging as the basis for navigation, visualization, and diagnostics. Within this work, we are exploring ways of reducing the need for ionizing radiation while maintaing minimal collateral damage to health tissues, through computing and image processing.
Mayo, Rachel	rmayo@clemsn.edu	Public Health Sciences		
McCubbin, James	jmccubb@clemsn.edu	Psychology	Cardiovascular Disease, Hypertension, CHD, Diabetes	I am currently studying changes in CNS and autonomic function in the early stages of development of essential hypertension. I also study mechanisms of acute and chronic pain sensitivity.
Mroz, Tom	tmroz@clemsn.edu	Economics	Health and demographic economics; labor economics	Analysis of intervention programs and statistical analysis
Neyens, David	dnevns@clemsn.edu	Industrial Engineering	Patient Safety and Quality, Human Factors, Driver Safety	Assessing patient safety and quality improvement projects that lead to more effective and safer experiences for patients
Parker, Veronica	veronic@clemsn.edu	School of Nursing	Health disparities/inequities; obesity & obesity related illnesses; asset mapping; community-based and faith-based initiatives/interventions	My interests involve the conduct of cutting edge research focusing on chronic conditions and the dissemination of findings, thereof, that promote health in an effort to improve health care and health outcomes among populations and sub-populations of people. I have a particular interest in the reduction and ultimare elimination of ill health conditions that disproportionately plague a vairtesy of sub-groups of individuals in the state and in the nation.
Pilcher, June	jpilche@clemsn.edu	Psychology	stress, fatigue, sleep deprivation, sleep habits	My research examines the effects of stress and fatigue on performance, social functioning, health, and well-being. My sleep deprivation research simulates shiftwork and provides information on how persons perform while working at night. I'm interested in the effects of sleep habits and shiftwork in health-care settings and their effects on the health-care practitioner and the patients.
Porter, Marissa Shuffler	mshuffl@clemsn.edu	Psychology	Leadership and teamwork training and development	My research primarily focuses on leadership and teamwork needs for complex, high stress environments (e.g. medicine, NASA, military). This involves identifying challenges as well as designing, implementing, and evaluating training and development programs for leaders and teams. Other topics of interest include collective leadership, multiteam systems, multicultural teams, and virtual teams.
Pury, Cynthia	cpury@clemsn.edu	Psychology	Positive Psychology, Emotions, Subjective Experience	I am developing an empirically-based psychological theory of courage and using it to develop assessments and interventions. I am also developing taxonomy of situational factors that influence behavior in a wide range of settings; we envision this as a complement to the Big 5 model of personality.

Rodriguez, Joy	rodrig7@clemsn.edu	Industrial Engineering	Human Factors (i.e., Macroergonomics) in Healthcare	I study the interactions clinicians have with each other and with their patients kept in mind the organizational and environmental context in which they work in. These interactions include, but are not limited to, communication, problem solving, teamwork, decision making, etc. I also study how these interactions are affected (in both positive and negative ways) by Health Information Technologies. The end goal is to redesign the system to make clinicians work easier and more efficient, all while increasing the quality of patient care and patient and worker safety.
Sherrill, Windsor	wsherri@clemsn.edu	Public Health Sciences	Health services evaluation, medical education, health care finance	health delivery system structure and innovation, medical education and physician executive education, cultural competence and impact on health disparities
Shi, Lu	lus@clemsn.edu	Public Health Sciences	Behavioral economics, health communication, quantitative methods	Long-term model-based evaluation of health intervention for a given population; Modeling population health trends and individual health behavior, especially interested in the state of human mind when a health-related decision is made.
Smith, Kelly	kcs@clemsn.edu	Philosophy & Religion	Bioethics, Philosophy of Medicine	Ethics education and assessment, empirical studies of ethical reasoning
Taaffe, Kevin	taaffe@clemsn.edu	Industrial Engineering	Patient flow, OR capacity planning, scheduling, staffing, data-driven decision making	I have been conducting health care-related research to improve the ability of a health care facility to provide quality care, paying special attention to the logistics of enabling staff to accomplish their tasks with minimal delays. I have also investigated the use of engineering management intervention tools to enhance the communication and coordination I have been conducting health care-related research to improve the ability of a health care facility to provide quality care, paying special attention to the logistics of enabling staff to accomplish their tasks with minimal delays. I have also investigated the use of engineering management intervention tools to enhance the communication and coordination of medical staff by understanding the impact of various actions that cause ripple effects in the system and lead to patient and surgeon delays. Please see the Working Papers section of my CV for the pipeline of current health care-related research contributions.
Truong, Khoa	ktruong@clemsn.edu	Public Health Sciences	Statistics, modeling, cost-effectiveness analysis, economic impact evaluation, and research design	Healthcare delivery systems, treatment modalities, healthcare costs and benefits, preventive healthcare, and health policies
Van Puymbroeck, Mariake	mvp@clemsn.edu	Parks, Recreation & Tourism Management	Complementary and Alternative Medicine Interventions, Rehabilitation, Neurology, Geriatrics	I am interested in the therapeutic use of yoga to improve functional outcomes and well-being in a variety of populations.
Whitcomb, John	jwhitco@clemsn.edu	School of Nursing	Critical Care, Resuscitative Outcomes, Ethics, Military Nursing, Leadership	I support the learning, knowledge, and professional development of nurses committed to making a difference in health world wide and advance quality nursing education that prepares the nursing workforce to meet the needs of diverse populations in an ever changing healthcare environment. I have demonstrated this as evidence by publications in scholarly journals such as Nursing Research, Advances in Nursing Science and Critical Care Nursing Clinics of North America. I have presented locally, nationally and internationally in such places as Belfast Ireland, Yokosuka Japan and Montreal Canada. My commitment to lifelong learning has led to many opportunities where I have been able to make a difference for nursing worldwide. I am a Fellow of Critical Care Medicine (FCCM) becoming the 3rd nurse in South Caroline to hold this distinction.
Zinzow, Heidi	hzinzow@clemsn.edu	Psychology	trauma-related mental and physical health outcomes: risk factors, PTSD, substance use, marginalized populations, military, clinical interventions, health service-seeking	I would like to collaborate on projects that involve identifying and connecting trauma victims with needed mental health and medical services. I would also be interested in developing and evaluating interdisciplinary interventions that allow medical providers to identify and address trauma-related mental health needs. Trauma victims are often more likely to seek medical care than mental health treatment; therefore, medical clinics represent important points of entry into the healthcare system. Furthermore, trauma victims frequently suffer comorbid medical and psychiatric diagnoses and would benefit from improvements in interdisciplinary care. I am particularly interested in research that focuses on racial/ethnic minorities, women, sexual assault victims, and individuals who have lost a loved one to homicide.

Principal Investigator	Research Team Members	Project Title	Amount
Thomas Oliver, MD	Jeremy Mercuri, PhD	A Prospective Randomized Comparative Parallel Study of Amniotic Membrane Wound Graft in the Management of Venous Stasis Ulcers	\$20,000.00
Mark O'Rourke, MD	Sara Robb, PhD; Michael Wirth, PhD; James Hebert, ScD; Matthew Hudson, PhD	Mindfulness Intervention to Improve Symptomology Among Cancer Survivors: Focus on Sleep and Stress Improvement	\$19,891.00
Megan Shellinger, DO, MS	Lingling Zhang, PhD; Liwei Chen, MD, PhD; Sarah Covington-Kolb, MSPH, MSW	A Novel Group Prenatal Care Model for Pregnant Women with Diabetes and/or Obesity: A Pilot Study	\$19,801.00
Yanzhang Wei, PhD	Jeff Edenfield, MD	Immune Reactivation and Apoptosis Induction in Breast Cancer w/ Bifusional Fusion Proteins Using Nanotechnology	\$ 20,000.00
Renee LeClair, PhD	Gina Franco, MSN, ANP-C; Mark O'Rourke, MD	Evaluating the Effects of Acupuncture in the Treatment of Taxane Induced Peripheral Neuropathy (TIPN)	\$20,000.00

ATTACHMENT 4



GREENVILLE
HEALTH SYSTEM
Research Development
Corporation

ITOR

Institute for Translational Oncology Research

Greenville Health System Clinical University Research Cluster

FEBRUARY 2016 UPDATE

Executive Update – 5 Major ITOR Pillars:

PILLAR 1-CLINICAL RESEARCH UNIT

- **Background:** With over 35 active drug trials underway at any given time, ITOR's nationally prominent and self-sustaining phase I clinical research unit has served as a top site for multiple pharmaceutical partners to develop leading-edge cancer drugs since 2004.
- Recent and current trials – *involving over 50 pharma and biomedical companies over the past decade* – include Solid Tumor, Bladder, Breast, Colon, GI, Leukemia, Lung, Lymphoma, Melanoma, Multiple Myeloma, Myelodysplasia, Ovarian, Pancreas, Prostate, and Renal cancers.
- Continued growth, new pharma partners, and increasing enrollment of patients is anticipated in FY 2016.

PILLAR 2-BIOREPOSITORY

- **Background:** With 4 full-time employees and a recently updated universal consent in place for all patients of GHS to have the option of donating excess tissue for research, ITOR's rapidly growing biorepository continues to make significant strides. It is a critical component of the GHS Clinical University's research infrastructure that helps attract pharmaceutical and biotechnology companies interested in developing the next generation of cancer therapies.
- Over 12,000 samples are now maintained within the biorepository with hundreds of additional tissue samples collected over the past year with rigorous guidelines for processing and clinically annotating frozen tissue, fresh tissue, and peripheral blood – including flash freezing in liquid nitrogen within 15 minutes of harvest to maximize cell viability for basic science research.
- The biospecimen tracking and management software packages, Freezerworks and Transmed continue to be utilized with greater effectiveness and efficiency.

- Key Update: A newly commercialized component of the Biorepository via the Greenville Health RDC (as of February 2016) is allowing de-identified, annotated clinical data to support a wider array of important research efforts with targeted collaborators around the globe.

PILLAR 3-CLINICAL GENOMICS CENTER

- Background: The Selah Clinical Genomics Center at ITOR represents the first advanced genetic test developed, validated, and employed in a clinical setting in South Carolina to empower oncologists to tailor specific treatment plans based on the particular molecular profile of each patient's cancer.
- A unique multiplex biomarker panel trademarked as *PrecisionPath* – which addresses the paradigm-shifting redefinition of the classification of cancer – has been collaboratively developed by Selah with ongoing clinical guidance from GHS oncologists, and direct support from the Greenville Health RDC. The molecular panel assay is currently being utilized at GHS, with onsite molecular profiling available to GHS cancer patients, and is built on Life Technologies' new Ion Torrent Personal Genome Machine. To date, *PrecisionPath* has been performed on six common cancers: non-small cell lung cancer, breast cancer, colon cancer, ovarian cancer, pancreatic cancer and melanoma.
- Key Update: With direct support from the RDC and ITOR clinicians, PrecisionPath™ received approval from BCBS of South Carolina for reimbursement, which may be the first molecular panel with confirmed reimbursement by a payer in the country. The reimbursement strategy will be fully implemented at GHS in the first half of 2016, with expansion to other providers shortly thereafter.

PILLAR 4-INNOVATION ZONE

- Background: The 25,000 sq ft ITOR Innovation Zone laboratory/office facility represents a unique physical convergence of clinicians, industry and academic researchers – and is fostering multiple collaborative research initiatives, development of new diagnostic tools for cancer, and the early development of new cancer drugs.
- The Innovation Zone provides a home to a growing roster of private sector research collaborators (including Selah Genomics, KIYATEC, NUBAD, and Mannan Pharmaceuticals), GHS physician researchers, and faculty researchers from the University of South Carolina School of Medicine-Greenville and Clemson University. Utilization of the high demand space is approaching 90%+ with additional research tenants currently under development – including active discussions with an internationally renowned genomics/diagnostics company that is considering a major presence at ITOR in 2016.
- Key Updates – Highlighted research and development projects that have been achieved with ITOR collaborators over the past year, include:
 - Selah Genomic's international commercial launch of PrecisionPath™, a unique multiplex biomarker panel targeting colon cancer - developed collaboratively with ITOR clinicians - backed by an executed revenue-sharing agreement with the RDC on behalf of GHS/ITOR.

- Kiyatec's \$1.5 million NCI contract to continue development of their predictive 3D breast cancer models.
- Commercial launch of new cardio assays representing additional revenue-sharing GHS-Selah license/collaboration agreements (implemented via the RDC) are being developed in early 2016 – including *SUDDinCode* (announced late January 2016), and *THROMBOinCode* (anticipated in the first half of 2016). The Clinical Genomics Center at ITOR is part of the infrastructure utilized for these Cardiology Department-driven initiatives.
- A new decision-support tool for colon cancer to help community oncologists determine if a colon cancer patient should be treated with chemotherapy or not, is being collaboratively developed between ITOR and multiple private sector partners, including Selah Genomics, DecisionQ, and Becton Dickinson.

PILLAR 5-RARE TUMOR CENTER

- Background: ITOR's 5th and newest pillar, the Rare Tumor Center, represents the first such center in the US dedicated exclusively to the research and treatment of rare cancers (which affect one in five cancer patients). Through the unique partnership between GHS, Foundation Medicine, and Selah Genomics, patients will gain access to sophisticated genomic testing that may help determine relevant treatment options or clinical trials based on their unique molecular profiles.
- A strategic alliance with Boston-based Foundation Medicine fueled an initial research initiative – as Foundation co-sponsored a major study at the Rare Tumor Center, which was additionally backed by a \$1 million dollar gift from local philanthropist, Jerry Dempsey.

ATTACHMENT 5

**ITOR MONTHLY TREND REPORT
FY15**

CRU Enrollment														
Trial Sponsor	FY14 Enrollment Total	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	FY15 Enrollment Total
Independent	53	4	4	7	3	2	4	9	5	6	7	2	3	56
USO	37	0	0	0	0	0	0	0	0	0	0	2	1	3
Total Enrollment	90	4	4	7	3	2	4	9	5	6	7	4	4	59

CRU Referrals														
Referral Source	FY14 Referral Total	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	FY15 Referral Total
ITOR MDs	85	6	5	1	1	4	8	1	4	8	5	2	6	51
GHS Oncologists	115	3	11	5	4	10	10	10	10	17	19	5	11	115
Outside GHS	49	0	0	1	1	2	3	0	0	6	3	2	3	21
Total Referrals	249	9	16	7	6	16	21	11	14	31	27	9	20	187

Rare Tumor Center Referrals															
Patients referred each mo.	FY14 Referral Total	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	FY15 Referral Total	Overall Totals
	25	4	5	2	4	12	4	5	4	4	1	2	0	47	72

Biorepository Projects																
Sponsor	Overall Volume thru FY14	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	FY15 Total Volume	Overall Totals	
Tissue Bank Data	950	39	27	141	27	49	118	83	79	101	193	76	138	1071	2021	
Caris Registry	152	0	1	0	0	0	0	0	0	0	0	0	0	1	153	
Foundation One Registry																
Follow-Ups	24	3	5	5	3	5	2	3	2	5	1	2	0	36	60	
TCGA Follow-Ups	17	6	5	0	3	2	0	0	0	0	0	1	0	17	34	
Total Enrollment	1143	48	38	146	33	56	120	86	81	106	194	79	138	1125	2268	

New Patient Surgeries Tissue Banked	602	30	43	18	42	35	21	32	28	19	22	26	28	344	946
New Patient Blood Banked	904	68	71	49	69	58	55	67	58	42	50	57	59	703	1607
DecisionQ Specimen Acquisition and Transfer	30	0	0	0	0	0	0	0	0	28	0	20	12 (Repeats)	48	78
PrecisionPath Specimen Acquisition and Transfer (This number includes Rare Tumor Patients)	179	0	20	10	50	10	20	0	10	17	20	0	10	167	346

ATTACHMENT 6



CUBEInC

Clemson University Bioengineering Innovation Campus

Greenville Health System Clinical University Research Cluster

FEBRUARY 2016 UPDATE

Executive Update:

- **Background:** Clemson University's 30,000 sq ft Bioengineering Innovation Campus (CUBEInC), located at GHS' Patewood Memorial Campus in Greenville, SC, is recognized as one of the GHS Clinical University's four formally defined research clusters. CUBEInC shares space adjacent to GHS orthopaedic surgeons, the GHS Institute for Vascular Health, and the Hawkins Foundation, and provides a unique platform for the training of a highly qualified biomedical workforce of the future – focused on the development of clinically-driven technology & treatment methods, and health system optimizations, practiced with an intent to assist clinicians for improved healthcare delivery.
- CUBEInC and Clemson University's Bioengineering Department fuel the most productive technology pipeline at GHS, with a wide array of leading-edge medical devices currently under development and being actively patented. This high performing tech transfer platform at GHS is catalyzed by ongoing research collaborations and co-inventions between Clemson researchers and GHS clinicians – including CU's senior design program, which generates and supports more than 20 Clemson-GHS innovation teams each year.
- Michael J. Gara has been CUBEInC's Director of Technology Development since 2013, bringing a wealth of experience to CUBEInC's mission of developing high-impact medical technologies and devices for disease management and the transfer of technologies from bench to bedside. Prior to his CUBEInC appointment, Mr. Gara was director at the Wallace H. Coulter Foundation, where he was involved in managing translational research programs in biomedical engineering at major universities across the US.
- Similar to GHS' Institute for Translational Oncology Research (ITOR), industry partners are invited to team-up with CUBEInC for the overarching purposes of education, innovation and development.
- **Key Update:** The most recently announced CUBEInC on-site private sector partner is BioD, which established a physical presence within the incubator space in 2015.

Numerous industry collaborators, such as SC TAO, have recently renewed their tenancy at CUBEInC.

Recent Achievements/Key Updates:

- *(August 2015 Announcement)* Kayla Gaine Wilson, Tyler Ovington, and Alex Devon developed Glucosense as part of a Creative Inquiry class with Clemson's Dr. Delphine Dean to improve health care in Tanzania. A low-cost method to test blood sugar, Glucosense became one of the US winners of the prestigious James Dyson Foundation competition – which provides awards to help engineers realize their project's full potential. Following this achievement, the company was re-branded as Accessible Diagnostics (AD). AD has secured key investors and is rapidly developing its business plan and market penetration strategy with the support of *Concepts to Companies*, citing their technology as one of the most important potential advancements in Diabetes management since the insulin pump.
- *(October 2015 Announcement)* New professorship awards were set up to help encourage collaboration between Clemson engineers who work on the cutting-edge of technology in tandem with GHS clinicians who can help ensure that research reflects patient needs. The awards are named for Jerry E. Dempsey and his late wife, Harriet. A bioengineer who is working to grow new arteries in a lab and an industrial engineer who is developing a health care app are the first winners of two new awards that strengthen research and innovation ties between Clemson University and Greenville Health System.

ATTACHMENT 7

CUBE INC (GHS/Clemson)

Name	Email address	Department	Area of Research Expertise	Brief Description of Scholarly Interests
Alexis, Frank	falexis@clemson.edu	Laboratory of Nanomedicine	Polymeric Nanoparticles, Targeting, Controlled Release	Biodegradable Polymers - Design and synthesize advanced polymers; Polymer-drug conjugates; High-throughput synthesis / Targeted Drug Delivery - Nanoparticle in the biological environment; Therapeutic applications; Imaging applications / Nanoparticles - Hybrid nanoparticles; multifunctional nanoparticles
Benson, Lisa	lbenson@clemson.edu	Engineering and Science Education	Student Motivation, Engineering Problem Solving, Biomechanics	Student Motivation - Retention, major, and learning; Engineering problem solving; Assessment methods / Active Learning - classroom activity design, Tablet PCs; First-year engineering / Human Motion - Design, Quantification, Assessment
Black, Jonathan	black.jonathan1@gmail.com	A Founder of Our Field	Orthopaedic Research, Biological Performance of Implant Materials	Physical factors in cell-substrate interactions/Micromechanical behavior of tissue/Organometallic-implant corrosion products/Wear debris: production, biological sequelae/ Surgical implants: retrieval, analysis
Blob, Richard W.	rblob@clemson.edu	Biomechanics	Biomechanics, Locomotion, Bone, Biomaterials	Skeletal loading in vertebrate locomotion - Measurement: load and safety factors; Integrated video, force-platform recordings / Comparative mechanical properties - Characterization: structure, material; Evaluation of skeletal safety factors; Comparisons: age, sex, and species / Modeling, musculoskeletal function - Hypotheses of performance; Intractable systems; predicting performance; Diverse system components
Burg, Karen J.L.	kburg@clemson.edu	Cellular Biomaterials Education	Absorbable Polymers, Biofabrication, Tissue Engineering	Advanced Biomaterials - Tissue reconstruction: injectable composites; Tissue systems: polymeric materials; Complex materials for transition tissues / Bioreactors - Engineered tissue growth: modular systems; Units for coculture and drug discovery; Systems with biomechanical inputs / Tissue Fabrication and Test Systems - 3D engineered tissues for benchtop analysis; Biofabrication methods for 3D tissue; Orthopaedic, soft tissue, disease applications
Dear, Delphine	finou@clemson.edu	Biology from Nanonewtons to Microvolts	AFM, Multiscale, Modeling	Nano- and Micromechanics - Cardiovascular cell mechanics and interactions; Dental cell and tissue characterization; Characterizing small tissue samples / Nanoparticle-Cell Interactions - Evaluating the cytotoxicity of nanoparticles; Modulation of muscle-cell function; Stem cell differentiation and nanomaterials / Multiscale Modeling of Cells and Tissues - Modeling heterogeneity across length scales; Converting image data to model geometries
Desjardins, John	idesjar@clemson.edu	Designing Orthopaedic Implants	Total Joint Replacement, Orthopaedic Biomechanics	Total Joint Replacement Design-Kinematic and kinetic performance; Biomaterials tribology, friction, and wear; Knee-joint anatomy and function / Translational Orthopaedic Research - Novel surgical techniques: quantifying effectiveness, Evaluating fracture-fixation design; Orthopaedic rehabilitation / Implant Retrieval Analysis-implant design and material longevity; Designing new implant surfaces; Biomaterials surface characterization
Dooley, Larry R.	dooley@clemson.edu	College of Engineering and Science	Advanced Manufacturing Techniques	Scientific visualization; Computational modeling; Advanced manufacturing techniques; Microstructural engineering of materials
Figliola, Richard	rfigliola@clemson.edu	Modeling Physiology	Modeling, Simulation, Fontan	Simulation with patient-specific anatomy - In vitro circuits of altered anatomy; Flow studies for geometry-flow interactions; Respiration and exercise on efficiency / Ventricular-arterial coupling, mismatches - In vitro modeling of neo-aortic reconstruction; Vascular property effects on ventricular efficiency; Validation of MRI and clinical measurements / Regulating congenital heart disease circulations - Novel valve solutions; Patient-specific in vitro validations; Numerical simulation of altered anatomy
Foulger, Stephen H.	foulger@clemson.edu	Optoelectronic Colloids	Colloid Synthesis, Nanostructured Materials	Applications of multifunctional nanoparticles: Protein inhibition: enhanced cancer-cell apoptosis; Protein-activated fluorophores: imaging, therapy; Enzyme harvesting: rational design of ligands
Gao, Bruce Z.	zgao@clemson.edu	Imaging Cell Interactions	Optical Imaging, Microfabrication, Cell-ECM Interaction	Biophotonics-Coherence-based optical imaging; Nonlinear optics-based imaging; Laser tweezers, laser cell micropatterning / Microfabrication - Cell culture: engineered microenvironments; Lab-on-a-chip cell and tissue culture; Microfluidics-based laser cell-sorting / Cell-cell and cell-ECM interactions - Cardiac-cell electrical, mechanical coupling; Microniche: Stem- and cancer-cells

Guiseppi-Elie, Anthony	aguisepp@clemson.edu	C3B Laboratories	Biosensors, Trauma, Wounds	Implantable biosensors for continuous monitoring - Bioelectrochemistry; Nanobio interfaces; Enzyme-nano conjugates / Physiologic status monitoring - Trauma and hemorrhagic shock; Molecular markers; Animal studies / Wound healing - Programmed release of bioactive agents; Bioactive hydrogels; Animal studies Gene Expression in Escherichia coli - Effects of protein solubility; Improving protein expression; Fed-batch protocols; Bioreactor control: process control / Chinese Hamster Ovary (CHO) Cell - Glycosylation quality; Protein aggregation prevention; Sequencing the genome of CHO cells / Biofuels Production - Using <i>Saccharomyces bayanus</i> ; Oleaginous yeast: lipids for biodiesel Orthopaedic Implant Performance - Analyze retrieved implants, devices; Joint replacements; Preclinical testing, simulations; Bearing surfaces, bone-biomaterial interface / Innovation for Reprocessing, Reuse Medical device designs: Optimizing for reprocessing; Reprocessing protocols: Verification, validation; Reusable technology for low-resource settings / Translational Orthopaedic Research - Implant registries, postmarketing surveillance; Musculoskeletal biomechanics, functional assessments; Novel surgical instruments, operative techniques Biomaterials Development: Commercial Clinical Outcomes / Absorbable Implants - Synthesis, Manufacture and Quality Maintenance; High-risk surgical-implant candidates; Implant retrieval and evaluation; Presurgical patient-evaluation systems Image-Guided Surgery-Analysis of localization and tracking systems; visualization techniques; registration accuracy / Robotic-Assisted Surgery-Analysis of accuracy and precision; integration of pre- and intra-operative data; New applications / Medical Imaging and Image Processing- Novel applications of medical imaging; Disease measurement and therapeutics Orthopaedic Bearing Materials-Material synthesis and characterization; Total knee replacement friction, wear, and lubrication; Lubricant development for simulation and in vivo use / Endovascular Stent Restenosis - Implant design and modeling; Contact mechanics and tribology; In vitro experimentation and animal modeling / Vascular Smooth Muscle Response - Implant-contact experimental simulation
Harman, Sarah	harman2@clemson.edu	Bioreactor control	Recombinant DNA, Bioreactor Control, Gene Expression	Colon-specific bi-functional polymeric prodrug for treatment of amebiasis - Polymeric prodrug synthesis and characterization; Active drug release kinetics; Amebicidal activity and inhibition of parasite-host cell interaction / Neuron-specific polymeric nanotherapeutics for CNS regeneration- Neuronal targeting; Combinatorial drug/siRNA delivery; Axonal regeneration and functional recovery / Target-specific mixed polymeric micelle for metastatic breast cancer - Mixed polymeric micelle as drug/gene delivery carrier; Transfection efficiency, specificity, and cytotoxicity; Gene knockdown efficiency and biological activity
Harman, Melinda K.	harman2@clemson.edu	Medical Device Reprocessing	Orthopaedic-Implant Performance, Recycling, Reuse	Biomaterials-Combinatorial biomaterials development; Surface engineering of biomaterials; Smart biomaterials / Stem Cell Engineering - Cell reprogramming, Substrate-stem-cell interactions; Artificial stem cell niche / Tissue Engineering - 3D printing; stem cells for tissue engineering
Hermes, Matthew	hermes@clemson.edu	Commercial Clinical Outcomes	Biomaterials, Commercial Clinical Outcomes	Cellular mechanotransduction of hydrostatic pressure - Mechanosensitive ion channels of bladder urothelial cells; Intracellular signal transduction pathways; Bone-marrow stem cell differentiation under pressure / Mechanically guided urological tissue regeneration - Novel tissue engineering scaffold materials; Bioreactors for mechanical stimulation; Mechanical characterization of engineered tissue / Hydrogel-based smart tissue adhesive - Thermal crosslinking polymer; Mechanical properties tailored for urological organs; Drug-delivery for scar inhibition
Kwartowitz, David M.	robodoc@clemson.edu	Personalized Medicine	Image-Guided Surgery, Robotics, Medical Imaging	
LaBerge, Martine	laberge@clemson.edu	Medical Tribology	Total Knee Implant, Tribology, Endovascular Stent	
Latour, Robert	latour@clemson.edu	Protein-Surface Interactions	Proteins, Adsorption, Simulation	
Lee, Jeoung Soo	ljs1a@clemson.edu	Biomaterials for Drug/Gene Delivery	Target-Specific Polymeric Nanotherapeutics	
Mei, Ying	mei@clemson.edu	Biomaterials and Cell and Tissue Engineering	Biomaterials, Stem Cell/Tissue Engineering	
Nakatani, Jiro	inakatani@clemson.edu	Cell Mechanics and Mechanobiology	Mechanotransduction, Tissue Engineering	

Reukov, Vladimir	reukov@clemson.edu	Bioimaging, Nanoparticles	Imaging, Drug Delivery, Nanoparticles	<p><u>Cell imaging by SPM</u> - Bacteria recognition based on dynamic electromechanical response; Live cell band excitation piezo-response force microscopy; Electromechanical properties of cells / <u>Enzyme-nanoparticles conjugates for drug delivery</u> - Nasal delivery of anti-inflammatory agents; Cholesterol-lowering therapeutics during hyperlipidemia; Targeted delivery of free-radical scavengers through BBB / <u>Fiber-based materials for diagnostic applications</u> - Nanocoated fibers for self-diagnosis of bacterial vaginosis; Fast tests for viral infections (flu, HIV, etc.); Nanofibers for single cell analysis</p> <p>Diabetes related modifications of biomaterials - Irreversible chemical modifications: collagen and elastin scaffolds; Cardiovascular biomaterial stiffness in diabetes; Diabetes-resistant scaffolds treated with antioxidant agents / <u>Stem cells derived from diabetic subjects</u> - Diabetic stem cell characterization and differentiation; Stem cell responses to biochemical, mechanical cues; Matrix remodeling in diabetic subjects / <u>Microvascular network formation in diabetes</u> - Proangiogenic peptide immobilization to 3D tissue constructs; Biomaterial-stiffness adjustment; Testing in diabetic animal models</p> <p>Biomaterials: Cardiovascular and Orthopaedic Applications - Artificial heart valves, vascular grafts, myocardial patches; Engineered intervertebral disc components; Biocompatibility testing in vitro and in vivo / <u>Patient-Tailored Tissue Regeneration</u> - Tissue and organ 3D reconstruction; Human mesenchymal stem cells; Organ-specific bioreactors / <u>Tissue Engineering</u> - Biological scaffolds with controlled degradation; Cues for stem cell differentiation; Living heart valves, arteries, veins, heart muscle</p>
Simionescu, Agneta	agneta@clemson.edu	Tissue Regeneration Laboratory	Translational Tissue Engineering models	<p>Molecular Simulation Methods for Biomaterials - Force-field parameterization for protein adsorption simulation / <u>Molecular Structure of Adsorbed Proteins</u> - Molecular-modeling-simulation methods to determine adsorbed protein structure; Orientation; Conformation; Influence of protein-surface interaction on mechanism of enzyme catalysis / <u>Computational Studies of Reactions</u>: Subject to Confinement - Reactions confined to a nanotube interior</p>
Simionescu, Dan	dsimion@clemson.edu	Tissue Regeneration Laboratory	Tissue Regeneration	<p><u>Regenerative Medicine - Stem cell sources and differentiation</u>; <u>Tissue and organ biofabrication</u>; <u>Engineering the vascular tree / Bioengineering Leadership - Clemson-MUSC Joint Bioengineering Program</u>; <u>South Carolina Bioengineering Alliance</u>; <u>South Carolina Centers of Economic Excellence</u></p>
Snyder, James	jsnyder2@clemson.edu	Surface-Adsorption Studies	Biomolecule-Surface Interactions, Proteins	<p><u>Cartilage development and remodeling</u> - Cartilage-collagen network characterization; Collagen network differences with age, among joints; Helium-ion microscopy / <u>Mesenchymal Stromal Cells</u> - Characterization local to the articular joint space; Signaling molecules: Induce in vivo tissue regeneration; In vitro, in vivo responses to signaling molecules / <u>Cartilage regeneration</u> - Biomaterials for controlled signaling molecule delivery; Temporal signal sequences for robust chondrogenesis in vivo; Characterization of regenerated tissue structure</p>
Swaja, Richard is Retired	rswaja@musc.edu	Bioengineering Leadership and Regenerative Medicine	Bioengineering Leadership, Regenerative Medicine	
Vanden Berg-Foels, Wendy S.	wendyvf@clemson.edu	The Articular Surface	Cartilage Development, Remodeling, Regeneration	<p><u>Nanoparticles for targeted drug delivery</u> - Antioxidant nanoparticles for respiratory-tract protection; Thrombolytic nanodevices; Nanoparticles for neuroprotection; Antibacterial enzyme-nanoparticles conjugates / <u>Fiber-based biosensors and biodevices</u> - Biosensors for self-diagnosis of bacterial vaginosis; Biosensors embeddable in ordinary household items; Artificial proboscis for probing individual cells / <u>Advanced scanning-probe-microscopy techniques</u> - Mapping mechanical properties of cells and tissues; Bacterial recognition using piezoresponse force microscopy</p>
Vertegal, Alexey	vertege@clemson.edu	Surface Bioengineering	Biosurface Engineering, Scanning Probe Microscopy	<p><u>Cardiovascular Calcification</u>: Mechanisms, Therapies - Elastin degradation and stabilization; Prevention of enzyme activities; Suppression of bone proteins; Demineralization / <u>Aortic Aneurysms</u>: Mechanisms, Therapies - ECM stabilization, regeneration; Animal models; Site-specific delivery / <u>Heart-valve implants</u> - Durable materials; Functional role of glycosaminoglycans in heart valves</p>
Vyavahare, Naren	narenv@clemson.edu	Cardiovascular Disease Therapy	Extracellular Matrix, Heart Valve, Elastin	

Webb, Ken	kwebb@clmson.edu	Redirecting the Wound-Healing Process	Mechanotransduction, Extracellular-Matrix, Hydrogels	Vibratory Mechanotransduction - Extracellular-matrix metabolism; Cytokine expression; Activation of signaling pathways / Scaffolds for Spinal Cord Regeneration - Polymer fibers with micrometer-scale surface channels; Expression and immobilization of neural cell adhesion molecules; Controlled neurotrophin release / Bioactive Tissue Adhesives - Elastic hydrogels with variable degradation rates; Localized, sustained release of nonviral vectors
Yao, Hai	hayao@clmson.edu	Cartilage Regeneration	Cartilage Mechanics, Tissue Engineering	Cartilaginous Tissue Mechanics - Constitutive modeling and numerical simulation; Structure-Function relationship: biomechanical characterization; Fluid and solute transport: tissue nutrition / Cartilage-Cell Mechanobiology - Single-cell mechanics: Characterization and modeling; effects of physical stimuli: mechanotransduction; Cartilage-cell energy metabolism / Functional Imaging - In vivo cartilaginous tissue imaging; Fluorescent imaging for solute transport; radiation dosimetry; Monte Carlo simulation
Zhang, Guigen	gzlzen@clmson.edu	Novel Biosensors: Nanoscience and Engineering	Biosensors, Micro/Nanotechnology, Multiphysics Modeling	Integrated structures and biosensors - Fabrication of nanostructures; Integration of nanostructures into microdevices; Development and evaluation of novel biosensors / Characterization of structures - Surface binding of peptides and proteins; Structural characterization of macromolecules / Modeling of multidisciplinary problems - Multiphysics, multiscale simulation of complex problems; Holistic, interdisciplinary approach to biomedical systems

ATTACHMENT 8



GREENVILLE
HEALTH SYSTEM
Clinical University

GREENVILLE HEALTH SYSTEM SCHOLARLY ACTIVITY: OCT 1 2014-SEPT 30 2015

Final Report

Compiled by

Cindy Youssef
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CANCER INSTITUTE (INCLUDING ITORE RESEARCH)

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1. Brana I, Berger R, Golan T, Haluska P, **Edenfield J**, Fiorica J, Stephenson J, Martin LP, Westin S, Hanjani P, Jones MB, Almhanna K, Wenham RM, Sullivan DM, Dalton WS, Gunchenko A, Cheng JD, Siu LL, Gray JE. A parallel-arm phase I trial of the humanised anti-IGF-1R antibody dalotuzumab in combination with the AKT inhibitor MK-2206, the mTOR inhibitor ridaforolimus, or the NOTCH inhibitor MK-0752, in patients with advanced solid tumours. *Br J Cancer*. 2014 Oct 7;PubMed PMID: 25290091.
2. **Chen WY**. The many faces of prolactin in breast cancer. *Adv Exp Med Biol*. 2015;846:61-81. PubMed PMID: 25472534.
3. Maximilien J. Rappaport, Darion L. Showell, **William J. Edenfield**. Metastatic ghost cell odontogenic carcinoma: description of a case and search for actionable targets. *Rare Tumors* 2015; volume 7:5813.
4. McCoy G, **Edenfield W**. A Case of Newly Diagnosed Chronic Myelomonocytic Leukemia with Rheumatoid Arthritis Presentation. *J Clin Case*. 2014; 4(9):414.
5. Postow MA, Chesney J, Pavlick AC, Robert C, Grossmann K, McDermott D, Linette GP, Meyer N, **Giguere JK**, Agarwala SS, Shaheen M, Ernstoff MS, Minor D, Salama AK, Taylor M, Ott PA, Rollin LM, Horak C, Gagnier P, Wolchok JD, Hodi FS. Nivolumab and Ipilimumab versus Ipilimumab in Untreated Melanoma. *N Engl J Med*. 2015 Apr 20. [Epub ahead of print] PubMed PMID: 25891304.
6. Stephen R. Rapp, L. Doug Case, Ann Peiffer, Michelle M Naughton, Michael D. Chan, Colker W Stieber, Dennis F. Moore Jr, Steven C Falchuk, James V Piephoff, **William J Edenfield**, **Jeffrey K Giguere**, Monica E. Loghin, and Edward G Shaw. Donepezil for Irradiated Brain Tumor Survivors: A Phase III Randomized Placebo-Controlled Clinical Trial. *Journal of Clinical Oncology*; 10.1200/JCO.2014.58.4508.
7. **Rogers A**. Louder than words. *Clin J Oncol Nurs*. 2014 Oct 1;18(5):602. PubMed PMID: 25253118.
8. Smerage JB, Barlow WE, Hortobagyi GN, Winer EP, Leyland-Jones B, Srkalovic G, Tejwani S, Schott AF, **O'Rourke MA**, Lew DL, Doyle GV, Gralow JR, Livingston RB, Hayes DF. Circulating tumor cells and response to chemotherapy in metastatic breast cancer: SWOG S0500. *J Clin Oncol*. 2014 Nov 1;32(31):3483-9. doi: 10.1200/JCO.2014.56.2561. Epub 2014 Jun 2. PubMed PMID: 24888818; PubMed Central PMCID: PMC4209100.
9. Sterba KR, Armeson K, **Franco R**, Harper J, Patten R, Kindall S, Bearden J, Zapka J. A pilot randomized controlled trial testing a minimal intervention to prepare breast cancer survivors for recovery. *Cancer Nurs*. 2015 Mar-Apr;38(2):E48-56. doi: 10.1097/NCC.000000000000152. PubMed PMID: 24831043.



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1. Kristen Keon Ciombor, **William Jeffery Edenfield**, Joleen Marie Hubbard, Peter J. O'Dwyer, Carlos Becerra, Tim Larson, Alexander I. Spira, Axel Grothey, Divya Manoharan, Wei Li, Youzhi Li, Laura Borodyansky, Chiang Li, Tanios S. Bekaii-Saab; A phase Ib/II study of cancer stem cell inhibitor BBI608 administered with panitumumab in KRAS wild-type (wt) patients (pts) with metastatic colorectal cancer (mCRC) following progression on anti-EGFR therapy. *J Clin Oncol* 33, 2015 (suppl; abstr 3617).
2. Collins J, George K, Stafford C, **Edenfield J**, Schammel C, et al. Predictive Molecular Analysis of Regional Lymph Node Metastasis in Melanoma: First Steps to Elimination of Sentinel Lymph Node Biopsy. *Personalized Medicine in Oncology*. 2014 October; 3(7).
3. James L. Gulley, David Spigel, Karen Kelly, Jason Claud Chandler, Arun Rajan, Raffit Hassan, Deborah Jean Lee Wong, Joseph Leach, **William Jeffery Edenfield**, Ding Wang, Nandagopal Vrindavanam, Glen J. Weiss, Jayne S. Gurtler, Hans Juergen Grote, Anja von Heydebreck, Kevin M. Chin, Nicholas Iannotti; Avelumab (MSB0010718C), an anti-PD-L1 antibody, in advanced NSCLC patients: A phase 1b, open-label expansion trial in patients progressing after platinum-based chemotherapy. *J Clin Oncol* 33, 2015 (suppl; abstr 8034)
4. Derek J. Jonker, Scott Andrew Laurie, Gregory Michael Cote, Keith Flaherty, Charles S. Fuchs, Rashmi Chugh, David C. Smith, **William Jeffery Edenfield**, Paul R. Conkling, James Walter Mier, Rachel Anne Goodwin, Eunice Lee Kwak, Thomas Adam Abrams, Rakesh Goel, James M. Cleary, Wei Li, Youzhi Li, Jamileh Jemison, Matthew Hitron, Chiang Li; Phase 1 extension study of BBI503, a first-in-class cancer stemness kinase inhibitor, in patients with advanced colorectal cancer. *J Clin Oncol* 33, 2015 (suppl; abstr 3615).
5. Sara M. Tolaney, Muralidhar Beeram, J. Thaddeus Beck, Alison Katherine Conlin, Elizabeth Claire Dees, Maura N. Dickler, Teresa L. Helsten, Paul R. Conkling, **William Jeffery Edenfield**, Donald A. Richards, P. Kellie Turner, Na Cai, Edward Michael Chan, Shubham Pant, Carlos Becerra, Kevin Kalinsky, Shannon Puhalla, Brent Neil Rexer, Howard A. Burris, Matthew P. Goetz; A phase Ib study of abemaciclib with therapies for metastatic breast cancer. *J Clin Oncol* 33, 2015 (suppl; abstr 522)

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REGIONAL/NATIONAL/INTERNATIONAL PRESENTATIONS

1. **Edenfield J**. Comprehensive genomic profiling of rare tumors in a dedicated community clinic. 2015 ASCO Annual Meeting; 2015 May 29; Chicago, IL, USA. (poster presentation)



2. Taplin ME, Chi KN, Chu F, Cochran J, **Edenfield WJ**, et al. Activity of Galertone in Castrate-resistant Prostate Cancer (CRPC) with C-terminal AR Loss: Results from ARMOR2. 26th EORTC-NCI-ACCR Symposium on Molecular Targets and Cancer Therapeutics; 2014 November; Barcelona, Spain.

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1. Ribrag V, Damien S, Gharibo M, Gironella M, **Edenfield WJ**. 3500 CC-122 Degrades the Lymphoid Transcription Factor Aiolos (IKZF3) By Modulating Cereblon and Shows Clinical Activity in a Phase Ib Study of Subjects with Relapsed or Refractory Non-Hodgkin's Lymphoma and Multiple Myeloma. [Poster]. Chemical Biology and Experimental Therapeutics 2014 December.



CARE COORDINATION INSTITUTE (CCI)

PEER REVIEWED JOURNAL ARTICLES

1. Boan AD, **Egan BM**, Bachman DL, Adams RJ, Feng WW, Jauch EC, Ovbiagele B, Lackland DT. Antihypertensive medication persistence 1-year post-stroke hospitalization. *J Clin Hypertens (Greenwich)*. 2014 Dec;16(12):869-74. doi: 10.1111/jch.12424. Epub 2014 Oct 13. PubMed PMID: 25307229.
2. **Egan BM**, Li J, Hutchison FN, Ferdinand KC. Hypertension in the United States 1999-2012: Progress Toward Healthy People 2020 Goals. *Circulation*. 2014 Oct 20;PubMed PMID: 25332288.
3. **Egan BM**, Li J, Small J, Nietert PJ, Sinopoli A. The growing gap in hypertension control between insured and uninsured adults: national health and nutrition examination survey 1988 to 2010. *Hypertension*. 2014 Nov;64(5):997-1004. PubMed PMID: 25185135.
4. **Egan BM**, Stevens-Fabry S. Prehypertension-prevalence, health risks, and management strategies. *Nat Rev Cardiol*. 2015 Feb 17. doi: 10.1038/nrcardio.2015.17. [Epub ahead of print] Review. PubMed PMID: 25687779.
5. **Egan BM**. Opportunities for multidisciplinary ASH clinical hypertension specialists in an era of population health and accountable care: ASH leadership message. *J Am Soc Hypertens*. 2014 Jul;8(7):451-6. doi: 10.1016/j.jash.2014.05.016. Epub 2014 Jun 28.
6. **Egan BM**, Stevens-Fabry S. The importance of masked hypertension in adults with prehypertension. *Nat Rev Cardiol*. 2015 Aug;12(8):497. doi: 10.1038/nrcardio.2015.100. Epub 2015 Jul 7. PubMed PMID: 26149482.
7. **Egan BM**. Elijah Saunders in Memoriam. *J Clin Hypertens (Greenwich)*. 2015 Jun;17(6):415-7. doi: 10.1111/jch.12587. Epub 2015 Jun 11. PubMed PMID: 26094721.
8. **Egan BM**, Bland VJ, Brown AL, Ferdinand KC, Hernandez GT, Jamerson KA, Johnson WR, Kountz DS, Li J, Osei K, Reed JW, Saunders E. Hypertension in african americans aged 60 to 79 years: statement from the international society of hypertension in blacks. *J Clin Hypertens (Greenwich)*. 2015 Apr;17(4):252-9. doi: 10.1111/jch.12511. Epub 2015 Mar 10. PubMed PMID: 25756743.
9. **Egan BM**. Effectiveness of a tailored behavioral intervention to improve hypertension control. *Hypertension*. 2015 Feb;65(2):273-5. doi: 10.1161/HYPERTENSIONAHA.114.04650. Epub 2014 Nov 17. PubMed PMID: 25403609; PubMed Central PMCID: PMC4289110.
10. Jones JB, Shatat IF, **Egan BM**, Paulo RC. Decreased heart rate variability is associated with increased transcranial Doppler velocities in children with sickle cell disease. *Ethn Dis*. 2014 Autumn;24(4):451-5. PubMed PMID: 25507156.



11. Jones JB, Shatat IF, **Egan BM**, Paulo RC. Decreased heart rate variability is associated with increased transcranial Doppler velocities in children with sickle cell disease. *Ethn Dis.* 2014 Autumn;24(4):451-5. PubMed PMID: 25417428.
12. Lopes HF, Klein RL, Garvey WT, Goodfriend T, **Egan BM**. Influence of acute hyperlipidemia to adipocyte-derived hormones in lean normotensive and subjects with metabolic syndrome. *Diabetol Metab Syndr.* 2014 Dec 2;6(1):132. doi: 10.1186/1758-5996-6-132. eCollection 2014. PubMed PMID: 25506401; PubMed Central PMCID: PMC4265446.
13. Moran WP, Zhang J, Gebregziabher M, Brownfield EL, Davis KS, Schreiner AD, **Egan BM**, Greenberg RS, Kyle TR 3rd, Marsden JE, Ball SJ, Mauldin PD. Chaos to complexity: leveling the playing field for measuring value in primary care. *J Eval Clin Pract.* 2015 Feb 4. doi: 10.1111/jep.12298. [Epub ahead of print] PubMed PMID: 25652744.
14. Nietert PJ, Shaftman SR, Silver RM, Wolf BJ, **Egan BM**, et al. Raynaud phenomenon and mortality: 20+ years of follow-up of the Charleston Heart Study cohort. *Clin Epidemiol.* 2015;7:161-8. PubMed PMID: 25678814; PubMed Central PMCID: PMC4322708.
15. Page BR, Shaw EG, Lu L, Bryant D, **Grisell D**, et al. Phase II double-blind placebo-controlled randomized study of armodafinil for brain radiation-induced fatigue. *Neuro Oncol.* 2015 May 12;PubMed PMID: 25972454.
16. Sperling LS, Mechanick JI, Neeland IJ, Herrick CJ, Després JP, Ndumele CE, Vijayaraghavan K, Handelsman Y, Puckrein GA, Araneta MR, Blum QK, Collins KK, Cook S, Dhurandhar NV, Dixon DL, **Egan BM**, Ferdinand DP, Herman LM, Hessen SE, Jacobson TA, Pate RR, Ratner RE, Brinton EA, Forker AD, Ritzenthaler LL, Grundy SM. The CardioMetabolic Health Alliance: Working Toward a New Care Model for the Metabolic Syndrome. *J Am Coll Cardiol.* 2015 Sep 1;66(9):1050-67. doi: 10.1016/j.jacc.2015.06.1328. Review. PubMed PMID: 26314534.

PEER REVIEWED JOURNAL ABSTRACTS

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REGIONAL/NATIONAL/INTERNATIONAL PRESENTATIONS

PEER REVIEWED MEETING ABSTRACTS



GHS DEPARTMENT OF ANESTHESIOLOGY (INCLUDING CRNA)

PEER REVIEWED JOURNAL ARTICLES

PEER REVIEWED JOURNAL ABSTRACTS

BOOK AND BOOK CHAPTERS

REGIONAL/NATIONAL/INTERNATIONAL PRESENTATIONS

1. **McKee A.** Transitioning from SRNA to Clinical Practice in the First Year. SC Association of Nurse Anesthetists Annual Meeting; 2015 September 25; Kiawah Island, South Carolina, USA. *(CRNA)*
2. **Eidson, H.** Updates in Pediatric Anesthesia. SC Association of Nurse Anesthetists Annual Meeting; 2015 September 26; Kiawah Island, South Carolina, USA. *(CRNA)*
3. **Nocito, R.** Comparison of Flow Dynamics and Centrally Inserted Intravenous Catheters using the Belmont Rapid Infuser. SC Association of Nurse Anesthetists Annual Meeting; 2015 September 25; Kiawah Island, South Carolina, USA. *(CRNA)*
4. **Wilson R.** Ketamine: Analgesia for Spinal Fusions. South Carolina Association Nurse Anesthetist Annual State Meeting; 2014 October 10; Greenville, SC, USA. *(CRNA)*

PEER REVIEWED MEETING ABSTRACTS



GHS DEPARTMENT OF EMERGENCY MEDICINE

PEER REVIEWED JOURNAL ARTICLES

1. Ateyyah KA, Cady CE, Poltrock JT, **Pirrallo RG**. A Novel Use of a Metronome in Dispatcher-assisted Cardiopulmonary Resuscitation. Prehosp Emerg Care. 2015 January-March;19(1):131-134. Epub 2014 Nov 24. PubMed PMID: 25420016. (*publication prior to employment with GHS*)
2. Beam DM, **Kahler ZP**, Kline JA. Immediate Discharge and Home Treatment With Rivaroxaban of Low-risk Venous Thromboembolism Diagnosed in Two U.S. Emergency Departments: A One-year Preplanned Analysis. Acad Emerg Med. 2015 Jul;22(7):788-95. doi: 10.1111/acem.12711. Epub 2015 Jun 25. PubMed PMID: 26113241.
3. **Ellis J**, Courson R, Daniels B. Spinal trauma. Curr Rev Musculoskelet Med. 2014 Dec;7(4):381-6. PubMed PMID: 25226852.
4. Faul M, Dailey MW, Sugerman DE, **Sasser SM**, Levy B, et al. Disparity in Naloxone Administration by Emergency Medical Service Providers and the Burden of Drug Overdose in US Rural Communities. Am J Public Health. 2015 Apr 23;PubMed PMID: 25905856.
5. Faul M, **Sasser SM**, Lairet J, Mould-Millman NK, Sugerman D. Trauma center staffing, infrastructure, and patient characteristics that influence trauma center need. West J Emerg Med. 2015 Jan;16(1):98-106. doi: 10.5811/westjem.2014.10.22837. Epub 2014 Nov 11. PubMed PMID: 25671017; PubMed Central PMCID: PMC4307735.
6. Fosbøl EL, Dupre ME, Strauss B, Swanson DR, Myers B, McNally BF, Anderson ML, Bagai A, Monk L, Garvey JL, **Bitner M**, Jollis JG, Granger CB. Association of neighborhood characteristics with incidence of out-of-hospital cardiac arrest and rates of bystander-initiated CPR: implications for community-based education intervention. Resuscitation. 2014 Nov;85(11):1512-7. doi: 10.1016/j.resuscitation.2014.08.013. Epub 2014 Aug 30. PubMed PMID: 25180920. (*publication prior to employment with GHS*)
7. Idris AH, Guffey D, Pepe PE, Brown SP, Brooks SC, Callaway CW, Christenson J, Davis DP, Daya MR, Gray R, Kudenchuk PJ, Larsen J, Lin S, Menegazzi JJ, Sheehan K, Sopko G, Stiell I, Nichol G, Aufderheide TP; Resuscitation Outcomes Consortium Investigators (**Pirrallo RG**). Chest compression rates and survival following out-of-hospital cardiac arrest. Crit Care Med. 2015 Apr;43(4):840-8. doi: 10.1097/CCM.0000000000000824. PubMed PMID: 25565457. (*publication prior to employment with GHS*)
8. **Kahler ZP**, Beam DM, Kline JA. Cost of Treating Venous Thromboembolism With Heparin and Warfarin Versus Home Treatment With Rivaroxaban. Acad Emerg Med. 2015 Jul;22(7):796-802. doi: 10.1111/acem.12713. Epub 2015 Jun 25. PubMed PMID: 26111453.
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1. **Blackwell TH**, Brennan K, DeAtley C, Yee A. Textbook of the National Association of EMS Physicians. 2nd ed. Cone DC, Brice JH, Delbridge TR, Myers B, editors. USA: Wiley; 2015. Chapter 35, Medical Support for Hazardous Materials Response.
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3. **Bitner, M**. Syndrome of Inappropriate ADH Secretion. 5-Minute Emergency Medicine Clinical Consult, 5th Edition, Lippincott, Williams, and Wilkins, 2014. (*publication prior to employment with GHS*)



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5. **Fabiano, S,** Lema, P. Anatomy of Trauma Airway. Encyclopedia of Trauma. Springer. Elsevier, Sept 2015.

REGIONAL/NATIONAL/INTERNATIONAL PRESENTATIONS

1. **Close M.** Sideline Management of Fractures and Dislocations. Southeast American College of Sports Medicine (SEACSM) Annual Meeting; 2015 February 13; Jacksonville, FL, USA.

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GHS DEPARTMENT OF FAMILY MEDICINE

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1. **Asif IM**, Prutkin JM. Modern standards of ECG interpretation in young athletes: Yield and effectiveness. *J Electrocardiol*. 2014 Dec 23;PubMed PMID: 25595717.
2. **Asif IM**, Price D, Fisher LA, Zakrajsek RA, Larsen LK, et al. Stages of psychological impact after diagnosis with serious or potentially lethal cardiac disease in young competitive athletes: A new model. *J Electrocardiol*. 2015 Jan 3;PubMed PMID: 25680944.
3. **Asif IM**, Yim ES, Hoffman JM, Froelicher V. Update: Causes and symptoms of sudden cardiac death in young athletes. *Phys Sportsmed*. 2015 Feb;43(1):44-53. PubMed PMID: 25656358.
4. **Asif IM**, Price D, Harmon KG, Salerno JC, Rao AL, et al. The Psychological Impact of Cardiovascular Screening in Young Athletes: Perspectives Across Age, Race, and Gender. *Clin J Sport Med*. 2015 Feb 4;PubMed PMID: 25654630.
5. **Asif IM**, MD, Roberts WO, Frederickson M and Froelicher V. The Cardiovascular Preparticipation Evaluation (PPE) for the Primary Care and Sports Medicine Physician, Part I. *Curr Sports Med Rep*. 2015;14(3):246.
6. **Asif IM**, MD, Roberts WO, Frederickson M and Froelicher V. The Cardiovascular Preparticipation Evaluation (PPE) for the Primary Care and Sports Medicine Physician, Part II. *Curr Sports Med Rep*. 2015;14(4):333.
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1. **Asif IM**, Parsons J. Sports Cardiology. *The Sports Medicine Field Manual*. Edited by Dr. Orr Limpisvasti, Dr. Brian J. Krabak, Dr. Matthew T. Provencher, Marjorie J. Albohm, Dr. L. Tyler Wadsworth, Dr. Stanley Herring. American Academy of Orthopaedic Surgeons (2015).
2. **Asif IM**, Paul, S. CAQ Study Guide for Sports Medicine.

REGIONAL/NATIONAL/INTERNATIONAL PRESENTATIONS

1. **Asif IM**, Kimberly G. Harmon, MD, Joseph Maleszewski, MD, David S. Owens, MD, MS, Jordan M. Prutkin, MD, MHS, Jack C. Salerno, MD, Monica Zigman, MS, Rachel Ellenbogen, MS, Michael J. Ackerman, MD, and Jonathan A. Drezner, MD. Incidence and Etiology of Sudden Cardiac Death in NCAA Athletes: 10 – Year Data. American Heart Association Annual Meeting, Chicago IL, Nov 2-6. (poster presentation)
2. **Asif IM**, Kimberly G. Harmon, MD, Joseph Maleszewski, MD, Dave S. Owens, MD, Jordan M. Prutkin MD, Jack C. Salerno MD, Rachel Ellengoben, MS, Monica Zigman MS, Michael Ackerman MD, Jonathan A. Drezner MD. Incidence and Etiology of Sudden Cardiac Death and Arrest in US High School Athletes. American Heart Association Annual Meeting, Chicago IL, Nov 2-6. (poster presentation)
3. **Asif IM**. “Sports Cardiology” 6/20/15. Comprehensive Sports Medicine Update and Board Review Course, Minneapolis, MN.
4. **Asif IM**. “Thoracic Injuries Conditions in Athletes” 6/20/15. Comprehensive Sports Medicine Update and Board Review Course, Minneapolis, MN.
5. **Asif IM**. “Abdominal Injuries Conditions in Athletes” 6/20/15. Comprehensive Sports Medicine Update and Board Review Course, Minneapolis, MN.
6. **Asif IM**. “Sports Gastroenterology” 6/20/15. Comprehensive Sports Medicine Update and Board Review Course, Minneapolis, MN.
7. **Asif IM**. “Crucial Conversations: Disqualifying Athletes from Sport” 5/26/15. ACSM 62nd Annual Conference, San Diego, CA.



8. **Asif, IM.** "Living with Cardiac Disease" 4/16/15. AMSSM 24th Annual Conference, Hollywood, FL.
9. **Asif, IM.** "AMSSM Traveling Fellowship" 4/19/15. AMSSM 24th Annual Conference, Hollywood, FL.
10. **Asif, IM.** "Psychological Implications for Cardiovascular Screening in the Young" 2/21/15. Cardiac Safety Research Consortium FDA Headquarters White Oak Campus, Bethesda MD.
11. **Asif, IM.** "The Psychological Impact of Cardiovascular Screening" 1/17/15. Parent Heart Watch Annual Meeting, Scottsdale AZ.
12. **Asif, IM.** "Incidence and Etiology of Sudden Cardiac Death in NCAA Athletes: 10 Year Data" 11/3/14. American Heart Association Annual Meeting, Chicago, IL.
13. **Bryan, S.** March 2015 Transforming Primary Care Delivery through Patient Centered Medical Homes CCI 2015 Annual Symposium, Columbia, SC.
14. **Masocol, R** (2015, May) Knee Injury – Football, Clinical Case Presentation Session D-21- American College of Sports Medicine Annual Meeting. San Diego, CA. (poster presentation)
15. **Masocol, R, Asif, I, Lopez, M.L et al** (2015, April) Sudden Cardiac Death in the Young: Parents Perspectives Following the Death of a Child, American Medical Society of Sports Medicine, Hollywood, FL. (poster presentation)
16. **Masocol, R** (2015, February) Shoulder Pain- Softball, Southeast Chapter American College of Sports Medicine Annual Meeting. Jacksonville, FL.
17. **Masocol, R** (2015, April) Upper Extremity Pearls, 59th Annual Post Graduate Seminar, Greenville, SC. (local presentation)
18. Pandke K, Jamie Shrouder, and Leslie Golden, **Bruce Hanlin**, and **Terry Stone.** "Statin Therapy Attritions Rates in Relation to the New Lipid Treatment Guidelines."

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1. **Masocol, R, Casas, K.** Knee Injury- Football, Medicine and Science in Sports and Exercise. 2015 May; 47(5S)- 434-437.



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2. **Avasarala JR**. Clinically isolated syndrome - Rethinking the diagnosis. J Neurol Sci. 2015 Apr 14. pii: S0022-510X(15)00205-1. doi: 10.1016/j.jns.2015.04.008. [Epub ahead of print] PubMed PMID: 25940324.
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4. **Avasarala JR**. Stem cell therapies in multiple sclerosis--united we stand, divided we fail. Clin Case Rep Rev. 2015; 1(9):199-200.
5. **Avasarala, JR**. Letter to the Editor re: Multiple sclerosis in US minority populations: Clinical practice insights. Neurol Clin Pract. 2015 Apr;5(2):132-142. PubMed PMID: 26137421; PubMed Central PMCID: PMC4404283.
6. **Avasarala, JR**. Time to Rethink CIS Criteria. Multiple Sclerosis Discovery Forum. Doi: 10.7493/msdf.10.18833.1.
7. Escaned J, Echavarria-Pinto M, Garcia-Garcia HM, van de Hoef TP, de Vries T, **Baucum J**, et al. Prospective Assessment of the Diagnostic Accuracy of Instantaneous Wave-Free Ratio to Assess Coronary Stenosis Relevance. International journal of cardiovascular interventions. 2015 May; 8(6):824-33. (*Dept. of Cardiology*)
8. **Emery MS**, Quandt EF. Legal and Ethical Issues in the Cardiovascular Care of Elite Athletes. Clin Sports Med. 2015 Jul;34(3):507-16. doi: 10.1016/j.csm.2015.02.004. Epub 2015 Apr 22. Review. PubMed PMID: 26100425. (*Dept. of Cardiology*)
9. Grim SA, Layden JE, **Roth P**, Gallitano S, Adams W, Clark NM. Latent tuberculosis in kidney and liver transplant patients: a review of treatment practices and outcomes. Transpl Infect Dis. 2015 Aug 11. doi: 10.1111/tid.12436. [Epub ahead of print] PubMed PMID: 26263530.
10. Jerome SD, **Tilkemeier PL**, Farrell MB, Shaw LJ. Nationwide Laboratory Adherence to Myocardial Perfusion Imaging Radiation Dose Reduction Practices: A Report from the Intersocietal Accreditation Commission Data Repository. JACC Cardiovasc Imaging. 2015 Sep 2. pii: S1936-878X(15)00589-6. doi: 10.1016/j.jcmg.2015.07.008. [Epub ahead of print] PubMed PMID: 26363837.



11. **Jindal M.** Herpes Zoster. *Consultant*. 2015 May; 55(5):390.
12. Jones JA, **Shuler MJ**, Zlotoff BJ. Levonorgestrel-releasing intrauterine system causes a lichenoid drug eruption. *Cutis*. 2015 Jul;96(1):E13-5. (*Dermatology*)
13. **Kelly JW, Blackhurst D, Steed C, Diller T.** A response to the article, "Comparison of Hand Hygiene Monitoring Using the My 5 Moments for Hand Hygiene Method Versus a Wash in-Wash out Method". *Am J Infect Control*. 2015 Jun 19. pii: S0196-6553(15)00474-5. doi: 10.1016/j.ajic.2015.02.032. [Epub ahead of print] PubMed PMID: 26095657.
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15. Korpacz D, **Tilkemeier P**, Blissmer B, Lamont LS. Effects of Social Support on Individual's Results of 12-Weeks of Cardiac Rehabilitation. *J Cardiopulm Rehabil*. 2015;35(4):288.
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20. Mata IF, Leverenz JB, Weintraub D, Trojanowski JQ, Chen-Plotkin A, Van Deerlin VM, Ritz B, Rausch R, Factor SA, Wood-Siverio C, Quinn JF, Chung KA, Peterson-Hiller AL, Goldman JG, Stebbins GT, Bernard B, Espay AJ, **Revilla FJ**, Devoto J, Rosenthal LS, Dawson TM, Albert MS,



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21. **Nagueh SF**, Farrell MB, Bremer ML, Dunsiger SI, Gorman BL, **Tilkemeier PL**. Predictors of Delayed Accreditation of Echocardiography Laboratories: An Analysis of the Intersocietal Accreditation Commission Database. *J Am Soc Echocardiogr*. 2015 Jun 15. pii: S0894-7317(15)00357-0. doi: 10.1016/j.echo.2015.05.003. [Epub ahead of print] PubMed PMID: 26087758.
22. O'Toole JK, Friedland AR, Gonzaga AR, Hartig JR, Holliday S, **Kolarik R**, et al. The Practice Patterns of Recently Graduated Internal Medicine–Pediatric Hospitalists. *Hospital pediatrics*. 2015; 5(6):309-314
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24. **Revilla, FJ**. Understanding Postural Response of Parkinson's Subjects Using Nonlinear Dynamics and Support Vector Machines. *Austin J Biomed Eng*. 2014;1(1): 4.
25. **Revilla, FJ**. Cognitive profile of LRRK2-related Parkinson's disease. *Mov Disord*. 2015 Apr 15;30(5):728-33. Doi:10.1002/mds.26161. Epub 205 Feb 4. PMID: 25640144
26. Serber E, Ciccolo J, Palmer K, Cobb V, **Tilkemeier P**, et al. The feasibility of exercise videogames for cardiovascular risk reduction among adults: A pilot for "Wii Heart Fitness". *J Sports Med Phys Fitness*. 2015 Feb 18;PubMed PMID: 25692860.
27. **Tilkemeier PL**, Mahmorian JJ, Wolinsky DG, Denton EA. ImageGuide™ Update. *J Nucl Cardiol*. 2015 Oct;22(5):994-7. doi: 10.1007/s12350-015-0217-1. Epub 2015 Jul 18. PubMed PMID: 26187419.
28. **Urrea-Mendoza E**, Kanter D, **Revilla FJ**, Dornoff E, Espay AJ. Stiff-arm syndrome. *Neurology*. 2015 Sep 22;85(12):1088-9. doi: 10.1212/WNL.0000000000001962. PubMed PMID: 26391414; PubMed Central PMCID: PMC4603594.



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1. Woody S, Woody C, **Weber S**: Inter-Professional Eye Care Communication as Part of a Diabetes Comprehensive Care Plan. Endocrine Practice, 2014.
2. Woody CC, Yoon D, Barner I, **Weber SL**, Woody CJ: Clinical Evaluation of Macular Pigment Density. SECO, 2015.
3. Rappaport, M, Woody, CC, Nowell, A, Woody, CJ, Horton, JK, **Weber, S**: Lyme Disease Presenting As Bitemporal Hemianopsia. Endocrine Practice, 2015.

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REGIONAL/NATIONAL/INTERNATIONAL PRESENTATIONS

1. **Jindal M**, Wagner PJ. EHR Education Integration into the Preclinical Medical Curriculum. AAMC Southern Group of Educational Affairs (SGEA) Annual Conference; 2015 April 24; Charlotte, NC, USA. (poster presentation)
2. **Jindal M**, Wagner PJ. Script Concordance Testing to Assess Clinical Reasoning. AAMC Southern Group of Educational Affairs (SGEA) Annual Conference; 2015 April 24; Charlotte, NC, USA. (poster presentation)
3. Revilla, FJ. Non-motor features in Parkinson's Disease. Parkinson Support Group. Greenville September 16, 2015. (local presentation)
4. **Sims M**, Rollman N, Jindal M. Integrative and innovative Efforts in Screening, Diagnosis and Management of Depression in a Residents' Primary Care Clinic. Society of General Internal Medicine, southern region annual meeting; March, 2015; New Orleans, LA, USA. (poster presentation)
5. **Stenbit AE**. Keeping Percussion Alive for Medical Student with the "Lung Box". American Thoracic Society Meeting; 2015 May 20; Denver, CO, USA. (poster presentation)
6. **Tilkemeier P**. Image Guide-ASNC Registry. International Conference on Nuclear Cardiology and Cardiac CT; 2015 May 04; Madrid, Spain.
7. **Tilkemeier, PL**. Session 104 ASNC/MedAxiom Session II: Managing in the New Environment: How Can ASNC Get You Ready. ASNC THE 20TH ANNUAL SCIENTIFIC SESSION OF THE AMERICAN SOCIETY OF NUCLEAR CARDIOLOGY SEPTEMBER 17 – 20, 2015. WASHINGTON, DC.



8. **Tilkemeier, PL.** Session 405 Back to the Future: New Technologies Location: Standard and Structure: The ImageGuide Registry. ASNC THE 20TH ANNUAL SCIENTIFIC SESSION OF THE AMERICAN SOCIETY OF NUCLEAR CARDIOLOGY SEPTEMBER 17 – 20, 2015. WASHINGTON, DC.
9. **Weber, S.** State of AACE. American Association of Clinical Endocrinologists, Carolinas Chapter. 2015 August.

PEER REVIEWED MEETING ABSTRACTS

1. M B Farrell, **P T Maddux, J A Ewing, P L Tilkemeier.** 301-04 COMPARISON OF REPORTING DEFICIENCIES FOR FACILITIES WITH AND WITHOUT PHYSICIANS CERTIFIED BY THE CERTIFICATION BOARD OF NUCLEAR CARDIOLOGY (CBNC): A REPORT FROM THE INTERSOCIETAL ACCREDITATION COMMISSION (IAC) DATABASE. Journal of Nuclear Cardiology; 2015 September 19; Intersocietal Accreditation Commission, Ellicott City, MD. Abstract 759, Volume 22, Number 4; 744-81.
2. M B Farrell, M Costello, **P T Maddux, J A Ewing, P L Tilkemeier.** 301-05 PROBLEMS WITH PROTOCOLS: A REPORT FROM THE INTERSOCIETAL ACCREDITATION COMMISSION DATABASE. Journal of Nuclear Cardiology; 2015 September 19; Intersocietal Accreditation Commission, Ellicott City, MD. Abstract 759, Volume 22, Number 4; 744-81.
3. M B Farrell, **P T Maddux, J A Ewing, P L Tilkemeier.** 301-09 PROGRESS IN REPORTING: A RETROSPECTIVE ANALYSIS OF NUCLEAR CARDIOLOGY LABS APPLYING FOR INTERSOCIETAL ACCREDITATION COMMISSION (IAC) ACCREDITATION DEMONSTRATES IMPROVED COMPLIANCE WITH REPORTING STANDARDS. Journal of Nuclear Cardiology; 2015 September 19; Intersocietal Accreditation Commission, Ellicott City, MD. Abstract 759, Volume 22, Number 4; 744-81.
4. **P T Maddux,** M B Farrell, **J A Ewing, P L Tilkemeier.** 301-08 IMPROVING COMPLIANCE WITH INTERSOCIETAL ACCREDITATION COMMISSION (IAC) REPORTING STANDARDS: A SERIAL COMPARISON OF 523 LABS OVER NINE YEARS. Journal of Nuclear Cardiology; 2015 September 19; Intersocietal Accreditation Commission, Ellicott City, MD. Abstract 759, Volume 22, Number 4; 744-81.
5. **Mendoza EU.** Computer-guided deep brain stimulation programming using automated motion sensor-based functional mapping. Movement Disorders Society Annual Meeting, 2015, San Diego, CA, USA.
6. **Mendoza EU.** Stiff-limb syndrome affecting the arm; case report. International Parkinson and Movement Disorder Society International Congress, San Diego, CA, June 14-18, 2015.
7. **Rappaport M,** Woody C, Nowell A, Woody C, **Horton K, Weber, S.** Lyme Disease Presenting as Bitemporal Hemianopsia. American Association of Clinical Endocrinologists; 2015 May 13; Nashville, TN, USA. Abstract 829, page 161 .



8. Reeves D, **Ryberg K, Bonanno R, Emery MS**. Effectiveness of a Community-based Pre-Participation Athletic ECG Screening Program at a Division I-Intercollegiate Program. AMSSM 24th Annual Meeting; 2015 April 14; Hollywood, FL, USA.
9. **Revilla, FJ**. Stiff-limb syndrome affecting the arm; case report. 6/18/15. International Parkinson and Movement Disorder Society 19th International Congress meeting. (poster presentation)
10. **Revilla, FJ**. Effect of Dorsal and Ventral Subthalamic Nucleus Deep Brain Stimulation on Actual and Perceived Sense of Postural Balance. *Neurology* 2014;82 (Meeting Abstracts): (P7.059).
11. **Revilla, FJ**. Computer-guided deep brain stimulation programming using automated motion sensor-based functional mapping. Movement Disorders Society Annual Meeting, 2015, San Diego, CA.
12. **Revilla, FJ**. Wearable sensors for quantifying deep brain stimulation washout effects on gait in Parkinson's disease. Movement Disorders Society Annual Meeting, 2015, San Diego, CA.
13. **Revilla, FJ**. Automated deep brain stimulation programming using motion sensors. *Movement Disorders* 2014;29 Suppl 1 :769.



GHS DEPARTMENT OF OBSTETRICS-GYNECOLOGY

PEER REVIEWED JOURNAL ARTICLES

1. Ahn SH, Edwards AK, Singh SS, Young SL, **Lessey BA**, Tayade C. IL-17A Contributes to the Pathogenesis of Endometriosis by Triggering Proinflammatory Cytokines and Angiogenic Growth Factors. *J Immunol*. 2015 Sep 15;195(6):2591-600. doi: 10.4049/jimmunol.1501138. Epub 2015 Aug 10. PubMed PMID: 26259585; PubMed Central PMCID: PMC4561197.
2. **Brazell HD**, O'Sullivan DM, Forrest A, and Greene JF. Effect of a decision aid on decision making for the treatment of pelvic organ prolapse. *Female Pelvic Med Reconstr Surg*, July/Aug 2015. PMID: 25521472.
3. Buery-Joyner SD, Dalrymple JL, Abbott JF, Craig LB, **Forstein DA**, Graziano SC, Hampton BS, Hopkins L, Page-Ramsey SM, Pradhan A, Wolf A. and McKenzie ML. Overcoming Electronic Medical Record Challenges on the Obstetrics and Gynecology Clerkship. © 2015 by The American College of Obstetricians and Gynecologists. Published by Wolters Kluwer Health, Inc. All rights reserved. ISSN: 0029-7844/15. Vol. 126, No. 3, September 2015, Pages 553-558.
4. Chapela PJ, Broaddus RR, Hawkins SM, **Lessey BA**, Carson DD. Cytokine Stimulation of MUC4 Expression in Human Female Reproductive Tissue Carcinoma Cell Lines and Endometrial Cancer. *J Cell Biochem*. 2015 Nov;116(11):2649-57. doi: 10.1002/jcb.25213. PubMed PMID: 25923310.
5. **Demosthenes LD, Eichelberger KY**. Outpatient cervical ripening: Has its time come? *Contemporary OB/GYN*. July 17, 2015.
6. **Eichelberger KY**, Morse JE, Connolly AM, Autry M. Opportunities and barriers in global women's health training during obstetrics and gynecology residencies in the USA. *International Journal of Gynecology and Obstetrics*. 2015 Feb;128(2):148-51. doi: 10.1016/j.ijgo.2014.08.016. Epub 2014 Oct 13.
7. **Eichelberger KY**. A prolonged second stage should prompt increased vigilance for postpartum maternal complications. *BJOG*. 2015 Mar 6. doi: 10.1111/1471-0528.13346. [Epub ahead of print] No abstract available. PMID: 25753042.
8. **Eichelberger KY**, Bengtson AM, Tolleson-Rinehart S, Menard MK. Training needs in operative obstetrics for maternal-fetal medicine fellows. *J Matern Fetal Neonatal Med*. 2015 Aug;28(12):1467-70. doi: 10.3109/14767058.2014.957669. Epub 2014 Sep 10.
9. Franasiak JM, Burns KA, Slayden O, Yuan L, Fritz MA, Korach KS, **Lessey BA**, Young SL. Endometrial CXCL13 expression is cycle regulated in humans and aberrantly expressed in humans and Rhesus macaques with endometriosis. *Reprod Sci*. 2015 Apr;22(4):442-51. doi: 10.1177/1933719114542011. PMID: 25031316. April 2015.



10. Gill SE, **Forstein DA**, **Helmrich GA**, **Mabie B**. Spontaneous Splenic Rupture Mimicking Placental Abruption in the second trimester: a Case report and review of the literature. *Journal of the South Carolina Medical Association* (1975). 2015 June; 111(2):41-76.
11. Gray SL, Lackey BR, **Boone WR**. Impact of kudzu and puerarin on sperm function. *Reprod Toxicol*. 2015 Mar 28;53:54-62. PubMed PMID: 25828059.
12. Hampton BS, Craig LB, Abbott JF, Buery-Joyner SD, Dalrympie JL, **Forstein DA**, Hopkins L, McKenzie ML, Page-Ramsey SM, Pradhan A, Wolf A, Graziano SC. To the Point: Teaching the obstetrics and gynecology medical student in the operating room. *American Journal of Obstetrics & Gynecology*. DOI: <http://dx.doi.org/10.1016/j.ajog.2015.04.002>. Published online April 6, 2015.
13. Heberlein E, **Picklesimer A**, **Covington-Kolb S**, Billings, D, Farber, N, Frongillo E. The Comparative Effects of Group Prenatal Care on Psychosocial Outcomes. *Archives of Women's Mental Health*. Published online 11 August 2015.
14. Hood BL, Liu B, Alkhas A, Shoji Y, Challa R, Wang G, Ferguson S, Oliver J, Mitchell D, Bateman NW, Zahn CM, Hamilton CA, Payson M, **Lessey B**, Fazleabas AT, Maxwell GL, Conrads TP, Risinger JI. Proteomics of the human endometrial glandular epithelium and stroma from the proliferative and secretory phases of the menstrual cycle. *Biol Reprod*. 2015 Apr;92(4):106. doi: 10.1095/biolreprod.114.127217. Epub 2015 Feb 18. PubMed PMID: 25695723.
15. Illston JD, **Wheeler TL**, Parker CR, Conner MG, Burgio KL, Goode PS, Richter HE. Low-dose 17- β -estradiol cream for vaginal atrophy in a cohort without prolapse: Serum levels and vaginal response including tissue biomarkers associated with tissue remodeling. *Maturitas*. 2015 Jun 5. pii: S0378-5122(15)00696-9. doi: 10.1016/j.maturitas.2015.05.010. [Epub ahead of print] PubMed PMID: 26115591.
16. Joshi NR, Su RW, Chandramouli GV, Khoo SK, Jeong JW, Young SL, **Lessey BA**, Fazleabas AT. Altered expression of microRNA-451 in eutopic endometrium of baboons (*Papio Anubis*) with endometriosis. *Hum Reprod*. 2015 Sep 14. Pii: dev229. (Epub ahead of print)
17. Kim BG, Yoo JY, Kim TH, Shin JH, Langenheim JF, Ferguson SD, Fazleabas AT, Young SL, **Lessey BA**, Jeong JW. Aberrant activation of signal transducer and activator of transcription-3 (STAT3) signaling in endometriosis. *Hum Reprod*. 2015 Mar 6. pii: dev050. [Epub ahead of print] PubMed PMID: 25750101.
18. Kim TH, Yoo JY, Wang Z, Lydon JP, Khatri S, Hawkins SM, Leach RE, Fazleabas AT, Young SL, **Lessey BA**, Ku BJ, Jeong JW. ARID1A Is Essential for Endometrial Function during Early Pregnancy. *PLoS Genet*. 2015 Sep 17;11(9):e1005537. doi: 10.1371/journal.pgen.1005537. eCollection 2015 Sep. PubMed PMID: 26378916; PubMed Central PMCID: PMC4574948.
19. **Lane A**, **Tyson A**, Thurston E. Providing Re-Essurance to the Nickel-Allergic Patient Considering Hysteroscopic Sterilization. *J Minim Invasive Gynecol*. 2015 Aug 7. pii: S1553-4650(15)00607-X. doi: 10.1016/j.jmig.2015.07.020. [Epub ahead of print] PubMed PMID: 26260300.



20. Lane AS, Stallworth JL, **Eichelberger KY, Trofatter KF**. Vitamin K Deficiency Embryopathy from Hyperemesis Gravidarum. Case Rep Obstet Gynecol. 2015;2015:324173. doi: 10.1155/2015/324173. Epub 2015 Aug 12. PubMed PMID: 26347836; PubMed Central PMCID: PMC4549487.
21. **Lee C**. Global Health: Case Report – Abdominal Pregnancy in a Low-Resource Setting. Copyright ^a by The American College of Obstetricians and Gynecologists. Published by Wolters Kluwer Health, Inc. Vol. 125, No. 5, May 2015 Obstetrics & Gynecology, Pgs. 1039-1040.
22. **Lessey BA**, Savaris RF, Ali S, Brophy S, Tomazic-Allen S, Chwalisz K. Diagnostic Accuracy of Urinary Cytokeratin 19 Fragment for Endometriosis. Reprod Sci. 2014 Oct 8;PubMed PMID: 25296695.
23. **Miller PB**, Savaris RF, **Forstein DA, Likes CE**, Nichols C, Cooper LJ, **Lessey BA**. Laparoscopic surgery improves pregnancy outcomes in women with suspected endometriosis with or without pathological confirmation. Clin. Exp. Obst. & Gyn. ISSN: 0390-6663. April 2015.
24. **Picklesimer A**, Heberlein E, **Covington-Kolb S**. Group Prenatal Care: Has its Time Come? Clin Obstet Gynecol. 2015 Mar 13;PubMed PMID: 25775438.
25. Su RW, Strug MR, Joshi NR, Jeong JW, Miele L, **Lessey BA**, et al. Decreased Notch pathway signaling in the endometrium of women with endometriosis impairs decidualization. J Clin Endocrinol Metab. 2014 Dec 29;PubMed PMID: 25546156.
26. Szwarc MM, Kommagani R, **Lessey BA**, Lydon JP. The p160/steroid receptor coactivator family: potent arbiters of uterine physiology and dysfunction. Biol Reprod. 2014 Nov;91(5):122. PubMed PMID: 25297546.
27. **Wheeler TL, Illston JD**, Markland AD, Goode PS, Richter HE. Life Space Assessment in Older Women Undergoing Non-Surgical Treatment for Urinary Incontinence. Open J Obstet Gynecol. 2014 Oct;4(14):809-816. PubMed PMID: 25525562; NIHMSID: NIHMS632934; PubMed Central PMCID: PMC4267061.

PEER REVIEWED JOURNAL ABSTRACTS

BOOK AND BOOK CHAPTERS

1. **Helmrich GA** (contributor/ reviewer). Menopause Practice: A Clinician's Guide, 5th Ed. Published 10/2014 – ISBN #987-0-692-26135-4.

REGIONAL/NATIONAL/INTERNATIONAL PRESENTATIONS

1. **Demosthenes L**: Teaching and Implementing Value in an ObGyn Training Program. Grand Rounds, Department of ObGyn, University of Oklahoma. Norman, Oklahoma. August 2015.



2. **Demosthenes L:** Teaching and Implementing Value in an ObGyn Training Program. Grand Rounds, Detroit Medical Center. Detroit, Michigan. September 2015.
3. **Forstein DA,** Thompson AM, Strafford K. Utilizing Improvisation to Improve Your Teaching. 2015 APGO Martin L. Stone, MD Faculty Development Seminar; 2015 January 10; Palm Springs, CA, USA.
4. **Forstein DA.** Evaluation in the ACGME System – A Webinar for Osteopathic Obstetrics and Gynecology Program Directors. 2015 APGO Martin L. Stone, MD Faculty Development Seminar. Palm Springs, California. January 17, 2015.
5. **Forstein DA,** Abbott JF, Page-Ramsey SM, Pradhan A. Journal Watch: Research in Medical Education-Planning a Path to Publication. 2015 CREOG/APGO Annual Meeting; 2015 March 04; San Antonio, TX, USA.
6. **Forstein DA:** 2015 Advanced Clerkship Directors’ School Part 301, Power Up: Energizing Teaching to the Pre-Clinical Student and Beyond-Faculty Member. 2015 CREOG/APGO Annual Meeting. San Antonio, Texas. March 4, 2015.
7. **Forestein DA,** Berkowitz LR. 21st Century Morbidity and Mortality Review: from Classic Conference to a Quality and Safety Curriculum. 2015 CREOG/APGO Annual Meeting; 2015 March 04; San Antonio, TX, USA.
8. **Forestein DA,** Jaspan D. ACGME Standards and Application/Qualification Process. 2015 CREOG/APGO Annual Meeting; 2015 March 04; San Antonio, TX, USA.
9. **Lessey BA.** Estrogen Dominance and Progesterone Resistance in Endometriosis and Infertility. Invited Oral - Estrogens, SERMS and TSECs Scientific Advisory Board Meeting 2015. Clearwater, Florida, April 27, 2015.
10. **Lessey BA.** Long-Term Management of Endometriosis- Improved and Individualized Approaches. American Society of Reproductive Medicine Annual Meeting; 2014 October 20; Honolulu, HI, USA.
11. **Lessey BA.** Optimal Management of PCOS. StartART, ART Innovations & Interventions. Las Vegas, Nevada. August 6-7, 2015.
12. **Lessey BA.** Endometriosis: Misconceptions & Treatment Strategies. StartART, ART Innovations & Interventions. Las Vegas, Nevada. August 6-7, 2015.
13. **Lessey BA.** Progesterone and Implantation. World Congress on Ovulation Induction. Bologna, Italy. September 2015



14. **Likes III CE, Roudebush W.** Society for Reproductive Biology and Technology (SRBT) Interactive Session--PGS Errors. American Society of Reproductive Medicine Annual Meeting; 2014 October 22; Honolulu, HI, USA.
15. **Miller PB.** The Impact of Surgery on Endometriosis-related Infertility. American Society of Reproductive Medicine Annual Meeting; 2014 October 20; Honolulu, HI, USA.
16. **Miller PB.** Reproductive Technology Today, Cycle of Life Series, St. John's Lutheran Church. Walhalla, South Carolina. November 2014.
17. **Miller PB.** Hormones and Cancer. Greenville Health System Life Center. Greenville, South Carolina. September 2015.
18. **Nuthalapaty FS.** "5 Pearls from Sir William Osler (or things that I wish someone had told me before I went to Medical School.)". Presented at Clemson University, Clinical Applications and Medical Practice Course. Clemson, South Carolina. February 2015. (local presentation)
19. **Nuthalapaty FS.** "Ethical Dilemmas in Obstetrics: Cases and Conclusions." Presented at the Premedical Association of Bob Jones University Ethics Conference. Greenville, South Carolina. March, 2015. (local presentation)
20. **Nuthalapaty FS.** "How to Navigate the Residency Selection Process." Presented at the South Carolina Upstate Chapter of the Christian Medical Dental Association. Greenville, South Carolina. May 2015. (local presentation)
21. **Picklesimer AH.** Strategies for inpatient LARC placement, in collaboration with Dr. Judy Burgis. South Carolina Birth Outcomes Initiative 3rd Annual Conference. Columbia, South Carolina. November 6, 2014.
22. **Picklesimer AH.** The South Carolina Centering Pregnancy Story. Missouri Birth Outcomes Initiative; 2014 November 14; MI, USA.
23. **Picklesimer AH.** The South Carolina Centering Pregnancy Story. Brown University Group Prenatal Care; 2014 November 09; Providence, RI, USA.
24. **Picklesimer AH.** Strategies for inpatient LARC placement. South Carolina Campaign to Prevent Teen Pregnancy Contraceptive Care Leadership Summit. Myrtle Beach, South Carolina. November 21, 2014.
25. **Picklesimer AH.** Insertion of LARC in the immediate post-partum period. Association of State and Territorial Health Officers Webinar. February 19, 2015.
26. **Picklesimer AH.** The South Carolina Centering Pregnancy Story, in collaboration with Dr. Judy Burgis. South Carolina Perinatal Association 22nd Annual Perinatal Partnership Conference. Concord, North Carolina. September 2015.



27. **Picklesimer AH.** Strategies for inpatient LARC placement, in collaboration with Dr. Judy Burgis. 69th Annual South Carolina OB-GYN Society Meeting. Hilton Head, South Carolina. September 2015.
28. **Picklesimer AH.** South Carolina Birth Outcomes Initiative. 69th Annual South Carolina OB-GYN Society Meeting. Hilton Head, South Carolina. September 2015.
29. **Wiper, DW.** The Patient Experience: How Do We Make Them Feel? Guest Lecturer, The SC MGMA Meeting. Greenville, South Carolina. March 2015.
30. **Wiper, DW.** Gestational Trophoblastic Neoplasia, Review, Update, and Case Presentation. Guest Lecturer, The Southeastern ObGyn Society Annual Meeting. Asheville, North Carolina. April 2015.
31. **Wiper, DW.** Back to Salpingectomy? Cancer Prevention, Birth Control, and More. Guest Lecturer, The Southeastern ObGyn Society Annual Meeting. Asheville, North Carolina. April 2015.

PEER REVIEWED MEETING ABSTRACTS

1. Chen L, **Heberlein E, Covington-Kolb S, Picklesimer A.** The impact of group compared to individual prenatal care on gestational Diabetes Mellitus: The South Carolina CenteringPregnancy Expansion Project. Poster Presentation, American Diabetes Association 75th Scientific Sessions. Boston, Massachusetts. June 2015.
2. Chen L, **Heberlein E, Covington-Kolb S, Picklesimer A.** The impact of group compared to individual prenatal care on Gestational Diabetes Mellitus: The South Carolina CenteringPregnancy Expansion Project. Poster Presentation, Society of Epidemiologic Research 48th Annual Meeting. Denver, Colorado. June 2015.
3. Fazleabas AT, Jeong JW, **Lessey BA** and Young SL. The Transcriptional Repressor BCL6 is a Diagnostic Biomarker for Endometriosis and Related Infertility. Society of Endometrium and Uterine Disorders Congress 2015, Endometriosis Research Session. Paris, France, May 9, 2015.
4. Gentry AL, Evans-Hoeker EA, **Lessey BA**, Yuan L, Young SL. Does the Endometrium Synthesize Progesterone? American Society of Reproductive Medicine Annual Meeting; 2014 October 22; Honolulu, HI, USA. [P-483].
5. **Gurich DT, Forstein DA, Gill S, Miller P, Likes C, Higdon HL.** 2014. In vitro fertilization poor responders: is intrauterine insemination better than oocyte retrieval. American Society for Reproductive Medicine Annual Meeting, Honolulu, Hawaii. October 17-20, 2014.



6. **Heberlein E, Covington-Kolb S, Picklesimer AH.** “The Impact of Group Prenatal Care on Breastfeeding Decisions.” Association of Maternal and Child Health Programs Annual Conference. Washington DC. January 25-26, 2015.
7. **Lessey BA, Jeong J, Yoo JY, Langenheim JF, Fazleabas AT, Young SL, Tayade C.** [P-484] Protein Inhibitor of Activated Stat-3 (PIAS-3) is Down-Regulated in Eutopic Endometrium of Infertile Women with Endometriosis by Stromal-Derived CXCL10 (IP-10). Poster Session: Endometrium. American Society of Reproductive Medicine Annual Meeting. Honolulu, Hawaii. Wednesday, October 22, 2014 7:00 am.
8. **Lessey BA, Jeong, JW, Yoo JY, Fazleabas, AT, Young SL.** Silent Mating Type Information Regulation 1 (Sirtuin-1; SIRT1) is Over-expressed in Eutopic Endometrium of Endometriosis. Society for Reproductive Investigation 2015 Annual Meeting, San Francisco, California, March 24-29, 2015.
9. **Likes CE, Crowe RC, Lessey BA, Forstein DA, Miller PB, Roudebush WE.** Increased Rate of Oocyte Loss in PCOS Patients Corresponds to Diminished Fecundity Compared to Non-PCOS Patients. Society for Reproductive Investigation 2015 Annual Meeting, San Francisco, California, March 24-29, 2015.
10. **Miller PB, O'Donnell LM, Likes CE, Forstein DA, Roudebush WE, Savaris RF, Lessey BA.** Short-term Benefits of Endometrial Biopsy are Similar to Diagnostic Laparoscopy for Unexplained Infertility. Society for Reproductive Investigation 2015 Annual Meeting, San Francisco, California, March 24-29, 2015.
11. **Paden MM, Mills BB.** Comparison of Female Sterilization Methods: A Study of Procedure Success and Cost in a Low-Income Population. Accepted to the 43rd AAGL Global Congress on Minimally Invasive Gynecology for Oral Presentation. Vancouver, British Columbia. November 17-21, 2014.
12. **Picklesimer AH, Boggess K, Heberlein E, Moss K.** “CenteringPregnancy Group Prenatal Care Does Not Change Biomarker or Self-Reported Stress Measures.” Poster Presentation, Society for Maternal-Fetal Medicine, 35th Annual Meeting in San Diego, California. February 5, 2015.
13. Van De Griend K, Billings D, Covington-Kolb S, Marsh N, Kelley S, **Picklesimer A.** Scaling up CenteringPregnancy across South Carolina. Oral Presentation. CityMatCH Annual Urban MCH Leadership Conference. Salt Lake City, Utah. September 2015.
14. **Roudebush WE, Williams SE, Forstein DA, Lessey BA, Likes III CE, Miller PB.** [P-516] Predicting Implantation Potential using Morphometric Analysis of Blastocysts and Calculating for PHI to Determine a Reference Point. Poster Session: Art – Clinical. American Society of Reproductive Medicine Annual Meeting. Honolulu, Hawaii. Wednesday, October 22, 2014 7:00 am.



15. Young SL, Evans-Hoeker EA, Jeong J, Yoo JY., Savaris R, **Lessey BA**. [O-28] B-Cell Lymphoma Protein 6 (bcl-6): A Novel Diagnostic Marker for Endometriosis. Oral Session: Endometriosis I. American Society of Reproductive Medicine Annual Meeting. Honolulu, Hawaii. Monday, October 20, 2014 5:45 pm.



GHS DEPARTMENT OF ORTHOPAEDICS (INCLUDING PROAXIS)

PEER REVIEWED JOURNAL ARTICLES

1. **Adams JD Jr, Tanner SL, Jeray KJ.** Far cortical locking screws in distal femur fractures. *Orthopedics*. 2015 Mar;38(3):e153-6. doi: 10.3928/01477447-20150305-50. PubMed PMID: 25760500.
2. Aneja A, Yang E, Briscoe M, Graves ML, **Porter SE**, et al. Intramedullary Nailing of Femur Fractures in the Obese: A Retrospective Comparison of Patients with Normal Weight versus the Obese. *Austin Journal of Trauma Treatment*. 2014 October; 1(1).
3. Bailey LB, Beattie PF, **Shanley E**, Seitz AL, **Thigpen CA**. Current rehabilitation applications for shoulder ultrasound imaging. *J Orthop Sports Phys Ther*. 2015 May;45(5):394-405. doi: 10.2519/jospt.2015.4232. Epub 2015 Jan 27. PubMed PMID: 25627156.
4. Bergin PF, Kneip C, Pierce C, Hendrix ST, **Porter SE**, Graves ML, Russell GV. Modifier 22 for acetabular fractures in morbidly obese patients: does it affect reimbursement? *Clin Orthop Relat Res*. 2014 Nov;472(11):3370-4. doi: 10.1007/s11999-014-3639-1. PubMed PMID: 24777721; PubMed Central PMCID: PMC4182419.
5. Broome CB, **Burnikel B**. Novel strategies to improve early outcomes following total knee arthroplasty: a case control study of intra articular injection versus femoral nerve block. *Int Orthop*. 2014 Oct;38(10):2087-9. PubMed PMID: 24938586.
6. Burgers PT, Poolman RW, Van Bakel TM, Tuinebreijer WE, Zielinski SM, Bhandari M, Patka P, Van Lieshout EM; HEALTH and FAITH Trial Investigators (**Jeray KJ, Goetz DR, Pace TB, Schaller TM, Porter SE, Tanner SL, Snider RG, Nastoff LA, Bielby SA**). Reliability, validity, and responsiveness of the Western Ontario and McMaster Universities Osteoarthritis Index for elderly patients with a femoral neck fracture. *J Bone Joint Surg Am*. 2015 May 6;97(9):751-7. doi: 10.2106/JBJS.N.00542. PubMed PMID: 25948522.
7. Cook JB, **Tokish JM**. Surgical management of acromioclavicular dislocations. *Clin Sports Med*. 2014 Oct;33(4):721-37. doi: 10.1016/j.csm.2014.06.009. Epub 2014 Aug 23. PubMed PMID: 25280619.
8. Dickens JF, Owens BD, Cameron KL, Kilcoyne K, Allred CD, Svoboda SJ, Sullivan R, **Tokish JM**, Peck KY, Rue JP. Return to play and recurrent instability after in-season anterior shoulder instability: a prospective multicenter study. *Am J Sports Med*. 2014 Dec;42(12):2842-50. doi: 10.1177/0363546514553181. Epub 2014 Nov 5. PubMed PMID: 25378207.
9. Ernat JJ, Song DJ, Brugman SC, Shaha SH, **Tokish JM**, Lee GY. Mental Health Medication Use Correlates with Poor Outcome After Femoroacetabular Impingement Surgery in a Military Population. *J Bone Joint Surg Am*. 2015 Aug 5;97(15):1272-7. doi: 10.2106/JBJS.O.00043. PubMed PMID: 26246262.



10. Gottschalk MB, Premkumar A, Sweeney K, Boden SD, Heller J, Yoon ST, Rhee JM, Leckie SK, Braly B, Simpson AK, Lenehan E. Posterolateral Lumbar Arthrodesis With and Without Interbody Arthrodesis for L4-L5 Degenerative Spondylolisthesis: A Comparative Value Analysis. *Spine (Phila Pa 1976)*. 2015 Jun 15;40(12):917-25. doi: 10.1097/BRS.0000000000000856. PubMed PMID: 26070040.
11. Hagen JE, Miller AN, Ott SM, Gardner M, Morshed S, **Jeray K**, Alton TB, Ren D, Abblitt WP, Krieg JC. Association of atypical femoral fractures with bisphosphonate use by patients with varus hip geometry. *J Bone Joint Surg Am*. 2014 Nov 19;96(22):1905-9. doi: 10.2106/JBJS.N.00075. PubMed PMID: 25410509.
12. **Jeray KJ**, Frick SL. A Survey of Resident Perspectives on Surgical Case Minimums and the Impact on Milestones, Graduation, Credentialing, and Preparation for Practice: AOA Critical Issues. *J Bone Joint Surg Am*. 2014 Dec 3;96(23):e195. PubMed PMID: 25471921.
13. Mellema JJ, Doornberg JN, Guitton TG, Ring D; Science of Variation Group (**Jeray KJ, Palmer MJ**). Biomechanical studies: science (f)or common sense? *Injury*. 2014 Dec;45(12):2035-9. doi: 10.1016/j.injury.2014.09.014. Epub 2014 Sep 28. PubMed PMID: 25306381.
14. Noonan TJ, **Shanley E**, Bailey LB, **Wyland DJ**, **Kissenberth MJ**, **Hawkins RJ**, **Thigpen CA**. Professional Pitchers With Glenohumeral Internal Rotation Deficit (GIRD) Display Greater Humeral Retrotorsion Than Pitchers Without GIRD. *Am J Sports Med*. 2015 Jun;43(6):1448-54. doi: 10.1177/0363546515575020. Epub 2015 Mar 25. PubMed PMID: 25807953.
15. Owens BD, **Tokish JM**, Provencher MT. Dedication. *Clin Sports Med*. 2014 Oct;33(4):xvii-xviii. doi: 10.1016/j.csm.2014.07.002. Epub 2014 Sep 22. PubMed PMID: 25280624.
16. **Pace T**, Finley S, Snider R, Looper J, Tanner S. Short-Term Results of Novel Constrained Total Hip Arthroplasty. *Orthop Rev (Pavia)*. 2015 Jun 15;7(2):5779. doi: 10.4081/or.2015.5779. eCollection 2015 Jun 3. PubMed PMID: 26330992; PubMed Central PMCID: PMC4508557.
17. **Pappas ND**. Commentary on "biomechanical comparison of bicortical locking versus unicortical far-cortex-abutting locking screw-plate fixation for comminuted radial shaft fractures". *J Hand Surg Am*. 2014 Oct;39(10):1914. PubMed PMID: 25257485.
18. Shaha JS, Cook JB, Song DJ, Rowles DJ, Bottoni CR, Shaha SH, **Tokish JM**. Redefining "Critical" Bone Loss in Shoulder Instability: Functional Outcomes Worsen With "Subcritical" Bone Loss. *Am J Sports Med*. 2015 Jul;43(7):1719-25. doi: 10.1177/0363546515578250. Epub 2015 Apr 16. PubMed PMID: 25883168.
19. **Shanley E**, **Kissenberth MJ**, **Thigpen CA**, Bailey LB, **Hawkins RJ**, Michener LA, **Tokish JM**, Rauh MJ. Preseason shoulder range of motion screening as a predictor of injury among youth and adolescent baseball pitchers. *J Shoulder Elbow Surg*. 2015 Jul;24(7):1005-13. doi: 10.1016/j.jse.2015.03.012. Epub 2015 May 5. PubMed PMID: 25957112.
20. Tabbaa SM, Horton CO, **Jeray KJ**, Burg KJ. Role of vascularity for successful bone formation and repair. *Crit Rev Biomed Eng*. 2014;42(3-4):319-48. Review. PubMed PMID: 25597242.



21. **Thigpen CA**, Noonan TJ, **Shanley E**, Bailey LB, **Wyland DJ**, **Kissenberth M**, **Hawkins RJ**. Humeral Retrotorsion in Pitchers With GIRD: Response. *Am J Sports Med.* 2015 Jul;43(7):NP19-20. doi: 10.1177/0363546515591557. PubMed PMID: 26129963.
22. Thigpen CA, Shaffer MA, **Kissenberth MJ**. Knowing the Speed Limit: Weighing the Benefits and Risks of Rehabilitation Progression After Arthroscopic Rotator Cuff Repair. *Clin Sports Med.* 2015 Apr;34(2):233-246. PubMed PMID: 25818711.
23. Watson ST, **Wyland DJ**. Return to play after nonoperative management for a severe type III acromioclavicular separation in the throwing shoulder of a collegiate pitcher. *Phys Sportsmed.* 2015 Feb;43(1):99-103. PubMed PMID: 25582873.

PEER REVIEWED JOURNAL ABSTRACTS

BOOK AND BOOK CHAPTERS

REGIONAL/NATIONAL/INTERNATIONAL PRESENTATIONS

1. **Jeray KJ**. Own the Bone®: The AOA Initiative to Improve Bone Health – Understanding the Pathophysiology of Metabolic Bone Disease and Fracture Liaison Service. North American Spine Society; 2014 November; San Francisco, CA, USA.
2. **Gudger Jr GK**, **Schaller TM**, **McHenry TP**, **Teasdall RJ**, **Tanner SL**. Two Generations Of Intramedullary Nails For Diaphyseal Lower Extremity Fractures. Southern Orthopaedic Association Annual Meeting, Asheville, NC, July 15-18, 2015.
3. **Torres EG**, **Burnikel BG**, Anderson A, Broome CB, **Geary S**. Liposomal Membrane Bound Bupivacaine Versus Femoral Nerve Catheter For TKA. Southern Orthopaedic Association Annual Meeting, Asheville, NC, July 15-18, 2015.
4. **Shanley E**. Association of Torsion, ROM, and Little Leaguer’s Shoulder and Elbow. Southern Orthopaedic Association Annual Meeting, Asheville, NC, July 15-18, 2015.
5. **Kissenberth M**. Differences in Pitchers’ UCL Morphology and Elbow gapping following reconstruction. Southern Orthopaedic Association Annual Meeting, Asheville, NC, July 15-18, 2015.
6. **Shanley E**. Left-handed Pitchers ROM and Torsion Adapt Differently Than Right-handed Pitcher. Southern Orthopaedic Association Annual Meeting, Asheville, NC, July 15-18, 2015.



7. **Thigpen C.** Humeral Torsion Adaptation in Little League Pitchers Compared to Adolescents. Southern Orthopaedic Association Annual Meeting, Asheville, NC, July 15-18, 2015.
8. Gutta CS. Biceps Tenodesis Superior To Tenotomy In Young Large Cuff Repairs. Southern Orthopaedic Association Annual Meeting, Asheville, NC, July 15-18, 2015.
9. Swinehart SD. Biceps Tenodesis Superior to Tenotomy in Massive Irreparable Cuff Tears. Southern Orthopaedic Association Annual Meeting, Asheville, NC, July 15-18, 2015.
10. **Tokish JT.** Intergluteal Stripe Is Associated with Outcome after Endoscopic abductor Repair. Southern Orthopaedic Association Annual Meeting, Asheville, NC, July 15-18, 2015.

PEER REVIEWED MEETING ABSTRACTS



GHS DEPARTMENT OF PAEDIATRICS

PEER REVIEWED JOURNAL ARTICLES

1. Anderson AW, Smith PB, Corey KM, Hill KD, Zimmerman KO, **Clark RH**, Hornik CP. Clinical outcomes in very low birth weight infants with major congenital heart defects. *Early Hum Dev.* 2014 Dec;90(12):791-5. doi: 10.1016/j.earlhumdev.2014.09.006. Epub 2014 Oct 16. PubMed PMID: 25463822; PubMed Central PMCID: PMC4312193.
2. Arnold CJ, Ericson J, Cho N, Tian J, Wilson S, Chu VH, Hornik CP, **Clark RH**, Benjamin DK Jr, Smith PB; Best Pharmaceuticals for Children Act – Pediatric Trials Network Administrative Core Committee. Cefepime and Ceftazidime Safety in Hospitalized Infants. *Pediatr Infect Dis J.* 2015 Sep;34(9):964-8. doi: 10.1097/INF.0000000000000778. PubMed PMID: 26376308; PubMed Central PMCID: PMC4573537.
3. Arnold CJ, Ericson J, Kohman J, Corey KL, Oh M, Onabanjo J, Hornik CP, **Clark RH**, Benjamin DK Jr, Smith PB, Chu VH; Best Pharmaceuticals for Children Act–Pediatric Trials Network Administrative Core Committee. Rifampin use and safety in hospitalized infants. *Am J Perinatol.* 2015 May;32(6):565-70. doi: 10.1055/s-0034-1543955. Epub 2015 Jan 16. PubMed PMID: 25594217; PubMed Central PMCID: PMC4433596.
4. Autmizguine J, Hornik CP, Benjamin DK Jr, Laughon MM, **Clark RH**, Cotten CM, Cohen-Wolkowicz M, Benjamin DK, Smith PB; Best Pharmaceuticals for Children Act—Pediatric Trials Network Administrative Core Committee. Anaerobic antimicrobial therapy after necrotizing enterocolitis in VLBW infants. *Pediatrics.* 2015 Jan;135(1):e117-25. doi: 10.1542/peds.2014-2141. Epub 2014 Dec 15. PubMed PMID: 25511117; PubMed Central PMCID: PMC4279070.
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REGIONAL/NATIONAL/INTERNATIONAL PRESENTATIONS

1. **Anderson AR**. Invited Speaker, 2nd Global Congress on Sickle Cell Disease. Rio de Janeiro, Brazil. November, 2014. Presentation: "Sickle Cell Disease in Rural Mali: Initial results from 3 years of systematic infant screening."
2. Bronicki L, **Everman DB**, Bellomo A, McGee S, Kubiak K, Hunnicutt A, Jones JR, Friez MJ. Compound Heterozygous Mutations in ZNF335 Suggest Phenotypic Variability of the Primary Microcephaly-10 Syndrome. Poster presentation (not presented by D. Everman) at the 2015 American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting, Salt Lake City, UT, March, 2015.



3. **Buchanan A.** The ABCs of medical student education: Fundamentals for Pediatric Educators. Council on Medical Student Education National Meeting, New Orleans, LA. March 2015.
4. **Buchanan A.** Incorporating Interprofessional Education (IPE) Activities into your medical school curriculum. Council on Medical Student Education National Meeting, New Orleans, LA. March 2015.
5. **Buchanan A.** Preparing for Accreditation: What a clerkship director needs to know. Council on Medical Student Education National Meeting, New Orleans, LA. March 2015.
6. **Dancel, L.** My Tummy Hurts: Chronic Abdominal Pain for the Primary Care Pediatrician. SCAAP Annual Meeting, Asheville, NC, July 2015
7. **Everman DB.** Dysmorphology from Head to Toe; Lecture for the Master's Training Program in Genetic Counseling at the Johns Hopkins Bloomberg School of Public Health and the National Human Genome Research Institute; lecture done by videoconference from Greenwood, SC, October 10, 2014
8. Jones JR, Rhodenizer D, McGee S, Kubiak K, Bartel F, Bronicki L, Cooley J, Saski C, Basehore MJ, Bellomo A, Eriksen B, **Everman DB**, Friez MJ. Validation and Implementation of Diagnostic Whole Exome Sequencing Using the NextSeq[®] 500 Sequencing System. Poster presentation (not presented by D. Everman) at the 2015 American College of Medical Genetics and Genomics Annual Clinical Genetics Meeting, Salt Lake City, UT, March, 2015.
9. **Hudson J.** Jousting Jaundice: The Impact of Baby-Friendly Hospital Practices on Rates of Neonatal Indirect Hyperbilirubinemia. American Academy of Pediatrics National Conference and Exposition; 2014 October; San Diego, CA, USA.
10. **Hudson J.** Improving Timeliness of Hepatitis B Vaccine Administration for Newborns. American Academy of Pediatrics National Conference and Exposition; 2014 October; San Diego, CA, USA.
11. **Hudson J.** Substance Use and Dependence During Pregnancy: Tools You Can Use. 2014 South Carolina Birth Outcomes Initiative Symposium; Columbia SC, Nov 2014
12. **Hudson J.** Outcomes Related to the Baby-Friendly Process: Clinical and Financial Advantages. 2014 South Carolina Birth Outcomes Initiative Symposium; Columbia SC, Nov 2014
13. **Hudson J.** Managing Abstinence in Newborns: A Palliative Approach for Level I Nurseries. Pediatric Grand Rounds, Wake Forest Brenner Children's Hospital; Winston-Salem NC, Dec 2014
14. **Saul RA.** Genetics in Primary Care: Evaluation and Referral. Sanford Children's Hospital Pediatric House Staff; 2014 November 20; Sioux Falls, SD, USA.
15. **Saul RA.** Genetics in Primary Care. 7th Annual Denny Sanford Pediatric Symposium; 2014 November 21; Sioux Falls, SD, USA.



16. **White J.** Pediatric Ophthalmology Update, SCNA (South Carolina Nursing Association) Annual Convention, Greenville, SC, October, 2014

PEER REVIEWED MEETING ABSTRACTS

1. **Casanova MF.** A statistical framework for the classification of infant DT images. TEC-P5 Classification of Medical Images. IEEE International Conference on Image Processing, Paris, France, October 27-30, 2014. *(publication prior to employment with GHS)*
2. **Casanova MF.** An integrated geometrical and stochastic approach for accurate infant brain extraction. TEC-P8 Biomedical Image Processing. Paris, France, October 27-30, 2014. *(publication prior to employment with GHS)*
3. Opris I, Dragoi D, Stoica A, Sokhadze E, **Casanova MF** (2015) Noninvasive Nanomagnetic Approach for Prefrontal Cortical Microcircuit Mapping. 12th World Congress on Brain Mapping and Therapeutics, Los Angeles, USA, March 6-8, 2015. *(publication prior to employment with GHS)*



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PEER REVIEWED JOURNAL ARTICLES

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1. Topoluk N, Collins J, Schammel D, Schammel C, Lynn M, **Madeline L**. Pre-Operative Radiographic Prediction of Gross Total Resection of Pituitary Adenomas. 38th ESNR Annual Meeting 28 Congresso AINR; 2015 September. Naples, Italy. (poster presentation)
2. Topoluk N, Collins J, **Madeline L**, Schammel D, Schammel C, Lynn M. Comparison of Outcomes Between Microscopic Transsphenoidal and Transnasal Transsphenoidal Endoscopic Resection of Pituitary Adenomas. World Federation of Neurosurgical Societies 15th Interim Meeting; 2015 September. Rome, Italy. (poster presentation)

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1. **Alexander NS**, Liu JZ, Bhushan B, Holinger LD, Schroeder JW Jr. Postoperative Observation of Children after Endoscopic Type 1 Posterior Laryngeal Cleft Repair. *Otolaryngol Head Neck Surg* 2015 Jan;152(1):153-8. Epub 2014 Nov 5;PubMed PMID: 25378373.
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4. **Bolton WD, Richey J, Ben-Or S, Hale AL, Ewing JA, Stephenson JE**. Electromagnetic Navigational Bronchoscopy: A Safe and Effective Method for Fiducial Marker Placement in Lung Cancer Patients. *Am Surg*. 2015 Jul;81(7):659-62. PubMed PMID: 26140883.
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15. **Davis JR**, Hale AL, **Smith DE**. Jet Ski Hydrostatic Perineal Injuries from a Level I Trauma Experience. *Am Surg*. 2015 Jul;81(7):282-3. PubMed PMID: 26140877.
16. **Eckenrode AH**, Ewing JA, Kotrady J, Hale AL, **Smith DE**. HIDA Scan with Ejection Fraction Is over Utilized in the Management of Biliary Dyskinesia. *Am Surg*. 2015 Jul;81(7):669-73. PubMed PMID: 26140885.
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26. Introduction/Steering Committee; Task Force 1: Training in Ambulatory, Consultative, and Longitudinal Cardiovascular Care; Task Force 2: Training in Preventive Cardiovascular Medicine; Task Force 3: Training in Electrocardiography, Ambulatory Electrocardiography, and Exercise Testing; Task Force 4: Training in Multimodality Imaging; Task Force 5: Training in Echocardiography; Task Force 6: Training in Nuclear Cardiology; Task Force 7: Training in Cardiovascular Computed Tomographic Imaging; Task Force 8: Training in Cardiovascular Magnetic Resonance Imaging; Task Force 9: Training in Vascular Medicine; Task Force 10: Training in Cardiac Catheterization; Task Force 11: Training in Arrhythmia Diagnosis and Management, Cardiac Pacing, and Electrophysiology; Task Force 12: Training in Heart Failure; Task Force 13: Training in Critical Care Cardiology; Task Force 14: Training in Care of Adult Patients with Congenital Heart Disease; Task Force 15: Training in Cardiovascular Research and Scholarly Activity; Task Force 1 Training in Ambulatory Consultative and Longitudinal Cardiovascular Care; Task Force 2 Training in Preventive Cardiovascular Medicine; Task Force 3 Training in Electrocardiography Ambulatory Electrocardiography and Exercise Testing; Task Force 4 Training in Multimodality Imaging; Task Force 5 Training in Echocardiography; Task Force 6 Training in Nuclear Cardiology; Task Force 7 Training in Cardiovascular Computed Tomographic Imaging; Task Force 8 Training in Cardiovascular Magnetic Resonance Imaging; Task Force 9 Training in Vascular Medicine; Task Force 10 Training in Cardiac Catheterization; Task Force 11 Training in Arrhythmia Diagnosis and Management Cardiac Pacing and Electrophysiology; Task Force 12 Training in Heart Failure; Task Force 13 Training in Critical Care Cardiology; Task Force 14 Training in Care of Adult Patients with Congenital Heart Disease; Task Force 15 Training in Cardiovascular Research and Scholarly Activity. ACC 2015 Core Cardiovascular Training Statement (COCATS 4) (Revision of COCATS 3): A Report of the ACC Competency Management Committee (**Gray BH**, et al). *J Am Coll Cardiol*. 2015 May 5;65(17):1721-3. Epub 2015 Mar 13. PMID: 25777652
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29. **Koleilat I, Moore E, Hanover T, Eidt J**. An unusual cause of spinal cord ischemia after thoracic endovascular repair. *Vascular*. 2015 Jan 6;PubMed PMID: 25564598.



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32. **McKinley B**, Lehtinen S, Davis S, Collins J, Blackhurst D, Schammel CM, Schammel DP, **Trocha SD**. Management of periampullary adenocarcinoma by pancreaticoduodenectomy at a regional teaching hospital. *J Gastrointest Oncol*. 2015 Aug;6(4):389-95. doi: 10.3978/j.issn.2078-6891.2015.004. PubMed PMID: 26261725; PubMed Central PMCID: PMC4502159.
33. Mitchell EL, **Eidt JF**, Rhodes RS, Valentine RJ; Vascular Surgery Milestone Working Group. The Vascular Surgical Milestones Project. *J Vasc Surg* 2015;62(1):251-5. Epub 2015 May 2. PMID: 25943453
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42. **Warren JA**, Ewing JA, Hale AL, Blackhurst DW, **Bour ES**, Scott JD. Cost-effectiveness of Bariatric Surgery: Increasing the Economic Viability of the Most Effective Treatment for Type II Diabetes Mellitus. *Am Surg*. 2015 Aug;81(8):807-11. PubMed PMID: 26215244.
43. **Warren JA**, Epps M, Debrux C, Fowler JL 3rd, Ewing JA, **Cobb WS 4th**, **Carbonell AM**. Surgical Site Occurrences of Simultaneous Panniculectomy and Incisional Hernia Repair. *Am Surg*. 2015 Aug;81(8):764-9. PubMed PMID: 26215237.
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46. **Wells J**, Miller M, Perry B, Ewing JA, Hale AL, **Scott JD**. Preservation of Fat-free Mass after Bariatric Surgery: A Comparison of Malabsorptive and Restrictive Procedures. *Am Surg*. 2015 Aug;81(8):812-5. PubMed PMID: 26215245.
47. Weyhe D, **Cobb W**, Lecuivre J, Alves A, Ladet S, Lomanto D, Bayon Y. Large pore size and controlled mesh elongation are relevant predictors for mesh integration quality and low shrinkage - Systematic analysis of key parameters of meshes in a novel minipig hernia model. *Int J Surg* 2015 Oct;22:46-53. Epub 2015 Aug 12. PubMed PMID: 26277532.

PEER REVIEWED JOURNAL ABSTRACTS

1. Goldman MP, Stafford J, Huber TS, **Eidt JF**, Hansen KJ, Naslund TC, **Taylor SM**, Endean ED, Edwards MS. Vascular Mock Oral Exams: A Review of the 8-Year Experience of the SAVS Mock Oral Program. *J Vasc Surg*. 2014 Dec; 60(6):1727.
2. Sheahan MG, Bismuth J, Lee JT, Shames ML, Sheahan C, Rigberg DA, Victoria SE, **Eidt J**. The Fundamentals of Vascular Surgery: Establishing the Metrics of Essential Skills in Vascular Surgery Trainees. *J Vasc Surg* 2015;61(6):111S-112S.



BOOK AND BOOK CHAPTERS

1. **Eidt JF**. Gracilis Flap for treatment of complex groin wounds; Proceedings of the Northwestern Vascular Symposium, 2014. Mark Eskandari, MD, William H. Pearce, MD, James S.T. Yao, MD, PhD, Eds. Current Vascular Surgery 2014. Shelton, CT, Peoples Medical Publishing House-USA, December 2014.
2. **Stanbro MD**, Dean S. Scientific American vascular and endovascular surgery. Valentine RJ, Eidt JF, editors. Online: Decker Intellectual Properties; 2015. Primary lymphedema.
3. **Stanbro MD**, Chastain SL. Color Atlas and Synopsis of Vascular Disease. Dean SM, Satiani B, editors. China: McGraw-Hill Education; 2014. Leg Swelling Secondary to Muscle Rupture; p.312-315.

REGIONAL/NATIONAL/INTERNATIONAL PRESENTATIONS

1. **Bhatia G, Wright C**. Analysis of Patients undergoing Coronary Artery Bypass Grafting who have had Prior Percutaneous Coronary Intervention. Southeastern Surgical Congress; 2015 February 21; Chattanooga, TN, USA.
2. **Blas J**. Re-Recurrent SFA Stent Graft Thrombosis. VIVA Conference, Las Vegas, NV, Nov. 4-7, 2014.
3. **Bolton WD, Richey J, Ben-Or S**, Hale AL, Ewing JA, **Stephenson JE**. Electromagnetic navigational bronchoscopy: A safe and effective method for fiducial marker placement in lung cancer patients. Southeastern Surgical Congress, Chattanooga, TN, Feb. 21-24, 2015.
4. **Davis JR**, Bush S, Ewing JA, Hale AL, **Rex JC**. Using IV Acetaminophen within an Accelerated Recovery Program for Colorectal Surgery Patients: Does it make a difference? World Congress of Enhanced Recovery after Surgery, Washington, D.C., May 9-12 2015.
5. **Carbonell AM**. Use of Pneumoperitoneum for Hernias with Loss of Domain. Mexican Association of Surgeons; 2014 October 15; Ciudad Leon, Guanajuato, Mexico.
6. **Carbonell AM**. Complex Ventral Hernia Repair Using a Bioabsorbable Material. Preliminary Results of a Prospective Multi-center Trial (COBRA). New Options in Surgery of the Abdominal Wall, Madrid, Spain, Oct. 9, 2014.
7. **Carbonell AM**. Sugarbaker Parastomal Hernia Repair. Best Videos From the Past. American College of Surgeons, San Francisco, CA, Oct. 25-30, 2014.
8. **Carbonell AM**. COBRA Data – Long-term Clinical Outcomes and Lessons Learned. Hernia Round Table and Symposium, W.L. Gore and Associates, Huntington Beach, CA, Oct. 25, 2014.
9. **Carbonell AM**. Financial Implications of Biologics and Biosynthetic Mesh. Hernia Round Table and Symposium, W.L. Gore and Associates, Huntington Beach, CA, Oct. 25, 2014.



10. **Carbonell AM.** Clean Contaminated and Contaminated Hernias – What Mesh Can I Use? American College of Surgeons, San Francisco, CA, Oct. 25-30, 2014.
11. **Carbonell AM.** Acute Hernia Emergencies: Incarcerated and Strangulated Hernias. Emergency General Surgery Update Postgraduate Course, American College of Surgeons, San Francisco, CA, Oct. 25-30, 2014.
12. **Carbonell AM.** Robotic Component Separation Technique. Society of Robotic Surgery, Orlando, FL, Feb. 19-21, 2015.
13. **Carbonell AM.** Laparoscopic Management of Parastomal Hernias. Abdominal Wall Reconstruction Summit, Vail, CO, Feb. 26-28, 2015.
14. **Carbonell AM.** Laparoscopic Management of Atypical Hernias. Abdominal Wall Reconstruction Summit, Vail, CO, Feb. 26-28, 2015.
15. **Carbonell AM.** Pneumoperitoneum: When and How? Abdominal Wall Reconstruction Summit, Vail, CO, Feb. 26-28, 2015.
16. **Carbonell AM.** Robotic Rives-Stoppa Incisional Hernia Repair. Abdominal Wall Reconstruction Summit, Vail, CO, Feb. 26-28, 2015.
17. **Carbonell AM.** Robotic Ventral Hernia Repair. Abdominal Wall Reconstruction Summit, Vail, CO, Feb. 26-28, 2015.
18. **Carbonell AM.** The Extraperitoneal Approach to Incisional Hernia Repair. 1st World Congress on Abdominal Wall Hernia Surgery, Milan, Italy, April 25-29, 2015.
19. **Carbonell AM.** Early Results of the Robotic Retromuscular Incisional Hernia Repair Technique. 1st World Congress on Abdominal Wall Hernia Surgery, Milan, Italy, April 25-29, 2015.
20. **Carbonell AM.** Synthetic Mesh: No Boundaries? Abdominal Wall Reconstruction Conference. MedStar Georgetown University Hospital, Washington, DC, June 4-6, 2015.
21. **Carbonell AM.** Robotic Component Separation. Is There a Benefit? Abdominal Wall Reconstruction Conference. MedStar Georgetown University Hospital, Washington, DC, June 4-6, 2015.
22. **Carsten III CG.** Contemporary Management of Access-Related Limb Ischemia. American College of Surgeons; 2014 October 26; San Francisco, CA, USA.
23. Cavallo JA, Yan Y, Poulouse BK, Matthews BD, **Cobb WS, Carbonell AM,** Novitsky YW, Rosen MJ. A Risk Prediction Model for Ventral Hernia Recurrence and Surgical Site Occurrences Requiring Procedural Intervention Following Ventral Hernia Repair in Clean-Contaminated and Contaminated Surgical Sites. Hernia Repair 2014, Americas Hernia Society. Las Vegas, NV. March 12-15, 2014.



24. **Cobb WS.** Transversus Abdominis Release for Complex Hernia Repair. Ethicon. October 1, 2014.
25. **Cobb WS, Warren J,** Burnikel A, Merchant M, Ewing A, **Carbonell AM,** et al. Open Retromuscular Mesh Repair of Complex Incisional Hernia: Predictors of Wound Events and Recurrence. Southern Surgical Association 126th Annual Meeting; 2014 December 02; Palm Beach, FL, USA.
26. **Cobb WS.** Options for Contaminated Incisional Hernia Repair. Grand Rounds, NY Presbyterian - Columbia University Hospital, New York, NY, March 19, 2015.
27. **Cobb WS.** Controversies in Mesh: When to Use and What Mesh. Postgraduate Course: Updates in Abdominal Wall Management: Mesh Theory, Tissue Use, Complex Locations. Society of American Gastrointestinal and Endoscopic Surgeons Annual Meeting, Nashville, TN, April 16, 2015.
28. **Cobb WS.** Transversus Abdominis Release for Complex Hernia Repair. Ethicon. April 21, 2015.
29. **Cull DL.** Quality Benchmarks of a Vascular Access Program. Veith Symposium, New York, NY, Nov. 18-22, 2014.
30. **Cull DL.** Challenges of Vascular Access in the Elderly Patient. Veith Symposium, New York, NY, Nov. 18-22, 2014.
31. **Cull DL.** Vascular Access in Elderly Patients: How do We Address this Challenging and Growing Population? Society for Vascular Surgery, Chicago, IL, June 17-20, 2015.
32. **Davis JR,** Moffat D, Hale AL, Ewing JA, **Lokey JS.** Indeterminate Thyroid Nodule: Knowing What We Do Not Know. Southeastern Surgical Congress; 2015 February 21; Chattanooga, TN, USA.
33. **Davis JR, Smith D,** Morse BC, Hale AL. Jet Ski Hydrostatic Perineal Injuries: Summer Case Series from Level 1 Trauma Experience. Southeastern Surgical Congress; 2015 February 21; Chattanooga, TN, USA.
34. **Eckenrode AH,** Ewing JA, Kotrady J, Hale AL, **Smith DE.** HIDA Scan with Ejection Fraction is Over Utilized in the Management of Biliary Dyskinesia. Southeastern Surgical Congress, Chattanooga, TN, Feb. 21-24, 2015.
35. **Eidt JF.** Treatment of aortic graft infection, Virginia Vascular Society, Keynote Speaker, September 2014.
36. **Eidt JF.** Mesenteric ischemia. Pittsburgh Vascular Symposium, Pittsburgh, PA, October 10-11, 2014.
37. **Eidt JF.** Vertebrobasilar Insufficiency. Pittsburgh Vascular Symposium, Pittsburgh, PA, October 10-11, 2014.



38. **Eidt JF.** VESAP 3: Where is it and How can it Help in MOC and Review for the Vascular Surgery Board Exams. Veith Symposium, New York, NY, Nov. 18-22, 2014
39. **Eidt JF.** Gracilis Flap for complex groin wounds. Northwestern Vascular Symposium, Chicago, IL, Dec 2014.
40. **Eidt JF.** Treatment of Aortic Infections. Grand Rounds, Staten Island, NY, January 2015.
41. **Eidt JF.** Treatment of Aortic Infections. Grand Rounds, Cleveland Clinic, Cleveland, OH, March 2015.
42. **Eidt JF.** Treatment of Aortic Infections. Grand Rounds, Oregon Health and Science University, Portland, OR, April 2015.
43. **Eidt JF.** Treatment of aortic graft infection. Vascular Finishing School, Methodist Institute for Education and Innovation, Houston Texas, May 2015.
44. **Eckenrode A, Smith DE.** HIDA Scan with Ejection Fraction is Over Utilized in the Management of Biliary Dyskinesia. Southeastern Surgical Congress; 2015 February 21; Chattanooga, TN, USA.
45. **Epps M, Jones WB.** Is ERCP aided by trans-cystic wire during laparoscopic cholecystectomy safer and faster than if performed separately? SAGES Annual Meeting, Nashville, TN, Apr. 15-18, 2015.
46. **Fitzgerald RH.** The use Local Tissue Flaps in Foot and Ankle Surgery. Martin Health System, Stuart FL, October 15, 2014.
47. **Fitzgerald RH.** The Use of Bioengineered Alternative Tissue Grafts in Limb Preservation. Newberry Community Hospital Wound Care Center, Newberry, SC, February 19, 2015.
48. **Fitzgerald RH.** Amniotic Tissue and Wound healing: Hype or Hope for Limb Salvage? Virginia Podiatric Medical Association, Richmond, VA, March 10, 2015.
49. **Fitzgerald RH.** The use of Advanced Tissue Grafts in Wound Healing: A Surgeons Perspective. Johnston Willis Hospital Wound Center, Richmond, VA, March 18, 2015.
50. **Fitzgerald RH.** Multiplanar Reconstruction for Pes Cavus Deformities: Is Less More? Midwest Podiatry Conference, Chicago, IL, April 7, 2015.
51. **Fitzgerald RH.** The Surgical Management of Achilles Tendon Pathology: What the literature Suggests Midwest Podiatry Conference, Chicago, IL, April 7, 2015.
52. **Gandhi S.** Triple Barrel Aortic Dissection. VIVA Conference, Las Vegas, NV, Nov. 4-7, 2014.
53. **Grant A, Jones W.** Video-assisted Retroperitoneal Debridement (VARD) of Infected Necrotizing Pancreatitis. Southeastern Surgical Congress; 2015 February 21; Chattanooga, TN, USA.



54. **Grant AA**, Kaiser ML, Snow BM, Deeter WT III, Gossage MR, Griffin KL, Ward SC, Ewing JA, Hale AL, Manning BM. The Utility of Serial Hemoglobins to Determine the Management of Blunt Splenic Injury. NC/SC Chapters of the American College of Surgeons, Committee on Trauma Paper Competition, Pinehurst, NC, July 17-19, 2015.
55. **Grant A, Bolton WD, Stephenson JE**, Hale AL, **Ben-Or S**. ROBOTIC ASSISTED THORACOSCOPIC BRONCHOPLASTY: A NOVEL TECHNIQUE. European Conference on General Thoracic Surgery. Lisbon, Portugal, May 31–June 3, 2015.
56. **Gray BH**. The Impact of Life Expectancy on the Treatment Algorithm of the Vascular Patient. The Southern Association for Vascular Surgery, Scottsdale, AZ, Jan. 14-17.
57. **Koleilat I**, Jaeggli M, Ewing J, **Androes M, Eidt J**. Interobserver Variability in Physician-Modified Endograft Planning by Comparison with a 3D-Printed Aortic Model. Society for Vascular Surgery Vascular Annual Meeting, Chicago, IL, June 17-20, 2015.
58. **Le V, Chandler JC**. Meckel's Diverticulum: The Lead Point of Intrauterine Intussusception with Subsequent Atresia in a Newborn. Southeastern Surgical Congress; 2015 February 21; Chattanooga, TN, USA.
59. **Norton SD**, et al. Tips and Tricks from the Experts – ERAS, NRMP, SOAP, and More. American College of Surgeons, Division of Education, Medical Student Program, San Francisco, CA, Oct. 26-28, 2014.
60. **Norton SD**. I've Matched – Now What? American College of Surgeons, Division of Education, Medical Student Program, San Francisco, CA, Oct. 26-28, 2014.
61. **REX JC**. Surgical treatment of idiopathic constipation. Peidmont Society of Colon and Rectal Surgeons, New Orleans, LA, March 13 2015.
62. **Richey J, Bolton WD**. Electromagnetic Navigational Bronchoscopy is a safe and effective method for placement of fiducial markers to assist with stereotactic radiation for the treatment of lung cancer. Southeastern Surgical Congress; 2015 February 21; Chattanooga, TN, USA.
63. **Richey JS, Jones YR, Manning BM, Stone HH**, Morse BC. Not so Simple Fractures: Predicting Outcomes in Older Patients with Rib Cage Injury. Southeastern Surgical Congress, Chattanooga, TN, Feb. 21-24, 2015.
64. Rosen M, **Carbonell A, Cobb W**, Bauer J, Selzer D, Chao J, Harmaty B, Poulouse B, Matthews B, Goldblatt M, Jacobsen G, Rosman C, Hansson B, Prabhu A. Multicenter Prospective Longitudinal Trial Evaluating Recurrence, Surgical Site Infection and Quality of Life After Contaminated Ventral Hernia Repair Using Biosynthetic Absorbable Mesh. 1st World Conference on Abdominal Wall Hernia Surgery. Milan, Italy April 25-29, 2015.
65. **Sanders JR**, Pellizzeri K, Manning BM, Kaiser ML, Ewing JA, Hale AL, Snow BM. EARLY VTE PROPHYLAXIS IN TRAUMATIC BRAIN INJURY. NC/SC Chapters of the American College of Surgeons, Resident Paper Competition, Pinehurst, NC, July 17-19, 2015.



66. **Smith DE, Grant A, Norton SD.** The Benefit of Global Surgery Rotation in a General Surgery Residency Program. Association of Residency Coordinators in Surgery, Seattle, WA, Apr. 21-23, 2015.
67. **Stanbro MD.** Varicose Veins: Diagnosis and Treatment Alternatives. VIVA Comprehensive Review Course; 2014 November 02; Las Vegas, NV, USA.
68. **Stanbro MD.** Clinical Assessment of the Swollen Toe, the Red Toe or the Blue Toe. American College of Phlebology; 2014 November 06; Phoenix, AZ, USA.
69. **Stanbro MD.** Thrombophilia Treatment. American College of Phlebology; 2014 November 06; Phoenix, AZ, USA.
70. **Stanbro MD.** Acrocyanosis. American College of Phlebology; 2014 November 06; Phoenix, AZ, USA.
71. **Stanbro MD.** What is Livedo? American College of Phlebology; 2014 November 06; Phoenix, AZ, USA.
72. **Stanbro MD.** ETA in the Hypercoagulable Patient: Pro vs. Con. American College of Phlebology; 2014 November 06; Phoenix, AZ, USA.
73. **Stanbro MD.** Lymphedema and Lipedema: Basic Treatment that You can Offer. American College of Phlebology; 2014 November 06; Phoenix, AZ, USA.
74. **Taylor SM.** Surgeons as Leaders. West Virginia Vascular Symposium; 2014 October 18; White Sulphur Springs, WV, USA.
75. **Taylor SM.** Understanding and Directing Outcomes for Patients with Lower Extremity Peripheral Arterial Disease. West Virginia Vascular Symposium; 2014 October 18; White Sulphur Springs, WV, USA.
76. **Taylor SM.** Lower Extremity Occlusive Disease – Bypass or Endovascular Management? . Post Graduate Course at American College of Surgeons Meeting; 2014 October 28; San Francisco, CA, USA.
77. **Taylor SM.** The Challenge of Viewing Lower Extremity Peripheral Intervention from the Perspective of the Patient. Grand Rounds. Tripler Air Force Base Grand Rounds; 2014 October 30; Honolulu, HI, USA.
78. **Taylor SM.** Functional Outcomes after Leg Bypass. University of Massachusetts Grand Rounds; 2014 November 07; Worcester, MA, USA.
79. **Taylor SM.** Greenville Health Care System Growth and Adapting to the New Challenges of Medicine. New Hanover Regional Medical Center Grand Rounds; 2014 November 14; Wilmington, NC, USA.



80. **Taylor SM.** Surgeons as Leaders: Personal Observations While Building a New Medical School. Southeastern Surgical Congress, The Henry L. Laws, II Lecture; 2015 February 21; Chattanooga, TN, USA.
81. **Warren JA.** Extreme Abdominal Wall Surgery: Robotic Approach to Complex Abdominal Wall Hernias. Clinical Robotic Surgical Association, San Francisco, CA, Oct. 25, 2014.
82. **Warren J,** Ewing J, Blackhurst D, Hale A, **Bour E, Scott JD.** Referring Obese Patients for Bariatric Surgery: Resource Targeting Based on Local Physician Attitudes. American Society of Metabolic and Bariatric Society Obesity Week, POSTER OF DISTINCTION SECTION, Boston, MA, November 2-7, 2014.
83. **Warren J.** Incisional Hernia Repair with Simultaneous Panniculectomy. Southeastern Surgical Congress; 2015 February 21; Chattanooga, TN, USA.
84. **Warren J, Epps M, De Brux C, Fowler JL,** Ewing JA, **Cobb WS, Carbonell AM.** Surgical site occurrences of simultaneous panniculectomy and incisional hernia repair. Southeastern Surgical Congress, Chattanooga, TN, Feb. 21-24, 2015.
85. **Warren J,** Ewing JA, Hale AL, Blackhurst D, **Bour ES, Scott JD.** Cost-effectiveness of bariatric surgery: Increasing the economic viability of the most effective treatment for type 2 diabetes mellitus. Southeastern Surgical Congress, Chattanooga, TN, Feb. 21-24, 2015.
86. **Warren JA.** Robotic Hernia Repair and Component Separation. Stony Brook Medicine: Cadaver Course in Colon and Rectal Surgery, Stony Brook, NY, March 20, 2015.
87. **Warren JA.** Complex Abdominal Wall Hernias: Current Evidence, Future Directions. Moretz Society Annual Meeting, Augusta, GA, Oct. 10, 2014.
88. **Warren J,** et al. Robotic Rives-Stoppa Retromuscular Incisional Hernia Repair. 1st World Congress on Abdominal Wall Hernia Surgery, Milan, Italy, April 25-29, 2015.
89. **Warren J,** et al. Prospective Observational Cohort Study of Robotic vs Open Rives-Stoppa Retrorectus Incisional Hernia Repair. 1st World Congress on Abdominal Wall Hernia Surgery, Milan, Italy, April 25-29, 2015.
90. **Warren J.** Loss of Abdominal Domain 1st World Congress on Abdominal Wall Hernia Surgery, Milan, Italy, April 25-29, 2015.
91. **Wells J,** Miller M, Perry B, Ewing JA, **Scott JD.** Preservation of Lean Muscle Mass after Bariatric Surgery: A Comparison of Malabsorptive and Restrictive Procedures. Southeastern Surgical Congress; 2015 February 21; Chattanooga, TN, USA.



PEER REVIEWED MEETING ABSTRACTS

1. **Webb CB, Eichhorn PL**, Sutter C, Ewing JA, Hale AL, **Scott JD**. Bariatric Surgery and Biliary Disease: Does the Type of Surgery Play a Role? SAGES, Nashville, TN, Apr. 15-18, 2015.
2. **Jones WB, Richey JS, Manning BM**. Endoscopic Management of Traumatic Biliary and Pancreatic Injuries. Southwestern Surgical Congress, Monterey, CA, Apr. 26-29, 2015.
3. **Davis JD**, Bush S, Ewing JA, Hale AL, **Rex JC**. Ofirmev's Role in Colorectal Postoperative Recovery Pathways. American Society of Colon and Rectal Surgeons Annual Scientific Meeting, Boston, MA, May 30th-June 3rd 2015.



HUMAN RESOURCES/LEARNING & DEVELOPMENT/NON-CLINICAL

PEER REVIEWED JOURNAL ARTICLES

PEER REVIEWED JOURNAL ABSTRACTS

BOOK AND BOOK CHAPTERS

REGIONAL/NATIONAL/INTERNATIONAL PRESENTATIONS

1. **Barron, B.** The Near Future: Alternative Credentialing for an Academic Health Center. Parchment Exchange User's Conference; 2015 April. Baltimore, MD. *(Furman-primary partner)*
2. **Barron, B,** Hobbs D, Parks R, Shendy, J. Issuing Experiential Transcripts and Competency Reports: A Registrar's Perspective. American Association of Collegiate Registrars and Admissions Officers Annual Meeting; 2015 April, Baltimore, MD. *(Furman-primary partner)*
3. **Barron, B,** Hobbs D. Issuing Experiential Transcripts and Competency Reports: A Registrar's Perspective. American Association of Collegiate Registrars and Admissions Officers Technology Transfer Meeting; 2015 July, Austin, TX. *(Furman-primary partner)*
4. Cameron R, **Isley M, Brink S.** Aligning Physician Compensation Plan Towards Pay for Value. MGMA 2014 Annual Conference; 2014 October 27; Las Vegas, NV, USA. *(GHS Corporate)*
5. **Harris S.** Improving ED to Inpatient Care Handoffs Using Lean Six Sigma. Healthcare Systems Process Improvement Conference 2015; 2015 February 20; Orlando, FL, USA. *(Management Engineering)*
6. Krenek R, **Harris S, Helmrich G,** Greenstein J, Cho BR. A Gage R&R Study in Healthcare Setting. Institute for Operations Research and Management Sciences (INFORMS); 2014 November 10; San Francisco, CA, USA. *(Management Engineering and Baptist Easley)*
7. **Lineberger L.** AHRQ Patient Safety Indicators and Lean Six Sigma Project. South Carolina Health Information Management Association Fall 2014 Regional Meeting; 2014 October 10; Greenville, SC, USA. *(Quality)*



8. **Morris S, Tappert T.** Leveraging the Enneagram to Develop “Conscious Leaders” in a Large Organization. Annual Conference of the Canadian Enneagram Association; 2015 May 15; Toronto, Ontario, Canada. *(GHS Corporate)*
9. **Reeves V.** Managing Onboarding and Compliance for Non-Employees. HealthStream Summit User Conference; 2015 April 08; Nashville, TN, USA.
10. **Rhodes B.** Conscious Leadership: Not Just for the C-Suite. Women of Color Task Force Annual Career Conference; 2015 March 06; Ann Arbor, MI, USA. *(Leadership & Professional Development)*
11. **Squire A.** Tools for the Journey: Self-Awareness, Confidence, & Respect. Women of Color Task Force Career Conference; 2015 March 06; Ann Arbor, MI, USA.
12. **Tappert T.** Developing Conscious Leaders: Culture Change and a Leadership Framework at Greenville Health System. MGMA 2014 Annual Conference; 2014 October 26; Las Vegas, NV, USA. *(GHS Corporate)*
13. **Tappert TN.** Self-Awareness: An Often Overlooked Aspect of Great Leadership. South Carolina Department of Health and Human Services Leadership Retreat; 2015 August 13; Columbia, SC, USA.
14. **Wilson S.** Mindfulness and Productivity. South Carolina Health Information Management Association Fall 2014 Regional Meeting; 2014 October 10; Greenville, SC, USA. *(Leadership & Professional Development)*
15. **Wilson S, Tappert T.** Conscious Leadership: A Leadership Framework at GHS. Press Ganey South Carolina User Group; 2015 June 23; Columbia, South Carolina, USA.
16. **Youssef CN, Payne D, Taylor SM.** The GHS Clinical University Model: A Shared Academic Health Center Devoted to Applied Education. AAMC GBA/GIP Annual Meeting; 2015 April 24; New York, NY, USA. *(GHS Corporate)*

PEER REVIEWED MEETING ABSTRACTS



IAHC SCHOLARS

PEER REVIEWED JOURNAL ARTICLES

1. **Lawson TR, Brown IE, Westerkam DL, Blackhurst DW, Sternberg S, Leacock R, Nathaniel TI.** Tissue plasminogen activator (rt-PA) in acute ischemic stroke: Outcomes associated with ambulation. *Restor Neurol Neurosci.* 2015 Feb 19. [Epub ahead of print] PubMed PMID: 25698111.
2. **Russ-Sellers R.** The cost-effectiveness of pay-for-performance: a multidimensional approach to analysis. *Med Care.* 2015 Feb;53(2):104-5. doi: 10.1097/MLR.0000000000000306. PubMed PMID: 25588133.

PEER REVIEWED JOURNAL ABSTRACTS

BOOK AND BOOK CHAPTERS

REGIONAL/NATIONAL/INTERNATIONAL PRESENTATIONS

PEER REVIEWED MEETING ABSTRACTS



NURSING

PEER REVIEWED JOURNAL ARTICLES

1. **Johnson B**, Conner B. What works: Physician and nurse rounding improves patient satisfaction. American Nurse Today. 2014 December; 9(12).
2. **Leighton P, Perkins L**. Long-term cancer survivorship nurse practitioner care model promotes patient quality of life. American nurse today. 2015 June; 10(6).
3. **Macaluso JD**, Weissenbach M. Staying Ahead of the Curve: Monitoring Epidemiology and Geographic Distribution by Zip Code of Enterovirus D68. American Journal of Infection Control. 2015 June 02; 43 (6): S71. DOI: <http://dx.doi.org/10.1016/j.ajic.2015.04.174>

PEER REVIEWED JOURNAL ABSTRACTS

BOOK AND BOOK CHAPTERS

1. **Steed C**, Ellington K. APIC Implementation Guide: Guide to hand hygiene programs for infection prevention. First ed. Landers T, editor. USA: APIC; 2015. Section 4, Hand hygiene monitoring.

REGIONAL/NATIONAL/INTERNATIONAL PRESENTATIONS

1. **Franco R**. Developing a Cancer Survivorship Program. Society for Radiation Oncology Administrators Annual Conference; 2014 October 18; San Antonio, TX, USA.
2. **Jameson B, Moody C**. The CIT Journey Continues-GHS. American Organization of Nurse Executives Cohort 5/Meeting 3; 2015 February 11; New Orleans, LA, USA.
3. **Martin, JC**. Disparities in Cancer Care. Thirteenth Annual Research Symposium Integrating Research With Action to Promote Health Equity; 2015 September 25; Greenville, SC, USA.
4. **Moody C**. SC State Board of Nursing Updates and Hot Topics. SC Nursing Excellence Conference; 2015 April; Columbia, SC, USA.
5. Pittett D, **Steed C**, Hargett E. Infection Prevention the Proper Hand Hygiene: The Need for Higher Standard & New Technologies. 28th Annual International Infection Prevention Week; 2014 October 23; Greenville, SC, USA. (webinar presentation)
6. **Steed C**. Infection Prevention Certification Preparation Pre- Conference: Environment of Care and Communication and Management Lectures. APIC International Conference; 2015 June 26; Nashville, TN, USA.



GREENVILLE
HEALTH SYSTEM
Clinical University

PEER REVIEWED MEETING ABSTRACTS



PHARMACY

PEER REVIEWED JOURNAL ARTICLES

1. Foushee JA, Fox LM, **Gormley LR**, Lineberger MS. Physical compatibility of cisatracurium with selected drugs during simulated Y-site administration. Am J Health Syst Pharm. 2015 Mar 15;72(6):483-6. PubMed PMID: 25736944.

PEER REVIEWED JOURNAL ABSTRACTS

BOOK AND BOOK CHAPTERS

REGIONAL/NATIONAL/INTERNATIONAL PRESENTATIONS

1. **Bender F**. Pharmacy Practice Model Initiatives--Best Practices. South Carolina Society of Health System Pharmacists Annual Meeting; 2015 March 15; Hilton Head, SC, USA.
2. **Bender F**. The Business of Insourcing Sterile I.V. Compounding Services, Case Study 1: Business Planning for Insourcing: Central Fill Model. American Society of Health System Pharmacists 2015 Summer Meeting and Exhibition Promotional Theater; 2015 June 08; Denver, CO, USA.
3. **Bush S**. Reducing Readmissions Through Care Transitions: Barriers, Billing, and Beyond. UHC Pharmacy Council/ASHP Midyear Clinical Meeting; 2014 December 06; Anaheim, CA, USA.
4. **Capps R**. The Medication Use System and Technology Pharmacist: Survey Results and Outlook to the Future. American Society of Health Systems Pharmacists; 2015 June 18; Webinar.
5. **Dorn M**. Pharmacy driven proton pump inhibitor (PPI) discontinuation protocol: Effects on C. difficile infection rates. UHC Pharmacy Council/ASHP Midyear Clinical Meeting; 2014 December 06; Anaheim, CA, USA.
6. **Gormley L**. Effects of concomitant amiodarone and ondansetron on Q-T interval prolongation. UHC Pharmacy Council/ASHP Midyear Clinical Meeting; 2014 December 06; Anaheim, CA, USA.
7. **Koch M**. Evaluation of continuous infusion ketamine for post-operative pain control in orthopedic surgery patients. UHC Pharmacy Council/ASHP Midyear Clinical Meeting; 2014 December 06; Anaheim, CA, USA.



8. **Lee S.** Implementation of pharmacist discharge medication counseling process at Greenville Health System (GHS): Pilot Study. UHC Pharmacy Council/ASHP Midyear Clinical Meeting; 2014 December 06; Anaheim, CA, USA.
9. **Nites E.** Effect of first dose antibiotics administered by emergency medical services (EMS) on sepsis-related clinical outcomes. UHC Pharmacy Council/ASHP Midyear Clinical Meeting; 2014 December 06; Anaheim, CA, USA.
10. **Orr J.** Evaluating a pharmacist led oral chemotherapy monitoring program. UHC Pharmacy Council/ASHP Midyear Clinical Meeting; 2014 December 06; Anaheim, CA, USA.
11. **Pearson J.** Staffing Models/Labor Management/Practice Model Expansion. South Carolina Society of Health System Pharmacists Annual Meeting; 2015 March 15; Hilton Head, SC, USA.
12. **Pearson J.** Expanding Roles for Pharmacists and Technicians/Hiring Qualifications. South Carolina Society of Health System Pharmacists Annual Meeting; 2015 March 15; Hilton Head, SC, USA.
13. **Snow L, Ghizzoni-Burns A.** Transitional Care Models. South Carolina Society of Health System Pharmacists Annual Meeting; 2015 March 15; Hilton Head, SC, USA.

PEER REVIEWED MEETING ABSTRACTS



REHABILITATION

PEER REVIEWED JOURNAL ARTICLES

1. **Healy S**, Manganelli J, Rosopa PJ, **Brooks JO**. An Exploration of the Nightstand and Over-the-Bed Table in an Inpatient Rehabilitation Hospital. *HERD*. 2015 Winter;8(2):43-55. PubMed PMID: 25816380.

PEER REVIEWED JOURNAL ABSTRACTS

BOOK AND BOOK CHAPTERS

REGIONAL/NATIONAL/INTERNATIONAL PRESENTATIONS

PEER REVIEWED MEETING ABSTRACTS



SIMULATION CENTER

PEER REVIEWED JOURNAL ARTICLES

PEER REVIEWED JOURNAL ABSTRACTS

BOOK AND BOOK CHAPTERS

REGIONAL/NATIONAL/INTERNATIONAL PRESENTATIONS

1. **Morgan RR, Barrett L.** Resident Orientation Voodoo: Using National Patient Safety Goals to Break the Spell. International Meeting for Simulation in Healthcare; 2015 January 12; New Orleans, LA, USA.
2. **Morgan RR, Barrett L, Dix A.** Can You Hear Me Now? Interactive Strategies to Improve Teamwork & Communication in a High-Stakes Environment. South Carolina Pediatric Trauma Symposium; 2015 February 06; Greenville, SC, USA.

PEER REVIEWED MEETING ABSTRACTS



SPIRITUAL CARE & EDUCATION

PEER REVIEWED JOURNAL ARTICLES

1. **Hartman, II J.** Healthcare Chaplaincy: A rich heritage and a bright future. PlainViews. 2014 October 15; 11(18):7-9.
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PEER REVIEWED JOURNAL ABSTRACTS

BOOK AND BOOK CHAPTERS

REGIONAL/NATIONAL/INTERNATIONAL PRESENTATIONS

PEER REVIEWED MEETING ABSTRACTS



USCSOMG: BIOMEDICAL SCIENCES FACULTY, STAFF & STUDENTS

PEER REVIEWED JOURNAL ARTICLES

1. Adegbola AJ, Soyinka JO, Adeagbo BA, Igbinoba SI, **Nathaniel TI**. Alteration of the Disposition of Quinine in Healthy Volunteers After Concurrent Ciprofloxacin Administration. *Am J Ther*. 2014 Nov 18; PubMed PMID: 25406952.
2. Chambers, B.S., Li, Y., **Hodinka, R.L.**, Hensley, S.E.: Recent H3N2 influenza virus clinical isolates rapidly acquire hemagglutinin or neuraminidase mutations when propagated for antigenic analyses. *J. Virol. ASM Press, Washington, DC*, 88(18): 10986-10989, 2014.
3. Cook KD, **Kline HC**, Whitmire JK. NK cells inhibit humoral immunity by reducing the abundance of CD4+ T follicular helper cells during a chronic virus infection. *Journal of leukocyte biology*. 2015 May 18; 97(5). (*USCSOMG student*)
4. Hamdy, R.F., Stein, R.E., Larru, B., Bellah, R.D., Grossman, A.B., **Hodinka, R.L.**, Feemster, K.A.: Gallbladder wall thickening in an adolescent with acute mononucleosis: A case report and brief review of the literature. *J. Pediatr. Infect. Dis. Soc.* 4(3):267-271, 2015.
5. Horani T, **Best RG**, Edwards E, DiPette DJ. Genetics of Hypertension: What is Next?. *Current cardiovascular risk reports*. 2015 January 27; 9(1):1-12.
6. Igbinoba SI, Akanmu MA, Onyeji CO, Soyinka JO, Owolabi AR, **Nathaniel TI**, Pullela SV, Cook JM. Influence of a Nigerian honey on CYP3A4 biotransformation of quinine in healthy volunteers. *J Clin Pharm Ther*. 2015 Jul 14. doi: 10.1111/jcpt.12303. [Epub ahead of print] PubMed PMID: 26177778.
7. Jiang H, Xie Y, Abel PW, **Wolff DW**, Toews ML, Panettieri Jr RA, Casale TB, Tu Y. RGS2 Repression Exacerbates Airway Hyperresponsiveness and Remodeling in Asthma. *Am J Respir Cell Mol Biol*. 2014 Nov 4. [Epub ahead of print] PubMed PMID: 25368964.
8. Johnson TR, **Khalil MK**, Peppler RD, Davey DD, Kibble JD. Use of the NBME Comprehensive Basic Science Examination as a progress test in the preclerkship curriculum of a new medical school. *Adv Physiol Educ*. 2014 Dec;38(4):315-20. doi: 10.1152/advan.00047.2014. PubMed PMID: 25434014.
9. Kajon, A.E., Lamson, D., Shudt, M., Oikonomopoulou, Z., Fisher, B., Klieger, S., St. George, K., **Hodinka, R.L.**: Identification of a novel intertypic recombinant species D human adenovirus in a pediatric stem cell transplant recipient. *J. Clin. Virol. Elsevier*, 61: 496-502, 2014.
10. Kennedy AB, **Trilk JL**. A Standardized, Evidence-Based Massage Therapy Program for Decentralized Elite Paracyclists: Creating the Model. *Int J Ther Massage Bodywork*. 2015 Sep 1;8(3):3-9. eCollection 2015 Sep. PubMed PMID: 26388960; PubMed Central PMCID: PMC4560532.



11. **Lawson TR, Brown IE, Westerkam DL, Blackhurst DW**, Sternberg S, Leacock R, **Nathaniel TI**. Tissue plasminogen activator (rt-PA) in acute ischemic stroke: Outcomes associated with ambulation. *Restor Neurol Neurosci*. 2015 Jun 17;33(3):301-8. doi: 10.3233/RNN-140480. PubMed PMID: 25698111. (*USCSOMG students included*)
12. Linderman, S.L., Chambers, B.S., Zost, S.J., Parkhouse, K., Li, Y., Hermann, C., Ellebedy, A.H., Carter, D.M., Andrews, S.F., Zheng, N.-Y., Huang, M., Huang, Y., Strauss, D., Shaz, B.H., **Hodinka, R.L.**, Reyes-Teran, G., Ross, T.M., Wilson, P.C., Ahmed, R., Bloom, J.D., Hensley S.E.: Potential antigenic explanation for atypical H1N1 infections among middle-aged adults during the 2013-2014 influenza season. *Proc. Natl. Acad. Sci. (PNAS)* 111(44): 15798-15803, 2014.
13. Lopez, C.B., Sun, Y., Jain, D., Genoyer, E., Gilbert, M., Tapia, K., Koziol-White, C., Panettieri, R.A., **Hodinka, R.L.**: Immunostimulatory defective viral genomes from respiratory syncytial virus promote a strong innate antiviral response during infection in mice and humans. *PLOS Pathog*. 11(9):e1005122, 2015.
14. **Nathaniel TI**, Soyinka JO, Adedeji A, Imeh-Nathaniel A. Molecular and Physiological Factors of Neuroprotection in Hypoxia-tolerant Models: Pharmacological Clues for the Treatment of Stroke. *J Exp Neurosci*. 2015 Feb 26;9:1-5. doi: 10.4137/JEN.S22512. eCollection 2015. Review. PubMed PMID: 25780340; PubMed Central PMCID: PMC4346302.
15. **Nathaniel TI, Williams-Hernandez A, Hunter LA, Liddy C, Peffley DM**, Umesiri FE, Imeh-Nathaniel A. Tissue hypoxia during ischemic stroke: Adaptive clues from hypoxia-tolerant animal models. *Brain Res Bull*. 2015 Mar 1;114:1-12. doi: 10.1016/j.brainresbull.2015.02.006. [Epub ahead of print] Review. PubMed PMID: 25738761.
16. Phillips E, Pojednic R, Polak R, Bush J, **Trilk J**. Including lifestyle medicine in undergraduate medical curricula. *Med Educ Online*. 2015;20:26150. PubMed PMID: 25652118; PubMed Central PMCID: PMC4317469.
17. Sansone RA, **Wiederman MW**. Religiosity/spirituality: Relationships with non-suicidal self-harm behaviors and attempted suicide. *Int J Soc Psychiatry*. 2015 Apr 10. pii: 0020764015579738. [Epub ahead of print] PubMed PMID: 25862549.
18. Sansone RA, Bohinc RJ, **Wiederman MW**. Childhood bullying and healthcare adherence in adulthood. *Int J Soc Psychiatry*. 2015 Jan 19. pii: 0020764014567887. [Epub ahead of print] PubMed PMID: 25599687.
19. Sansone RA, Bohinc RJ, **Wiederman MW**. Adherence with general healthcare among internal medicine outpatients with mental health treatment histories. *Innov Clin Neurosci*. 2015 Mar-Apr;12(3-4):11-3. PubMed PMID: 26000200; PubMed Central PMCID: PMC4420164.
20. Sansone RA, Elliott K, **Wiederman MW**. A Survey of Self-Directed Physical Aggression Among Perpetrators of Partner Violence. *Prim Care Companion CNS Disord*. 2015 Mar



5;17(2). doi: 10.4088/PCC.14l01703. eCollection 2015. PubMed PMID: 26445679; PubMed Central PMCID: PMC4560176.

21. Sansone RA, **Wiederman MW**. The self-harm inventory: A meta-analysis of its relationship to the personality diagnostic questionnaire-4 as a measure of borderline personality disorder. *Int J Psychiatry Clin Pract*. 2015 Aug 25;1-4. [Epub ahead of print] PubMed PMID: 26305711.
22. Sansone RA, **Wiederman MW**. The self-harm inventory: A meta-analysis of its relationship to the personality diagnostic questionnaire-4 as a measure of borderline personality disorder. *Int J Psychiatry Clin Pract*. 2015 Aug 14;1-4. [Epub ahead of print] PubMed PMID: 26271523.
23. Sansone RA, **Wiederman MW**, Sawyer RJ. Effective Research Strategies for Trainees in Internal Medicine Residency Programs. *Prim Care Companion CNS Disord*. 2015 Jan 1;17(1). doi: 10.4088/PCC.14r01712. eCollection 2015. PubMed PMID: 26137359; PubMed Central PMCID: PMC4468886.
24. Sansone RA, Elliott K, **Wiederman MW**. Suicide attempts among men and women with partner violence according to borderline personality status. *Innov Clin Neurosci*. 2015 Jan-Feb;12(1-2):10-1. PubMed PMID: 25852973; PubMed Central PMCID: PMC4382134.
25. Sansone RA, Bohinc RJ, **Wiederman MW**. Body mass index and self-reported compliance with general health care. *South Med J*. 2015 Feb;108(2):79-81. doi: 10.14423/SMJ.0000000000000231. PubMed PMID: 25688891.
26. Sansone RA, Bohinc RJ, **Wiederman MW**. Borderline personality symptomatology and compliance with general health care among internal medicine outpatients. *Int J Psychiatry Clin Pract*. 2015 Jun;19(2):132-6. doi: 10.3109/13651501.2014.988269. Epub 2015 Jan 6. PubMed PMID: 25410155.
27. Sansone RA, Elliott K, **Wiederman MW**. Distancing oneself from God among perpetrators of partner violence. *Int J Soc Psychiatry*. 2015 Mar;61(2):207-8. doi: 10.1177/0020764014562052. PubMed PMID: 25716947.
28. Simoes, E.A.F., DeVincenzo, J.P., Boeckh, M., Bont, L., Crowe, Jr., J.E., Griffiths P., Hayden, F.G., **Hodinka, R.L.**, Smyth, R.L., Spencer, K., Thirstrup, S., Walsh, E.E., Whitley, R.J. : Challenges and opportunities in developing respiratory syncytial virus therapeutics. *J. Infect.Dis*. 211(Suppl 1): S1-S20, 2015.
29. **Trilk JL**, Kennedy AB. Using lifestyle medicine in us Health care to treat obesity: too many bariatric surgeries?. *Curr Sports Med Rep*. 2015 Mar-Apr;14(2):96-9. PubMed PMID: 25757003.
30. Umesiri FE, Lick A, Fricke C, Funk J, **Nathaniel TI**. Anti-Tubercular Activity of EDTA and Household Chemicals Against Mycobacterium Smegmatis, a Surrogate for Multi-Drug Resistant Tuberculosis. *European Scientific Journal*. 2015 July; 11(21):133-149.



31. Zash, R.M., Shapiro, R.L., Leidner, J., Wester, C., McAdam, A., **Hodinka, R.L.**, Thior, I., Moffat, C., Makhema, J., McIntosh, K., Essex, M., Lockman, S.: The aetiology of diarrhea, pneumonia and respiratory colonization of HIV-exposed infants randomized to breast- or formula-feeding. Paediatr. Int. Child Health 8:2046905515Y00000000038, 2015.

PEER REVIEWED JOURNAL ABSTRACTS

BOOK AND BOOK CHAPTERS

1. **Hodinka, R.L.**: Human cytomegalovirus. Manual of Clinical Microbiology, 11th Edition. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter S.S. (eds.). ASM Press, 2015.
2. **Hodinka, R.L.**: Human herpesviruses 6, 7, and 8. Manual of Molecular and Clinical Laboratory Immunology, 8th Edition ASM Press, 2015.
3. Pang, X., **Hodinka, R.L.**: Gastroenteritis viruses. Manual of Clinical Microbiology, 11th Edition. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter S.S. (eds.). ASM Press, 2015.
4. **Wiederman MW.** Handbook of the Sociology of Sexualities. DeLamater J, Plante RF, editors. Switzerland: Springer International Publishing; 2015. Sexual script theory: Past, present, and future; p.7-22.

REGIONAL/NATIONAL/INTERNATIONAL PRESENTATIONS

1. **Elkhider, I. A. & Ingiamo, M.** (2015, April). Flipping your Classroom by Design: Engaging the Med School Student. Workshop presented at the 2015 AAMC Southern Group in Educational Affairs Regional Spring annual meeting, Charlotte, NC.
2. **Hodinka, R.L.** Apr, 2015 "Existing and Emerging Technologies for Molecular Point-of-Care Testing", 22nd Annual Molecular Virology Workshop, Daytona Beach, FL.
3. **Hodinka, R.L.** Apr, 2015 "Case Study Presentations in Virology", 31st Annual Clinical Virology Symposium and Annual Meeting of Pan American Society for Clinical Virology, Daytona Beach, FL. Presented two (2) cases.
4. **Hodinka, R.L.** Apr, 2015 "Measles: The Continued Scourge of a Vaccine-Preventable Disease", Presented at the Annual Meeting of the South Carolina Branch of the American Society for Microbiology, Furman University, Greenville, SC.
5. **Hodinka, R.L.** May, 2015 "Clinical Case Mysteries in Virology-Why I Stay Awake at Night!, Presented as a webinar for the Association of Public Health Laboratories, Silver Spring, MD.



6. **Hodinka, R.L.** Jun, 2015 "Coughs, Sneezes and Wheezes: Syndrome-Based Molecular Testing for Respiratory Pathogens", Presented as part of a symposium entitled "Update on Multiplex Testing...Can I Get Fries with That?", 115th General Meeting of American Society for Microbiology, New Orleans, LA.
7. **Hodinka, R.L.** Jul, 2015 "The Latest and Greatest in Diagnostic Molecular Technologies for ID", South Carolina Infectious Diseases Society (SCIDS), Charleston, SC.
8. **Khalil, M.K., Crespo, L.M., Hawkins, H., Buggy, J.** (2014, November). A Validated Prediction Model to Guide Early Intervention for Maximizing Students Academic Achievement. Poster session presented at the AAMC Annual Meeting, Chicago, IL. (poster presentation)
9. **Khalil, M.K.** (2014, November). Towards blended learning experience in medical education. Facilitator, Luncheon Table Topic Discussion at the AAMC Annual Meeting, Chicago, IL. (poster presentation)
10. Peterson K.A., **Khalil M.K.** (2015, April). Medical student's perspective on the educational benefit of using the LASSI questionnaire as a diagnostic method to improve strategies for academic success. Poster session presented at the 2015 SGEA meeting, Charlotte, NC. (poster presentation)
11. **Williams S, Wright WS, Hawkins, HG, Otto, R.** Exploring the predictive validity of MCAT scores on curricular and NBME® comprehensive basic examination performance in an emerging new medical school. Association of American Medical Colleges (AAMC) Medical Education Meeting, Chicago, IL, November 6, 2014.
12. **Wright WS, Williams SE, Hawkins, HG, Otto, RS.** Predictive value of basic science content and NBME® Comprehensive Basic Science Exams in a New Medical School. Association of American Medical Colleges (AAMC) Medical Education Meeting, Chicago, IL, November 6, 2014.

PEER REVIEWED MEETING ABSTRACTS

1. Pedevillano, L., Klieger, S., Seif, A.E., **Hodinka, R.L.**, Xiao, R., Kajon, A.E., Nichols, K.E., Oikonomopoulou, Z., Gousis, C., Fisher, B.T.: Infection risk in pediatric stem cell transplant recipients for hemophagocytic lymphohistiocytosis patients versus acute leukemia. Presented at IDWeek 2014, Philadelphia, PA. 2014.
2. Bryson A, Elkan, M., **Hodinka R.L.**, Cardenas, A.M.: Pediatric human coronavirus prevalence in Philadelphia. Presented at 31st Annual Clinical Virology Symposium and Annual Meeting of Pan American Society for Clinical Virology, Daytona Beach, FL. Page: S5, 2015.