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I. Overview

Carilion Clinic’s educational programs continued to evolve in FY 2015 with the approval of new residency programs, a consolidated Office of Continuing Professional Development, graduation of the charter class at Virginia Tech Carilion School of Medicine, and continued success with programs and recruitment at Jefferson College of Health Sciences. The Office of Academic Affairs provides leadership and oversight for the educational and research components of the Clinic’s mission. Carilion Clinic Administration and the Board of Directors of Carilion Clinic recognize the vital importance of the work of the Office of Academic Affairs and continue to provide full administrative and financial support.

Daniel Harrington, M.D., serves as the Vice President for Academic Affairs and the Vice Dean for the Virginia Tech Carilion School of Medicine (VTCSOM). In these roles, Dr. Harrington oversees graduate medical education, research and development, the Institutional Review Board (IRB) and biomedical ethics, continuing professional development and visiting student affairs at Carilion Clinic. In addition, he oversees the delivery of the medical school curriculum and coordinates resources between VTCSOM, Carilion Clinic, and private physicians in the Roanoke region. This dual appointment facilitates the integration of the VTCSOM students into Carilion Clinic for the third and fourth year clerkships and electives, which includes the curriculum domains of basic science, clinical science, research, and interprofessionalism.

The Office of Academic Affairs includes: Graduate Medical Education (GME), Research and Development, Carilion Translational Science Laboratory, Biomedical and Research Ethics, Office of Visiting Student Affairs, and the Office of Continuing Professional Development. The Office of Continuing Professional Development, under the direction of Dr. David Musick, consolidated the previous departments of Continuing Medical Education, Office of Professional Staff Affairs, and the Center for Simulation, Research, and Patient Safety. The goals of this consolidation include developing innovative professional development for our physicians, nurses, residents, and students.

The growth in graduate medical education programs, the ongoing development of academic departments, and the opening of VTCSOM have resulted in an increase in our academic faculty to over 400 physicians and other healthcare professionals. The developing partnership with Virginia Tech and the Virginia Tech Carilion Research Institute provides access to additional educational and research resources and enhances the learning opportunities for our students, residents, and fellows. Taken in total, these initiatives increase the attractiveness of Carilion Clinic and VTCSOM to medical and other students and also to residents and fellows seeking dynamic and high quality medical education.

II. Office of Graduate Medical Education

The Office of Graduate Medical Education oversees the accreditation and functioning of all Carilion Clinic sponsored and affiliated undergraduate and postgraduate medical education programs. The Graduate Medical Education Committee (GMEC) is authorized by the Board of Directors and the administration of Carilion Medical Center
to advise, monitor, and evaluate all aspects of residency education including policies, governance and quality and is the functional body that carries out the duties of the Office of GME. The GMEC was chaired by Donald Kees, M.D., in his role as the Accreditation Council for Graduate Medical Education’s (ACGME) Designated Institutional Official (DIO). The DIO has a reporting responsibility to the Carilion Medical Center Board and the Medical Executive Committee. He reports directly to Dr. Daniel Harrington, VP of Academic Affairs.

Dr. Donald Kees was named the Designated Institutional Official in July of 2013. He continues to work with the residency and fellowship programs as they transitioned to the requirements of the ACGME’s Next Accreditation System. Besides attending to the daily ongoing needs of GME, the office has been busy with the starting of new GME programs and bringing others to full accreditation status.

Richard Butler, D.O. functions as the Director of Osteopathic Medical Education (DOME) and the osteopathic Institutional Educational Officer (IEO). The DOME provides oversight to the postgraduate programs accredited by the American Osteopathic Association (AOA) and sponsored by the Edward Via College of Osteopathic Medicine. The IEO is the point of communication for all correspondence with the AOA. Dr. Butler reports directly to the DIO and is a member of the GMEC. Carilion Clinic is a full member of the Osteopathic Medical Network of Excellence in Education (OMNEE), which provides sponsorship to the osteopathic programs.

In February of 2014, the ACGME and the AOA announced their intention to create a single accreditation system for GME. This new model of accreditation continues to evolve. Work began in February 2015, on the ACGME application for our Neurological Surgery residency which is currently AOA accredited. The plan is for this application to be completed early in AY 2015-16. The Internal Medicine residency, which had been dually accredited by the ACGME and the AOA decided to drop the AOA accreditation. The Family Medicine residency program continues to be dually accredited and is considering applying for the new ‘Osteopathic Principles’ recognition under the ACGME. The other program with AOA accreditation is the new Emergency Medicine residency program primarily located at Carilion New River Valley Medical Center. This program is sponsored by OMNEE. The program successfully recruited its first class of residents during AY 2014-15. These four residents started July 2015.

During this past year the GME office worked with Dr. Joseph Ferrara to develop a Neurology residency program accredited by the ACGME. This will be a four year program with three residents per year. The program was awarded ‘initial accreditation’ status by the ACGME and the program will recruit its first class during AY 2015-16 to start July 2016. The other new program which started was the ACGME accredited Emergency Medical Services fellowship. This program also received ‘initial accreditation” status and recruited its first fellows which started July 2015. The Pediatric residency program moved from ‘initial accreditation’ to ‘continued accreditation’ this year.

Two training programs reached maturity during this academic year and graduated their first trainees. The pediatric residency program had four graduates and the podiatry program had one.
The graduates, residents and fellows, continue to take jobs with Carilion Clinic, within our region and throughout the country. Many have also been successful at matriculating into fellowship programs throughout the country. There were a total of 72 graduates of our GME programs this year which is a 20% increase from last year. While we do not expect nor do we desire all of our graduates to stay in our region, we are proud that 25 (33%) graduates are employed in practices in Virginia and 19 (25%) are practicing in our region of the state. Eleven (14%) of these graduates are employed by Carilion Clinic. This number does not include the five graduates who are employed as fellows at Carilion.
<table>
<thead>
<tr>
<th>Program</th>
<th>Program Director</th>
<th>Accreditation Status</th>
<th>Approved Positions</th>
<th>Filled Positions</th>
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<tr>
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We were again pleased with the results of the match this year. The number of residents and fellows in training at Carilion in July 2015 was 261. This represents an increase of 4% over the previous year. Overall, our programs are seeing a shift in the trainee medical school of origin. This year the number of US LCME medical school graduates entering our programs increased from 72 to 84 (16%) and our osteopathic graduates increased from 54 to 59 (9%). I believe this is the first time in our GME history that US medical school graduates have comprised the largest portion of our entering trainees.

Important work continues in integrating the residencies and fellowships into the quality programs at Carilion Medical Center. During this year, a group of program directors worked to create a standardized approach to training and assessing the competence of our residents in central venous line insertion. A system was also developed to track these procedures and complications of the line insertion via EPIC. The GMEC subcommittee for Quality and Patient Safety has continued its work of evaluating and promoting quality reports by the residents. They have also continued their ‘peer review process’ of reviewing quality reports concerning the residents.

III. Virginia Tech Carilion School of Medicine and Research Institute

The Virginia Tech Carilion School of Medicine had a notable 2014-15 academic year that included numerous student successes, enhancements to our curriculum and programming, and meaningful engagement with the community. In addition, VTCRI continued to attract world-class researchers with its scientists receiving substantial federal grant money from the National Institutes for Health and other prominent funding sources.

The school graduated its second class in May 2015. Our students continued to score significantly above the national mean on the United States Medical Licensing Exam Parts 1 and 2. Their excellent performance resulted in members of the entire Class of 2015 obtaining residency matches of their choice, and in highly competitive programs. Eleven students matched to residencies in our very own Carilion Clinic Virginia Tech Carilion School of Medicine program.

Research is a critical and required component of our student’s education. They have the opportunity to conduct research alongside world-class scientists at VTCRI and Virginia Tech as well as outstanding scientist-physicians at Carilion Clinic. Seventeen members of the Class of 2015 had their research published in national journals, and nearly every member of the class was invited to present at national conferences.

The Virginia Tech Carilion School of Medicine continues to attract high-caliber students. It is one of only several dozen schools across the country that utilizes the nontraditional Multiple Mini-Interview process for helping to determine an applicant’s potential for success. In 2014-15, the school received 3,527 applications and interviewed 246 students for 42 seats. Medical College Admission Test scores for our entering class ranged from 29-37 with a mean score of 32. Ten of the students had
either earned a graduate degree or had post-baccalaureate training from 23 institutions. In addition, VTCSOM awarded six named scholarships in 2015.

Curricular and other enhancements in programming in 2014-15 included the restructuring and renaming of our Basic Science group to the Department of Biomedical Science, chaired by Michael Friedlander, the school’s senior dean for research, executive director of VTCRI, and associate provost for health sciences at Virginia Tech. The change is designed to more closely align our medical educators and researchers.

The learning environment was an important focus over the last year with the first Learning Environment Survey administered in March 2013 to students, faculty, residents, nurses, and staff. The school established a Learning Environment Advocacy Committee to address student and faculty complaints of unprofessional behavior and student mistreatment. Broad representation from VTCSOM students, faculty and Carilion Clinic residents, nurses and administration give the program important viewpoints from all involved in the education of our students.

In other programming, the school launched a series of lunchtime sessions, led by guest speakers, on various issues relating to diversity. In addition to VTCSOMRI students, faculty, and staff, the series attracted employees from the Carilion Medical Center and the Jefferson College of Health Sciences as well as the community. Additionally, we launched a pipeline program with Hampton University in which select students spend two consecutive summers at VTC with researchers and clinicians preparing for entrance into medical school. The first enrollees spent the summer of 2015 doing research and participating in programs at Virginia Tech.

Fostering an engaged community continued to be a priority for the medical school last year and was particularly exemplified by the school hosting international Collaborating Across Borders conference to Roanoke (see Jefferson College of Health Sciences section below). Other events included the first Martin Luther King, Jr. Day of Service,—organized by our students— the hosting of two community art shows by the school’s Creativity in Health Education program, and sponsoring Within Reach, a community program geared toward students and other individuals who are considering careers in health care.

IV. Jefferson College of Health Sciences

Jefferson College of Health Sciences (Jefferson College) is a department of Carilion Medical Center. Nathaniel L. Bishop, D. Min serves as president of the College and Dr. Bishop also serves as Chair of the Department of Interprofessionalism for Virginia Tech Carilion School of Medicine (VTCSOM). The college has approximately 1,050 students from 31 states enrolled in allied health and nursing programs at undergraduate and graduate levels.

Jefferson College embraces the concept of collaboration and the opening of the Virginia Collegiate Anatomy Lab (VIAL) in May 2105 demonstrates that commitment. This $2.5 million dollar anatomy lab is a unique public-private partnership between Carilion Clinic, Jefferson College, Radford University and VTCSOM. This state-of-the
art cadaver and anatomy lab has fifteen tables and serves as a showcase for how educational institutions can work together to provide excellent learning opportunities for students.

In 2015 Jefferson College achieved Level V status from the Southern Association of College and Schools Commission on Colleges. This status authorizes the College to begin offering Doctoral degree programs. The College will admit students into the Doctor of Nursing Practice and Doctor of Health Sciences degrees in the fall of 2016.

Jefferson College and VTCSOM have become known for their leadership in the field of Inter-professional Education. In September, Jefferson College was a co-host of the Collaborating Across Boarders V (CAB V) Conference with Carilion Clinic, VTCSOM & RI and Virginia Tech. This international conference showcases research and education models in the field of Interprofessional Education. Jefferson College Master’s degree students in Physician Assistant, Nursing and Occupational Therapy take courses with VTCSOM medical students in teamwork, communication, and leadership. Their work includes a community health project that is shared in poster presentations to community leaders. Students also participate in an annual education simulation exercise designed to evaluate their ability to act in teams in response to a mock disaster.

V. Office of Continuing Professional Development (OCPD)

This annual report for 2014-2015 reflects continued evolution of the Office of Continuing Professional Development (OCPD), which just completed its second full year as a new department. The overall mission of our department is to provide effective and targeted professional development and clinically-focused training to health professionals who work across the entire spectrum of disciplines at Carilion Clinic, with emphasis upon the professional development needs of physicians and other front line health care providers. The department is organized into three related units: Continuing Medical Education (CME), Professional Development programs (PD) and Simulation-Based Training and Research (CSRPS). Each of these service areas are inter-connected by a common focus: to provide health professions learners at all developmental stages with targeted, effective learning opportunities they need in support of their clinical care, research, and educational responsibilities. The primary goal is that every learning activity provided or sponsored enabled participants to improve in what they do every day, whether it is patient care, teaching and assessing students of all types, communicating effectively, conducting high quality research or leading administrative units or other programs. All of these various types of learning activities ultimately contributed to safer and higher quality patient care. More information about various aspects of our department may be viewed on the OCPD web site here: https://www.carilionclinic.org/office-continuing-professional-development. A multidisciplinary OCPD Advisory Committee including one very active subcommittee (the Professional Wellness Committee) guides the endeavors of this department. The departmental activities below are organized according to the three units mentioned previously.
Continuing Medical Education

The goal of the Continuing Medical Education (CME) program at Carilion Clinic is to educate physicians and other health professionals in new areas of medical knowledge and clinical skills, so that their overall ability to meet the health needs of our patients and communities is continually enhanced. A major thrust seen in the CME realm is the revision of accreditation requirements to include:

- Increased attention to interdisciplinary teaching and learning activities;
- Reorganization of CME programs around the six general competencies of the physician;
- Increased levels of outcomes measurement with explicit attention to physician competencies and the impact of continuing education on clinical performance; and
- Revision of criteria for achieving accreditation with accommodation

A corresponding emphasis on multi-specialty portfolio development for Maintenance of Certification is also noteworthy, as this will require an expanded system of demonstrating continuing competence within each physician specialty and will be based on achieving a variety of continuing education and quality tasks.

During the 2014-2015 year, our CME office approved the provision of 57,260 CME hours which was an increase of approximately 1.5% over the previous year's total of 56,318 hours. These totals include all CME hours received by physicians, nurses/nurse practitioners, physician assistants, pharmacists, doctoral-trained persons/PhDs, therapists, managers, and administrators. CME worked with 39 local Carilion sponsors and 8 regional or other sponsors to provide CME credit hours. A total of 1,650 different physicians were served this year compared to 1,401 during the previous year. While approved CME hours for programs attended by physicians increased slightly, there is a trend upward in regard to hours approved for programs attended by nurses as well as other health professionals. This trend will likely continue, as it reflects both an emphasis on inter-professional continuing education programming as well as increased opportunity for nurses/nurse practitioners to count CME units toward their disciplinary continuing education requirements.

Major accomplishments by the CME team this year included:

- Full implementation of an online reporting system known as CME Tracker, whereby those who earn CME credits may access and print an updated, personalized report anytime it is needed; The link is available at: http://cmetracker.net/CARILION/Login?formname=SearchCreditInput);
- Full implementation of an online CME application system, thereby increasing the overall efficiency associated with initial submission of required documents for review/approval;
- Successful planning and delivery of our 65th Annual Spring Symposium, which was attended by 165 participants;
- Initial implementation of a two-year, $123,000 grant received from the Virginia Blood Foundation, wherein we are studying the effectiveness of a CME intervention on blood transfusion practices;
- Expanded staff to meet the continuing growth of CME programming, with the hiring of Mrs. Keri Vanblaricin in March 2015;
• Successful reaccreditation (four years) from the Medical Society of Virginia in June 2015
• For the first time, planning and delivery of an online CME module on Neuroimaging via the Cornerstone on Demand system (these 3 modules were required for all physicians in designated departments).

Office of Professional Development
The goal of the OPD program at Carilion Clinic is to provide a variety of resources and services designed to develop physicians, other health care providers and teaching faculty in their leadership, teaching, patient care, community service and research endeavors. This goal was accomplished through the provision of workshops, teaching sessions, educational and research consultation and online modules – all designed to reach a variety of target audiences with effective, timely programs.

During the 2014-2015 year, workshops were designed, implemented and/or supported in five major categories: the Physician Leadership Academy (PLA); the newly-created Health Professions Educator series (replaced the previous Faculty Development Fellowship); the newly-created GME Program Director series; the Current Topics in Healthcare series (replaced the previous Open Curriculum program); and ongoing orientation for newly-hired faculty members at the VTC School of Medicine. These five regularly scheduled series resulted in the provision of 38 different workshops involving 647 individual learners. The programs were open to a variety of audiences and awarded a total of 437 CME units to participants.

Major accomplishments by the professional development team this year included:
• Full implementation of our "faculty development on demand" model of delivering customized faculty development topics to clinicians during their regularly-scheduled meetings;
• Added a new .50 FTE staff member (Mrs. Elizabeth Pline), who supported a number of ongoing quality, research and program delivery projects across the Carilion medical center and VTCSOM;
• The development of a new, interdisciplinary educators’ academy, TEACH (http://info.vtc.vt.edu/teach/) which included development of a new, multidisciplinary Advisory Committee and several active subcommittees;
• Worked with colleagues in Graduate Medical Education and the Department of Internal Medicine, the planning and launch of a patient safety and care quality educational pilot program using a project team format;
• Worked with colleagues in Human Resources as well as Carilion senior leaders, to make major revisions to the ongoing Physicians’ Leadership Academy program, which included new training for selected Section Chiefs and an expanded orientation for newly hired Carilion Clinic physicians;
• Further expanded a collaborative relationship with Kimberly Whiter, Director of Faculty Development at Jefferson College of Health Sciences, resulting in shared opportunities for programming;
• Worked with colleagues from EAP, Nursing and several other Carilion Clinic departments, helping to establish the new Trust Team (Second Victim) program;
• Planned and established an annual education event, “Education Day”, which featured Dr. Sarah Bean from Duke University; several months of planning
culminated with this event which took place on October 28, 2015 and resulted in the attendance of approximately 80 trainees and 100+ faculty members from across the medical center, and also served as the official kickoff of the TEACH academy program;

- Continued expansion of our educational research infrastructure including collaboration on a variety of educational scholarship projects resulting in submitted and accepted posters and papers for several regional and national meetings; and
- In collaboration with colleagues from across the Carilion Academic Affairs units, the development of new scorecard measures focusing on education-related metrics.

Center for Simulation, Research & Patient Safety
The goal of the Center for Simulation, Research & Patient Safety (CSRPS) program is to improve patient safety and quality of care, to transform and enhance medical education through the use of clinical simulation training techniques, and to support faculty and other providers who engage in simulation-based research. The current CSRPS consists of an 800-square-foot facility located at Carilion Roanoke Memorial Hospital (Medical Education Building basement) where advanced, innovative teaching techniques and simulation technology are applied to the teaching of medicine. The evolving and dynamic tools found in the simulation center allow for hands-on learning of teamwork, patient safety principles, procedural and cognitive skills, and communication skills in a real-life environment with no risk to patients or staff. The CSRPS is a valuable resource that serves approximately 2,000 learners a year from multiple disciplines and programs, including the Carilion Clinic Hospitals (the single largest user of services), other Carilion Clinic staff from across the Southwest Virginia region, the Virginia Tech Carilion School of Medicine, Jefferson College of Health Sciences, and external parties who contract for services with the center. Instructional hours are tracked by discipline, and this past year involved approximately 1,000 instructional hours (includes both preparation and actual lab time).

This past year saw continued growth in demand for simulation services, especially from non-Roanoke based Carilion hospital facilities. Major expansion of training included development of specific programs for these outlying Carilion hospitals, escalation of care and internal code blue drills for Carilion Roanoke Memorial Hospital, fundamental clinical skills for nurses, procedural sedation training, imaging scorecard drills/training, “boot camp” experiences and standardized central line training protocols for incoming resident physicians. In the Center is currently offering over 140 different training courses for a variety of learners from across the health system and for external constituents groups, including 12 newly-developed programs during this year.

The increased demand for simulation-based training, along with the deteriorating state of the current physical space, has taxed the present physical facilities to the limit. In recognition of this fact, major plans for expansion of our simulation facilities were submitted and reviewed this year through the capital projects review process. A formal business plan was ultimately approved for funding by the Carilion Clinic Board of Governors on April 1, 2015. The final decision as to placement of the new simulation lab is pending. The present space is inadequate and staff members are storing simulation supplies and equipment in their offices and nearby closets, which
puts these expensive items at risk. Due to size and demand, scheduling requests
must be either scheduled out several months from the date initially requested and/or
occasionally “bumped” in order to accommodate the training needs of front-line patient
care personnel. The possible purchase of a mobile simulation bus is being explored
which, although expensive and not previously a priority in the capital plan, could
alleviate the space issue by temporarily providing one additional simulation room.

Major accomplishments by the simulation team this year included:
- Successful implementation of a new contractual services program provided to a
  local skilled nursing facility operated by Medical Facilities of America; additional
  training programs for other facilities are being planned;
- Stabilized the program staff around 3.20 FTEs, including sending the
  education specialist and Medical Director to a national training conference, and
two education specialists to a statewide simulation conference in August 2015;
- Successful participation in a regional perinatal care conference at Hotel
  Roanoke;
- Participation in a workshop on trauma care at the Collaboration Across Borders
  Conference (CAB V) in Roanoke;
- Implementation of a new research protocol concerning psychological fidelity, in
  collaboration with researchers at Jefferson College of Health Sciences;
- In collaboration with new VTCRI faculty member Dr. Sarah Parker, establishing
  formal research protocols focused on human factors research;
- In collaboration with the GME Office, implementation of new formal training
  protocols for ultrasound guided central line placement; and
- Continued support of clinical departments who include simulation related
  activities on their departmental scorecards.

VI. Department of Research and Development

The Research and Development Department (R&D) continues to promote and
steward scholarly activity at Carilion by supporting and administering all extramural
and intramural research and QA/QI activities. R&D’s mission is to maintain an
infrastructure for all research, improve coordination of resources, and foster research
collaborations within the Carilion Clinic and its affiliates.

During FY 2015, Research and Development refined services provided to Carilion
Clinic staff and physicians involved in research. Major initiatives that occurred this
year include:
- A revision of the Research Acceleration Program grant guidelines to encourage
  an explicit focus on research that aligns with organizational care goals.
- A focus on changes to the approach integrated analytics addresses research
data acquisition, reduction, and analysis needs.
- The re-development of the Carilion Clinic Research Development Training with
  the Office of Professional Development.
- Continued restructuring of Carilion Clinic Research Day to encourage higher
  clinician participation and to avoid overburdening the system with multiple
  competing small conferences.
• The consistency and breadth of communications related to research improved within Carilion Clinic. This has primarily been completed with quarterly research newsletters as well as the strategic use of the Carilion Research listserv.

• In FY 2015 Carilion continued to participate in the 22 Children's Oncology Group research projects and the 43 Gynecology Oncology Group research projects. These federally-funded projects make new cancer diagnostic tools and cancer treatment options available to Carilion's pediatric and female patients, as well as promoting the advancement of cancer diagnoses and treatments worldwide.

• Research Day 2015 was again a success, with an 80% increase in attendance from the previous fiscal year, there were over 337 clinicians and researchers in attendance from Carilion Clinic, Virginia Tech, VTC School of Medicine, VTC Research Institute, Jefferson College, and the Veterans' Administration. Out of the 127 abstract submitted, 96 research projects were showcased at the event.

• The revenue over expenses for clinical trials continued to improve in FY2015. This is a direct result of the use of feasibility meetings with departments and potential clinician researchers and a more selective process by which trials are entered by the organization.

• Grant and contracts revenue and expenditures continued to increase this year.

The department’s goals for FY2016 include a focus on a participatory approach to:

• Clarify researcher typologies in Carilion Clinic,
• Develop a strategic vision for Carilion Clinic research emphasis areas,
• Develop a system-wide set of metrics for research success that includes traditional areas of research dissemination and funding, but expand to documented improvements in patient care, and
• Continue improvement on the number and types of research communications.

• Finally, while the current federal funding climate continues to be challenging, our goal is to continue to increase the number of federal grant submissions that include full organizational indirect costs.

**General Administration**

• During Fiscal Year 2015 R&D continued assisting investigators in the preparation of conducting clinical trials and proposal submissions, developing budgets, conducting negotiations and stewarding financial management of the grants.

• R&D booked nearly $94,645 in overhead for the institution, department and PI funds, which can be expended to cover personnel, education and research needs.

• During this year, R&D has continued working to improve the research application process for investigators by continuing to tweak the website, update the SOPs and policies related to research, and modify investigator forms for ease of use.

**Grants and Contracts**

• During FY 2015, Carilion received 31 new extramurally funded awards; 21 of these were awarded to CMC and 10 to Carilion’s hospital sites and the School of Medicine. These new awards totaled over $5,449,172 dollars.
• In FY 2015, there were nearly $5 million dollars of grant expenditures.
• Currently R&D manages 21 active extramural awards funded by federal, federal flow-through, state, industry and by foundations.
• To date, Carilion R&D has managed over $28 million dollars in extramural awards through FY15.

Clinical Trials
• During FY15, Carilion Clinic had a decrease in participation; however, we made progress in closing the gap of clinical trial loss with the goal of breaking even on every trial. We made an improvement of approximately $250K in this fiscal year. Carilion is currently participating in 44 clinical trials, counting the Gynecologic Oncology Group (43 actual trials) and the Children’s Oncology Group (22 actual trials) as a single unit each, which has held steady since last FY.
• In FY15, Carilion Clinic recorded $1,076,342 in clinical trial expenditures. There was a total of $822,057 in direct cost revenue and $175,045 in indirect revenues, for a total of $997,101 in revenue.
• In FY15, 502 subjects were enrolled.

Research Acceleration Program (RAP) Grants
• During FY15, seven RAP grants were awarded, for a total of $157,620. Of these, two had collaborations with VT or VTCSOM and one had collaborations with Johns Hopkins Howard County, Johns Hopkins Bayview, and VCU.
• In FY15, expenditures on all active RAP projects were around $135,746. Since the program’s inception in 2007, total expenditures have been over $1,005,766.
• Eighty-six RAP projects have been funded and are either completed or ongoing.
• Since the program began, 50% of all awards were accepted as abstracts for Research Day, and approximately 23% of awarded projects had manuscripts published or accepted.

Non-Externally Funded – Investigator Initiated Projects
• During FY 2015, R&D received and processed 218 Investigator Initiated Non-Funded Research or QA/QI Applications.
  • 35 applications from Medicine
  • 3 applications from Infectious Disease
  • 12 applications from Orthopedics
  • 4 applications from Dermatology
  • 1 applications from Radiology
  • 8 application from Pediatrics
  • 6 applications from OB/GYN
  • 13 applications from Surgery
  • 22 applications from Nursing
  • 19 applications from Pharmacy
  • 14 applications from Psychiatry
  • 7 applications from Emergency Medicine
  • 15 applications from JCHS
  • 13 applications from various service departments within Carilion
• 104 of the 172 applications required external agreement(s), 48 of which included Business Associate Agreements for access to PHI.
  • 54 agreements with the VTCSOM
  • 17 agreements with VT, several of which involved the VTCRI and the Vet Med School
  • 25 other external agreements
  • 8 Independent contractor agreements

**Carilion Clinic Intellectual Property Activities**
• Greer/Gleason - CC 2015 - 102
  Provisional Patent Application
  Syringes and Methods of Using Them to Treat Over Active Bladder

• Phyllis Whitehead - CC 2016-100
  Invention Disclosure submitted
  No patent application - potential for copyrights or trademark registration

• William Hodges - 2016 - 102
  Invention Disclosure submitted
  CTaC Information Systems (CIS)
  No potential for a patent application; yet, a very good communication application for CC patient transportation

• Jacqueline Treichlrer - CC 2016-101
  Invention Disclosure submitted
  Song Therapy
  Still pending regarding potential filing a patent application

• Michael Kolodney, MD - 2016 - 103
  Provisional Patent Application Filed
  Devices and Methods for Treating Tissues and Tissue Conditions

**VII. Department of Biomedical and Research Ethics**

The department coordinates clinical ethics services at Carilion Medical Center and supports two Institutional Review Board (IRB) committees charged with reviewing and approving human subjects' research throughout Carilion Clinic. During FY 2015 the department continued to provide core services in ethics education, policy development, and consultation. In partnership with the IRB committees, the department provided oversight to 315 open research protocols, an increase of 40 percent since FY 2012. It also provided staffing and oversight for the IRB committees and educated IRB members and research staff about regulations and policies to protect human research subjects. The department frequently meets with researchers and research coordinators to discuss research design and regulatory issues in order to facilitate the review process.
Ethics

- Represented Carilion in a statewide coalition of hospitals developing a community standard of care in making decisions to withhold or withdraw life-prolonging treatment determined by physicians to be medically or ethically inappropriate.
- Strengthened CMC ethics consultation service by instituting twice monthly meetings of consultants, amended the consultation process and bylaws, and arranged for three physicians and a clinical nurse specialist to attend a four-day intensive training program at UVA.
- Served on a steering committee to implement Advanced Care Planning process in primary care practices across Carilion, beginning with a pilot project in Boone’s Mill.
- Responded to concerns about the difficulty in documenting brain death cases in Epic by leading an initiative to create a new process which allows the use of smart texts.

IRB

- Developed a standard template for research protocols that will be used by both the IRB and Research & Development, allowing for more in-depth and efficient reviews.
- Revised the IRB Research Application to better document information concerning 1) protocol procedures, 2) consent training for student researchers, 3) requirements for statistical validity and 4) requirements for FDA regulated studies.
- Updated the process for determining whether quality assessment/quality improvement projects could also be considered human subjects research needing IRB review.
- Served on a state committee of IRBs that developed proposed legislation to correct limitations which make it difficult for institutions to have flexibility in applying federal research regulations.
- Recruited Jennifer Vaughn, M.D., a hematologist-oncologist with research experience, to serve as IRB vice chair.

VIII. Visiting Medical School Students and Visiting Residents

Visiting medical school students and residents from across the country come to Carilion Clinic for two and/or four week rotations for academic credit.

Carilion Clinic currently has 51 active affiliation agreements with a variety of medical schools and hospitals compared to 38 agreements last year. While Carilion’s primary training relationship is with the Virginia Tech Carilion School of Medicine (VTCSOM), Carilion also regularly precepts students from the Edward Via College of Osteopathic Medicine – Virginia Campus (VCOM).

Carilion Medical Center (CMC) hosted 396 VTCSOM and VCOM third year rotations this year. Additionally there were 456 fourth year rotations. The fourth year rotations comprised of students from VTCSOM and VCOM as well as from other medical schools. There were also 72 rotations with visiting residents from Lewis Gale/Montgomery Regional this year compared to 69 rotations last year.
Carilion New River Valley (CNRV) hosted 112 third year rotations this year compared to 90 third year rotations last year. Additionally there were 88 fourth year rotations this year compared to 86 fourth year rotations last year. These rotations were comprised of only VCOM students. There were also 116 rotations with visiting residents from Lewis Gale/Montgomery Regional this year compared to 88 rotations last year.

Carilion Giles Memorial Hospital (CGMH) hosted 10 fourth year rotations compared to 20 fourth year rotations last year. The rotations were comprised of only VCOM students.

Carilion Tazewell Community Hospital (CTCH) hosted 1 fourth year rotation compared to 5 fourth year rotations last year. The rotations were comprised of only VCOM students.

Roanoke Valley and Southside Carilion Clinic Ambulatory Sites hosted 14 rotations compared to 12 rotations last year. These rotations were comprised of VCOM, UVA and VCU students.

New River Valley and Southwest Carilion Clinic Ambulatory Sites hosted 19 rotations compared to 15 rotations last year. These rotations were comprised of UVA and VCU students.

Visiting medical students and residents completed 198 observation visits this year compared to 90 observation visits last year. This increase includes the new shadowing programs for VCOM second year students in Internal Medicine and Family Medicine at CRMH, in Pharmacy at CGMH and with ICU nurses at CNRV.

**Nursing Student Rotation Volume**

Nursing clinical rotations are now provided at 6 Carilion Clinic hospitals. Carilion Stonewall Jackson Hospital (CSJH) recently added to the grand nursing schedule to streamline the placement process and allow the CSJH staff to focus on exceptional clinical care, sending students through VSA). Rotations are also offered at numerous inpatient and outpatient offices with two completely new areas added to the grand schedule: Little Saints at CNRV (adding a much needed additional “Peds” option for students) and Pulmonary and Sleep Medicine at CSMOB. During nursing rotations, students are under the supervision of both school instructors and Carilion Clinic staff. One more hospital and two new areas for nursing students to rotate!

1,817 nursing students (up 882 from last year) were accommodated at Carilion Clinic facilities. The majority of students are from Jefferson College of Health Sciences (JCHS) (300) Radford University (RU) (448) and Virginia Western Community College (VWCC) (432). We also serve as a clinical nursing site for Liberty University (LU) (38), ECPI (300), Patrick Henry Community College (PHCC) (85), Wytheville Community College (WCC) (42), New River Community College (NRCC) (74), Giles County Technical Center (40) and ITT (44) Dabney S. Lancaster Community College (14).
Nurse Practicum Volume
During clinical practicum, fourth year nursing students are placed one-to-one with a Carilion nurse for an intensified clinical experience prior to graduation. Practicums are scheduled for both the fall and spring semesters.

283 practicum nursing students were accommodated at Carilion Clinic facilities. The majority of the students are from JCHS (98) and RU (43), with additional students from LU (7) and JMU. VWCC recently inquired about practicum opportunities.

Nurse Practitioner Volume
Advanced practice nursing students complete clinical rotations in primary care, internal medicine, pediatrics, women’s health, and other specialties under the supervision of a Carilion provider. Coordinated 155 Nurse Practitioner rotations (up 76 from last year)

Emergency Medical Technician (EMT) Student Volume
1,087 EMT students (up 812 from last year) were placed for training at Carilion facilities.

Shadowing Experiences Volume
1,867 students (up 1,311 from last year) from local high schools and colleges, as well as community members, participated in the job observation program. Each student averaged 3 visits per student.

Caring Careers
CMC participated in 4 career events, reaching approximately 116 students. Camp Carilion hosted 17 rising 8th and 9th graders (up one student from last year), spending time at CRMH, VTCSOM, and JCHS, and had 64 staff/students helping to provide hands-on activities.

Internships
Administrative internships were provided to 38 bachelors and masters level students (up 27 from last year) seeking career experiences. Nine students were provided a paid opportunity.

Scholarships
Visiting Student Affairs coordinates the application and selection process for three privately funded scholarships.
Carilion Clinic Publications

Carilion Medical Center
Department of Emergency Medicine


Virginia Tech Carilion Research Institute


Department of Family and Community Medicine


Department of Medicine
Cardiology Section

Dermatology Section

Gastroenterology Section


General Medicine Section


Geriatric Medicine Section


Hospice and Palliative Care Section

Pulmonary and Critical Care Section


Rheumatology Section


Virginia Tech and Virginia Tech Carilion Research Institute


**Department of Obstetrics and Gynecology**  
**General Obstetrics and Gynecology Section**


Gynecologic Oncology Section


Maternal and Fetal Medicine Section


Reproductive Endocrinology and Infertility Section


Urogynecology Surgery Section


Department of Orthopaedics

Adult Reconstruction Section


Foot and Ankle Section

Hand and Upper Extremity Surgery Section
• Bravo, C. Treatment of proximal humerus fractures with intramedullary nailing. Journal of AAOS. Submitted for publication, in review.

Spine and Pediatric Surgery Section

• Behrend, C., Schonbach, E., Coombs, A., Coyne, E., Prasarn, M., & Rechtine, G. (2014). Smoking cessation related to improved patient-reported pain scores


Sports Medicine Section


Trauma and Fracture Section


Department of Pediatrics

Community Pediatric Section


Hospitalists Section


Pulmonary Section


Virginia Tech Carilion Research Institute


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**Department of Psychiatry and Behavioral Medicine**

**Clinical Faculty**


- Detweiler, M. *Association of delirium with atrophy, intracranial extravascular calcifications and communicating hydrocephalus among Veterans at a Veterans Affairs Hospital.* Manuscript submission.

- Detweiler, M. *Association of white matter lesions with delirium among Veterans at a local VA Hospital: Head CT evidence.* Manuscript submitted.

- Detweiler, M. *Treatment of combat nightmares in Veterans with PTSD at the Salem VAMC.* Manuscript submitted.


Virginia Tech and Virginia Tech Carilion Research Institute


Department of Radiology
Virginia Tech Carilion Research Institute


Department of Surgery
Critical Care Surgery Section

General and Breast Surgery Section:

Trauma Surgery Section:

Department of Academic Affairs


**Department of Nursing**


Pharmacy Department
Carilion Clinic – Virginia Tech Carilion School of Medicine Residency and Fellowship Regional and National Publications

Cardiology Fellowship

Emergency Medicine Residency

Dermatology Residency

Internal Medicine Residency:

Obstetrics and Gynecology Residency
**Pediatric Residency**

**Psychiatry Residency**
- Iskandar J.W., & Vance E. (2014). Childhood trauma and conversion disorder in a 16 year old boy. *Journal of Primary Care Companion for CNS Disorders*. (Accepted.)

**Pulmonary Critical Care Fellowship**


**Surgery Residency**


Jefferson College of Health Sciences

Virginia Tech Carilion School of Medicine Publications

Department of Biomedical Science


• Haldiman, R., Redican, K., Hosig, K., Deater-Deckard, K. (2014). Addressing the challenges and costs of healthcare for at-risk children in Roanoke, Virginia, USA. *American Journal of Medical Sciences and Medicine, 2.*


• Sangster, J.K., Panciera, D., Abbott, J., Zimmerman, K., & Lantis, A.C. Cardiac biomarkers in hyperthyroid cats (vol. 27). *Journal of Veterinary Internal Medicine.*

• Saulnier, D., Tyson, R., Daniel, G.B., Rico Pereira, C., & Lantis, A. Imaging of the canine heart using non ECG-gated 16 and ECG-gated 64 detector computed tomography. *Veterinary Radiology & Ultrasound.*


• Wesselsonski, S., Borgiaelli, M., & Abbott, J. Discrepancies in identification of left atrial enlargement using left atrial volume vs. left atrial to aortic root ratio (vol. 37). *Journal of Veterinary Internal Medicine.*


Department of Interprofessionalism

Virginia Tech Carilion School of Medicine Medical Students’ Publications

Class of 2015


Class of 2016


Class of 2017

• Dalkin W, Taetzsch T, & Valdez G. The fibular nerve injury method: a reliable assay to identify and test factors that repair neuromuscular junctions. *Journal of Visualized Experiments (JoVE).*

• Cooley ID, Read KA, Oestreich KJ. Trans-presentation of IL-15 modulates STAT5 activation and Bcl-6 expression in TH1 cells. *Sci Rep.* 2015 Oct 26;5:15722. doi: 10.1038/srep15722 (PMID: 26500048)

Class of 2018


Non-Research Domain Publications By VTCSOM Students

Class of 2015


Class of 2016


Carilion Clinic State, Regional, National and International Presentations

Carilion Medical Center
Department of Emergency Medicine

- Borloz, MP. Anchors, cues, and confirmation: Avoiding cognitive errors in the Emergency Department. Talk presented at: 3rd Annual Southwest Virginia Emergency Medicine Conference; September 24, 2015; Daleville, VA.

- Burton, JH. Procedural Sedation for the Geriatric Emergency Department Patient. Presented at International Conference on Geriatric Emergency Medicine; December, 2014; Taipei, Taiwan.

- England, B, Ivey, K, Cantwell, L, Shaver, K, & Perkins, JC. Risk factors associated with code blue or rapid response within 12 hours of admission to a non-ICU bed. Oral presentation presented at: The AAEM Scientific Assembly; March, 2015; Austin, TX.

- Fortuna, T. Sim, it's not just for the sim lab anymore. Talk presented at: The annual meeting of the Council of Emergency Medicine Residency Directors; April, 2015; Phoenix, AZ.

- Heitz, C. Using technology in the classroom. Continuing Professional Development; May, 2015; Roanoke, VA.


- Perkins, J. Appropriate use of imaging in the patient with abdominal pain. Talk presented at: Virginia ACEP Hot Topics; February, 2015; Hot Springs, VA.

- Perkins, J. Simple complaints in patients with HIV. Talk presented at: Virginia ACEP Hot Topics; February, 2015; Hot Springs, VA.

- Perkins, J. Predictors of decompensating on the floor. Podcast on: Emedhome.com; February, 2015; Baltimore, MD.

- Perkins, J. Simple complaints in patients with HIV. Talk presented at: The ACEP Scientific Assembly; October, 2014; Chicago, IL.

- Perkins, J. Fungal infections – When broad spectrum antibiotics aren’t broad enough. Talk presented at: The ACEP Scientific Assembly; October, 2014; Chicago, IL.

- Perkins, J. Rapid fire: Lung bugs and drugs 2014. Talk presented at: The ACEP Scientific Assembly; October, 2014; Chicago, IL.

- Perkins, JC. Acid-base made easy. Talk presented at: The ACEP/SEMPA APPA Academy; April, 2015; Las Vegas, NV.

- Perkins, JC. Electrolyte disorders. Talk presented at: The ACEP/SEMPA APPA Academy; April, 2015; Las Vegas, NV.

- Perkins, JC. The immunocompromised patient: When a good offense is the best defense. Talk presented at: The ACEP/SEMPA APPA Academy; April, 2015; Las Vegas, NV.
Perkins, JC. Are you interdiscipline-ing? How to effectively organize and run combined multi-disciplinary conferences. Talk presented at: The annual meeting of the Council of Emergency Medicine Residency Directors; April, 2015; Phoenix, AZ.

Perkins, JC. CPC presentation: A journey into the depths of cerebellar pathology. Talk presented at: The annual meeting of the Council of Emergency Medicine Residency Directors; April, 2015; Phoenix, AZ.

Perkins, JC. Establishing a sepsis alert protocol in an academic medical center. Talk presented at: Mediterranean Emergency Medicine Conference VIII; September, 2015; Rome, Italy.

Perkins, JC. Identifying patients at risk of early decompensation when admitted to a non-ICU setting. Talk presented at: Mediterranean Emergency Medicine Conference VIII; September, 2015; Rome, Italy.

Perkins, JC. From suspicion to identification – caring for the septic patient from pre-hospital through the emergency department. Talk presented at: The Fall Sepsis Symposium; September, 2015; Roanoke, VA.

Prusakowski, M. Strengthening program director and clerkship director relationship to enhance recruitment. Talk presented at: The annual meeting of the Council of Emergency Medicine Residency Directors; April, 2015; Phoenix, AZ.

Stanley, EK. Extreme screw-ups in extreme sports. Lecture presented at: Star Points Conference, Carilion Clinic; September 19, 2015; Roanoke, VA.

Thompson, T, Uhde, J, Matich, W, Perkins, JC. The effect of Sepsis Alert on ED stay and time to antibiotics in sepsis patients. Oral presentation presented at: The AAEM Scientific Assembly; March, 2015; Austin, TX.

Trinkle, DB, Kennedy, WC, Musick, DW, Lane, HA, Heitz, CR. Interprofessional team stimulations: Bringing clinical relevance to roles and scopes. Workshop facilitator at: Collaborating Across Borders National Conference in Interprofessionalism Healthcare; September 29, 2015; Roanoke, VA.

Young, JS. Ultrasound: Basics and beyond. Talk presented at: 3rd Annual Southwest Virginia Emergency Medicine Conference; September 24, 2015; Daleville, VA.

Young, JS. An innovative approach to junior resident introductory E-FAST education. Oral Presentation at: The SAEM National Meeting; May, 2015; San Diego, CA.

Young, JS. Effects of a resident – driven nursing ultrasound – guided peripheral IV access education program on central venous catheter or placement rates in an academic ED. Oral Presentation at: The SAEM National Meeting; May, 2015; San Diego, CA.

Young, JS. Effects of a resident-driven nursing ultrasound-guided peripheral IV access education program on central venous catheter placement rates in an Academic ED. Oral abstract presented at: The SAEM Mid-Atlantic Regional Meeting; February 28, 2015; Washington, DC.

Young, JS. Effects of a resident – driven nursing ultrasound – guided peripheral IV access education program on central venous catheter or placement rates in an academic ED. Oral Presentation at: The SAEM Mid Atlantic Regional Meeting; February, 2015; San Diego, CA.
Young, JS. Postpartum complications and maternal resuscitation. Grand Rounds at: University of Texas Southwest-Austin Department of Emergency Medicine; September, 2014; Austin, TX.

Young, JS. Teaching old dogs new tricks. Grand Rounds at: University of Texas Southwest-Austin Department of Emergency Medicine; September, 2014; Austin, TX.

Virginia Tech Carilion Research Institute


Gourdie, RG. Presentation on Gourdie Lab Research. Talk presented at: The Asia Pacific Heart Rhythm Society; October, 2015; Sydney, Australia.

Gourdie, RG. Presentation on Gourdie Lab Research. Keynote speaker at: The Heart Rhythm Society; May, 2015; Boston, MA.

Gourdie, RG. Presentation on Gourdie Lab Research. Talk presented at: The Keystone Meeting, Myocyte-Fibroblast Interactions, Copper Mountain Resort; April, 2015; Copper Mountain, CO.

Gourdie, RG. Presentation on Gourdie Lab Research. Talk presented at: The University of Nebraska Medical Center; March, 2015; Omaha, NE.

Gourdie, RG. Presentation on Gourdie Lab Research. Talk presented at: The Department of Medicine, Cleveland Clinic; March, 2015; Cleveland, OH.

Gourdie, RG. Presentation on Gourdie Lab Research. Talk presented at: The Astra Zeneca-Virginia Brain State Initiative; February, 2015; Fairfax, VA.

Gourdie, RG. Presentation on Gourdie Lab Research. Talk presented at: The Keystone Meeting, Copper Mountain Resort, Myocyte-Fibroblast Interactions; February, 2015; Copper Mountain, CO.

Gourdie, RG. Presentation on Gourdie Lab Research. Talk presented at: The American Heart Association, Scientific Sessions; November, 2014; Chicago, IL.

Gourdie, RG. Presentation on Gourdie Lab Research. Talk presented at: The American Heart Association, Scientific Sessions; November, 2014; Chicago, TX.

Gourdie, RG. Presentation on Gourdie Lab Research. Talk presented at: The Department of Pharmacology, Vanderbilt University; November, 2014; Nashville, TN.

Lisinski, J, Mueller, C, LaConte, S. Synchronization of examination protocols across multiple Siemens Magnetom systems. Talk presented at: The North American IDEA Users Group Meeting; 2014; Boston, MA.

Lisinski, J, Mueller, C, LaConte, S. Synchronization of examination protocols across multiple Siemens Magnetom systems. Talk presented at: The North American IDEA Users Group Meeting; 2014; Boston, MA.


Oestreich, KJ. Regulatory mechanisms underlying T helper cell flexibility. Talk presented at: The Research in Progress Seminar Series, VA-MD Regional College of Veterinary Medicine; October, 2014; Blacksburg, VA.

Department of Family and Community Medicine
• Brown, B. Malpresentations. Oral presentation presented at: Advanced Life Support in Obstetrics Conference; July 18, 2014; Lynchburg, VA.
• Chen, E, Thompson, J, Aggarwal, A. Increasing resident and staff comfort with QI: Lessons learned with the introduction of a new QI curriculum. Oral presentation presented at: The 48th Annual Society of Teachers of Family Medicine Spring Conference; April 26, 2015; Orlando, FL.
• Greenawald, M. Being well while leading well. Oral presentation presented at: The American Academy of Family Physicians Chief Resident Leadership Development Program Fall Workshop in conjunction with the AAFP Annual Assembly FMX; September 30, 2015; Denver, CO.
• Greenawald, M. Mentoring and coaching. Oral teleconference presentation presented for: Participants in the Society of Teachers of Family Medicine Emerging Leaders Fellowship; July 14, 2105; Roanoke, VA.
• Greenawald, M, Elward, K. Hypertension self-assessment module group learning session. A workshop in conjunction with the maintenance of certification in family medicine. Oral presentation presented at: The Virginia Academy of Family Physicians Regional Workshop in conjunction with The Virginia Academy of Family Physicians annual meeting co-sponsored by the Virginia Department of Health; July 30, 2015; Williamsburg, VA.
• Greenawald, M, Elward, K. Health behavior self-assessment module group learning session. A workshop in conjunction with the maintenance of certification in family medicine. Oral presentation presented at: The Virginia Academy of Family Physicians Regional Workshop in conjunction with The Virginia Academy of Family Physicians annual meeting; July 31, 2015; Williamsburg, VA.
• Greenawald, M. Chief resident leader development workshop. Oral presentation presented at: The South Carolina Academy of Family Physicians/South Carolina AHEC Chief Resident Leadership Development; June 7, 2015; Myrtle Beach, SC.
• Greenawald, M. Teambuilding: The desert survival exercise and team formation. Oral presentation presented at: The American Academy of Family Physicians Chief Resident Leadership Development Program – Session 1 and 2; May 7 and 9, 2015; Kansas City, MO.
• Greenawald, M, Hepworth, J. Professional development of self: Emotional intelligence, the Meyers-Briggs Type Inventory (MBTI) and the MBTI in conflict. Oral presentation presented at: The American Academy of Family Physicians Chief Resident Leadership Development Program – Session 1 and 2; May 8 and 10, 2015; Kansas City, MO.
• Greenawald, M, Hepworth, J. Leadership competencies: The five practices of effective leaders. Oral presentation presented at: The American Academy of Family
Physicians Chief Resident Leadership Development Program – Session 1 and 2; May 8 and 10, 2015; Kansas City, MO.

- Greenawald, M, Potts, S. The art of principled negotiation. Oral presentation presented at: The American Academy of Family Physicians Chief Resident Leadership Development Program – Session 1 and 2; May 8 and 10, 2015; Kansas City, MO.
- Greenawald, M. Ensuring leadership success: Seeking and receiving feedback. Oral presentation presented at: The American Academy of Family Physicians Chief Resident Leadership Development Program – Session 1 and 2; May 9 and 11, 2015; Kansas City, MO.
- Greenawald, M. Ensuring leadership success: Transforming vision into action through goal setting and coaching. Oral presentation presented at: The American Academy of Family Physicians Chief Resident Leadership Development Program – Session 1 and 2; May 9 and 11, 2015; Kansas City, MO.
- Greenawald, M. Taking the next steps in your leadership journey. Oral presentation presented at: The American Academy of Family Physicians Chief Resident Leadership Development Program – Session 1 and 2; May 9 and 11, 2015; Kansas City, MO.
- Greenawald, M. Chronic pain management: Better safe than sorry. Oral presentation presented at: The 66th Annual Carilion Clinic Spring Symposium; April 23, 2015; Roanoke, VA.
- Greenawald, M, Elward, K. Health behavior self-assessment module group learning session. A workshop in conjunction with the maintenance of certification in family medicine. Oral presentation presented at: The Virginia Academy of Family Physicians Regional Workshop; April 25, 2015; Roanoke, VA.
- Greenawald, M, Metzler, L. Diabetes 2015: Let’s get practical, let’s make progress. Oral presentation presented at: The Carilion Clinic Department of Family and Community Medicine Department Central Meeting and CME event; March 21, 2015; Roanoke, VA.
- Greenawald, M, Elward, K. Health behavior self-assessment module group learning session. A workshop in conjunction with the maintenance of certification in family medicine. Oral presentation presented at: The Virginia Academy of Family Physicians Regional Workshop in conjunction with The Virginia Academy of Family Physicians annual meeting; March 28, 2015; Richmond, VA.
- Greenawald, M, Elward, K. Pain management self-assessment module group learning session. A workshop in conjunction with the maintenance of certification in family medicine. Oral presentation presented at: The Virginia Academy of Family Physicians Regional Workshop in conjunction with The Virginia Academy of Family Physicians annual meeting; March 28, 2015; Richmond, VA.
- Greenawald, M, Elward, K. Health behavior self-assessment module group learning session. A workshop in conjunction with the maintenance of certification in family medicine. Oral presentation presented at: The Virginia Academy of Family
Physicians Regional Workshop in conjunction with The Virginia Academy of Family Physicians annual winter meeting; January 30, 2015; Wintergreen, VA.

- Greenawald, M. Congestive heart failure self-assessment module group learning session. Oral presentation at: The Virginia Academy of Family Physicians Regional Workshop in conjunction with the Maintenance of Certification in Family Medicine; November 8, 2014; Richmond, VA.

- Greenawald, M, Elward, K. Pain management self-assessment module group learning session. Oral presentation presented at: The Virginia Academy of Family Physicians Regional Workshop in conjunction with the Maintenance of Certification in Family Medicine; October 18, 2014; Charlottesville, VA.


- Greenawald, M. Sustaining a healthy, high-functioning team. Oral presentation presented at: The American Academy of Family Physicians Chief Resident Leadership Development Program Fall Workshop in conjunction with the American Academy of Family Physicians Annual Assembly; October 22, 2014; Washington, DC.

- Greenawald, M. Being well while leading well. Oral presentation presented at: The American Academy of Family Physicians Chief Resident Leadership Development Program Fall Workshop in conjunction with the American Academy of Family Physicians Annual Assembly; October 24, 2014; Washington, DC.

- Greenawald, M, Potts, S. The fishmonger's secret to motivating yourself and others. Oral presentation presented at: The American Academy of Family Physicians Chief Resident Leadership Development Program Fall Workshop in conjunction with the American Academy of Family Physicians Annual Assembly; October 24, 2014; Washington, DC.

- Hofford, R. ADHD: What’s new, what’s our data. Oral presentation presented at: The Virginia Academy of Family Physicians annual meeting; July 31, 2015; Williamsburg, VA.

- Hofford, R. Resident evaluation software. Oral presentation presented at: The Southwest Virginia Graduate Medical Education Consortium meeting; April 6, 2015; Wise, VA.

- Hofford, R. Empowerment to improve health care policy. Oral presentation presented at: The Eastern Virginia Department of Family Medicine Grand Rounds; October 14, 2014; Norfolk, VA.


- Penwell-Waines, LM, Greenawald, MH. If you build it, they will come: Promoting faculty and resident R+R (Reflection and Renewal). Lecture Presented at: The 36th Forum for Behavioral Science in Family Medicine, STFM/MCW; September 17-20, 2015; Chicago, IL.
• Robiner, W, Schuman, C, Penwell-Waines, L. Business of practice in academic health centers. Oral presentation presented at: The Association of Psychologists in Academic Health Centers 7th National Conference; February 5-7, 2015; Atlanta, GA.
• Sweet, M. Common screenings: Updates and controversies. Oral presentation presented at: The 66th Annual Carilion Clinic Spring Symposium; April 23, 2015; Roanoke, VA.
• Thompson, J. Increasing resident and staff comfort with QI. Oral presentation presented at: The I3 Collaborative Meeting; April 18, 2015; Greenville, NC.
• Thompson, J. Decreasing emergency department utilization: Next steps. Oral presentation presented at: The I3 Collaborative Webinar; February 13, 2015; Roanoke, VA.
• Truxillo, R. Old docs, new tricks: A 2015 technology update for physicians. Oral presentation presented at: The Virginia Osteopathic Medical Association Spring Conference; April 17 and 19, 2015; Williamsburg, VA.

**Department of Medicine**

**Cardiology Section**
• Ball, T. The invasive management of acute ischemic stroke. Talk Presented at: American Heart Association: Roanoke Heart Walk Executive Breakfast Cardiovascular Disease Update 2015; April 28, 2015; Roanoke, VA.
• Ball, T. Success - Overcoming the odds and celebrating the Wow! Talk presented at: The Schwartz Center Rounds; March 25, 2015; Roanoke, VA.
• Ball, T. 3rd Annual Advances in Cardiac Imaging Conference. Invited Speaker: Breaking the ICE – Intracardiac Echocardiography; November 1, 2014.
• Ball, T. Foundation of Southwest Virginia Association of Philippine Physicians. Invited Speaker: Lower Extremity Arterial and Venous Vascular Disease; April 26, 2015.
• Sane, DC. Glucose-mediated degradation of HAI-1 as a potential mechanism for cardiovascular and oncologic manifestations of diabetes. Talk presented at: The Carilion Clinic Research Day 2015; April, 2015; Roanoke, VA.
• Savage, R. Executive medicine. Talk presented at: Medical Grand Rounds, Carilion Clinic; June 12, 2015; Roanoke VA.

**Dermatology Section**
• Chavan, R. N., State of the Art in Melanoma: Pathology, Diagnosis and Treatment, Presentation at the Internal Medicine/Surgery combined Grand Rounds, Carilion Clinic, Roanoke, VA.
• Chavan, R. N., Granuloma Annulare: A dendritic cell etiology, Talk presented at International Society of Dermatopathology.
• Naseem, R, Koch, A, Phillips, MA. Two uncommon adverse effects of vancomycin presenting in the same patient. Talk presented at: The VA State Meeting, Annual College of Physicians; March 8, 2015; Richmond, VA.

General Medicine Section
• Jones, S, Staykova, M, Johnson, B. Interprofessional simulation - Meeting the needs of our Veterans. Panel presentation presented at: Collaborating Across Borders V; September 29, 2015; Roanoke, VA.
• Jones, S, Staykova, M, Steer, G, Poulsen, C, Nicely, S, Johnson, B, Trinkle, D, Lane, H. Our 5 year journey, crossing interdisciplinary boundaries. Workshop facilitator at: Collaborating Across Borders V; September 29, 2015; Roanoke, VA.
• Kroker-Bode, CA, Kees, DW, Morgan, TK. Development of an interdisciplinary resident peer review as a programmatic change to drive the creation of transparency in the setting of CLER. Workshop presentation presented at: The Association of Program Directors in Internal Medicine Spring Conference; April, 2015; Houston, TX.
• Kroker-Bode, CA, Forster, R. Morning Report. Workshop presentation presented at: The 2015 APDIM Chief Residents Meeting, part of the 2015 APDIM Spring Conference; April, 2015; Houston, TX.
• Kroker-Bode, CA, Kees, D, Morgan, T. Interdisciplinary workshop about development of an interdisciplinary resident driven peer review as a programmatic change to drive the creation of transparency in the setting of CLER. Talk presented at: The Association of Program Directors for Internal Medicine (APDIM); April, 2015; Houston, TX.
• Kroker-Bode, CA. Physician vulnerability: Learners in crisis. Moderator for Plenary Session at: APDIM Spring Conference; April, 2015; Houston, TX.
• Patel VD. Workshop facilitator at: ACP 2015 Boston; April 30 – May 2, 2015; Boston, MA.
• Sweet, JM, Croteau, JS, Burke, ST, Keyes, D, Grider, DJ. A 75-year-old man with respiratory failure and weakness. Panel presentation presented at: Department of Medicine CPC, Carilion Clinic; July 31, 2015; Roanoke, VA.

Hospice and Palliative Care Section
• Knight A. The role of the physician in advance care planning for patients with serious illness. Talk presented at: The Virginia Medical Directors Association Annual Meeting; September 19, 2015; Virginia Beach, VA.
• Knight, A. The golden years: Engaging seniors with orthopaedic and cognitive limitations. Talk presented at: The National Association of Orthopaedic Nurses Spring Conference; April, 2015; Roanoke, VA.
• Knight, A. Demystifying hospice. Talk presented at: The 2014 Multidisciplinary Fall Symposium; October, 2014; Radford, VA.
• Morel, T, Whitehead, P, White, C. Breaking bad news when sepsis is terminal. Talk presented at: The Carilion Sepsis Conference; September 3, 2015; Roanoke, VA.
• Pile, C. Advances in Advance Care Planning. Talk presented at: The Virginia Academy of Family Physicians Winter Meeting; January 31, 2015; Wintergreen, VA.
• Whitehead PB, Morel T D, White C. Breaking bad news: When sepsis is terminal. Keynote/Plenary Address to: 2015 Annual Carilion Sepsis Conference, Carilion Clinic; July 17, 2015; Roanoke, VA.

• Whitehead, P. Patient assessment and monitoring for opioid-induced sedation and respiratory depression. Talk presented at: The National Association of Orthopaedic Nurses; April 25, 2015; Roanoke, VA.

• Whitehead, P. Pharmacology of pain medications and Pharmacokinetics. Talk presented at: The VACNS Annual Conference: Professional and Practice Issues; April 24, 2015; Lynchburg, VA.

• Whitehead, P. The impact of Schwartz Center Rounds on moral distress in a large healthcare system. Talk presented at: The Faculty Rapid Communication, Carilion Clinic/JCHS Research Day; April 16, 2015; Roanoke, VA.

• Whitehead, P. Nurse Practitioner perspectives of end-of-life conversations and challenges: A mixed methods approach. Talk presented at: The Second Annual Waldron College Interprofessional Symposium and Expo; April 14, 2015; Radford, VA.

Virginia Tech Carilion Research Institute

• McDonald, SM. Rotavirus gene re-assortment--a mixed blessing? Talk presented at: The FASEB Virus Structure and Assembly Meeting, Vermont Academy; July, 2014; Saxton River, VT.

• McDonald, SM. Rotavirus genome replication and virion assembly. Talk presented at: Cornell University; October, 2014; Ithaca, NY.

• McDonald, SM. Rotavirus genome replication and virion assembly. Talk presented at: University of Maryland; December, 2014; College Park, MD.

• Oestreich, KJ. Regulatory mechanisms underlying T helper cell flexibility. Talk presented at: The Research in Progress Seminar Series, VA-MD Regional College of Veterinary Medicine; October, 2014; Blacksburg, VA.

• Pham, LC, Liang, Y, Guo, S, Murphy, S, Sheng, Z. Identification of CSNK1E and MELK as essential kinases to GBM and as future therapeutic targets. Talk presented at: The 19TH Annual Scientific Meeting and Education Day of the Society for Neuro-oncology; November 13-16, 2014; Miami, FL.

• Poelzing, S. A new light on an old mechanism of cell-to-cell electrical communication. Lecture presented at: Johns Hopkins University; February 6, 2015; Baltimore, MD.

• Valdez, G. Cellular and molecular changes associated with aging neuromuscular synapses. Talk presented at: The American Society for Neurochemistry; March 8-14, 2014; Long Beach, CA.

• Valdez, G. Discovering molecules that protect synapses from the ravages of aging. Talk presented at: The Virginia local SFN Chapter meeting; 2014; Richmond, VA.

• Valdez, G. The role of synaptic molecules in motor neuron and muscle diseases. Talk presented at; 2014; Barcelona, Spain.

• Valdez, G. The odyssey of secreted synaptic molecules: The many challenges secreted molecules encounter on their path to affect change. Talk presented at: The Society for Advancement of Chicanos and Native Americans in Science (SACNAS) Conference; 2014; Los Angeles, CA.
• Valdez, G. Exploring the contribution of muscles and NMJs to late-life motor impairment. Talk presented at: ROSMAP; 2014; Chicago, IL.

• Young, SR, Liang, Y, Murphy, S, Guo, S, Sheng, Z. Identification of novel therapeutic targets for Glioblastoma Stem Cells. Talk presented at: The 19TH Annual Scientific Meeting and Education Day of the Society for Neuro-oncology; November 13-16, 2014; Miami, FL.

Department of Obstetrics and Gynecology
General Obstetrics and Gynecology Section

• Curran, D, Gaba, N, Swaim, L, Lara-Torre, E. SASGOG: Understanding the academic generalist (why this title is obsolete). Talk presented at: The 2015 Annual Meeting of the CREOG/APGO; March, 2015; San Antonio, TX.

• Lara-Torre, E. Adolescent contraception for the OBGYN resident. Talk presented to: The ITESM OBGYN Residents; May, 2015; Monterrey, Mexico.

• Lara-Torre, E. Basic Gynecologic exam and procedures: Step up to Residency Medical Student Course. Talk presented at: The ACOG Annual Meeting; May, 2015; San Francisco, CA.

• Lara-Torre, E. Research in residency training; The Dr. Scott and The Honorable Dr. Nan Hayworth Junior Fellow Course: Preparing for life after residency. Transitioning from training to practice. Talk presented at: The ACOG Annual Meeting; May, 2015; San Francisco, CA.

• Lara-Torre, E. PAG debates uterine transplant. Moderator at: The NASPAG 29th Annual Clinical and Research Meeting; April, 2015; Orlando, FL.

• Lara-Torre, E, Kirkham, Y, McCraken, K. Levonorgestrel IUS insertion training session. Talk presented at: The NASPAG 29th Annual Clinical and Research Meeting; April, 2015; Orlando, FL.

• Lara-Torre, E. The ABC’s of Pediatric and Adolescent Gynecology for the generalist. Talk presented at: Grand Rounds University of Maryland, Department of OBGYN; January, 2015; Baltimore, MD.

• Murchison, A, Lara-Torre, E, Weiss, P. Fueling up for promotion: Building your academic portfolio. Talk presented at: The CREOG Residents as Leaders Course; June 1, 2015; Philadelphia, PA.

• Weiss, P. Feedback 101: Getting master results. Talk presented at: The Carilion Clinic Annual Perinatal Conference; May 29, 2015; Roanoke, VA.
• Weiss, P. Disclosure of unanticipated outcomes and medical errors. Talk presented at: The Visiting Professor GME Leadership Symposium; May 26-27, 2015; Iowa City, IA.
• Weiss, P. Chief Resident's role in building effective teams. Talk presented at: The Visiting Professor GME Leadership Symposium; May 26-27, 2015; Iowa City, IA.
• Weiss, P. Jumpstarting our career as a physician leader: Lessons I've learned. Talk presented at: The Visiting Professor GME Leadership Symposium; May 26-27, 2015; Iowa City, IA.
• Weiss, P. The ABC's of emotional intelligence: From kindergarten to the bedside. Talk presented at: The Visiting Professor GME Leadership Symposium; May 26-27, 2015; Iowa City, IA.
• Weiss, P. Second victims from medical errors: Helping our providers recover. Talk presented at: The Visiting Professor GME Leadership Symposium; May 26-27, 2015; Iowa City, IA.
• Weiss, P. The second victim: The effect of medical errors on providers. Talk presented at: George Washington University School of Medicine (Visiting Professor) - Dodek Society; May 13, 2015; Washington, DC.
• Weiss, P. Disclosure of unanticipated outcomes. Talk presented at: George Washington University School of Medicine – Dodek Society; May 13, 2015; Washington, DC.
• Weiss, P. Transferring groups into high performing teams. Talk presented at: George Washington University School of Medicine – Dodek Society; May 13, 2015, Washington, DC.
• Weiss, P. To tell or not to tell - Disclosure of errors. Talk presented at: The 2015 American College of Obstetricians and Gynecologists Annual Clinical and Scientific Meeting; May 6, 2015; San Francisco, CA.
• Weiss, P. Ethics/professional liability/risk management. Talk presented at: The 2015 American College of Obstetricians and Gynecologists Annual Clinical and Scientific Meeting - Lunch with the Experts; May 5, 2015; San Francisco, CA.
• Weiss, P. Disclosure of unanticipated outcomes with legal considerations. Talk presented at: The 46th Annual OB/GYN Spring Symposium; April 18, 2015; Charleston, SC.
• Weiss, P. The second victim: Effects of medical errors on providers. Talk presented at: The 46th Annual OB/GYN Spring Symposium; April 18, 2015; Charleston, SC.
• Weiss, P. Captives under accountable care: Assessing the risks and rewards. Talk presented at: The Crittenden Medical Conference; April 13, 2015; Miami, FL.
• Weiss, P. Disclosure of unanticipated outcomes with legal considerations. Talk presented at: The American College of Obstetricians and Gynecologists; April 11, 2015; Washington, DC.
• Weiss, P. The second victim: Effects of medical errors on providers. Talk presented at: The American College of Obstetricians and Gynecologists; April 11, 2015; Washington, DC.
• Weiss, P. Patient safety and the aging physician with legal considerations. Talk presented at: The American College of Obstetricians and Gynecologists; April 10, 2015; Washington, DC.
• Weiss, P. Just culture. Talk presented at: The American College of Obstetricians and Gynecologists; April 9, 2015; Washington, DC.
• Weiss, P. Emotional intelligence and patient safety. Talk presented at: The American College of Obstetricians and Gynecologists; April 9, 2015; Washington, DC.
• Weiss, P. Physician leadership: Does it really matter? Talk presented at: The Carilion Clinic Town Hall Meeting; March 31, 2015; Lexington, VA.
• Weiss, P. Second victim: Helping providers recover from medical errors. Grand Rounds presented at: The Lankenau Medical Center; March 25, 2015; Wayne, PA.
• Weiss, P. The ABC-C-C-C-C's of emotional intelligence. Grand Rounds presented at: The Main Line Health Faculty Development Meeting; March 24, 2015; Philadelphia, PA.
• Weiss, P. Physician leadership: Does it really matter? Talk presented at: The Carilion Clinic Town Hall Meeting; March 20, 2015; Roanoke, VA.
• Weiss, P. Carilion Clinic Physicians - State of the Union. Talk presented at: The Family and Community Medicine Annual Department Meeting; March 21, 2015; Roanoke, VA.
• Weiss, P. Physician leadership: Does it really matter? Talk presented at: The Carilion Clinic Town Hall Meeting; March 19, 2015; Roanoke, VA.
• Weiss, P. Carilion Clinic Physicians - State of the Union. Talk presented at: The CNRV Provider Leadership Council; March 18, 2015; Christiansburg, VA.
• Weiss, P. Fueling up for promotion: Building your academic portfolio. Talk presented at: The 2015 CREOG & APGO Annual Meeting; March 5, 2015; San Antonio, TX.
• Weiss, P. The ABC-C-C-C-C’s of emotional intelligence. Talk presented at: Carilion Clinic Strategic Development Education Seminar; February 10, 2015; Roanoke, VA.
• Weiss, P. The ABC’s of emotional intelligence: From kindergarten to the operating room. Talk presented at: The Department of OB/GYN University of Oklahoma Health Science Center Grand Rounds; February 6, 2015; Oklahoma, OK.
• Weiss, P. Second victim: Helping providers recover from medical errors. Talk presented at: Johns Hopkins University Medical School Grand Rounds; February 5, 2015; Baltimore, MD.
• Weiss, P. Physician leadership: Does it really matter? Talk presented at: Carilion Clinic 2015 Leadership Conference- Delivering on a Promise; January 18, 2015; Roanoke, VA.
• Weiss, P. Second victim: Effects of medical errors on providers. Talk presented at: The Quality and Safety for Leaders in Women Health Care Course; November 5-8, 2014; New Orleans, LA.
• Weiss, P. Burnout/mindfulness. Talk presented at: Carilion Clinic Office of Professional Development; December 9, 2014; Roanoke, VA.
• Weiss, P. Human papilloma viruses: Prevention and protection for all. Talk presented at: Virginia Tech Carilion School of Medicine Evaluator for TBMH Students' Gateway Class Gran D Challenge; December 9, 2014; Roanoke, VA.
• Weiss, P. Introduction to PLA, leadership, and the business of medicine. Talk presented at: Carilion Clinic; November 11, 2014; Roanoke, VA.
• Weiss, P. Emotional intelligence and patient safety. Talk presented at: The Quality and Safety for Leaders in Women Health Care Course; November 5-8, 2014; New Orleans, LA.
• Weiss, P. Patient safety and the aging physician. Talk presented at: The Quality and Safety for Leaders in Women Health Care Course; November 5-8, 2014; New Orleans, LA.
• Weiss, P. A just culture. Talk presented at: The Quality and Safety for Leaders in Women Health Care Course; November 5-8, 2014; New Orleans, LA.
• Weiss, P. Disclosure of unanticipated outcomes. Talk presented at: The Quality and Safety for Leaders in Women Health Care Course; November 5-8, 2014; New Orleans, LA.
• Weiss, P. The ABC’s of emotional intelligence: From kindergarten to the operating room. Talk presented at: The Surgical Grand Rounds Carilion Clinic; October 31, 2014; Roanoke, VA.
• Weiss, P. The ABC’s of emotional intelligence: From kindergarten to the operating room. Talk presented at: The Grand Rounds at Wayne State University School of Medicine; October 28, 2014; Detroit, MI.
• Weiss, P. Feedback 101: Getting master results. Talk presented at: The Wayne State University School of Medicine; October 28, 2014; Detroit, MI.
• Weiss, P, Murchison, A. Disclosure of unanticipated outcomes and the second victim. Talk presented at: The Virginia Tech-Carilion School of Medicine Domain Day; October 24, 2014; Roanoke, VA.
• Weiss, P, Love, P, Swindler, A. Law suit 101. Talk presented at: The Virginia Tech-Carilion School of Medicine Domain Day; October 17, 2014; Roanoke, VA.
• Weiss, P. Second victim. Grand Rounds speaker presented at: Loyola University Chicago Stritch School of Medicine; October 15, 2014; Maywood, IL.
• Weiss, P. Generational differences and professionalism. Talk presented at: The University of South Florida; October 1, 2014; Tampa, FL.
• Weiss, P. Just Culture. Talk presented at Carilion Clinic Board of Director’s Meeting; September 22 & 23, 2014; Roanoke, VA.
• Weiss, P. Emotional Intelligence. Talk presented at the Fall 2014 Time Conference; September 15, 2014; Austin, TX.
Weiss, P. The ABC’s of Emotional Intelligence from Kindergarten to the Operating Room. Talk presented at the Uniformed Services University of Health Services; September 3, 2014; Bethesda, MD.

Weiss, P. The ABC’s of Emotional Intelligence. Talk presented at the Jefferson College of Health Sciences Leadership Conference; August, 2014; Roanoke, VA.

Weiss, P. Emotional Intelligence. Talk presented at the 2014 Annual District XII Meeting Florida Division; August, 2014; Orlando, FL.


Gynecology Oncology Section

Hopp, E, Osborne, J, Schneider, D, Bojar, C, Uyar, D. A prospective study on the incidence of post-operative lymphedema in women with endometrial cancer. Talk presented at: The Central Association of Obstetrics and Gynecologists; October 8-11, 2014; Albuquerque, NM.

Iglesias, D, Bottsford-Miller, J, Crane, E, Schlumbrecht, M, Zaid, T. First years out in practice. Panel discussion presented at: The 45th Annual Meeting of the Felix Rutledge Society; April 29 - May 1, 2015; Houston, TX.

Reproductive Endocrinology and Infertility Section

Evans-Hoeker, E. Reproductive hormones and food. Invited speaker at: The Women and Food: Beyond BMI Conference; June 5, 2015; Charlottesville, VA.


Evans-Hoeker, E, Lessey, B, Yuan, L, Yoo, J, Jeong, J, Schammel, D, & Young, S. B Cell Lymphoma Protein 6 (BCL-6) expression and regulation in normal and abnormal endometrium. Talk presented at: The Carilion Research Day; April, 2015; Roanoke, VA.

Evans-Hoeker, E. Obesity in the PCOS patient: Consequences and treatment options. Talk presented at: The Virginia Section American Congress of Obstetrics and Gynecology; September 12, 2014; Richmond, VA.

Gentry, A, Evans-Hoeker, E, Lessey, B, Yuan, L, Young, S. Does the endometrium synthesize progesterone? Talk presented at: American Society for Reproductive Medicine; October, 2014; Honolulu, HI.

Ramalingam, N, Evans-Hoeker, E, Tonismae, T, Harden, S. Providers’ perceptions of preconception strategies for weight management. Talk presented at: The Carilion Research Day; April, 2015; Roanoke, VA.

Department of Orthopaedics

Adult Reconstruction Section

Harris, R. Cost analysis of TXA on TKA from 2009-2012. Talk presented at: The 82nd Annual Meeting of the American Academy of Orthopaedic Surgeons; March 24-28, 2015; Las Vegas, NV.

Harris, R. Evaluation and management of DJD. Talk presented at: The Virginia Tech Carilion School of Medicine Student Lectures; February 12, 2015; Roanoke, VA.
• Mann, JW. Total knee replacement instrument consolidation yields cost savings in sterile processing and surgical set up time. Talk presented to: Virginia Orthopaedic Society 68th Annual Meeting; April 24, 2015; Hot Springs, VA.
• Mann, JW. Morbid obesity in total joints: Debate for limiting surgery to patients with BMI under 40. Talk presented to: Virginia Orthopaedic Society 68th Annual Meeting; April 24, 2015; Hot Springs, VA.
• Mann, JW. Knee and hip arthritis management in primary care. Talk presented at: Orthopaedics in Primary Care, Virginia Tech Carilion School of Medicine; January 10, 2015; Roanoke, VA.
• Mann, JW. Points on Joints. Talk presented to: The Community of Bedford; January 2, 2015; Bedford, VA.
• Moskal J. DAA improves short-term outcomes: Will it improve long-term outcomes? Talk presented to: International Congress in Joint Replacement-4th Annual Advanced Anterior Hip Course, Revisions and Difficult Primaries; Methodist Institute for Technology, Innovation and Education (MITIE); September 24-26, 2015; Houston, TX.
• Moskal J. The DAA of today and for tomorrow. Talk presented to: International Congress in Joint Replacement-4th Annual Advanced Anterior Hip Course, Revisions and Difficult Primaries; Methodist Institute for Technology, Innovation and Education (MITIE); September 24-26, 2015; Houston, TX.
• Moskal J. Revisiting cement 2015. Talk presented to: International Congress in Joint Replacement-4th Annual Advanced Anterior Hip Course, Revisions and Difficult Primaries Methodist Institute for Technology, Innovation and Education (MITIE); September 24-26, 2015; Houston, TX.
• Moskal J. Femoral exposure and component placement. Talk presented to: International Congress in Joint Replacement-4th Annual Advanced Anterior Hip Course, Revisions and Difficult Primaries Methodist Institute for Technology, Innovation and Education (MITIE); September 24-26, 2015; Houston, TX.
• Moskal J. Femoral Exposure and component placement. Talk presented to: International Congress in Joint Replacement-4th Annual Advanced Anterior Hip Course, Revisions and Difficult Primaries Methodist Institute for Technology, Innovation and Education (MITIE); September 24-26, 2015; Houston, TX.
• Moskal J. Case reviews- difficult and interesting THA’s. Panel discussion at: International Congress in Joint Replacement-4th Annual Advanced Anterior Hip Course, Revisions and Difficult Primaries Methodist Institute for Technology, Innovation and Education (MITIE); September 24-26, 2015; Houston, TX.
• Moskal J. DAA total hip arthroplasty. Proctor/Instructor Cadaver Lab at: International Congress in Joint Replacement-4th Annual Advanced Anterior Hip Course, Revisions and Difficult Primaries Methodist Institute for Technology, Innovation and Education (MITIE); September 24-26, 2015; Houston, TX.
• Moskal J. Total knee arthroplasty. Talk presented to: Future Leaders Workshop, The Complex Knee; September 18-19, 2015; Atlanta Institute for Medical Education, Atlanta, GA.
• Moskal J. Revision total knee arthroplasty. Talk presented to: Future Leaders Workshop, The Complex Knee; September 18-19, 2015; Atlanta Institute for Medical Education, Atlanta, GA.
• Moskal J. Alternative technology. Talk presented to: Future Leaders Workshop, The Complex Knee; September 18-19, 2015; Atlanta Institute for Medical Education, Atlanta, GA.
• Moskal J. Managing severe valgus knee. Talk presented to Future Leaders Workshop, The Complex Knee; September 18-19, 2015; Atlanta Institute for Medical Education, Atlanta, GA.
• Moskal J. Managing infected total knee arthroplasty. Talk presented to: Future Leaders Workshop, The Complex Knee; September 18-19, 2015; Atlanta Institute for Medical Education, Atlanta, GA.
• Moskal J. Managing unstable total knee arthroplasty. Talk presented to: Future Leaders Workshop, The Complex Knee; September 18-19, 2015; Atlanta Institute for Medical Education, Atlanta, GA.
• Moskal J. Anatomy review for the direct anterior approach to the hip. Talk presented to: Direct Anterior Approach to the hip arthroplasty, Surgical Training and Cadaver Program; September 17-18, 2015; Homer Stryker Center, Mahwah, NJ.
• Moskal J. Primary total hip arthroplasty- bioskills proctor /instructor. Talk presented to: Direct Anterior Approach to the hip arthroplasty, Surgical Training and Cadaver Program; September 17-18, 2015; Homer Stryker Center, Mahwah, NJ.
• Moskal J. Critical thinking scenario blood loss in the direct anterior approach to the hip. Talk presented to: Direct Anterior Approach to the hip arthroplasty, Surgical Training and Cadaver Program; September 17-18, 2015; Homer Stryker Center, Mahwah, NJ.
• Moskal J. Critical thinking scenario fracture management in the direct anterior approach to the hip. Talk presented to: Direct Anterior Approach to the Hip Surgery Training and Cadaver Lab; June 18-19, 2015; The Center for Advanced Learning and Simulation, Tampa, FL.
• Moskal J. Managing fractures and extensile options in the anterior approach. Talk presented to: Direct Anterior Approach to the hip arthroplasty, Surgical Training and Cadaver Program; September 17-18, 2015; Homer Stryker Center, Mahwah, NJ.
• Moskal J. Femoral releases in the direct anterior approach to the hip. Talk presented to: Direct Anterior Approach to the hip arthroplasty, Surgical Training and Cadaver Program; September 17-18, 2015; Homer Stryker Center, Mahwah, NJ.
• Moskal J. Extensile options for revision THA in the direct anterior approach to the hip. Talk presented to: Direct Anterior Approach to the hip arthroplasty, Surgical Training and Cadaver Program; September 17-18, 2015; Homer Stryker Center, Mahwah, NJ.
• Moskal J. Symposium: What I wish I knew before my first case. Talk presented to: Direct Anterior Approach to the hip arthroplasty, Surgical Training and Cadaver Program; September 17-18, 2015; Homer Stryker Center, Mahwah, NJ.
• Moskal, J. Anatomy review for the direct anterior approach to the hip. Talk presented at: Direct Anterior Approach to the Hip, Surgical Training and Cadaver Lab. The center for Advanced Learning and Simulation; June 18-19, 2015; Tampa, FL.

• Moskal, J. Critical thinking scenario blood loss in the direct anterior approach to the hip. Talk presented at: Direct Anterior Approach to the Hip, Surgical Training and Cadaver Lab. The center for Advanced Learning and Simulation; June 18-19, 2015; Tampa, FL.

• Moskal, J. Critical thinking scenario fracture management in the direct anterior approach to the hip. Talk presented at: Direct Anterior Approach to the Hip, Surgical Training and Cadaver Lab. The center for Advanced Learning and Simulation; June 18-19, 2015; Tampa, FL.

• Moskal, J. Bioskills proctor/instructor cadaver laboratory. Managing fractures and extensile options in the anterior approach. Talk presented at: Direct Anterior Approach to the Hip, Surgical Training and Cadaver Lab. The center for Advanced Learning and Simulation; June 18-19, 2015; Tampa, FL.

• Moskal, J. Femoral releases in the direct anterior approach to the hip. Talk presented at: Direct Anterior Approach to the Hip, Surgical Training and Cadaver Lab. The center for Advanced Learning and Simulation; June 18-19, 2015; Tampa, FL.

• Moskal, J. Extensile options for revision THA in the direct anterior approach. Talk presented at: Direct Anterior Approach to the Hip, Surgical Training and Cadaver Lab. The center for Advanced Learning and Simulation; June 18-19, 2015; Tampa, FL.

• Moskal, J. Symposium-What I wish I knew before my first case. Talk presented at: Direct Anterior Approach to the Hip, Surgical Training and Cadaver Lab. The center for Advanced Learning and Simulation; June 18-19, 2015; Tampa, FL.


• Moskal, J. Bioskills proctor/instructor cadaver laboratory. Primary total hip arthroplasty- anterior approach. Talk presented at: Direct Anterior Approach to the Hip, Surgical Training and Cadaver Lab. The center for Advanced Learning and Simulation; June 18-19, 2015; Tampa, FL.

• Moskal, J. Symposium, Today’s healthcare. Talk presented at: Future leaders workshop, the complex hip; May 15-16, 2015; Palm Beach Gardens, FL.

• Moskal, J. Exposure in revision total hip arthroplasty-anterior approach. Talk presented at: Future leaders workshop, the complex hip; May 15-16, 2015; Palm Beach Gardens, FL.

• Moskal, J. Five lessons learned total hip arthroplasty-anterior approach. Talk presented at: Future leaders workshop, the complex hip; May 15-16, 2015; Palm Beach Gardens, FL.

• Moskal, J. Bioskills Proctor/instructor cadaver laboratory. Primary total hip arthroplasty-anterior approach. Talk presented at: Future leaders workshop, the complex hip; May 15-16, 2015; Palm Beach Gardens, FL.
• Moskal, J. Bioskills Proctor/instructor cadaver laboratory. Revision total hip arthroplasty-anterior approach. Talk presented at: Future leaders workshop, the complex hip; May 15-16, 2015; Palm Beach Gardens, FL.

• Moskal, J. Anterior approach total hip arthroplasty. Teaching faculty/instructor, Residents and Fellows course and Cadaver Lab at: CAMLS (Center for Advance Medical Simulation & Learning); April 25, 2015; Tampa, FL.

• Moskal, J. Anatomic considerations and patient selection for the anterior approach. Talk presented at: CAMLS (Center for Advance Medical Simulation & Learning) anterior approach total hip arthroplasty, Residents and Fellows Course and Cadaver Lab; April 25, 2015; Tampa, FL.

• Moskal, J. Anatomic acetabular reaming and positioning. Talk presented at: CAMLS (Center for Advance Medical Simulation & Learning) anterior approach total hip arthroplasty, Residents and Fellows Course and Cadaver Lab; April 25, 2015; Tampa, FL.

• Moskal, J. Moderator-Symposium: Anterior approach total hip arthroplasty and case presentation. Talk presented at: CAMLS (Center for Advance Medical Simulation & Learning) anterior approach total hip arthroplasty, Residents and Fellows Course and Cadaver Lab; April 25, 2015; Tampa, FL.

• Moskal, J. Revision total hip arthroplasty anterior approach total hip arthroplasty. Bioskills proctor/instructor cadaver laboratory. Talk presented at: CAMLS (Center for Advance Medical Simulation & Learning) anterior approach total hip arthroplasty, Residents and Fellows Course and Cadaver Lab; April 25, 2015; Tampa, FL.

• Weidner, Z, Scanelli, J, Ho, H, Moskal, J, Hamilton, W. Does the direct anterior approach decrease the rate of dislocation after isolated head and liner exchange for polyethylene wear? Talk presented at: Virginia Orthopaedic Society 68th Annual Meeting; April 24-26, 2015; Hot Springs, VA.

• Moskal, J. Points on joints: Managing arthritis and total joint replacement update. Talk presented at: Roanoke County Public Library; April 8, 2015; Roanoke, VA.

• Moskal, J. Safe adaptation of anterior THA with and without a specialized table. Talk presented at: The 82nd Annual Meeting of the American Academy of Orthopaedic Surgeons; March 24-28, 2015; Las Vegas, NV.

• Moskal, J. Hot topics and controversies in primary total hip arthroplasty. Talk presented at: The 82nd Annual Meeting of the American Academy of Orthopaedic Surgeons; March 24-28, 2015; Las Vegas, NV.

• Moskal, J. Moderator-ask the expert: Adult reconstruction hip. Talk presented at: The 82nd Annual Meeting of the American Academy of Orthopaedic Surgeons; March 24-28, 2015; Las Vegas, NV.

• Moskal, J. Moderator-ask the expert: Adult reconstruction knee. Talk presented at: The 82nd Annual Meeting of the American Academy of Orthopaedic Surgeons; March 24-28, 2015; Las Vegas, NV.

• Moskal, J. The direct anterior approach is best for total hip arthroplasty. Talk presented at: The 82nd Annual Meeting of the American Academy of Orthopaedic Surgeons; March 24-28, 2015; Las Vegas, NV.
- Moskal, J, Harris, R, Capps, G. Transfusion cost and time savings of tranexamic acid on total knee arthroplasty from 2009-2012. Talk presented at: The 82nd Annual Meeting of the American Academy of Orthopaedic Surgeons; March 24-28, 2015; Las Vegas, NV.
- Moskal, JT. Technique and technology advances in orthopaedic surgery. Talk presented at: The 2015 Leadership Conference, Delivering on a Promise; January 19-20, 2015; Roanoke, VA.
- Moskal, JT. Panel discussion: Prosthetic advancements in TKA. Talk presented at: The International Congress in Joint Replacement, 7th Annual Winter Hip and Knee Course; January 15-18, 2015; Vail, CO.
- Moskal, JT. Moderator: Live surgery: Total hip arthroplasty through the direct anterior approach. Talk presented at: The International Congress in Joint Replacement, 7th Annual Winter Hip and Knee Course; January 15-18, 2015; Vail, CO.
- Moskal, JT. Computers should be used in THA. Talk presented at: The International Congress in Joint Replacement, 7th Annual Winter Hip and Knee Course; January 15-18, 2015; Vail, CO.
- Moskal, JT. Why we should cement more hips in 2015. Talk presented at: The International Congress in Joint Replacement, 7th Annual Winter Hip and Knee Course; January 15-18, 2015; Vail, CO.
- Moskal, JT. Panel discussion: Controversies in THA. Talk presented at: The International Congress in Joint Replacement, 7th Annual Winter Hip and Knee Course; January 15-18, 2015; Vail, CO.
- Moskal, JT. Malpositioned cup or stem on the post-op x-ray. Talk presented at: The International Congress in Joint Replacement, 7th Annual Winter Hip and Knee Course; January 15-18, 2015; Vail, CO.
- Moskal, JT. Panel discussion: The post-op hip: Learning from our mistakes in THA. Talk presented at: The International Congress in Joint Replacement, 7th Annual Winter Hip and Knee Course; January 15-18, 2015; Vail, CO.
- Moskal, JT. Panel discussion: Case-based discussion- let’s do a primary THA. Talk presented at: The International Congress in Joint Replacement, 7th Annual Winter Hip and Knee Course; January 15-18, 2015; Vail, CO.
- Moskal, JT. My top 5 moves in primary THA (video vignette). Talk presented at: The International Congress in Joint Replacement, 7th Annual Winter Hip and Knee Course; January 15-18, 2015; Vail, CO.
- Moskal JT. Panel discussion: THA bag of tricks, learning from the masters. Talk presented at: The International Congress in Joint Replacement, 7th Annual Winter Hip and Knee Course; January 15-18, 2015; Vail, CO.
- Moskal, JT. Bioskills proctor cadaver laboratory-primary total hip arthroplasty with the anterior approach. Talk presented at: The International Congress in Joint Replacement, 7th Annual Winter Hip and Knee Course; January 15-18, 2015; Vail, CO.
• Moskal, JT. Managing arthritis. Talk presented to: Carilion Clinic Department of Orthopaedic Surgery; October 24, 2014; Roanoke, VA.
• Moskal, JT. Extended trochanteric osteotomy with the direct. Talk presented at: Methodist Institute for Technology, Innovation and Education, 3rd Annual Anterior Hip Course, International Congress in Joint Replacement; September 18, 2014; Houston, TX.
• Moskal, JT. Improving the accuracy of cup positioning and avoiding instability. Talk presented at: Methodist Institute for Technology, Innovation and Education, 3rd Annual Anterior Hip Course, International Congress in Joint Replacement; September 18, 2014; Houston, TX.
• Moskal, JT. Instructor (Faculty Proctor) - Bioskills advanced cadaver procedure and laboratory - Revision THA. Talk presented at: Methodist Institute for Technology, Innovation and Education, 3rd Annual Anterior Hip Course, International Congress in Joint Replacement; September 18, 2014; Houston, TX.
• Moskal, JT. Moderator: Revision THA: Video Vignettes. Talk presented at: Methodist Institute for Technology, Innovation and Education, 3rd Annual Anterior Hip Course, International Congress in Joint Replacement; September 18, 2014; Houston, TX.
• Moskal, JT. Moderator: Symposium complications you experienced and how did you fix them? Talk presented at: Methodist Institute for Technology, Innovation and Education, 3rd Annual Anterior Hip Course, International Congress in Joint Replacement; September 18, 2014; Houston, TX.


• Moskal, JT. Symposium: Pre-Operative Issue. Talk presented at: Methodist Institute for Technology, Innovation and Education, 3rd Annual Anterior Hip Course, International Congress in Joint Replacement; September 18, 2014; Houston, TX.


• Moskal, JT. Symposium: The Operation: Getting the socket in. Talk presented at: Methodist Institute for Technology, Innovation and Education, 3rd Annual Anterior Hip Course, International Congress in Joint Replacement; September 18, 2014; Houston, TX.

• Moskal, JT. The 12 steps cadaver lab (Basics) course anterior approach in THA. Talk presented at: Methodist Institute for Technology, Innovation and Education, 3rd Annual Anterior Hip Course, International Congress in Joint Replacement; September 18, 2014; Houston, TX.

• Moskal, JT. The reason why I resisted the direct anterior approach and the reason why I converted to the direct anterior approach. Talk presented at: Methodist Institute for Technology, Innovation and Education, 3rd Annual Anterior Hip Course, International Congress in Joint Replacement; September 18, 2014; Houston, TX.

• Moskal, JT. Tips and Tricks: 10 things I learned on the learning curve. Talk presented at: Methodist Institute for Technology, Innovation and Education, 3rd Annual Anterior Hip Course, International Congress in Joint Replacement; September 18, 2014; Houston, TX.

• Moskal, JT. Addressing bone loss and instability in revision total knee arthroplasty. Talk presented at: Advanced Concepts for the Senior Resident 4th and 5th Year Senior Resident's Review Course; September 15, 2014; Chicago, IL.

• Moskal, JT. Biomechanics of the hip. Talk presented at: Advanced Concepts for the Senior Resident 4th and 5th Year Senior Resident's Review Course; September 15, 2015; Chicago, IL.

• Moskal, JT. Biomechanics of the knee. Talk presented at: Advanced Concepts for the Senior Resident 4th and 5th Year Senior Resident's Review Course; September 15, 2014; Chicago, IL.
• Moskal, JT. Computer assisted surgery in total hip arthroplasty. Talk presented at: Advanced Concepts for the Senior Resident 4th and 5th Year Senior Resident's Review Course; September 15, 2014; Chicago, IL.

• Moskal, JT. Extensor mechanism complications in total knee arthroplasty. Talk presented at: Advanced Concepts for the Senior Resident 4th and 5th Year Senior Resident's Review Course; September 15, 2014; Chicago, IL.

• Moskal, JT. Instability of total hip arthroplasty: Prevention, evaluation and treatment. Talk presented at: Advanced Concepts for the Senior Resident 4th and 5th Year Senior Resident's Review Course; September 15, 2014; Chicago, IL.

• Moskal, JT. Mobile bearing total knee arthroplasty. Talk presented at: Advanced Concepts for the Senior Resident 4th and 5th Year Senior Resident's Review Course; September 15, 2014; Chicago, IL.

• Moskal, JT. Moderator: New technologies. Talk presented at: Advanced Concepts for the Senior Resident 4th and 5th Year Senior Resident's Review Course; September 15, 2014; Chicago, IL.

• Moskal, JT. Moderator: How to do a routine total hip arthroplasty symposium. Talk presented at: Advanced Concepts for the Senior Resident 4th and 5th Year Senior Resident's Review Course; September 15, 2014; Chicago, IL.

• Moskal, JT. Moderator: How to do a routine total knee arthroplasty symposium. Talk presented at: Advanced Concepts for the Senior Resident 4th and 5th Year Senior Resident's Review Course; September 15, 2014; Chicago, IL.

• Moskal, JT. Moderator: Review current concepts in total hip and knee arthroplasty symposium. Talk presented at: Advanced Concepts for the Senior Resident 4th and 5th Year Senior Resident's Review Course; September 15, 2014; Chicago, IL.

• Moskal, JT. Moderator: Shoulder and upper extremity. Talk presented at: Advanced Concepts for the Senior Resident 4th and 5th Year Senior Resident's Review Course; September 15, 2014; Chicago, IL.

• Moskal, JT. Patient specific instrumentation in total knee arthroplasty. Talk presented at: Advanced Concepts for the Senior Resident 4th and 5th Year Senior Resident's Review Course; September 15, 2014; Chicago, IL.

• Moskal, JT. Primary total knee arthroplasty case presentations. Talk presented at: 8th Annual Joint Course New Technology for the Treatment of Adult Hip and Knee Disorders; August 15, 2014; Baltimore, MD.


• Moskal, JT. Why I only use conventional stems when utilizing the direct anterior approach. Talk presented at: 8th Annual Joint Course New Technology for the Treatment of Adult Hip and Knee Disorders; August 15, 2014; Baltimore, MD.

• Moskal, JT. Primary total hip arthroplasty Case Presentations. Talk presented at: 8th Annual Joint Course New Technology for the Treatment of Adult Hip and Knee Disorders; August 15, 2014; Baltimore, MD.

• Moskal, JT. Navigation still has a role in total knee arthroplasty. Talk presented at: 8th Annual Joint Course New Technology for the Treatment of Adult Hip and Knee Disorders; August 15, 2014; Baltimore, MD.
• Moskal, JT. Managing complications and fracture with the direct anterior approach. Talk presented at: Direct Anterior to the Hip Surgical Training Program; July 24, 2014; Long Beach, CA.

• Moskal, JT. Bioskills proctor cadaver laboratory primary total hip arthroplasty. Talk presented at: Direct Anterior to the Hip Surgical Training Program; July 24, 2014; Long Beach, CA.

Foot and Ankle Section

• Chandler, JT. Stiff and painless or mobile and painful. Talk presented at: Virginia Orthopedic Society Annual Meeting; April 25, 2015; Hot Springs, VA.

• Clements JR. Are we overlocked? Talk presented at: Virginia Podiatric Medical Association; June 26, 2015; Williamsburg, VA.

• Clements, JR. Soft tissue management in high-energy foot and ankle trauma. Talk presented at: The American Academy of Foot & Ankle Osteosynthesis; March 5-7, 2015; Memphis, TN.

• Clements, JR. Management of fractures of the talus. Talk presented at: The American Academy of Foot & Ankle Osteosynthesis; March 5-7, 2015; Memphis, TN.

• Clements, JR. Operative treatment of calcaneal fractures. Talk presented at: The American Academy of Foot & Ankle Osteosynthesis; March 5-7, 2015; Memphis, TN.

• Clements, JR. Reconstruction of segmental defect of distal tibia after wide excision of giant cell tumor. Talk presented at: The American College of Foot & Ankle Surgeons Annual Scientific Meeting; February 20-22, 2015; Phoenix, AZ.

• Clements, JR. Don’t make things so complicated with diabetes management. Talk presented at: The 4th Annual Diabetic Foot Update; December 4-6, 2014; San Antonio, TX.

• Clements, JR. Minimizing post-operative complications: Evidence-based tricks and pearls. Talk presented at: The 4th Annual Diabetic Foot Update; December 4-6, 2014; San Antonio, TX.

• Clements, JR. Surgical treatment of diabetic foot ulcerations. Talk presented at: The 4th Annual Diabetic Foot Update; December 4-6, 2014; San Antonio, TX.

• Clements, JR. Do I need to take the hardware out when bone is infected? Talk presented at: The 4th Annual Diabetic Foot Update; December 4-6, 2014; San Antonio, TX.

• Clements, JR. Diabetic osteosynthesis. Talk presented at: The 4th Annual Diabetic Foot Update; December 4-6, 2014; San Antonio, TX.

• Clements, R. Update on 1st MPJ surgery: Fusion and arthroplasty. Talk presented at: The Southwestern Foot and Ankle Conference; October 11, 2014; Dallas, TX.

• Clements, R. Foot and ankle surgeon’s role in a polytraumatized patient. Talk presented at: The Southwestern Foot and Ankle Conference; October 11, 2014; Dallas, TX.

• Clements, R. Cost comparison of commercial skin substitutes vs. split thickness skin grafts. Talk presented at: The Southwestern Foot and Ankle Conference; October 11, 2014; Dallas, TX.

• Naldo J. Careers in medicine. Talk presented to: Carilion Family Medicine Grand Rounds; September 16, 2015; Roanoke, VA.
• Naldo, J. The complex diabetic foot: When it’s not just a wound. Talk presented at: The 2014 Multispecialty Fall Symposium, Carilion New River Valley Medical Center; October 10, 2014; Radford, VA.

• Naldo, J. What is a podiatrist? Talk presented to: The Careers in Medicine course at VA Tech on role of podiatry in today’s medical community; October 1, 2014; Blacksburg, VA.

**Spine and Pediatric Surgery Section**

• Behrend C. Adjacent segment spondyloses. Talk presented to: IMAST/SRS (International Meeting on Advanced Spine/ Scoliosis Research Society); July 10, 2015; Kuala Lumpur, Malaysia.

• Behrend, C. Environmental exposure effects/ allograft bone composition. Talk presented at: VOS; April 24-26, 2015; Hot Springs, VA.

• Bulkeley, J. Pediatric osteomyelitis and septic arthritis. Talk presented at: Orthopaedics in Primary Care, Virginia Tech Carilion School of Medicine; January 10, 2015; Roanoke, VA.

• Bulkeley, J. Cerebral palsy gait analysis. Talk presented at: Pediatric Grand Rounds, Carilion Roanoke Memorial Hospital; January 8, 2015; Roanoke, VA.


**Sports Medicine Section**

• Miller TK. Acute on chronic injuries in Ironman triathletes. Talk presented to: Western Orthopaedic Association Annual Meeting; July 31, 2015; Coeur d’Alene, ID

• Miller, TK. VTE risk and management in athletes. Talk presented at: Southern Athletic Conference Annual ATC; May 17, 2015; Greenville, SC.

**Trauma and Fracture Section**

• Coniglione, F. Pelvic ring fractures-examination under anesthesia. Talk presented at: Hospital Fonseca Orthopaedic Residency Program; May 5, 2105; Managua, Nicaragua.

• Coniglione, F. Role of posterior fixation in ankle fractures. Talk presented at: Hospital Fonseca Orthopaedic Residency Program; May 5, 2105; Managua, Nicaragua.

• Coniglione, F. Pilon fixation, medical approach. Talk presented at: Hospital Fonseca Orthopaedic Residency Program; May 5, 2105; Managua, Nicaragua.

• Coniglione, F. Surgical management pelvic ring injuries. Talk presented at: Hospital Fonseca Orthopaedic Residency Program; May 5, 2105; Managua, Nicaragua.

• Coniglione, F. Role of posterior fixation in ankle fractures. Talk presented at: UVA Grand Rounds; April 22, 2015; Charlottesville, VA.

• Coniglione, F. Pelvic ring fractures-examination under anesthesia. Talk presented at: UVA Grand Rounds; April 22, 2015; Charlottesville, VA.

• Owen, T. Digital templating of deformity correction. Talk presented at: University of Virginia Orthopaedic Department Grand Rounds; April 29, 2015; Charlottesville, VA.

• Owen, T. Evolution and advances in limb lengthening. Talk presented at: University of Virginia Orthopaedic Department Grand Rounds; April 29, 2015; Charlottesville, VA.
• Owen, T. Texting and driving: Polytrauma in the young adult. Talk presented at: Blue Ridge Chapter National Association of Orthopaedic Nurses; April 25, 2015; Roanoke, VA.

Department of Pediatrics
Community Pediatrics Section
• Ackerman, AD. Meet the professor tips for using social media. Talk presented at: The Region IV, Pediatric Academic Society Meeting; February, 2015; Charlottesville, VA.
• Ackerman, AD. State of the Children’s Hospital. Talk presented at CMC Pediatric Grand Rounds; January 2015. Roanoke, VA.
• Ackerman, AD. How to get Leadership to buy in to social media. Talk presented at: Ragan’s Healthcare Social Media Summit at the Mayo Clinic; October, 2014; Rochester, MN.

Cardiology Section
• Gambale, AD, Durica, A, Miller, J. Prenatal diagnosis of Congenital Heart Disease: A study of detection rate in Southwest Virginia. Talk presented at: The 48th Annual Southeast Pediatric Cardiology Society Conference; September 24-26, 2015; Birmingham, AL.
• Latyshev, Y, Miller, J, Ball, T. Partnering to provide excellent care to adults with Congenital Heart Disease. Talk presented at: The Virginia Tech Carilion School of Medicine, CAB (Collaborating Across Borders); September 30, 2015; Roanoke, VA.

Hospitalists Section
• Kroker-Bode, CA, Kees, DW, Morgan, TK. Development of an interdisciplinary resident peer review as a programmatic change to drive the creation of transparency in the setting of CLER. Workshop presentation presented at: The Association of Program Directors in Internal Medicine Spring Conference; April, 2015; Houston, TX.

Pulmonary Section
• Bradley, A, Harlan, M, Bird, J, Muelenaer, A, Muelenaer, P. Automating water quality assessment with computer vision. Talk presented at: The Pediatric Academic Societies (PAS) Annual Meeting; April, 2015; San Diego, CA.
• Muelenaer, A. Entering Mentoring: Workshop in mentoring undergraduate students in STEM-Related Research. Virginia Tech Scieneering, Howard Hughes Medical Institute, & National Science Foundation; March 2015
• Muelenaer, A. Yearly update: Share Hope- providing medications, medical supplies, and medical equipment to 5 African countries. Talk presented at: Board of Directors and Partners; Coca-Cola Africa Foundation; February, 2015; Cape Town, South Africa.
Virginia Tech Carilion Research Institute

- Coker-Bolt, P, DeLuca, SC, Ramey, SL. Pediatric Constraint-Induced Movement Therapy: Innovative programs for low-income countries and rural areas. Talk presented: at the American Occupational Therapy Association; April, 2015; Nashville, TN.
- Fox, MA. Mechanisms of vertebrate synapse formation. Talk presented at: The Department of Anatomical Sciences and Neurobiology, University of Louisville; November, 2014; Louisville, KY.
- Fox, MA. Novel mechanisms regulating the assembly of circuits and synapses in the developing brain. Seminar presented at: The Department of Anatomical Sciences and Neurobiology, University of Louisville; November, 2014; Louisville, KY.
- Fox, MA. Mechanisms underlying precise wiring of the brain. Seminar presented at: The Translational Biology, Medicine and Health Graduate Program Open House, Virginia Tech; October, 2014; Blacksburg, VA.
- Ramey, SL, DeLuca, SC. Constraint-Induced Movement Therapy: Research and results. Lecture and Webinar presentation presented at: The Carilion Clinic Children’s Hospital Monthly Lunch and Learn Series; August, 2014; Roanoke, VA.
- Trucks, MR, Wallace, D, Garrison, S, DeLuca, SC, Ramey, SL. An introduction to Pediatric Constraint Induced Movement Therapy (P-CIMT) Research and Practice. Talk presented at: The Virginia Occupational Therapy Association; July, 2014; Roanoke, VA.

Department of Psychiatry and Behavioral Medicine
Clinical Division

- Bankole A. Caregiving and Dementia. Talk presented at: Mental Health America's Caregiver College; October 16, 2015; Salem, VA.
- Bankole, A. Advances in geriatric psychiatry for the primary care physician. Talk presented at: The 2015 Saint Albans Psychiatric Conference; January, 2015; Roanoke, VA.
- Bankole, A. Caregiving and dementia. Talk presented at: The Caregiver College Seminar, Mental Health America; October, 18, 2014; Roanoke, VA.
- Kablinger, A. Stress, addiction and the HPA axis. Invited grand rounds presentation at: Eastern Virginia Medical School; November, 2014; Norfolk, VA.
- Lash, SJ. Efficacy of interventions linking hospitalized patients to substance use disorder treatment programs. Invited symposium panelist at: 2015 meeting of
the Steering Committee meeting of the National Institute of Drug Abuse (NIDA) Clinical Trials Network (CTN); April, 2015; Bethesda, MD.

- Lash, SJ. Contracting, prompting & reinforcing substance use disorder (SUD) to transition clients to aftercare. Invited presentation at: 2015 meeting of the Steering Committee meeting of the National Institute of Drug Abuse (NIDA) Clinical Trials Network (CTN); April, 2015; Bethesda, MD.


- Neal C. Disparities in psychiatric care: The influence of African-American race. Talk presented at: VTC – Carilion Clinic Department of Psychiatry Grand Rounds; August, 2015; Roanoke, VA.


- Salehi, K. Motivational interviewing and behavioral change. Lecture presented at: Virginia Bariatric Conference; April, 2015; Richmond, VA.

- Seidel, RW. Working with difficult patients: Wrestling or dancing? Oral presentation presented at: The Carilion Clinic 2014 Fall Ethics Conference; October, 2014; Roanoke, VA.


- Trinkle DB, Kennedy WC, Musick DW, Lane H A, Heitz CR. Interprofessional team stimulations: Bringing clinical relevance to roles and scopes. Workshop facilitator At: Collaborating Across Borders National Conference in Interprofessionalism Healthcare; September 29, 2015; Roanoke, VA.

- Trinkle, D. ACP Education. Oral presentation presented at: Carilion Clinic PA/NP EM Fellowship Program; May, 2015; Roanoke, VA.

- Trinkle, D. Depression, grief, and loneliness in later life. Talk presented at: Carilion Clinic Spring Symposium; April 24, 2015; Roanoke, VA.

- Trinkle, D. Assessing capacity. Talk presented at: The Department of Adult and Rehabilitative Services Regional Training; April 10, 2015; Roanoke, VA.

- Trinkle, D. Multiple small feedings of the mind: Psychiatry. Oral presentation presented at: The Virginia Chapter American College of Physicians; March 7, 2015; Richmond, VA.

- Varma A. Anti NMDA receptor encephalitis: A need for increased awareness among mental health providers. Invited presentation at: Carilion Clinic- VTC-SOM Psychiatry Grand Rounds; May, 2015; Roanoke, VA.

- Varma, A. Anti NMDA receptor encephalitis-what psychiatrists need to know. Talk presented at: VAMC Grand Rounds; November, 2014; Salem, VA.

Virginia Tech and Virginia Tech Carilion Research Institute

Symposium presenter presented at: The Research Society on Alcoholism Annual Scientific Meeting; June, 2015; San Antonio, TX.

- Bickel, WK. Therapeutic opportunities for health disparities: Change and the limits of change. Chair: Leventhal, A. Symposium discussant presented at: The College on Problems of Drug Dependence Annual Scientific Meeting; June, 2015; Phoenix, AZ.

- Bickel, WK. A trans-diagnostic approach to preventing and treating behavioral dysfunction. Invited keynote address presented at: The Academy of Behavioral Medicine Research; June, 2015; Cambridge, MD.

- Bickel, WK. From research to applied policy: Protection during adolescence. Talk presented at: The Marijuana Summit – A Conversation in the Commonwealth; November 3, 2014; Roanoke, VA.


- Bickel, WK. Self-control failure: Trans-disease processes. Oral presentation presented at: The Virginia Tech Presidential Installation Ceremonies; October, 2014; Blacksburg, VA.


- Chiu, P. Harnessing brain power. Talk and panel discussion at: Virginia Tech Presidential Installation of Timothy Sands, 16th President of Virginia Tech; October, 2014; Blacksburg, VA.


- Freedman, VH, Scwartz, NB, Bennett, JR, Van Wart, A, Wright, CF. Getting into a PhD Program in the Biosciences. Panel presentation presented at: The NIH Graduate and Professional School Fair; July 15th, 2015; Bethesda, MD.

- Friedlander, MJ. Culturing next-gen leaders for tomorrow's bioeconomy. Panel presentation presented to: Leaders of Tomorrow Summit, MedImmune, Inc.; March 31, 2015; Gaithersburg, MD.

- Friedlander, MJ. Giant of neuroscience - the legacy of Roanoke's Vernon Mountcastle. Lecture presented at: Brain School, Virginia Tech Carilion Research Institute; March 16, 2015; Roanoke, VA.

- Friedlander, MJ. The life cycle of faculty members and career development. Keynote/Plenary Address At: CFAS Annual Meeting Association of American Medical Colleges; March 5, 2015; San Diego, CA.
• Friedlander, MJ, Lerman, L. Healing wars. Oral presentation presented at: Leaders of Tomorrow Summit, VT Moss Arts Center; Blacksburg, VA.
• Friedlander, MJ. Research breakthroughs and economic impact at the VTCRI. Oral presentation presented at: Leaders of Tomorrow Summit, Virginia Tech Alumni Board; Blacksburg, VA.
• Friedlander, MJ. Big data and analytics in biomedical and health research in the Commonwealth. Oral presentation presented at: Governor's Forum; April 23, 2015; Washington, DC.
• Friedlander, MJ. Role of AAMC members in medical innovation. Oral presentation presented at: Health, Education, Pensions, and Education (HELP) Committee, U.S. Senate; April 9, 2015; Washington, DC.
• Friedlander, MJ. Commercializing bioscience research in Virginia. Oral presentation presented at: Virginia Bio Forum; June 9, 2015; Washington, DC.
• Koffarnus, MN, Wilson, AG, Bickel, WK. Demand elasticity for potentially real cigarettes is negatively associated with income. Talk presented at: The Association for Behavioral Analysis; May 23-27, 2014; Chicago, IL.
• Moody, L, Franck, C, Hatz, L, Bickel, WK. Clarifying the relationship between delay discounting and polysubstance users. Talk presented at: The Clinical Science Research Fair; August, 2014; Blacksburg, VA.
• Ramey, SL. Abecedarian Early Childhood Education (ECE) improves lives of children from poverty. Invited keynote speaker at: The All-American Cities Meeting; April 17, 2015; Roanoke, VA.
• Ramey, SL. Pediatric Constraint-Induced Movement Therapy: Innovative programs for low-income countries and rural areas. Workshop presentation at: The American Occupational Therapy Association’s 95th Annual Conference; April 16, 2015; Nashville, TN.
• Ramey, SL. Inventing opportunities for children. Invited honoree and brief presentation for Dr. Tim Sands and Dr. Laura Sands at: Community gathering, The Grove, Virginia Tech; April 13, 2015; Blacksburg, VA.

• Ramey, SL. Intergenerational health and education: Actionable knowledge to help children. Invited keynote speaker at: The Kiwanis Regional Convention; April 12, 2015; Roanoke, VA.


• Ramey, SL. Strategic investments in human capital starting with children: Hard data, tough choices. Invited keynote speaker at: The Kiwanis Club of Roanoke, Patrick Henry Hotel Ballroom; March 11, 2015; Roanoke, VA.

• Ramey, SL. The civil rights of health, education, and biology: Martin Luther King’s enduring legacy. Invited university-wide keynote speaker at: The 4th Annual Martin Luther King Jr. Week Seminars, Virginia Bioinformatics Institute Auditorium, Virginia Tech; January 23, 2015; Blacksburg, VA.

• Ramey, SL. Poverty, biology, and health: Will the circle be unbroken? Invited keynote speaker at: The 4th Annual Martin Luther King Jr. Week Seminars, Fralin Life Science Institute Auditorium, Virginia Tech; January 22, 2015; Blacksburg, VA.

• Ramey, SL. Beginning with babies: Improving quality of infant/toddler care through professional learning. Field presentation presented at: The ZERO TO THREE’S 29th National Training Institute; December 12, 2014; Ft. Lauderdale, FL.


• Ramey, SL. Healthy, wealthy, and wise: Promoting multigenerational vitality. Keynote speaker at: Parents as Teachers 2014 National Conference; October, 2014; St. Louis, MO.

• Ramey, SL. Implementation science: Beyond best intentions to realize evidence-based treatment for all children. Keynote speaker at: Clinical and Translational Science Institute, Children’s National and Virginia Tech Research Day; October, 2014; Washington, DC.

• Ramey, SL. Latest research on brain development, with implications for early learning and literacy development. Special presentation presented at: The Campaign for Grade-Level Reading regional meeting, Roanoke Public Library; October, 2014; Roanoke, VA.

• Ramey, SL. A multi-center randomized controlled trial of pediatric constraint induced (P-CIMT) movement therapy. Oral presentation presented at: The American Congress of Rehabilitation Medicine; October, 2014; Toronto, ON, Canada.

• Ramey, SL. Constraint-Induced Movement Therapy: Research and results. Webinar presented at: The Carilion Clinic Children’s Hospital Monthly Lunch and Learn Webinar Series; August 28, 2014; Roanoke, VA.

Van Wart, A. Interview skills workshop. Oral presentation presented at: The American Society for Cell Biology event. The Bench and Beyond: Career Development Day, Virginia Commonwealth University; April 17 2015; Richmond, VA.

Van Wart, A. Speed networking event. Oral presentation presented at: The American Society for Cell Biology event. The Bench and Beyond: Career Development Day, Virginia Commonwealth University; April 17 2015; Richmond, VA.

Van Wart, A. Biomedical PhD Programs and TBMH. Oral presentation presented at: Within Reach, Virginia Tech Carilion School of Medicine; January 12, 2015; Roanoke, VA.

Van Wart, A. Interviewing for Graduate School. Workshop presentation presented at: The ABRCMS Career Skills Café, Annual Biomedical Research Conference for Minority Students; November 15, 2014; San Antonio, TX.

Van Wart, A. Leveraging resources and collaborations. Oral presentation presented at: The NIH BEST Consortium Annual Meeting; October 30, 2014; Bethesda, MD.

Van Wart, A. Welcome overview: Virginia Tech Carilion Research Institute. Oral presentation presented at: Open House for PhD program in Translational Biology, Medicine, and Health; October 18, 2014; Roanoke, VA.

Van Wart, A. Translation biology, medicine, and health program overview. Oral presentation presented at: Open House for PhD program in Translational Biology, Medicine, and Health; October 17, 2014; Blacksburg, VA.

Van Wart, A. Speaker for human nutrition, food, and exercise departmental seminar. Oral presentation presented at: Virginia Tech’s BEST Program and Professional Development for Graduate Students; July 10, 2014; Blacksburg, VA.


Wessinger, WD, Freedman, VH, Zinn, A, Black, S, Van Wart, A. Preparing for and applying to PhD and MD-PhD programs. Oral presentation presented at: Careers in Science and Medicine: Recruitment Fair and Workshops, AAMC GREAT/GRAND Group ancillary event; September 20, 2014; Fort Worth, TX.

Department of Radiology
Virginia Tech Carilion Research Institute

Dorn, HC. Nano building blocks. Talk presented at: The Virginia Tech College of Science NanoCamp; August 2, 2014; Blacksburg, VA.

Dorn, HC. Nano building blocks. Talk presented at: The Science Museum of Southwest Virginia Medical Research Camp at VTC; August 7, 2014; Roanoke, VA.

Murphy, S, Kiselev, B, Li, T, Zhang, J, LaConte, MS, Li, T, Dorn, HC, Sheng, Z. Development of an Interleukin-13 Metallofullerene Tumor targeting nanoparticle for Glioblastoma diagnosis and treatment. Talk presented at: The NanoDDS, 12th
Li, T, Murphy, S, Bakshi, K, Zhang, Y, Davis, RM, Madsen, LA, Morris, JR, LaConte, MS, Zhang, J, LaConte, S, Sheng, Z, Dorn, HC. Interleukin-13-Gd3N@C80(OH)x(NH2)y: A targeting MR Imaging Contrast Nanoparticle for Glioblastoma Mutiforme Tumor Detection. Talk presented at: NanoDDS, 12th International Nanomedicine and Drug Delivery Symposium; October 7, 2014; Chapel Hill, NC.

Dorn, HC. Buckyballs, soccerballs, in space, and nanomedicine from the bottom up. Talk presented at: The Virginia Science Festival; October 11, 2014; Roanoke, VA.

Department of Surgery

Dental Surgery Section

Conklin, C. Oral Health Integration in Practice. Talk presented at: The Virginia Dental Association Board Meeting; January 16, 2015; Richmond, VA.


General and Breast Surgery Section

Adkins, F. Surgical options for primary colorectal malignancy. Case presentation presented at: Carilion Human Resources Training and Development and Blue Ridge Cancer Care Annual Oncology Symposium – Transformative Issues in Gastrointestinal Cancers, The Jefferson Center; October 10, 2014; Roanoke, VA.

Fogel, S. Enhanced recovery protocol. Talk presented at: The regional meeting of Association of periOperative Registered Nurses; April, 2015; Roanoke, VA.

Fogel, S, Hamill, M. Respiratory complications in trauma patients strongly associated with contact isolation precautions. Talk presented at: The Critical Care Congress; January, 2015; Phoenix, AZ.

Fogel, S. How to do a quality improvement project in surgery. Talk presented at: The American Society of Quality; October 20, 2014; Radford, VA.

Fogel, S. How to do a quality improvement project. Talk presented at: St. Barnabus Hospital; October 1, 2014; Livington, NJ.

Long, B. Surgical options and indications in Hepatocellular Carcinoma. Case presentation presented at: Carilion Human Resources Training and Development and Blue Ridge Cancer Care Annual Oncology Symposium – Transformative Issues in Gastrointestinal Cancers, The Jefferson Center; October 10, 2014; Roanoke, VA.

Lucktong, TA. Bariatric surgery. Talk presented at: Carilion Spring Symposium; May, 2015; Roanoke, VA.

Luyimbazi, D. Surgical resections and outcomes for Pancreatic Cancer. Case presentation presented at: Carilion Human Resources Training and Development and Blue Ridge Cancer Care Annual Oncology Symposium – Transformative Issues in Gastrointestinal Cancers, The Jefferson Center; October 10, 2014; Roanoke, VA.
• Paget, C. What’s new at Carilion Clinic? Talk presented to: The Virginia Chapter of ACS/Virginia Surgical Society; May 3, 2015; Roanoke, VA.
• Paget, C. Faculty retreat lectures: Milestones. Talk presented at: Carilion Roanoke Memorial General Surgery Residency Update; October 18, 2014; Roanoke, VA.

Pediatric Surgery Section
• Hedge, V. Challenges of life after abusive head trauma. Panel discussion at: Carilion Pediatric Continuing Medical Education Conference; December 2, 2014; Roanoke, VA.
• Wattsman, T. Is routine postoperative follow-up necessary after common pediatric surgical procedures? Talk presented at: The10th Annual Academic Surgical Congress; February, 2015; Las Vegas, NV.

Trauma Surgery Section
• Collier, B. Parenteral and enteral nutrition in the ICU. Lecture presented at: The American Society for Parenteral and Enteral Nutrition 2015 Clinical Nutrition Week; February 14, 2015; Long Beach, CA.
• Collier, B. Feeding the open abdomen. Webinar presented for NESTLE Health Institute; January 14, 2015; Webinar.
• Collier, B. ERAS: The Roanoke story. Talk presented at: VAASPEN; November 7, 2014; Richmond, VA.
• Collier, B. No I in Team. Keynote speaker at: The Norfolk Trauma Symposium. Implementation of TEAM STEPPS; October 28, 2014; Norfolk, VA.

Department of Academic Affairs
• Musick, DW. Why simulation matters: Patient outcomes and return on investment. Oral presentation presented at: The 10th Annual Conference, Virginia State Simulation Association; August, 2015; Virginia Beach, VA.
• Musick, DW, Johnson, BE, Harrington, D, Whicker, SA. An initial faculty development needs assessment survey at a new medical school. Oral presentation presented to: The Southern Group on Educational Affairs (SGEA) Annual Meeting; April, 2015; Charlotte, NC.
• Pline, E, Whicker, SA, Vari, R, Fogel, S, Musick, D. Association of multiple mini interview scores with first year medical student success in problem based learning. Talk presented at: Carilion Research Day; April, 2015; Roanoke, VA.
• Trinkle, D, Kennedy W, Musick D, Lane H, Heitz C. Interprofessional team simulations: Bringing clinical relevance to roles & scopes. Accepted as Pre-Conference Workshop at: Collaborating Across Borders National Conference in Interprofessional Healthcare; September 29, 2015; Roanoke, VA.
• Whicker, S. Authorship in Medical Education. Talk presented at: Duke AHEAD Education Day, Repeated small group sessions; September, 2015; Durham, NC.
• Whicker, S. How’d I do and how can I improve? Providing effective feedback & evaluations. Talk presented at: The Department of Pediatrics, Carilion Clinic, Grand Rounds; August 2015; Roanoke, VA.
• Whicker, SA, Nagler, A, Engle, D, Chudgar, S, Bean, S, Naryan, AP, Grochowski, CO. What a mess! Making a medical education scholarship support (MESS) group work!. Workshop presented at: The Southern Group on Educational Affairs; April, 2015; Charlotte, NC.
• Whicker, SA, Musick, DW. Feedback in clinical training. Talk presented at: Division of Child Psychiatry, Department of Psychiatry, Virginia Tech Carilion School of Medicine; October 1, 2014; Roanoke, VA.
• Whicker, SA. Teaching and learning more effectively. Talk presented at: Virginia Tech Carilion School of Medicine Department of Pediatrics Grand Rounds; December, 2014; Roanoke, VA.
• Whicker, SA. Teaching and learning more effectively. Talk presented at: Virginia Tech Carilion School of Medicine Department of Emergency Medicine Grand Rounds; October, 2014; Roanoke, VA.
• Whicker, SA. Teaching and learning more effectively. Talk presented at: Virginia Tech Carilion School of Medicine Department of Surgery Faculty Meeting; October, 2014; Roanoke, VA.

Department of Nursing
• Bond, D. Simulation to support family presence during resuscitation. Platform presentation at: Virginia State Simulation Alliance (VASSA); August 6, 2014; Lynchburg, VA.
• Boyd, L, Voight, A, & Whitehead, P. Terminal agitation: An expanding role for Dexmedetomidine. Talk presented at: 8th Annual Carilion Clinic/JCHS Research Day; April 16, 2015; Roanoke, VA.
• Carter, K, Cole, L, Webster, C. A Tale of Two Magnet® Journeys: Contrasting strengths and challenges in advancing research. Platform presentation presented at: 2014 ANCC Magnet Conference; October 8-10, 2014; Dallas, TX
• Collier, B, Gilbert, C, Harris, HE, Taylor, D, Wright, A. Two year cessation of resident teamwork training impacts trauma resuscitation performance and efficiency, Platform presentation presented at: American College of Surgeons Clinical College; October 26-30, 2014; San Francisco, CA.
• Collins, L. Dramatic patient experience improvements through a unit-based reformed care delivery model. Meritorious Rapid Communications Presentation Presented at: 8th Annual Carilion Clinic/JCHS Research Day; April 16, 2015; Roanoke, VA.
• Harris, C, Harvey, E, Wright, A, Taylor, D, Gilbert, C, Collier, B. Two year cessation of resident teamwork training impacts trauma resuscitation performance and efficiency. Platform presentation at: 2014 American College of Surgeons Clinical College; October 26-30, 2014; San Francisco, CA.
• Harvey, E. TeamSTEPPS Stories from across the country: The Good, the Bad and
the Ugly. Platform presentation presented at: National TeamSTEPPS Conference; June 16-17, 2015; Denver, CO.

- Harvey, E. A comparison of traditional and simulation TeamSTEPPS® training methods on nurse performance related to failure to rescue. Platform presentation presented at: 2014 Virginia State Simulation Alliance (VASSA); August 6, 2014; Lynchburg, VA.

- Harvey, E. TeamSTEPPS® implementation at a Level 1 Trauma Center. Platform presentation at: Virginia State Simulation Alliance; August 6, 2014; Lynchburg, VA.

- Holskey, M, Webster, C, Booth, K, Jessie, A, King, D, Baudreau, K. Growing up fast: How to sustain Magnet® status while expanding inpatient and ambulatory/outpatient practice settings. Platform presentation presented at: ANCC National Magnet® Conference; October 8-10, 2014; Dallas, TX.


- Whitehead, P, Malik, R. Impact of Schwartz Center Rounds on moral distress in a large healthcare system. Meritorious presentation presented at: 8th Annual Carilion Clinic/JCHS Research Day; April 16, 2015; Roanoke, VA.

- Whitehead PB, Morel T D, White C. Breaking bad news: When sepsis is terminal. Keynote/Plenary Address to: 2015 Annual Carilion Sepsis Conference, Carilion Clinic; July 17, 2015; Roanoke, VA.

- Whitehead, P. Patient assessment and monitoring for opioid-induced sedation and respiratory depression. Talk presented at: The National Association of Orthopaedic Nurses; April 25, 2015; Roanoke, VA.

- Whitehead, P. Pharmacology of pain medications and pharmacokinetics. Talk presented at: The VACNS Annual Conference: Professional and Practice Issues; April 24, 2015; Lynchburg, VA.

- Whitehead, P. The impact of Schwartz Center Rounds on moral distress in a large healthcare system. Talk presented at: The Faculty Rapid Communication, Carilion Clinic/JCHS Research Day; April 16, 2015; Roanoke, VA.


Pharmacy Department

- Bentley, M. Drug dosing in challenging ICU populations. Session moderator at: Society of Critical Care Medicine (SCCM); January, 2015; Phoenix, AZ.

- Bentley, M. Critical care pharmacotherapy: Challenges and controversies. Protecting the tenuous kidney. Platform presentation presented at: Society of Critical Care Medicine (SCCM); January, 2015; Phoenix, AZ.

- Chang, C. Malignancy related emergencies for the ICU practitioner. Platform presentation presented at: Carolinas/Virginias SCCM 33rd Annual Scientific Symposium; June, 2014; Charlottesville, VA.
• Czar, M. IHARP: Improving Health in At-Risk Rural Patients. Platform presentation presented at: HCIA MTM Collaborative National Webinar; May, 2015; Webinar.
• Czar, M. Design and implementation of the improving health of at-risk rural patients care model. Platform presentation presented at: ASHP Midyear Clinical Meeting; December, 2014; Anaheim, CA.
• Delapp, V. Medical safety TED talk. Platform presentation presented at: Carilion Clinic Senior Leadership Conference; January, 2015; Roanoke, VA.
• Faris, J. Pain control in the ICU. Platform presentation presented at: Carolinas/Virginias SCCM 33rd Annual Scientific Symposium; June, 2015; Charlottesville, VA.
• Faris, J. Session moderator at: American Burn Association (ABA) Annual Meeting; April, 2015; Chicago, IL.
• Gladfelter, S. Neonatal Pharmacology. Platform presentation presented at: Neonatal Conference; September, 2014; Roanoke, VA.
• Klick, Z. Use of an adjusted body weight in the dosing of unfractionated heparin in patients weighing >= 100 kg compared to patients weighing <100 kg. Platform presentation presented at: Eastern States Residency Conference; May, 2015; Hershey, PA.
• Lee, W. Pharmacist coordinated acute and chronic community health care delivery models. Platform presentation presented at: ASHP Midyear Clinical Meeting; December, 2014; Anaheim, CA.
• McClain, S. ID clinical pearls: Biomarkers and beyond. Platform presentation presented at: Virginia Society of Health-System Pharmacists (VSHP) Fall Seminar; October, 2014; Virginia Beach, VA.
• McClain, S. Newer antimicrobials. Platform presentation presented at: VSHP Spring Seminar; April, 2015; Portsmouth, VA.
• McClain, S. Medical grand rounds: Hepatitis C. Platform presentation presented at: VA Medical Center; March, 2015; Salem, VA.
• McClain, S. Antimicrobial resistance: Are we out of options? Platform presentation presented at: Virginia Council of Nurse Practitioners Annual meeting; March, 2015; Roanoke, VA.
• Underhill, K. Comparing oral vs. intravenous acetaminophen for temperature control in a neurotrauma intensive care unit. Platform presentation presented at: Eastern States Residency Conference; May, 2015; Hershey, PA.
• Williams, K. IHARP: Primary care clinical pharmacy. Platform presentation presented at: Virginia Society of Health-System Pharmacists (VSHP) Fall Seminar; October, 2014; Virginia Beach, VA.
• Zhang, S. Impact of Sepsis Standardized Order Set on sepsis quality indicators in the Emergency Department. Platform presentation presented at: Eastern States Residency Conference; May, 2015; Hershey, PA.
Carilion Clinic-Virginia Tech Carilion School of Medicine Residency and Fellowship Regional, National and International Presentations

Cardiology Fellowship

- Okogbue, I. Diagnosis of low flow, low gradient severe aortic stenosis with preserved left ventricular ejection fraction. Talk presented at: The Carilion Clinic Research Day 2015; April, 2015; Roanoke, VA.

Family Medicine Residency

- Aggarwal, A. Engaging type II diabetics with hgba1c between 8 and 10 in lifestyle changes. Oral presentation presented at: The Virginia Academy of Family Physicians Annual Winter Meeting; January 31, 2015; Wintergreen, VA.
- Chen, E, Thompson, J, Aggarwal, A. Increasing resident and staff comfort with QI: Lessons learned with the introduction of a new QI curriculum. Oral presentation presented at: The 48th Annual Society of Teachers of Family Medicine Spring Conference; April 26, 2015; Orlando, FL.
- Thompson, J, Etheridge, R. Emergency department utilization. Oral presentation presented at: The I3 Collaborative Meeting; April 17, 2015; Greenville, NC.
- Walters, A. Warfarin management in atrial fibrillation – office process standardization and outcomes. Oral presentation presented at: The Virginia Academy of Family Physicians Annual Winter Meeting; January 31, 2015; Wintergreen, VA.

Obstetrics and Gynecology Residency

- Gentry, A, Evans-Hoeker, E, Lessey, B, Yuan, L, Young, S. Does the endometrium synthesize progesterone? Talk presented at: The Carilion Research Day; April, 2015; Roanoke, VA.
- Nelson, L. Sensitivity of risk factor based third trimester screening for Chlamydia Trachomatis in a resident obstetrics clinic population. Talk presented at Carilion Research Day; April, 2015; Roanoke, VA.
- Tonismae, T, Harden, S, Ramalingam, M, Evans-Hoeker, E. Current Obstetrics and Gynecology provider weight management practices and opportunities for improvement. Talk presented at: The Carilion Research Day; April, 2015; Roanoke, VA.
- Tonismae, T, Murchison, A. Impact of the implementation of a competitive resident teaching program on resident teaching performance: A retrospective cohort study. Talk presented at: The Carilion Clinic and Jefferson College of Health Sciences Research Day; April, 2015; Roanoke, VA.
- Tonismae, T. Current Obstetrics and Gynecology provider weight management practices and opportunities for improvement. Talk presented at: 4th Annual ACOG Virginia Section Meeting; September 18, 2015; Richmond, VA.
- Whitney, M. Treatment of urinary incontinence at the time of hysterectomy for patients with endometrial cancer. Talk presented at Carilion Research Day; April, 2015; Roanoke, VA.
Pediatric Residency

Psychiatry Residency
- Ha, R. Dementia and other cognitive disorders. Catawba Hospital Psychiatry Department Grand Rounds; May, 2015; Catawba, VA.
- Olivas, J. Hospital Based Inpatient Psychiatry. Carilion Psychiatry Grand Rounds; February, 2015; Roanoke, VA.
- Shah, B. Postictal psychosis. Salem VAMC Psychiatry Grand Rounds; February, 2015; Salem, VA.
- Williams, D, Ha, R. Faist, L. Thin grey line: Neurology and psychiatry. Carilion Psychiatry Grand Rounds; February, 2015; Roanoke, VA.

Surgery Residency
- Ferguson, R, Reed, C, Collier, B, Bradburn, E, Fogel, S, Peng, Y, Toms, A, Baker, CC, Hamill, E. Contact isolation is associated with venous thromboembolism in trauma patients. Presented at: The 28th EAST Annual Scientific Assembly; January, 2015; Lake Buena Vista, FL.
Jefferson College of Health Sciences Regional, National and International Presentations

- Bowersock, AH. Nutrition for collegiate student-athletes. Talk presented at: Hollins University Athletics Department, Hollins University; October, 2014; Roanoke, VA.
- Bowersock, AH. Exercise as medicine: A prescription for good health. Talk presented at: Women's Health University, Carilion Clinic; November, 2014; Roanoke, VA.
- Bowersock, AH. Exercise prescription and you. Talk presented at: Medical Grand Rounds, Carilion Clinic, CRMH; October, 2014; Roanoke, VA.
- Carhart, ED. Stress, emotion, & learning: Considerations for the EMS Educator. Talk presented at EMS Today: The JEMS Conference; February, 2015; Baltimore, MD.
- Carhart, ED. Teaching beyond the textbook: Strategies for promoting lifelong learning in EMS. Talk presented at EMS Today: The JEMS Conference; February, 2015; Baltimore, MD.
- Carhart, ED, Stewart, LS, Epperson, J, Coleman, J, Carter, T. Improvised chest seals are less effective than commercially manufactured vented chest seals. Talk presented at EMS Today: The JEMS Conference, UCLA Prehospital Care Research Forum; February, 2015; Baltimore, MD.
- Ferguson, JT. Exercising your blackboard skills. Talk presented at: Virginia Blackboard Users Group 5th Annual Conference, Virginia Blackboard Users Group; October, 2014; Roanoke, VA.
- Hatfield, SL. Negative perceptions of higher education in Appalachia. Talk presented at: Annual Meeting, Virginia Education Research Association; September, 2014; Charlottesville, VA.
- Jones, S. Caring for Veterans and their families. Talk presented at: East River Mountain AACN Spring Conference, East River Mountain AACN, Bluefield State College; May, 2015; Bluefield, WV.
- Kennedy, WC. JCHS PA Program. Talk presentation at: Roanoke Rotary Club, Roanoke Country Club; September, 2014; Roanoke, VA.
- Kent, GP. The psychology of not dieting. Talk presented at: 3rd Annual Hokie Wellness Finding Balance Conference, Virginia Tech; September, 2014; Blacksburg, VA.
Kennedy, WC, Swanchak, L. Sticks and pricks - Needlestick injuries and exposures. Talk presented at: Physician Assistant Education Association Annual Meeting, PAEA; October, 2014; Philadelphia, PA.

Link, L, Porter, CL. Preparing students for clinical training using Blackboard. Talk presented at: VA BUG 5th Annual Conference Broadening Educational Horizons, VA BUG (Blackboard Users Group); October, 2014; Roanoke, VA.

McNamara, JP, Tousman, SA. Interprofessional education: How unconventional methodology can develop interprofessionalism in undergraduate and graduate students. Talk presented at: Virginia Tech Center for Instructional Design and Research; 2015; Blacksburg, VA.

McNamara, JP, Tousman, SA. Interprofessional education: How unconventional methodology can develop interprofessionalism in undergraduate and graduate. Talk presented at: Collaboration Across Borders; 2015; Roanoke, VA.

Marlow, T, Munsey, SR, Vest, MB. Data governance in higher education. Talk presented at: Data Governance & Information Systems, Jefferson College; September, 2014; Roanoke, VA.

Mayhew, GR, Cyplik, A. Managing assessment data and validating meaningful change. Talk presented at: From Mission to Action to Evidence: Empowering and Inclusive General Education Programs, American Association of Colleges and Universities; February, 2015; Kansas City, MI.


Patel, D, Devereaux, RS, Teaford, G, Dane, FC, Parish, DC, Waring, M, Kiefe, CI. Medication adherence improves shortly after acute coronary syndrome admission and then declines over one year: Findings from TRACE-CORE, American Heart Association; 2015; Dallas, TX.

Peerman, CH. Health & eating. Talk presentation at: Christiansburg Rec Center; January, 2015; Christiansburg, VA.

Peerman, CH. Care options for the aging population. Talk presented at: Aging Symposium, The Western & Central VA Council for Aging in Place; October, 2014; Daleville, VA.

Peerman, CH. Quality of life in LTC & future perspectives. Talk presented at: Beard Conference on Aging, Lynchburg College; June, 2015; Lynchburg, VA.

Peerman, CH. Future trends in healthcare. Talk presented at: Senior Networking Expo, Senior Networking Group; March, 2015; Blacksburg, VA.

Peerman, CH. Health and hygiene. Talk presented at: Christiansburg Recreation Center; January, 2015; Christiansburg, VA.


Porter, AG. Steps to launch your first study. Talk presented at: Carilion Clinic Nursing Research and Evidence Based Practice Conference, Carilion Clinic; October, 2014; Roanoke, VA.
- Price, JB. Technology toolkit: Evaluating a new workshop series for students. Talk presented at: Mid Atlantic Chapter of the Medical Library Association; October, 2014; Alexandria, VA.
- Reese, RC. Creating strong affirmations: Incorporating signature strengths to fast-track results. Talk presented at: NGH Annual Convention 2013, Educational Conference & Exhibition, National Guild of Hypnotists (NGH); August, 2014; Marlboro, MA.
- Staykova, MP., Dane, FC., Carhart, ED. Collaboration research. Talk presented at: Jefferson Faculty Education Day, JCHS; September, 2014; Roanoke, VA.
- Tousman, SA. Changing human health behavior. Talk presented at: Association of Asthma Educators, Association of Asthma Educators; August, 2014; San Antonio, TX.
- Vest, MB, Allison-Jones, L. Implementing collaborate: Project management method or madness. Talk presented at: Virginia Blackboard Users Group Conference’ October, 2014; Roanoke, VA.
- Vest, MB. Jefferson College online strategies. Talk presented at: Jefferson College Board of Directors Meeting, Jefferson College; December, 2014; Roanoke, VA.
- Vest, MB. Online learning - The NOW thing! Talk presented at: Online Express Series, Jefferson College; September, 2014; Roanoke, VA.
- Watson, CD. Creating and maintaining momentum for academic writing. Talk presentation at: Coffee, Cookies, and Research (CCR), Jefferson College, Jefferson College Museum; October, 2014; Roanoke, VA.
- Watson, CD. Bottoms up: Literary libations and other culinary adventures in Southern tourism. Talk presented at: Southern Humanities Conference, Southern Humanities Council/ College of St. Rose; February, 2015; Athens, GA.
- Whitten, LL. The interplay between novice and expert: Lego® of your old paradigms. Talk presented at: audio-video PPT, VLN; July, 2014; Lynchburg, VA.
Virginia Tech Carilion School of Medicine Regional, National and International Presentations

Department of Biomedical Science

- Boyd, D. C., Forensic Science, Forensic Archaeology, Forensic Anthropology, Lecture presented at Virginia Forensic Science Academy, Virginia Department of Forensic Science; 2014; Richmond, VA.
- Daniel, G. B., Radiographic Evaluation of the Joint Disease, Presented at Richmond Academy Continuing Education Seminars, Richmond Academy, Richmond VA.
- Daniel, G. B., Radiographic Evaluation of the Thorax, Presented at Richmond Academy Continuing Education Seminars, Richmond Academy Continuing Education Seminars, Richmond VA.
- Deleon, D., Alemu, F., Payne, J., Rathore, S., Bentley, M. L., Ball, T. C., The effect of adding clopidogrel or warfarin to the gold standard, aspirin, on the rate of repeat coronary angiography and early saphenous vein graft failure, Presented at American College of Cardiology Scientific Session 2015; March 2015; San Diego, CA.
- Greenawald, J., Fogel, S., Vari, R. C., Improving the Problem-Based Learning Experience for Year 2 Medical Students, Presented at Southern Group on Educational Affairs, AAMC; April 24-26, 2015; Charlotte, NC.
- Grider, D., Chavan, R., Luyimbazi, D., State of the Art in Melanoma: Pathology, Diagnosis and Treatment. Panel Presented at: Medicine-Surgery Grand Rounds; (May 2015); Roanoke, VA.
- Grider, Douglas J., Vu, Thuy. Transformative Issues in Gastrointestinal Cancers. Lecture Presented at: 2014 Annual Blue Ridge Cancer Care and Carilion Clinic Oncology; (October 2014); Roanoke, VA.
- LaConte, L. E., Mukherjee, K., Examining the impact of mutation in X-linked mental retardation protein CASK, Presented at 92nd Annual Meeting (Structural Biology, Biochemistry and Biophysics Section) 2014; Virginia Academy of Science.
- McNamara, J. P., & Tousman, S. A. Interprofessional Education: How Unconventional Methodology Can Develop Interprofessionalism in Undergraduate and Graduate Students, Virginia Tech Center for Instructional Design and Research; 2015, Blacksburg, VA.
• McNamara, J. P., & Tousman, S. A., Interprofessional Education: How Unconventional Methodology Can Develop Interprofessionalism in Undergraduate and Graduate. Presented at Collaboration Across Borders; September 28-30; Roanoke, VA.
• Srivastava, S., McMillan, R., Hulver, M. W., Mukherjee, K., Low heteroplasmic level of m.3243a>g diabetogenic mutation promotes mitochondrial bioenergetics and nutrient metabolism," Presented at Cell Symposia: System Approach to Metabolic Diseases; 2014; Chicago, IL.
• Sweet, J. M. , Gillespie-Twardy, A., Whitmer, K. K., Watson, B. W., A 32-Year-Old Man with Back Pain, Splenomegaly and Leukocytosis, Presented at Department of Medicine CPC, Carilion Clinic; December 19, 2014; Roanoke, VA.
• Trinkle, D. B. (Presenter), Staykova, M., Johnson, B. E., Steer, G. A., Poulsen, C., Nicely, S., Jones, G., Our 5 Year Journey, Crossing Interdisciplinary Boundaries, Presented at Collaborating Across Boarders V; September 28-30, 2015; Roanoke, VA.
• Zallen, D., Colorectal cancer screening for people with a family history: should recommendations vary by age, Presented at American Society of Human Genetics; October 21, 2014; San Diego, CA.
• Zallen, D., Developing a Patient Facing Genome Sequencing Report: Results of Key Informant Interviews, Presented at the American Society of Human Genetics; October 20, 2014; San Diego, CA.
• Zallen, D., The DNA Lives On: Genetic Testing and DNA Banking at the End of Life, Presented at the American Society for Bioethics and Humanities; October 18, 2014; San Diego, CA.
• Zallen, D., The APOE gene and Alzheimer's disease: Benefits and burdens of genetic testing," Presented at the Department of Psychiatry; October 16, 2014; Roanoke, VA.

Department of Interprofessionalism
• Allison-Jones, L., Bishop, N. L., Minner, S., Gilbert, C., Public-Private Academic Partnerships: A Case Study, Presentation at 2014 Southern Association of Colleges and Schools Commission on Colleges Annual Meeting; December 2014; Memphis, TN.
• Bowersock, A. H., Nutrition for Collegiate Student-Athletes, Presentation at Hollins University Athletics Department, Hollins University; October 2014; Roanoke, VA.
- Bowersock, A. H., Exercise as Medicine: A Prescription for Good Health, Presentation at Women's Health University, Carilion Clinic; November 2014; Roanoke, VA.
- Bowersock, A. H., Exercise Prescription and You, Presentation at Medical Grand Rounds, Carilion Clinic; October 2014; Roanoke, VA.
- Kennedy, W. C., JCHS PA Program, Presentation at Roanoke Rotary Club, Roanoke Country Club; September 2014; Roanoke, VA.
- Kennedy, W. C., Swanchak, L., Sticks and Pricks - Needlestick Injuries and Exposures, Presentation at Physician Assistant Education Association Annual Meeting, PAEA; October 2014; Philadelphia.
- Link, L., Porter, C. L., Preparing Students for Clinical Training using Blackboard, Presentation at VA BUG 5th Annual Conference Broadening Educational Horizons, VA BUG (Blackboard Users Group); October 2014; Roanoke, VA.
- McNamara, J. P., Tousman, S. A., Interprofessional Education: How Unconventional Methodology Can Develop Interprofessionalism in Undergraduate and Graduate Students. Presentation at Virginia Tech Center for Instructional Design and Research; 2015; Blacksburg, VA.
- McNamara, J. P., Tousman, S. A., Interprofessional Education: How Unconventional Methodology Can Develop Interprofessionalism in Undergraduate and Graduate. Presentation at the Collaboration Across Borders; September 2015; Roanoke, VA.
- Patel, D., Devereaux, R. S., Teaford, G., Dane, F. C., Parish, D. C., Waring, M., Kiefe, C. I., Medication Adherence Improves Shortly After Acute Coronary Syndrome Admission and Then Declines Over One Year: Findings from TRACE-CORE. American Heart Association; 2015; Dallas, TX.
- Porter, A. G., Steps to launch your first study, Presentation at Carilion Clinic Nursing Research and Evidence Based Practice Conference, Carilion Clinic; October 2014; Roanoke, VA.
- Vest, M. B., Allison-Jones, L., Implementing Collaborate: Project Management Method or Madness, Presentation at Virginia Blackboard Users Group Conference; October 2014; Roanoke, VA.
Virginia Tech Carilion School of Medicine Medical Students’ Regional, National and International Presentations

- Bakshi, K. Interleukin-13-Gd3N@C80(OH)x(NH2)y: Enhanced targeting MR imaging contrast nanoparticle for glioblastoma mutiforme tumor detection. Paper presented at: Carilion Clinic Research Day 2015; April 15, 2015; Roanoke, VA.
- Blaufuss, G, Heerens, A. Decreasing chronic lung disease rates in preterm infants: A quality improvement study in the NICU at Carilion Roanoke Memorial Hospital. Paper presented at: Virginia Neonatal Practice Collaborative; September 5, 2014; Richmond, VA.
- Bowers, K. Ketamine as an Adjunct to Opiates for Acute Pain in the Emergency Department. Paper presented at: Carilion Clinic Research Day 2015; April 15, 2015; Roanoke, VA.
- Krueger, A. Antenatal care pre- and post-traditional birth attendant training program in rural Ghana. American Academy of Pediatrics; October 12, 2014; San Diego, CA.
- Kumar, N. Effectiveness of integrating behavioral strategies into the FIT RX 90 weight loss program. Paper presented at: American Academy of Pediatrics Experience National Conference & Exhibition; October 12-14, 2014; San Diego, CA.
• McClintic, H. Diastolic dysfunction predicts impaired aerobic capacity in older HIV-infected men. Paper presented at: 5th International Workshop on HIV & Aging; October 20-21, 2014; Baltimore, MD.
• Mehta, R. The prevalence of pre-diabetes in dual diagnosis populations. Paper presented at: AAP Annual National Conference; December 4-7, 2014; Aventura, FL.
• Melnikoff, B. Severity assessment of chronic obstructive pulmonary disease through physical examination. Paper presented at: American College of Surgeons Annual Clinical Congress Meeting; October 4-8, 2015; Chicago, IL.
• Nielson, J. Feasibility of a scribe research associate program (S-RAP) to facilitate ED research. Paper presented at: SAEM National Conference 2015; May 2015; San Diego, CA.
• Pham, L, Liang, Y, Guo, S, Murphy, S, Sheng, Z. Identification of CSNK1E and MELK as essential kinases to GBM and as future therapeutic targets. Paper presented at: American Academy of Neurology 67th Annual Meeting; April 18-25, 2015; Washington, DC.
• Sabbagh, D. Theta burst TMS as a tool to change smoking behavior. Paper presented at: Virginia Academy of Science; May 20 -23, 2015; Harrisonburg, VA.
• Snyder, A. Clustering based on childhood cognitive and behavioral indicators to address heterogeneity in schizophrenia. Paper presented at: Neuroscience 2014; November 15-19, 2014; Washington, DC.
• Snyder, A. Clustering based on childhood cognitive and behavioral indicators to address heterogeneity in schizophrenia. Paper presented at: American Psychiatric Association Annual Meeting 2015; May 16-20, 2015; Toronto, Canada.
• Taylor, K. Diurnal variations of T1rho relaxation times within tibial cartilage. Paper presented at: Orthopaedic Research Society Annual Meeting; March 4-8, 2016; Orlando, FL
• Trigonis, R, Storm, E, Mullet, J. Continuous theta bursts stimulation (cTBS) applied to the dorsolateral prefrontal cortex modulates late somatosensory evoked potentials (SEP) in normal subjects. Paper presented at: RSNA 2015; Nov. 29 - Dec.4, 2015; McCormick Place, Chicago.
• Weerakoon, S. Isoforms of VEGF-A in development of feline placenta. Paper presented at: Experimental Biology 2015; April 1, 2015; Boston, MA.
Carilion Clinic Abstracts and Posters

Carilion Medical Center
Department of Emergency Medicine


- Liu M, Lee A, Glick R, Burton JH, Kuehl D. Effect of mass casualty incident on 72 hr and 30 day return rates to Carilion Roanoke Memorial Hospital Emergency Department [Poster]. Presented at the 2015 ACEP Research Forum, Las Vegas, NV.


• Young JS. (2015, May). Resident-Driven Ultrasound-Guided Peripheral Intravenous (USGPIV) nursing education program reduces attempts and time to IV access [Poster]. Presented at the 2015 SAEM National Conference, San Diego, CA.


• Young JS. (2015, April). Effects of a resident-driven nursing ultrasound-guided peripheral IV access education program on central venous catheter placement rates in an academic ED [Poster]. Presented at the 2015 CORD Academic Assembly Advances in Education Research and Innovations Forum, Phoenix, AZ.

• Young JS. (2015, April). Resident-Driven Ultrasound-Guided Peripheral Intravenous (USGPIV) nursing education program reduces attempts and time to IV access [Poster]. Presented at the 2015 CORD Academic Assembly Advances in Education Research and Innovations Forum, Phoenix, AZ.


• Young JS. (2014, September). Potential return on investment for an academic emergency department ultrasound program [Poster]. Presented at the SAEM Great Plains Regional Meeting, Kansas City, MO.

Department of Family and Community Medicine


DeLeon D, Alemu F, Bentley M, Payne T, Ball TC. (2015) *Examining the complementary effectiveness of the addition of Warfarin to Aspirin on prevention of Saphenous Vein Graft Thrombosis* [Poster]. Presented at the International Academy of Cardiology 20th World Congress of Heart Disease, Vancouver, Canada 2015.

DeLeon D, Alemu F, Payne J, Bentley M, Ball TC. (2015). *Examining the effectiveness of Dual Antiplatelet Therapy with Aspirin and Clopidogrel in preventing Saphenous Vein Thrombosis given its proven benefit with Coronary Thrombosis* [Poster]. Presented at the International Academy of Cardiology, 20th World Congress of Heart Disease, Vancouver, Canada 2015.


Farooqui M, Rathore S, Ball TC, Schumaecker M. (2014) *Use of Indium-111 Octreotide to identify Cardiac Metastasis of Carcinoid Tumor* [Abstract]. Presented at the 2014 American College of Nuclear Cardiology Annual Scientific Sessions, Boston, MD.


**Dermatology Section**


**Gastroenterology Section**


• Dindial L, Adham K, Brijbassie AA. (2015). *This liver abscess seems fishy* [Poster]. Presented at Digestive Disease Week 2015, Washington, DC.


**General Medicine Section:**

• Kees DW, Kroker-Bode CA, Morgan TK. (2015, April). *Improving the clinical learning environment through resident safety event reports* [Poster]. Presented at the 2015
Health Care Nexus: Academic Systems in Transition sponsored by the AAMC, Austin, TX.


Pulmonary Medicine Section

- Burton M, Foroozesh MB. *Spray tans and Methemoglobinemia: Is a spray tan only skin deep?* [Poster]. Presented at the ATS International Conference 2015, American Thoracic Society, Denver, CO.

• Kuchelan D, Aziz S. (2014). *Arterial level PO2 does not always indicate an arterial misplacement during internal jugular venous cannulation* [Poster]. Presented at CHEST 2014, American College of Chest Physicians, Austin, TX.


• Siddiqui F, Rubio ER, Patel VL, Aziz SG, le SR. (2015). *Not all right-sided hearts are the same: The importance of identifying the correct diagnosis* [Poster]. Presented at Carilion Clinic Research Day, Carilion Clinic, Roanoke, VA.


Virginia Tech Carilion Research Institute

• Demmert AC, Dukes MJ, McDonald SM, Kelly DF. (2014). *Improving our vision of Nanovirology with In Situ TEM* [Abstract]. Presented at the Conference on In Situ and Correlative Electron Microscopy, Saarbrucken, Germany.


• Tenga MJ, Umemori H, Valdez G. (2014). *FGF22 and FGFBP1 are involved in repair of neuromuscular synapses* [Abstract]. Presented at the 26th Annual Central Virginia Chapter of the Society for Neuroscience Symposium, VCU, Richmond, VA.


• Winton CW, Gilmore B, Demmert AC, Kelly DF. *BRCA1 repair complexes in hereditary Breast Cancer* [Abstract]. Presented at the BMES National Meeting, Minneapolis, MN.

Department of Obstetrics and Gynecology

General Obstetrics and Gynecology Section


Maternal and Fetal Medicine Section


Reproductive Endocrinology and Infertility Section


• Evans-Hoeker E, Lessey B, Yuan L, Yoo J, Jeong J, Schammel D, Young S. (2015, April). B Cell Lymphoma Protein 6 (BCL-6) expression and regulation in normal and
abnormal endometrium [Abstract]. Presented at the Carilion Research Day, Roanoke, VA.


Urogynecology Section


Department of Orthopaedics

Adult Reconstruction Surgery Section

- Moskal JT. Hot topics and controversies in primary total hip arthroplasty, direct anterior approach is best for total hip arthroplasty [Abstract]. Presented at the 82nd Annual Meeting of the American Academy of Orthopaedic Surgeons, Volume 16, page 67, 2015, Las Vegas, NV.

Foot and Ankle Section

Spine and Pediatric Surgery Section


Sports Medicine Section


Trauma/Fracture Section

Department of Pediatrics
Community Pediatrics Section

Pediatric Hospitalists Section
- Hedge VL. (2014). Biliary Emesis [Poster]. Presented at the Pediatric Hospital Medicine Conference 2014, Society of Pediatric Hospitalist Medicine, Orlando, FL.
- Kees D, Kroker-Bode C, Morgan T. (2014). Improving the clinical learning environment through resident safety event reports [Poster]. Presented at the Shine Event for Providers Excellence and Quality Improvement 2014, Carilion Clinic Virginia Tech Carilion School of Medicine, Roanoke, VA.

Medical Genetics and Dysmorphology Section

Pediatric Pulmonology Section


**Virginia Tech Carilion Research Institute**

• Bircher JS, Carrillo GL, Hammer S, Guido W, Fox MA. *Nuclei specific differences in the organization and distribution of nerve terminals in visual thalamus* [Poster]. Presented at the 26th Annual Central Virginia Chapter of the Society for Neuroscience Symposium, VCU, Richmond, VA.


• Carrillo GL, Hammer S, Bircher JS, Guido W, Fox MA. (2014). *Differences in the structure and formation of retinal terminals in distinct thalamic nuclei* [Poster]. Presented at the National Conference of Undergraduate Research, University of Kentucky, Lexington, KY.

• DeLuca SC, Ramey SL, Trucks MR, Wallace DA. (2014, October). *Pediatric Constraint-Induced Movement Therapy: The efficacy of multiple treatment sessions* [Poster]. Presented at the American Congress of Rehabilitation Medicine, Toronto, CA.


• Levy CP* Brooks JM, Fox MA. (2014). *Developmental expression of ADAMTS15 by specific populations of hippocampal interneurons coincides with synaptogenesis* [Poster]. Presented at the 26th Annual Central Virginia Chapter of the Society for Neuroscience Symposium, VCU, Richmond, VA.

• Lippold K, Su J, Chen J, Fox MA. *Spontaneous seizures and increased seizure susceptibility following deletion of neuronally expressed Collagen XIX* [Poster]. Presented at the Society for Neuroscience 44th Annual Meeting, Washington DC.
• Lippold K, Su J, Chen J, Fox MA. (2014). Spontaneous seizures and increased seizure susceptibility following deletion of neuronally expressed collagen XIX [Poster]. Presented at the 26th Annual Central Virginia Chapter of the Society for Neuroscience Symposium, VCU, Richmond, VA.

• Monavarfeshani A, Fox MA. (2014). Are sequential, target-derived signals required to pattern the formation of brain synapses [Poster]. Translational Biology Medicine and Health Open House, Virginia Tech, Blacksburg, VA.

• Monavarfeshani A, Fox MA. Synaptic organizers in the mouse lateral geniculate nucleus [Poster]. Presented at the 26th Annual Central Virginia Chapter of the Society for Neuroscience Symposium, VCU, Richmond, VA.


Department of Psychiatry and Behavioral Medicine
Clinical Division


• Bankole A. (2016). What can BESI do? Hopefully keep Bob well [Accepted Poster]. To be presented at the 2016 annual American Association for Geriatric Psychiatry, Washington, DC.

• Bankole A, Maru S, Lian N. (2015, March). Comparison of the management of depression and dementia in older adults in primary care and geriatric specialty clinics in the Roanoke Valley [Accepted poster]. IRB application approved. Accepted for American Association for Geriatric Psychiatry poster session, New Orleans, LA.


• Bankole A. (2015, March). Integration of geriatric mental health and primary care practice in the care of older adults with depression and dementia in Roanoke Valley [Poster]. Presented at the American Association for Geriatric Psychiatry Annual Conference, New Orleans, LA.

• Bankole A. (2015, March). Stress and quality of life survey [Accepted poster]. Accepted for American Association for Geriatric Psychiatry poster session, New Orleans, LA.


Virginia Tech and Virginia Tech Carilion Research Institute


- Laconte L, Mukherjee K. (2014). Examining the impact of mutation in X-linked mental retardation protein CASK [Abstract]. Presented at the Virginia Academy of Science, 92nd Annual meeting (Structural Biology, Biochemistry and Biophysics Section), Richmond, VA.


• Moody L, Bickel WK. (2015, June). *Delay discounting across time: Mental time travel and monetary delay discounting from the future and past in heavy alcohol users* [Poster]. Presented at Research Society on Alcoholism Annual Scientific Meeting, San Antonio, TX.

• Moody L, Bickel WK. (2014, August). *Increased delay discounting in comorbid substance dependence and major depressive disorder or antisocial personality disorder* [Poster]. Presented at American Psychological Association Convention, Washington, DC.


• Quisenberry AJ, Koffarnus MN, Franck CT, Bickel WK. (2015, June). *Strength from recovery: Former drug-dependent individuals discount the future less than current users and controls* [Poster]. Presented at the College of Problems on Drug Dependence Annual Meeting, Phoenix, AZ.
• Ramey S. (2014, October). *Pediatric constraint-induced movement therapy: The efficacy of multiple treatment sessions* [Poster]. Presented at the American Congress of Rehabilitation Medicine, Toronto, ON, Canada.


• Snider SE, Franck CT, Koffarnus MN, LaConte S, Bickel WK. (2015, June). *Effects of working memory training regimen on learning acquisition and score asymptote in alcohol dependents* [Poster]. Presented at the College of Problems on Drug Dependence Annual Meeting, Phoenix, AZ.


**Department of Surgery**  
**Critical Care Surgery Section**

• Diaz G, Hamill M. (2014, November). *Caught in limbo: The effect of ICU boarding time on overall hospital length of stay in trauma patients* [Abstract]. Presented at the Virginia College of Surgeons Committee on Trauma Resident Paper Competition, Norfolk, VA.


• Ferguson R, Hamill M, Fogel S, Reed C. (2014, November). *Contact isolations increase risk of venous thromboembolism in surgical patients* [Abstract]. Presented at the Virginia College of Surgeons Committee on Trauma Resident Paper Competition, Norfolk, VA.
General and Breast Surgery Section

- Foster J. (2015, April). Safe patient handling and fall prevention [Poster]. Presented at the Safe Patient Handling and Mobility: Transforming Clinical practice featuring Specialty Track on Fall and Injury Prevention Conference of TAMPAVA Research and Education Foundation, Glendale, AZ.

Department of Academic Affairs

skills [Poster]. Presented at the Southern Group on Educational Affairs (SGEA) Annual Meeting, Charlotte, NC.


**Department of Nursing**


- Booth K, Collier B, Harvey E, Hubbard S. (2015, March). *We like to move it, move it: Progressive mobility in a NTICU* [Poster]. Presented at the Society for Trauma Nurses Annual Conference, Jacksonville, FL.


Chalfin K. (2014, October). *Implementation of nutritional algorithm to enhance the pressure ulcer prevention program: Quality improvement project* [Poster]. Presented at the Nursing Management Congress, Las Vegas, NV.

Chalfin K. (2014, September). *Nutritional algorithm to enhance pressure ulcer prevention program* [Poster]. Presented at the Virginia Nurses Association Education Day, Richmond, VA.


Harvey E. (2015, June). *TeamSTEPPS stories from across the country: The good, the bad and the ugly* [Poster]. Presented at the National TeamSTEPPS Conference, Denver, CO.


• Taylor D, Berbert T, Meadows G, Richardson S. (2015, March). The electronic medical record and trauma resuscitations: Can they coexist at a Level 1 Trauma Center? [Poster]. Presented at the Society for Trauma Nurses Annual Conference, Jacksonville, FL.


Pharmacy Department


• Bentley M. (2015, March). The effect of adding Clopidogrel or Warfarin to the gold standard, Aspirin, on the rate of repeat coronary angiography and early Saphenous Vein Graft failure [Poster]. Presented at the American College of Cardiology Conference, San Diego, CA.


• Gladfelter S. (2014, October). Application of early continuous positive airway pressure to decrease chronic lung disease in the neonate [Poster]. Presented at the Carilion Clinic Shine Awards Poster Presentation, Roanoke, VA.

• Gladfelter S. (2014, October). Decreasing unplanned extubations in the neonate [Poster]. Presented at the Carilion Clinic Shine Awards Poster Presentation, Roanoke, VA.


• Hoffman J. (2015, January). We like to move it move it – Progressive mobility in the neurotrauma intensive care unit [Poster]. Presented at the Virginia Hospital and Healthcare Association Patient Safety Summit, Richmond, VA.

• Hoffman J. (2014, October). We like to move it move it – Progressive mobility in the neurotrauma intensive care unit [Poster]. Presented at the Carilion Clinic Shine Awards Poster Presentation, Roanoke, VA.

• Klick Z, Hoffman J, Goodwin M. (2015, April). Heparin use in patients weighing >100 kg compared to patients weighing <100 kg Hospital [Poster]. Presented at Carilion Clinic Research Day, Roanoke, VA.


Cardiovascular Fellowship

- DeLeon D, Alemu F, Payne J, Bentley M, Ball TC. (2015) *Examining the effectiveness of dual Antiplatelet Therapy with Aspirin and Clopidogrel in preventing Saphenous Vein Thrombosis given its proven benefit with Coronary Thrombosis* [Poster]. Presented at the International Academy of Cardiology, 20th World Congress of Heart Disease, Vancouver 2015.
- Farooqui M, Rathore S, Ball TC, Schumaeker M. *Use of Indium-111 Octreotide to identify Cardiac Metastasis of Carcinoid Tumor* [Poster]. Presented at the 2014 American College of Nuclear Cardiology Annual Scientific Sessions, Boston, MA.


**Emergency Medicine Residency**


**Family Medicine Residency**


**Gastroenterology Fellowship**


• Dindial L, Adham K, Brijbassie AA. (2015). This liver abscess seems fishy [Poster]. Presented at Digestive Disease Week 2015, Washington, DC.


Internal Medicine Residency


• Assar S. (2015, March). Splenic artery aneurysm from Infective Endocarditis [Abstract]. Presented at the annual meeting of the Virginia Chapter of the American College of Physicians, Richmond, VA.


• Dindial L, Adham K, Brijbassie A. (2015). This liver abscess seems fishy [Abstract]. American College of Gastroenterology, Honolulu, HI.


• Icard B, (2015, March). Stroke in the young [Abstract]. Presentation at the annual meeting of the Virginia Chapter of the American College of Physicians, Richmond, VA.


• Naseem R. (2015, March). Linear IgA Bullous Dermatosis and AIN to rare complication of Vancomycin [Abstract]. Presented at the annual meeting of the Virginia Chapter of the American College of Physicians, Richmond, VA.


Interventional Cardiology Fellowship

Obstetrics and Gynecology Residency


**Pediatric Residency**


**Psychiatry Residency**


• Lian N, Maru S. (2015, March). *Comparison of the management of depression and dementia in older adults in primary care and geriatric specialty clinics in the Roanoke Valley* [Poster]. Presented at the 2015 American Association for Geriatric Psychiatry Annual Conference, New Orleans, LA.

• Lian N, Maru S. (2015, March). *Integration of geriatric mental health and primary care practice in the care of older adults with depression and dementia in Roanoke Valley* [Poster]. Oral presentation presented at the American Association for Geriatric Psychiatry Annual Conference, New Orleans, LA.

**Pulmonary Critical Care Fellowship**


• Abi Hatem N, Aziz SG. (2015). *Role of BODE Index in predicting Hospital readmissions post Pulmonary Rehabilitation* [Poster]. Presented at the Carilion Clinic Research Day, Carilion Clinic, Roanoke, VA.


• Kuchelan D, Aziz S. (2014). Arterial level PO2 does not always indicate an arterial misplacement during internal jugular venous cannulation [Poster]. Presented at CHEST 2014, American College of Chest Physicians, Austin, TX
• Siddiqui F, Rubio ER, Patel VD, Aziz SG, Ie SR. (2015). Not all right-sided hearts are the same: The importance of identifying the correct diagnosis [Poster]. Presented at the Carilion Clinic Research Day, Carilion Clinic, Roanoke, VA.
• Siddiqui F. (2015). Relationship between excessive daytime sleepiness and 6 minute walk test in patients with coronary artery disease and obstructive sleep apnea [Poster]. Presented at the Carilion Clinic Research Day, Carilion Clinic, Roanoke, VA.

Surgery Residency
• Ferguson R, Hamill M, Fogel S, Reed C. (2014, November). Contact isolations increase risk of venous thromboembolism in surgical patients [Abstract]. Presented at the Virginia College of Surgeons Committee on Trauma Resident Paper Competition, Norfolk, VA.
Jefferson College of Health Sciences Faculty Abstracts and Posters


- Carter K, Staykova MP. (2014, October). *Jumping the hurdles before the race* [Poster]. Presented at the Magnet Conference, Magnet, Dallas, TX.


- Patel DS, Devereaux RS, Teaford HG, Dane FC, Parish DC, Waring ME, Kiefe CI. (2015, April). *Medication adherence improves shortly after acute coronary syndrome admission and then declines over one year: Findings from TRACE-CORE.* [Poster]. Presented at the Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke 2015 Scientific Sessions, American Heart Association & American Stroke Association, Baltimore, Maryland, USA.


Department of Biomedical Science

- LaConte, L, Mukherjee, K. (2014) Examining the impact of mutation in X-linked mental retardation protein CASK. Poster Presented at: 92nd Annual Meeting (Structural Biology, Biochemistry and Biophysics Section).

Department of Interprofessionalism

- Carter K, Staykova MP. (2014, October). *Jumping the hurdles before the race* [Poster]. Presented at the Magnet Conference, Magnet, Dallas, TX.

• Patel DS, Devereaux RS, Teaford HG, Dane FC, Parish DC, Waring ME, Kiefe CI. (2015, April). *Medication adherence improves shortly after acute coronary syndrome admission and then declines over one year: Findings from TRACE-CORE* [Poster]. Presented at the Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke 2015 Scientific Sessions, American Heart Association & American Stroke Association, Baltimore, Maryland, USA.

Virginia Tech Carilion School of Medicine Medical Students’ Abstracts and Posters

- Bakshi, K. Interleukin-13-Gd3N@C80(OH)x(NH2)y: Enhanced targeting MR imaging contrast nanoparticle for glioblastoma mutiforme tumor detection. Paper presented at: Carilion Clinic Research Day 2015; April 15, 2015; Roanoke, VA.

- Blaufuss, G, Heeren, A. Decreasing chronic lung disease rates in preterm infants: A quality improvement study in the NICU at Carilion Roanoke Memorial Hospital. Paper presented at: Virginia Neonatal Practice Collaborative; September 5, 2014; Richmond, VA.

- Bowers, K. Ketamine as an Adjunct to Opiates for Acute Pain in the Emergency Department. Paper presented at: Carilion Clinic Research Day 2015; April 15, 2015; Roanoke, VA.


- Krueger, A. Antenatal care pre- and post-traditional birth attendant training program in rural Ghana. American Academy of Pediatrics; October 12, 2014; San Diego, CA.

- Kumar, N. Effectiveness of integrating behavioral strategies into the FIT RX 90 weight loss program. Paper presented at: American Academy of Pediatrics Experience National Conference & Exhibition; October 12-14, 2014; San Diego, CA.
• McClintic, H. Diastolic dysfunction predicts impaired aerobic capacity in older HIV-infected men. Paper presented at: 5th International Workshop on HIV & Aging; October 20-21, 2014; Baltimore, MD.


• Mehta, R. The prevalence of pre-diabetes in dual diagnosis populations. Paper presented at: AAP Annual National Conference; December 4-7, 2014; Aventura, FL.

• Melnikoff, B. Severity assessment of chronic obstructive pulmonary disease through physical examination. Paper presented at: American College of Surgeons Annual Clinical Congress Meeting; October 4-8, 2015; Chicago, IL.


• Nielson, J. Feasibility of a scribe research associate program (S-RAP) to facilitate ED research. Paper presented at: SAEM National Conference 2015; May 2015; San Diego, CA.

• Pham, L, Liang, Y, Guo, S, Murphy, S, Sheng, Z. Identification of CSNK1E and MELK as essential kinases to GBM and as future therapeutic targets. Paper presented at: American Academy of Neurology 67th Annual Meeting; April 18-25, 2015; Washington, DC.


• Sabbagh, D. Theta burst TMS as a tool to change smoking behavior. Paper presented at: Virginia Academy of Science; May 20-23, 2015; Harrisonburg, VA.


• Snyder, A. Clustering based on childhood cognitive and behavioral indicators to address heterogeneity in schizophrenia. Paper presented at: Neuroscience 2014; November 15-19, 2014; Washington, DC.

• Snyder, A. Clustering based on childhood cognitive and behavioral indicators to address heterogeneity in schizophrenia. Paper presented at: American Psychiatric Association Annual Meeting 2015; May 16-20, 2015; Toronto, Canada.
• Taylor, K. *Diurnal variations of T1rho relaxation times within tibial cartilage.* Paper presented at: Orthopaedic Research Society Annual Meeting; March 4-8, 2016; Orlando, FL
• Trigonis, R, Storm, E, Mullet, J. *Continuous theta bursts stimulation (cTBS) applied to the dorsolateral prefrontal cortex modulates late somatosensory evoked potentials (SEP) in normal subjects.* Paper presented at: RSNA 2015; Nov. 29 - Dec.4, 2015; McCormick Place, Chicago.
• Weerakoon, S. *Isoforms of VEGF-A in development of feline placenta.* Paper presented at: Experimental Biology 2015; April 1, 2015; Boston, MA.
Clinical Trial Agreements

Department of Medicine
Cardiovascular Medicine Section

- PI: Mirza, M. Affordability and Real-world Antiplatelet Treatment Effectiveness after Myocardial Infarction Registry (ARTEMIS). Awarded: 09/09/15-09/01/17, EMD Sorenio, Inc. $11,000.00.
- PI: Musser, C. Multi-center, placebo-controlled, dose-ranging phase 2 electrophysiological study of intranasal administration of MSP-2017 for the conversion of induced paroxysmal supraventricular tachycardia to sinus rhythm (Milestone study). Awarded: 03/27/15-03/01/17, Medpace. $48,150.00.
- PI: Sane, D. An observational study assessing the management of gastrointestinal and urogenital bleeding events in patients with atrial fibrillation treated with dabigatranetexilate. Awarded: 11/12/14-09/01/15, Boehringer-Ingelheim. $8,150.00.
- PI: Sane, D. Medically ill patient assessment of rivaroxaban vs. placebo in reducing post-discharge venous thrombo-embolism risk (MARINER). Awarded: 02/23/15-02/01/16, JANSSEN Pharma. $20,134.00.

Dermatology Section

- PI: Kolodney, M. A multicenter, double-blind, placebo-controlled, adaptive phase 3 trial of POL-103A polyvalent melanoma vaccine in post-resection melanoma patients with a high risk of recurrence (MAVIS study). Awarded: 03/09/15-03/01/17, Polynoma LLC. $64,995.00.

Gastroenterology Section

- PI: Sorrentino, D. A multicenter, randomized, double-blind, placebo-controlled study of ABT-494 for the induction of symptomatic and endoscopic remission in subjects with moderately to severely active Crohn’s Disease who have inadequately responded to or are intolerant to anti-TNF therapy (M13-740 Study). Awarded: 05/05/15-05/01/17, AbbVie. $999,321.96.
- PI: Sorrentino, D. Clinical Trial Protocol: APD334-003 (Arena) Anti-integrin therapy (APD334) in ulcerative colitis patients unresponsive to anti-TNF agents
- PI: Sorrentino, D. Clinical trial Protocol CNTO1275UCO3001 (Janssen) Ustekinumab for ulcerative colitis patients – both biologic and non biologic naïve pt

Neurology Section

- PI: Mallenbaum, S. Randomized, double-blind, evaluation in secondary stroke prevention comparing the efficacy and safety of the oral thrombin inhibitor dabigatranetexilate (110 mg or 150 mg, oral b.i.d.) vs. acetylsalicylic acid (100 mg oral q.d.) in patients with embolic stroke of undetermined source (Respect-ESUS Study). Awarded 03/27/15-03/01/17, Boehringer Ingelheim. $52,681.89.

Rheumatology Section

- PI: Bankole, A. A phase IIb, multi-center, randomized, double-blind, placebo-controlled, multidose, 24-week study to evaluate the efficacy and safety of Atacicept in subjects with Systemic Lupus Erythematosus (SLE). Awarded: 09/11/15-09/01/16, EMD Sorenio, Inc. $120,500.00.
- PI: Bankole, A. A multicenter double-blind, randomized controlled study of etanercept and methotrexate in combination or as monotherapy in subjects with psoriatic arthritis. Awarded FY14: 11/14/14-11/01/16, Amgen. $204,938.00.
Department of Orthopedics
Foot and Ankle Section

- PI: Clements, J. A phase 2, multicenter, randomized, double-blind, placebo-controlled, dose range finding study to evaluate the efficacy and safety of intramuscular injection of human placenta-derived cells (PDA-002) in subjects who have diabetic foot ulcer (DFU) with peripheral arterial disease (PAD). Awarded: 02/23/15-02/01/17, Celgene. $169,542.00.

- PI: Clements, J. A prospective, randomized, comparative effectiveness study of a single-use, negative Pressure Wound Therapy System (PICO) vs. a Traditional Negative Pressure Wound Therapy System (TNPWT) in the Treatment of Lower Extremity Ulcers.

- PI: Clements, J.R. Clinical outcomes for Diabetic foot ulcers treated with Clostridial Collagenase (Santyl) Ointment or with a comparator product containing silver. Smith and Nephew. $200,000.00.

Department of Pediatrics
Pediatric Gastroenterology Section

- PI: Hart, M. A phase 3, multicenter, randomized, double-blind study to determine the safety and efficacy of MMX Mesalamine/Mesalazine in pediatric subjects with mild to moderate ulcerative colitis, in both acute and maintenance phases. Awarded: 01/06/15-01/06/16, Shire. $71,321.00.


Department of Psychiatry and Behavioral Medicine
Clinical Section

- PI: Kablinger, A. A double-blind placebo controlled study of CM-AT for the treatment of Autism in children with all levels of fecal chymotrypsin. Awarded: 02/10/15-02/01/16, Curemark. $21,274.00.

- PI: Kablinger, A. A phase 3, multicentre, four week, randomized, double blind, placebo controlled, parallel group efficacy and safety trial of flexible doses of oral Ziprasidone in children and adolescents with bipolar I disorder (current or most recent episode manic). Awarded: 01/01/15-01/01/16, Pfizer. $35,681.00.

- PI: Kablinger, A. A multicenter randomized, double-blind, placebo-controlled, relapse-prevention study with Levomilnacipran ER in patients with major depressive disorder. Awarded: 10/30/14-10/30/16, Forest. $276,800.00.

- PI: Kablinger, A. A 6-month, open-label, multicenter, flexible-dose extension study to the B2062032 study to evaluate the safety, tolerability and efficacy of desvenlafaxine succinate sustained-release (DVS SR) tablets in the treatment of children and adolescent outpatients with major depressive disorder. Awarded: 10/30/14-10/30/16, Pfizer. $45,160.00.

- PI: Kablinger, A. A post marketing observational study to evaluate the safety of ADASUVE® (STACCATO® loxapine for inhalation) in patients with agitation associated with Schizophrenia or Bipolar I Disorder. Awarded: 10/14/14-10/14/15, Teva Branded Pharmaceutical Products R&D, Inc. $21,767.60.

Extramural Grant Awards

Department of Emergency Medicine
Virginia Tech Carilion Research Institute
• PI: Gourdie, R., Novel Wound Healing Drug. 04/01/14-03/31/2016, VBHRC, $200,000.
• PI: Laconte, S. NCAA-DOD Concussion advanced research core. 10/1/14-4/30/17, DOD. $13,194.

**Department of Family and Community Medicine**


**Department of Medicine**

**Gastroenterology Section**

• PI: Sorrentino, D. Diagnostic delay in Inflammatory Bowel Diseases and its impact on disease course. 9/1/15-12/13/15, AbbVie. $51,604.
• PI: Sorrentino D. Evaluation of fecal biomarkers in Inflammatory Bowel Disease patients for differentiating disease flare from C. Difficile Infection and stool biomarkers during pregnancy in IBD patients and controls. Tech Lab. $171,000.

**Infectious Disease Section**

• PI: Kerkering, T. SPNS Project. 9/1/15-3/31/16, VDH (HRSA). $72,750.
• PI: Kerkering, T. SPNS Project. 9/1/14-8/13/15, VDH (HRSA). $137,000.
• PI: Rao, J. Genome sequencing and molecular tracking. 7/1/16-6/30/18, CHRB. $199,874 ($65,959 cost share).
• PI: Rao, J. Mutational analysis of RsmA binding sites and regulatory targets in pseudomonas aeruginosa. 1/1/12-12/31/15, Thomas F Jeffress and Kate Miller Jeffress Memorial Trust. $10,000 additional funds.
• PI: Smith, J. FY14 Capacity Development Grant. 9/1/14-8/31/15, HRSA. $99,925.

**Neurology Section:**

• PI: Burakazi, A. Sponsored clinical svcs. 3/1/15-12/31/15, MDA. $5000 additional funds.

**Rheumatology Section:**

• PI: Bankole, A. Neuroimaging in chronic pain syndromes (NIP). 7/1/15-6/30/17, NIH. $275,000.
PI: Poelzing, S., Role of Cell-to-Cell Coupling in Atrial Fibrillation Management: A Pilot Study. Role of Cell-to-Cell Coupling in Atrial Fibrillation. 06/01/2014 – 05/31/2015, $30,000.

**Department of Pediatrics**

**Virginia Tech Carilion Research Institute**


**Department of Psychiatry and Behavioral Health**

**Clinical Division**

• PI: Bankole, A. SCH: INT: Collaborative research: BESI: Behavioral and Environmental Sensing and Intervention for Dementia Caregiver Empowerment. 9/1/14-8/31/18, NSF. $1,002,509.


• PI: Seidel, R. The reach and effectiveness of technology-enhanced diabetes prevention programs. 5/1/12-4/30/17, VT (NIH). $70,000.

Virginia Tech and Virginia Tech Carilion Research Institute


• PI: Bickel, W. The social interactome of recovery: Social media as therapy development. Awarded FY14: 9/14-8/17, NIH, NIDA. $1,674,440.


• PI: Koffarnus, MN. Co-PI: Bickel, WK. Remote alcohol monitoring to facilitate abstinence reinforcement: August, 2014-July, 2016, NIAAA.

• PI: Lach, J., Co-Pls: Smith-Jackson, T., Bankole, A., Anderson, M. Body sensor networks in the detection of agitation in patients with dementia. Awarded: 9/1/14-8/30/18, National Science Foundation and National Institutes of Health. $2.1 million. Approved by IRB.


Department of Surgery

Critical Care Surgery Section:


Dental Surgery Section:

• PI: Brajdic, D. Postdoctoral training in general pediatric and public health dentistry. 7/1/15-6/30/20, HRSA. $2,147,563.

Department of Academic Affairs

• PI: Dallas, P. Assessment of a Continuing Medical Education intervention designed to change physician practice regarding blood transfusion. 7/1/15-6/30/17, VA Blood Foundation. $122,362.


Department of Nursing

• PI: Bond, D. HAPPI-2 (Hospital Acquired Pneumonia Prevention Initiative-2); Phase 1. 2015, Sutter Institute for Medical Research. $17,000.

• PI: Carter, K. A quality improvement study to improve pneumococcal vaccination rates in ambulatory settings. 7/1/14-6/30-15, Merck. $174,910.

approach. October, 2014, Radford University Waldron College Research Award. $9,351.50.


Department of Research and Development
- PI: Knight, K. Development of a bio-kit platform for breast cancer detection. 7/1/16-6/30/18, (10%), VBI (CHRB). $74,286.

Jefferson College of Health Sciences
- PI: Kennedy, W. Overcoming vaccine hesitancy through motivational interviewing. 6/1/15-5/31/16, Physician Assistant Foundation. $5,000.
- PI: Kennedy, W.C. PA Student Community Medicine Rotation. 7/7/08-Present, Virginia Academy of Physician Assistants. $2,500.
- PI: Porter, A. Nurse education, practice, quality and retention Veterans’ Bachelor of Science in Nursing Program. 7/1/15-6/30/16, HRSA. $347,145.

Carilion Franklin Memorial Hospital

Carilion Giles Memorial Hospital
- PI: Westmoreland, A. Rx Relief Virginia. 10/1/14-9/30/15, Virginia Health Care Foundation. $33,618.
• PI: Williams, K. *FLEX Grant - Carilion Giles Hospital*. 7/1/15-12/31/15, VDH Office of Minority Health. $500.

**Carilion New River Valley Medical Center**

**Carilion Stonewall Jackson Hospital**

**Carilion Tazewell Community Hospital**

**HeartNet**

**Every Woman’s Life**

**Extramural Grants Pending or Not Awarded**

**Department of Emergency Medicine**
Virginia Tech Carilion Research Institute
- PI: Laconte, S. *Career: Directly testing the functional roles of intrinsic connectivity brain networks to develop a platform for neurorehabilitation*. 1/1/15-12/31/19, NSF. $550,341.

**Department of Family & Community Medicine**

Department of Medicine
Gastroenterology Section
• PI: Sorrentino, D. The biologic onset of Crohn's Disease: A screening study in first degree relatives. 1/1/16-12/31/17, Broad Foundation. $298,679 ($62.5k cost share).
• PI: Sorrentino, D. Modulation of non-canonical NF-kB signaling in Inflammatory Bowel Disease patients. 1/1/16-12/31/17, VT Vet School (Crohn’s & Colitis Foundation of America). $134,682.
• PI: Sorrentino, D. Diagnostic delay in Inflammatory Bowel Diseases and its impact on disease course. 9/1/15-12/31/15, AbbVie. $51,604.
• Co-PI: Sorrentino, D. Evaluating novel inflammatory signaling pathways from patients with Inflammatory Bowel Disease. NIH R21. $427,000.

Geriatric Medicine Section
• PI: Boshra, S. Effect of music listening on pain outcomes and vital signs of chronically and terminally ill patients. 4/1/15-3/30/16, Grammy Foundation. $11,817.
• PI: Knight, A. Geriatric workforce enhancement grant. 7/1/15-6/30/18, (HRSA). $84,917.

Infectious Disease Section
• PI: Kerkering, T. SPNS Project. 9/1/15-3/31/16, VDH (HRSA). $72,750.
• PI: Rao, J. Genome sequencing and molecular tracking. 7/1/16-6/30/18, CHRB. $199,874. ($65,959 cost share).

Rheumatology Section:
• PI: Bankole, A. Neuroimaging in chronic pain syndromes (NIP). 7/1/15-6/30/17, NIH. $275,000.

Virginia Tech Carilion Research Institute
• Co PIs: Kelly, D., Sheng, Z. Molecular basis for BRCA1 in genome surveillance and repair. $551,796 (Pending)
• PI: Kelly, D., Structural basis for BRCA1 repair assemblies in hereditary breast cancer. $792,000 (Pending)
• Co PIs: Kelly, D., Sheng, Z., Tunable Microchip Sorting of BRCA1 Nuclear. $1,900,000 (Pending)
• PIs: Kelly, D., McDonald, S., Ming, In Situ Molecular Microscopy – Visualizing Macromolecules in Realtime at the Nanoscale. $120,000 (Pending)
• PI: McDonald, S. Amino Acid Determinants of Rotavirus Replicative Fitness. Not funded 250,000 direct/$152,500 indirect (Not funded)
• PI: McDonald, S. Allosteric Regulation of a Viral RNA-dependent RNA Polymerase. 250,000 direct/$152,500 indirect (Pending)
• PI: Oestreich, K.J., CoPI: Allen, I.C. *Intrinsic and extrinsic determinants of CD4+ TCM cell fate.* 7/1/15-6/30/20, Not funded. $250,000.

• PI: Oestreich, K.J. *Identifying extrinsic and intrinsic determinants of memory T cell formation.* 7/1/15-6/30/17, Commonwealth Health Research Board. $100,000

• PI: Oestreich, K.J. *Intrinsic and extrinsic determinants of CD4+ central memory T cell fate.* 9/1/15-8/31/20, Rita Allen Foundation. $100,000.


• PI: Poelzing, S. *Electrical coupling as a modulator of Calcium Mediated Arrhythmias.* 6/1/15-5/31/20, National Institutes of Health. $1,250,000.

• PI: Poelzing, S. *The Na+ Channel Beta1 subunit may be central to a novel paradigm for Cardiac Conduction.* 6/1/15-5/31/17, American Heart Association. $150,000.

• PI: Poelzing, S. *A novel molecular mechanism for Cardiac Conduction.* 1/1/15-12/31/17, American Heart Association. $225,000.

• PI: Sheng, Z. *Autophagy regulation and its therapeutic implications in Chronic Myeloid Leukemia Stem Cells.* 10/01/2014-09/30/2015, Postdoctoral Associate on Grant: Susan Murphy and Sujuan Guo.

• PI: Sheng, Z. *Converting ACT1, a CX43-targeting drug approved by the FDA, into a glioblastoma treatment.* 02/01/2015 – 01/31/2016, Pardee Foundation. Postdoctoral Associate on Grant: Susan Murphy.

• PI: Sheng, Z. *Delivery of a carboxy-terminal Connexin43 for treatment of Glioblastoma.* 4/1/15-3/31/16, NIH SBIR. Postdoctoral Associate on Grant: Susan Murphy and Samy Lamouille

• PI: Sheng, Z. *Developing a novel combinational therapy for Glioblastoma.* 10/1/14-9/30/18, The Sontag Foundation. Postdoctoral Associate on Grant: Susan Murphy and Samy Lamouille

• PI: Sheng, Z. *Developing a tumor-targeting contrast agent for Selective Magnetic Resonance Imaging of Prostate Cancer.* 01/01/2015-12/31/2015, Postdoctoral Associate on Grant: Susan Murphy and Sujuan Guo. Technicians on Grant: Yanping Liang.

• PI: Sheng, Z. *Overcoming temozolomide resistance in medulloblastoma through targeting connexins.* 03/15/2015-03/14/2018, Postdoctoral Associate on Grant: Susan Murphy and Samy Lamouille

• PI: Sheng, Z. *Sensitizing Glioblastoma to Temozolomide through Targeting Connexin 43.* 09/01/2014-08/31/2015. Postdoctoral Associate on Grant: Susan Murphy.

• PI: Sheng, Z. *Tumor-targeting nanoparticles as a novel diagnostic tool for glioblastoma.* 01/01/2015-12/31/2018, ACS. Postdoctoral Associate on Grant: Susan Murphy and Sujuan Guo

• PI: Sheng, Z., CoPI: Gourdie, R. *Developing a novel combinational therapy for metastatic melanoma.* 05/01/2015-04/30/2018, Postdoctoral Associate on Grant: Susan Murphy and Samy Lamouille.


• PI: Sheng, Z., CoPI: Dorn, H. *Selective magnetic resonance imaging for glioblastoma using interleukin 13 peptide-conjugated nanoparticles.* 04/01/2015-
03/31/2020, Postdoctoral Associate on Grant: Susan Murphy and Sujuan Guo. Technicians on Grant: Yanping Liang.

- Co PIs: Valdez, G., Liu, J., *The role of oscillatory plasticity in refractory focal epilepsies.* CURE Epilepsy. $250,000 (Pending)
- PI: Valdez, G., *Synaptic FGFs are required and sufficient to maintain and repair aged NMJs.* NIH/NIA. $2,030,575 (Pending)
- Co PIs: Valdez, G., martyn, J., *Burn-induced Neuromuscular Dysfunction in Old Age* $709,245 (Pending)
- PIs: Winkel; Helm; Smyth, J. Kelly, D. *Decoding plant cell metabolism using in situ technologies.* $2,374,668 (Pending)

**Department of Obstetrics and Gynecology**
**Maternal Fetal Medicine Section**

**Department of Pediatrics**
**Pediatric Pulmonary and Allergy Section**
- PI: Muelenaer, A. *Assisted infant resuscitation.* GlobalAIR LOI. $N/A LOI.

**Virginia Tech Carilion Research Institute**
- Moran, I., Co-Pls: Gilbert, J., Bankole, A., Kim, K. *The role of prefrontal GABA in supporting healthy cognitive spectra into later life and early Alzheimer’s Disease.* Not funded but scored and for resubmission 2015.
- Co-Pls: Mukherjee, K., Fox, M., *Investigating the mechanisms of optic nerve hypoplasia associated with CASK mutation,* NIH/NEI; NIH RO1 (pending)
- Co-Pl: Fox, M., Mukherjee, K., *Common mechanisms underlying Autism-spectrum disorder and Optic Nerve Hypoplasia,* Simons Foundation (SFARI) Pilot Research Grant; 2 year grant for $250,000 total ($106,399 direct cost per year). (pending)
- PI: Fox M., *Matricryptin-releasing collagens contribute to inhibitory synapse formation and complex brain disease.* NARSAD Investigator award, Agency: Brain and Behavior Research Foundation. 2 year grant for $100,000 ($46,296 in direct costs per year) (pending)
- PI: Fox M., *Convergence at retinogeniculate synapse* NIH/NEI; NIH R21; 2 year grant for $275,000 in direct costs (pending)
- Co-Pl: Xie, H., Fox M., *The epigenetic role of EGR1 during postnatal brain development.* NIH; RO1 NIH R21; 2 year grant for $275,000 in direct costs (pending)

• CoPIs: Mukherjee, K., Fox, M. Role of autism genes in optic tract formation. SFARI

• CoPIs: Ramey, S., Ramey, C., Montague, P.R. Clinical trial design, neuroplasticity, and pediatric medical rehabilitation. 9/1/15-8/31/20, NICHD/NINDS/ NIBIB/NIH. Direct costs: $818,953/Indirect costs: $409,148.

Department of Psychiatry and Behavioral Medicine
Clinical Division


• PI: Bankole, A. Neuroimaging in chronic pain syndromes (NIP). 7/1/15-6/30/17, NIH. $275,000.


• PI: Kablinger, A. Smartphone-delivered abstinence incentives and cognitive behavioral therapy to treat alcohol dependence remotely. 4/1/16-3/31/21, VTCRI (NIH). $89,953.

• PI: Rea, W. Screening, Brief Intervention and Referral to Treatment (SBIRT) training for students in health professions in rural Southwest Virginia. 10/1/15-9/30/18, VT (SAMSHA). $223,848.

• PI: Stack, R. Resources for children and adolescents. 10/1/15-9/30/16, Kiwanis Club of Roanoke. $3000.

Virginia Tech Carilion Research Institute

• PI: Chiu, P.H. A decision neuroscience approach to understanding social influence in addiction. NIH/NIDA. R01.

• PI: Chiu, P.H. Neural substrates of reinforcement learning and its training in major depression. NIH/NIMH, R01.

• PI: Chiu, P.H. Toward new prognostic biomarkers through affect and valuation. NIH/NIDA, R01.

• PI: Chiu, P.H. Training neural reinforcement learning signals in depression. NIH/NIMH, R21/R33.

• PI: Guay-Woodford, L., CoPI: Friedlander, M. Clinical and Translational Science Institute @ Children’s National (CTSI@CN). 7/1/15-6/30/20, (50%). NIH (subcontract awarded through Children’s National Health System). Direct costs: $427,112/Indirect costs: $260,538.

• PI Moran, R., Co-Is: Tittgemeyer, M., Planck, M. (Institute for Neurological Research Cologne), Kloppenburg, P. (University of Cologne). Bridging scales, from a single neuron activation to large circuits. 7/1/15-8/31/20, NSF. $570,000.00 (US component).

• PI Moran, R., Co-Is: Tittgemeyer, M., Planck, M. (Institute for Neurological Research Cologne), Kloppenburg, P. (University of Cologne). Bridging scales, from a single neuron activation to large circuits. 7/1/15-8/31/20, NSF. $570,000.00 (US component).


• PI: Moran, I., Co-PIs: Gilbert, J., Bankole, A., Kim, K. The role of prefrontal GABA in supporting healthy cognitive spectra into later life and early Alzheimer’s Disease. Not funded but scored and for resubmission 2015.

• PI: Moran, R. The interaction of Striatal Dopamine and neuronal movement-related oscillations in Parkinson’s Disease patients. 9/1/15-8/31/20, NIH- R01 Resubmission. $3,598,322.

• PI: Morozov, A. *Amygdala - dmPFC circuit and behavior following vicarious pain.* 9/1/15-8/31/20, NIH. $3,938,553.
• PI: Morozov, A. *Silent synapses and plasticity of prefrontal-amygdala pathway after emotional distress.* 7/1/15-6/30/17, NIH. $442,750.
• PI: Morozov, A. *Plasticity of the prefrontal-amygdala circuit upon observational fear.* 9/1/15-8/31/18, Whitehall. $225,000.
• CoPs: Mukherjee, K., Fox, M. *Role of autism genes in optic tract formation.* SFARI.

**Department of Surgery**
• PI: Collier, B. *The use of ROTEM in managing transfusion in critically ill or injured patients.* 10/1/15-9/30/16, VA Blood Foundation. $96,500.

**Department of Academic Affairs**

**Department of Nursing**
• PI: Baudreau, K. *Comparing the effectiveness of an interactive patient care technology solution and written patient education materials for self-care management of heart failure.* 3 years, O'Neil Foundation LOI (PCORI). $N/A LOI.
• PI: Carter, K. *Fusing research and modeling for extraordinary solutions to healthcare challenges.* AHRQ LOI. $N/A LOI.
• PI: Whitehead, P. *Scholarly project award criteria.* 1/1/15-6/30/15, Waldron Foundation. $2100.

**Department of Research and Development**
• PI: Knight, K. *Development of a bio-kit platform for breast cancer detection.* 7/1/16-6/30/18, VBI (CHRB). $74,286.

**Jefferson College of Health Sciences**
• PI: Cook, J. *Tracking student performance in high-fidelity simulation scenarios,* 7/1/15-6/30/16, VDH. $17,825.
• PI: Kennedy, W. *Global Outreach.* 10/1/15-9/30/16, Physician Assistant Foundation. $8,952.
• PI: Whitten, L.L. *Screening, Brief Intervention and Referral to Treatment (SBIRT) training for students in health professions in rural Southwest Virginia.* 10/1/15-9/30/18, VT (SAMHSA). $29,424.
Carilion Franklin Memorial Hospital
- PI: Jacobson, W. Special Assistance Project. 1/1/16-12/31/18, Virginia Health Care Foundation. $104,784.

Carilion New River Valley Medical Center

Department of Emergency Preparedness
- PI: Glick, R. Preparing for large-scale pediatric emergencies. 8/16/15-8/15/17, VT (NIH). $103,797.

Carilion Hospice

Carilion Professional Billing – Eligibility Services
- PI: Carter, L. Project Connect. 1/1/15-6/30/16, Virginia Health Care Foundation. $90,000.

Non-Sponsored Agreements

Department of Emergency Medicine
- PI: Heitz, C., Bowers, K. (Independent Contractor). Ketamine as an adjunct to Opiates for acute pain in the Emergency Department. 8/12/15, ICA.
- PI: Perkins, J. (VT: LISA Dept). Evaluation of the sepsis alert program and its effect on mortality, length of stay and time to antibiotic dose. 5/20/15, RCA.
- PI: Perkins, J., Thompson, N. (VTCSOM). Screening for sepsis - implementation of a sepsis outreach program at a local SNF. 4/21/15, RCA & BAA.
- PI: Perkins, J. (Nova Biomedical). Into the Lion’s Den – Fighting sepsis where it lives through implementation of a sepsis outreach pilot project at a local skilled nursing facility. 3/16/15, Equipment Loan Agreement.
- PI: Stanley, E., Coughlin, R. (Yale University). Blood Pressure Control During Inter-facility Transfer of Patients with Spontaneous Intracranial Hemorrhage. 5/1/15, DUA.

Department of Family and Community Medicine
- PI: Morgan, S., Kim, E. (VTCSOM). Incident heart failure prediction in adults within 1 year. 5/7/15. RCA & BAA.
- PI: Thompson, J., Young, P. (United Way of Roanoke Valley/Healthy Roanoke Valley). Fresh Foods Rx. 7/13/15, DTA.
Department of Medicine
Cardiology Section
• PI: Almahameed, S., Poelzing, S. & Garner, H. (VT). Genetic markers for responders to Dofetilide therapy in persistent atrial fibrillation. 8/31/15, RCA.
• PI: Ball, T., Dasgupta, R. (VTCSOM). Risk benefit ratio of thromboembolism prophylaxis in patients admitted to cardiology services. 4/29/15, RCA & BAA Mod # 1.
• PI: Ball, T., Savelli, A. (VTCSOM). Guideliner Study. 4/24/15, RCA & BAA.
• PI: Ball, T., Savelli, A. & Sood, N. (VTCSOM). Risk benefit ratio of thromboembolism prophylaxis in patients admitted to cardiology services. 4/24/15. RCA & BAA.
• PI: Ball, T., Sood, N. (VTCSOM). The safety and efficacy of renal artery revascularization in patients with critical, hemodynamically significant renal artery stenosis. 4/21/15, RCA & BAA.
• PI: Sane, D., Hootman, J. (VTCSOM). The addition of Vasopressin to patients with cardiogenic shock. 9/9/15. Mod # 1 to RCA.
• PI: Sane, D., Onyedika, I. (VTCSOM). Retrospective review of the causes, significance and echocardiographic correlation of elevated Troponins in a pediatric population: Lessons from a tertiary health center. 2/23/15. RCA & BAA.
Dermatology Section
• PI: Chavan, R. (HistoServ, Inc.). The immune microenvironment of Basal Cell Carcinoma. 1/16/15, Service Agreement.
Gastroenterology Section
• PI: Rubio, M., Sorrentino, D., Grider, D. (Independent Contractor). Fecal Lactoferrin to quantify mucosal inflammation in Inflammatory Bowel Disease. 8/28/15, BAA.
• PI: Sorrentino, D., Allen, I. (VA-MD College of Veterinary Medicine). Evaluating novel inflammatory signaling pathways from patients with Inflammatory Bowel Disease (IBD). 6/1/15, MOU.
• PI: Sorrentino, D., Vaughn, J. (VTCSOM). Immediate cancer recurrence in patient on biologic treatment. 4/24/15, RCA & BAA.
• PI: Sorrentino, D., Nazemi, A. (VTCSOM). Diagnostic delay in inflammatory bowel disease and its impact on disease course. 3/3/15, RCA & BAA.
General Medicine Section
• PI: Dallas, A., Arulraja, E. (VTCSOM). Assessment of a Continuing Medical Education intervention designed to change physician practice. 7/13/15, RCA.
Geriatric Medicine
• PI: Boshra, S., Barr, A., Boshra, S. (FHRC). Routine LTC admission uranalysis and impact on quality of care. 9/22/15, RCA.
• PI: Boshra, S., Cundiff, B. (Friendship Health & Rehabilitation Center). Role of probiotics in preventing antibiotic associated diarrhea. 7/28/15, RCA.
Hospice and Palliative Care Medicine Section
• PI: Knight, K., Moran, R. (VTCRI). Examining the neural correlates of memory in response to intranasal insulin through fMRI & Device testing. 9/23/15, Service Agreement.
Infectious Disease Section
• PI: Rao, J., Han, R. (College of Veterinary Medicine, Inner Mongolia Agricultural University). The role of RahU Protein in host innate immunity. 12/7/14, MTA.
Neurology Section
• PI: Burakgazi, A., Young, P. (Johns Hopkins). The effect of electrical stimulation on intraepidermal nerve fiber growth in patients with small fiber peripheral neuropathy. 7/15/15, Service Agreement.
Pulmonary Medicine Section
- PI: Ie, S., Trigonis, R. (VTCSOM). Utilization of the Cheetah Startling SV System in reducing time of initial resuscitation in Sepsis alert patients. 9/22/15, RCA & BAA.

Rheumatology Section

Department of Obstetrics and Gynecology
Gynecologic Oncology Section

Reproductive Endocrinology and Infertility Section
- PI: Evans-Hoeker, E., Harden, S. (VT). Patient and provider perceptions of the effect of excess pre-conception weight and gestational weight gain, and their willingness to work towards weight optimization. 12/3/14, RCA.

Urogynecology Section
- PI: Gleason, J. Feasibility of prophylactic salpingectomy during vaginal hysterectomy. 1/5/15, RCA.

Department of Orthopedics
Adult Reconstruction Section
- PI: Mann, J., Schumer, G. (VTCSOM). Exparel. 7/28/15, RCA & BAA.
- PI: Mann, J., Stover, M. (ICA). Exparel. 7/24/15, ICA.
- PI: Miller, T., Spivey, M. (VTCSOM). Patterns of peripheral nerve deficits in rotator cuff pathology & treatment. 7/14/15, RCA & BAA.

Foot and Ankle Section
- PI: Clements, J.R. (Coordinated Health). Tibio-talo-calcaneal arthrodesis via intramedullary nail: A comparison with historical controls to evaluate the importance of subtalar joint cartilage resection. 4/29/15, DUA.
- PI: Clements, J.R., Jupiter D. (Independent Contractor). Comparison of prognostic ability of POSSUM, P-POSSUM, and SRS in foot and ankle surgery. 3/19/15, ICA.

Hand and Upper Extremity Surgery Section
- PI: Mierisch, C., Dowlati, E. (VTCSOM). Narcotic use after minor hand surgery. 6/29/15, RCA & BAA.

Spine and Pediatric Surgery Section
• PI: Behrend, C., Nazemi, A. (VTCSOM). Unilateral vs. bilateral S1-S2 Spinopelvic Fixation. 8/31/15, RCA.
• PI: Behrend, C., Hollnagel, K. (VTCSOM). The effect of graft position and type on cervical spine neuroforaminal dimensions. 7/23/15, RCA & BAA.

Trauma and Fracture Section
• PI: Owen, T., Rich, M. & Tate, A. (VTCSOM). The use of Tranexamic Acid to reduce the need for transfusion 1 week post-operatively for Hemiarthroplasty or Intramedullary Nailing needing to correct acute hip fractures. 1/26/15, RCA & BAA.

Department of Pediatrics
• PI: Patel, H., Robinson, R. (VT School of Visual Arts). Utilization of service design for improving communication amongst all care providers in NICU. 10/13/14, RCA.

Pediatric Hospitalists Section
• PI: Burbridge, M., Donlon, K. (VT). Medical adherence following pediatric injury. 1/16/15, RCA.

Pediatric Cardiology Section

Pediatric Pulmonary Medicine and Allergy Section
• PI: Muelenaer, A., Cragun, B. (VTCSOM). Using wireless accelerometers to quantify general movements. 8/24/15, RCA & BAA.
• PI: Muelenaer, A., Pyon, O. (ICA). Using wireless accelerometers to quantify general movements. 7/31/15, ICA & BAA.

Department of Psychiatry and Behavioral Medicine

Clinical Division
• PI: Criss, T., Fogel, S. (VTCSOM). Preceptor perception of medical students’ comfort with ultrasonography. 10/7/14, RCA.
• PI: Hartman, D., West, J. (VT). Long-term outcomes of Project Back on Track. 2/19/15, RCA.
• PI: Milam, T., Olsen, J. (VTCSOM). Assessing Bipolar management in Primary Care Practices. 1/20/15, RCA & BAA.
• PI: Rea, W., O’Dell, M. (VDH). Opioid dependence during pregnancy: Maternal, prenatal, and neonatal outcomes. 5/27/15, RCA.
• PI: Rea, W., Gaddis, A. (VTCSOM). Opioid dependence during pregnancy: Maternal, prenatal, and neonatal outcomes. 5/27/15, RCA & BAA.
• PI: Seidel, L., Milam, T. & Ha, R. (VTCSOM). Determining the effect of a four-week mindfulness practice course for healthcare professionals on mindful awareness, life quality, and burnout. 8/13/15, RCA.
• PI: Vance, J., Kumar, S. (VTCSOM). Psychosocial protective factors and healthcare utilization in adolescents with and without depression. 6/1/15, RCA & BAA.

**Department of Radiology**

**Department of Surgery**
- PI: Bradburn, E., Fligor, S. (VTCSOM). *Shock index trends following major trauma & outcomes.* 1/20/15, RCA & BAA.
- PI: Hamill, M., Reed, C. (VTCSOM). *Contact precautions: A possible independent risk factor for complications in trauma patients.* 10/28/14, RCA & BAA.
- PI: Hamill, M., Franck, C. (VT LISA). *24 Years of trauma at Roanoke Memorial Hospital: A descriptive study.* 10/13/14, MOU.

**ENT Section**

**General and Breast Surgery Section**

**Neurological Surgery Section**

**Pediatric Surgery Section**
• PI: Wattsman, T., Vahidi, N. & Gowd, A. (VTCSOM). Does increasing hospital operating room volume contribute to untoward patient events in the OR? 5/15/15, RCA & BAA.

Plastic Surgery Section

Trauma Surgery Section
• PI: Hamill, M., Reed, C. (VTCSOM). 24 years of trauma at Roanoke Memorial Hospital: A descriptive study. 10/7/14, RCA Mod 1 - add BAA.

Department of Academic Affairs
• PI: Musick, D. (VTCSOM), Pline, E. Use of the Multiple Mini Interview (MMI) to predict team success in medical school. 10/22/14, RCA.

Department of Nursing
• PI: Jessie, A., Haas, S. (Loyola University). Application of the Project BOOST® 8Ps tool for risk identification/stratification in multidisciplinary care planning. 5/1/15, DUA.
• PI: Sturgill, B., Bandy, R. (Liberty University). How hospital employees contribute to virulence of and exposure to Epstein-Barr Virus. 12/11/14, DUA.
• PI: Wimer, M., Cugno, R. (Nova Southeastern University). Violence in the Emergency Room. 7/14/15, MOU.

Department of Pharmacy
• PI: Bentley, M., Hootman, J. (VTCSOM). The addition of Vasopressin to patients with cardiogenic shock. 7/13/15, RCA & BAA.