

2019



THE
HUGHSTON
FOUNDATION

ANNUAL REPORT


• Research • Education • Training •

COLUMBUS, GEORGIA

Table of Contents

Center of Excellence.....	3
Mission.....	3
Community Service.....	4
Giving Back.....	4 - 7
Sponsored Events.....	8
Research, Education, and Training.....	9 - 14
Resources.....	15
Recognitions.....	16 - 20
Presentations.....	21 - 27
Scientific Publications.....	27 - 28
Endowment and Funds.....	29
Supporters.....	30
Sponsors.....	31

All items in **red** are clickable links!

This icon  at the bottom of each page will bring you back to the Table of Contents.

Center of Excellence



Dr. Hughston used the Foundation as a vehicle for developing a new subspecialty, sports medicine. It enabled him to educate, train, and mentor physicians in his philosophy. These disciples, who are now members of the Hughston Society, have gone on to work at academic centers and private practices throughout the world, imparting the knowledge and modeling the skills they acquired while at the Hughston Sports Medicine Foundation. In 2005, in order to reflect the broader spectrum of orthopaedic projects beyond sports medicine in which the Foundation was involved, it was renamed the Hughston Foundation. Now, more than a decade after his death, Dr. Hughston's organization remains the leader in orthopaedic and sports medicine healthcare, and, by drawing patients from all over the country, continues to make a substantial economic impact on the city of Columbus. The seeds Dr. Hughston planted in the areas of not only treatment, but also training, education, and research are still growing, and we at Hughston remain as green as ever.

Mission

Training, **education**, and **research** define the Hughston Foundation's **mission** and symbolize the late Dr. Jack C. Hughston's vision for his pioneering work in orthopaedics and sports medicine. These 3 words also describe how the Hughston Foundation contributes to better patient care worldwide. Since its inception in 1968, the Foundation has improved the lives of more than a million patients; in doing so, it has strengthened communities locally and around the world. Our **history** celebrates not only the vision and dedication of Dr. Hughston, but also the many achievements of the Hughston Foundation. We want to highlight how these accomplishments benefit you, beginning with our direct impact on the community.





Community Service

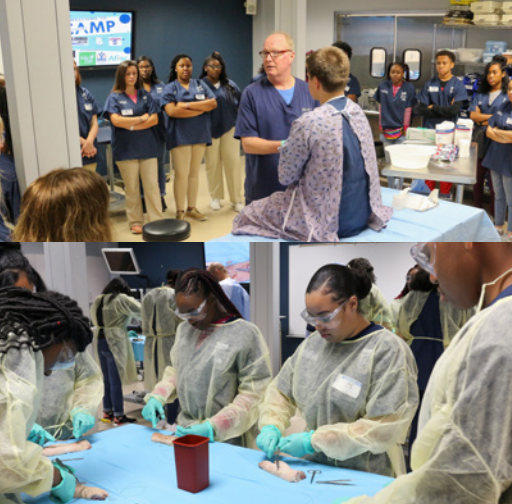
Community service is at the core of what we do at the Hughston Foundation. The services we provide are the product of training, education, and research, and are inseparable from our mission of improving lives and strengthening communities. At Hughston, we are always looking for ways to give back to our supporters and strive to improve community outreach. Our commitment to athletes in the Chattahoochee Valley is as strong as ever. It's been 70 years since Dr. Hughston began standing on the sidelines during Friday night football games. We are proud of our sports medicine team, which continues his legacy of providing **sideline medical coverage**, **wrestling assessments**, **Saturday morning injury clinics**, and **annual preparticipation screenings**. The Foundation is also proud to support athletic events, college signing days, and training symposiums for athletic trainers.

Giving Back

THE HUGHSTON FOUNDATION HELPS GROW THE STEAM INITIATIVE IN OUR COMMUNITIES

The Hughston Foundation **Scrubs Camp** and **Art Gala** are perfect examples of the STEAM Initiative that is spreading across the country. The initiative encourages STEAM (science, technology, engineering, arts, and math) programs to help prepare students for advanced technological careers.





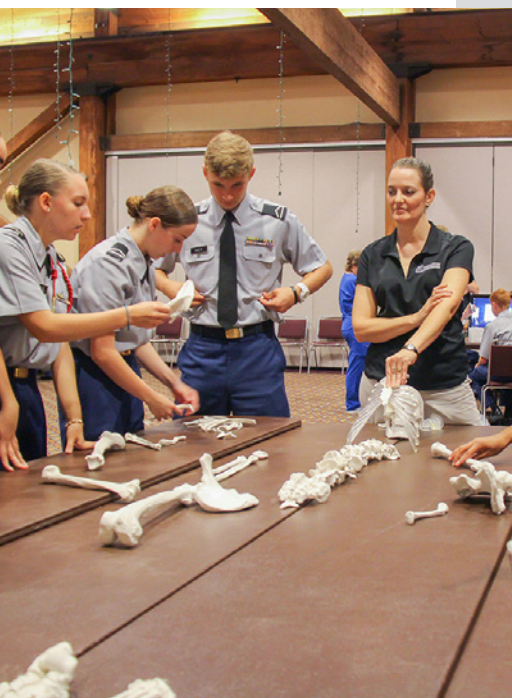
The Hughston Foundation's **Scrubs Camp** continues to grow in popularity. Three Rivers AHEC, Columbus Technical College, and Columbus State University collaborated with the Foundation to host 2 camps during the summer for students who have an interest in the medical field, especially orthopaedics, surgery, nursing, and rehabilitation. In addition to tours of each facility and lectures, the students were able to experience many hands-on activities.

For the 2019 Scrubs Camp recap and photos [click here](#).



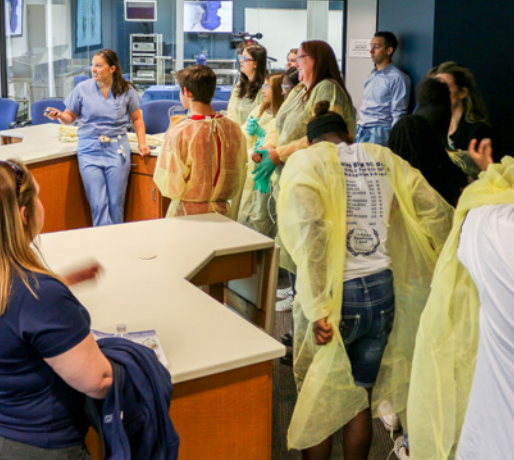
The Annual Hughston Foundation **Art Gala Exhibit for the Biologically Inclined** has become an inspiration to many statewide. The Hughston Foundation collaborated with Harris County High School Work Based Learning program to offer the competition. High school and middle school students throughout Georgia submitted biologically or medically inspired entries under drawing, painting, photography, 3D, or mixed media categories. The show hung for 2 weeks allowing hundreds of parents, students, Hughston employees, and visitors to view the show.

[Click here](#) to view the 2019 Art Gala winners and photos.



The Hughston Foundation also participated in the 4th Annual **Let's Grow STEAM Youth College and Careers Expo** held at the Columbus Convention and Trade Center. Employees at the Foundation booth had activities for the students to try and provided information to middle and high school students about our educational Scrubs Camp and Art Gala programs. Additionally, the Foundation provided a special STEAM workshop for a select group of 150 students. Students were divided into groups and circulated to 4 stations. One station included using drink cans and suture supplies to help students with hands-on practice in knot tying. Another station let students try arthroscopic surgery using an Arthrobox®. The staff also played a bone assembly game and at the last station, students assembled ligaments on a cardboard hand to move the fingers. Throughout the day, over 3,000 students from the greater Columbus area attended the Expo.





HUNDREDS OF HIGH SCHOOL STUDENTS VISIT THE HUGHSTON FOUNDATION ANNUALLY

High school students from across the state of Georgia visit the Hughston Foundation annually. These students are often part of healthcare science classes and have an interest in emergency medical response, surgical technology, nursing, physical therapy, and a variety of other healthcare careers.

Many of our programs start with a short welcome, which includes a video about the Foundation and its mission and a tour of the facility. Additionally, the groups listen to presentations by Foundation and Clinic staff about careers in medical writing, medical illustration, clinical research, athletic training, and physical therapy. Through our programs, we provide an opportunity for these students to hear from surgeons, physical therapists, nurses, physician assistants, and a full array of other healthcare professionals. The students not only have the opportunity to hear the presentations, but they can also ask questions about how to get started, what education requirements are necessary, and where to receive training. These discussions offer insight into the rewards and challenges in medicine that only an experienced medical professional can provide. We also provide a unique hands-on learning opportunity, so the students can experience medical training laboratories that are usually reserved only for medical students. Students particularly enjoy testing their skills with the laboratory's arthroscopic simulation equipment and participating in the cadaver scope and dissections during the hands-on sessions in the Surgical Education Center.

For 2019 the Foundation hosted events for the following schools:

Columbus High School – Sports Banquet

Georgetown Elementary – STEAM Program

Girls Inc. – STEAM Program

Griffin Region College and Career Academy – presentations, tour, and lab

Miller Motte Technical College – presentations and tour

Northside High School – Sports Banquet

Sonoraville High School – presentations, tour, lab and job shadowing

St. Anne Pacelli High School – Sports Banquet

Talbot County's Central High and Middle School – STEAM Program



SAFE KIDS COLUMBUS - 2019 SPORTS SAFETY CLINIC

The 2019 Sports Safety Clinic for coaches and their staff was held on August 6, at the Columbus Civic Center. This year's Safe Kids Columbus partnered with Hughston Clinic and Jack Hughston Memorial Hospital. Safe Kids also collaborated with the Columbus Parks and Recreation Division, Columbus Youth Soccer Club, Academy Sports, and the Hughston Foundation. The event is part of Safe Kids USA's new *Safe Sports* initiative. All parties are dedicated to improving the health of children through injury prevention. Program planners designed the clinic to teach coaches and league organizers the knowledge and skills essential to protect the Chattahoochee Valley Area's children from sports-related injuries and to help them remain healthy and active.

In addition to hearing keynote speakers, local football and soccer coaches visited five different stations and listened to presentations regarding specific topics. Additionally, they had the opportunity to ask questions from experts in the field. The Hughston Foundation's Athletic Training Fellows demonstrated how to tape an injury and provided copies of the *Hughston Health Alert* to participants.

Safe Kids Columbus works to prevent unintentional childhood injury, the leading cause of death and disability to children ages 1 to 14. Safe Kids Columbus is a member of Safe Kids Worldwide, a global network of organizations dedicated to preventing unintentional injury. Founded in 1998, Safe Kids Columbus is led by Piedmont Columbus Regional.



Sponsored Events

ANNUAL KICKBALL TOURNAMENT



Hughston holds its annual tournament each fall at the South Commons Athletic Complex. All funds raised by the tournament go directly to support the Hughston Protect the Athletes campaign. The campaign's mission is to raise funds to support the athletic sports coverage that Hughston provides across the Chattahoochee Valley for youth programs, such as sideline coverage at high school sporting events, preparticipation exams, and Saturday morning injury clinics. This campaign also helps to fund the Hughston Athletic Training program. This program began back in 1998 with just 3 certified athletic trainers (ATCs). Today, it is one of the largest athletic training fellowship programs in the Southeast with 12 ATCs. Besides providing coverage at sporting events, our fundraising projects help purchase much needed ImPACT concussion software for area high schools and other participating colleges.

To view the 2019 Kickball recap [click here](#).

HUGHSTON'S GOLF TOURNAMENT



The Hughston Golf Tournament is traditionally held at the end of the school year at Maple Ridge Golf Course in Columbus. This fundraiser event is a big hit with business leaders and educators each year. All funds raised by the tournament go directly to support the Hughston Protect the Athletes campaign. The mission of the campaign is to raise funds to support the athletic sports coverage that Hughston provides across the Chattahoochee Valley to youth programs, such as sideline coverage at high school sporting events, support of preparticipation exams, and Saturday morning injury clinics. Besides providing coverage at sporting events, this fundraising project helps purchase much needed ImPACT concussion software for area high schools and other participating colleges.

The 2019 press release and photos can be viewed by [clicking here](#).



Research, Education, and Training



The Hughston Foundation is devoted to achieving its mission of research, education and training. We host monthly Grand Rounds, M&M Overviews, and lectures that provide CMEs not only to local physicians, but also to doctors who want to join a meeting via the Internet. This year, Hughston researchers were involved in 57 different **research** studies, including 4 ongoing sponsored clinical trials for surgical devices and techniques. The **Surgical Education Center** hosted 62 surgical education laboratories during the year. Additionally, the Foundation is planning the **2021 Biennial Hughston Society Meeting**. We look forward to seeing old friends and sharing our experience and knowledge with some of the best orthopaedic physicians and surgeons in the world.

RESEARCH



Hughston physicians publish regularly in their areas of specialization and present their work worldwide. As part of their training, our fellows and residents are also involved in individual and collaborative research projects for publication. Through the research they do at the Foundation, our healthcare professionals not only stay current but on the cutting edge of orthopaedics and sports medicine. This enables them to offer the best and most innovative patient care. All research involving human subjects is reviewed and monitored by our own **Institutional Review Board (IRB)**, which consists of medical professionals and community members. The Hughston IRB operates according to federal regulations set forth by the US Department of Health and Human Services and the Food and Drug Administration. Additionally, the IRB ensures that patients' rights and welfare are protected and that all Health Insurance Portability and Accountability Act (HIPAA) requirements are met with regard to patient access and the privacy of protected health information.



EDUCATION



The Hughston Foundation continually educates its physicians and healthcare professionals with the goal of helping you live a healthier life. Our **Surgical Education Center** offers physicians a place to learn new techniques, build on their existing surgical skills, and conduct orthopaedic research. The Foundation also sponsors educational events to keep professionals current, and provides scholarships for outstanding individuals wishing to continue their education in **athletic training** and sports medicine. Additionally, we produce patient educational materials, such as quarterly issues of the **Hughston Health Alert**, a newsletter designed to help you make the best decisions when it comes to your health and greater well being.

Hughston Health Alert

For more than 30 years, the Hughston Foundation has published the *Hughston Health Alert*, an 8-page quarterly patient education newsletter prepared by our writing and imagery departments. It focuses on orthopaedic and sports-related topics, including injury prevention and treatment, and is circulated at no charge to patients, coaches, students, and anyone requesting a subscription. Moreover, the *Hughston Health Alert* is available online at **hughston.com** where it attracts over a million visitors annually. In addition to a print readership of over 50,000 a year, the number of *Hughston Health Alert* e-mail subscriptions has risen to over 60,000.

Surgical Education Center

The Hughston Foundation's Surgical Education Center is designed and equipped for hands-on training so users can build on their existing skills or learn and develop new techniques in arthroscopic and open surgical procedures. The Center consists of 2 bioskills laboratories: a dry station laboratory with surgical simulators and plastic models of human limbs and joints, and a wet station laboratory for training on cadaveric tissue. Sawbones® plastic models and Arthrobox™ arthroscopy simulators give students and physicians unlimited opportunity to practice their surgical skills. The Foundation's wet station laboratory hosts cadaveric dissections and training sessions for physicians, fellows, residents, and medical students. Audiovisual integration within the Foundation's facilities



allows larger groups seated in the auditorium to observe and interact with those working in the laboratories. Additionally, the Center has welcomed guests from the community as well as from regional, national, and international locations.



Educational Programs

The Surgical Education Center supports the curriculum of our fellowship and residency programs by offering laboratory experience as a supplement to lectures.



Community and Student Education Programs

The Center plays a role in your local community by providing both secondary and postsecondary students with experiences that encourages them to pursue a career in healthcare.



Demonstrations and Training

Device manufacturers and outside institutions support the Foundation by sponsoring laboratory sessions and providing cadaveric specimens, implants, and instruments for use in product demonstrations and surgical training.



Individual Practice and Research Sessions

The Center is also a resource for medical professionals. Just as pilots pursue periodic simulator training, surgeons and ancillary medical workers may periodically wish to refine a particular skill or review anatomy to prepare for an upcoming procedure. Additionally, physicians use the Center and laboratory resources for their research endeavors.

TRAINING

The Hughston Foundation has a reputation as a premier venue for orthopaedic, sports medicine, and trauma training. Our medical **fellowships**, orthopaedic surgery **residency**, **athletic training fellowship**, and training symposiums attract physicians and athletic trainers of the highest caliber. Moreover, our symposiums provide intensive training experiences and bring in leaders from the field to discuss emerging healthcare trends. The comprehensive training we offer enables our healthcare professionals to give you the combined benefits of Hughston tradition and innovation.



Orthopaedic Trauma Fellowship

The Hughston Orthopaedic Trauma Fellowship program is accredited through the Orthopaedic Trauma Association and leads to certification as an orthopaedic trauma subspecialist.

Advanced Clinical Experience Fellowship

This fellowship is an educational program in general orthopedic surgery offering one or more specialized areas of interest as well as exposure to the business aspects of an orthopedic practice.

Orthopaedic Residency Program

As a result of a partnership with Edward Via College of Osteopathic Medicine (VCOM), an orthopaedic surgery residency program was established in July 2015 at Jack Hughston Memorial Hospital. The residency program constitutes a 5-year track in orthopaedic education to include training in all areas of general orthopaedic surgery: sports medicine, hand and upper extremity, foot and ankle, pediatric orthopaedics, orthopaedic trauma, adult reconstruction, spine, and rehabilitation.



Athletic Training Fellowship

Participants in the Hughston Athletic Training Fellowship Program complete a 2-year assistantship exposing them to a variety of sporting events. While working toward a master's degree in kinesiology with concentration in either physical education or exercise science through an online program with the University of North Georgia, each fellow is responsible for coverage of a local school, as assigned. The Hughston Foundation pays tuition and yearly stipends for the fellows.



Training Symposiums

Our conferences are effective educational programs that expose physicians and trainees to the latest research and breakthrough techniques of top medical professionals in the field. They offer a unique opportunity for surgeons and allied healthcare professionals to learn new skills and procedures. They are also a good way to interact with colleagues and network professionally. Physicians who attend these symposiums can provide better care for you and your family.





Hughston Grand Rounds

On the first Wednesday of each month, a diverse group of local healthcare professionals—which often includes physicians from Hughston, Columbus, and Fort Benning; Hughston fellows and residents; Hughston physician assistants and physical therapists; and medical students—come together for grand rounds lectures on evolving trends in orthopaedics. Grand rounds constitute a ritual of medical education and provide an excellent supplement to medical school and residency. Additionally, grand rounds help doctors and other healthcare professionals stay current in their specialty or areas of core practice. The physician lectures offer expertise on specialized topics and cover the latest evidence-based research and treatments emerging in the field of medicine. CMEs are provided for these events.

For dates please visit the website [here](#).

Annual East Alabama One Day Institute for Healthcare Professionals

Jack Hughston Memorial Hospital and the Hughston Foundation partnered with the Alabama and Georgia chapters of the Healthcare Financial Management Association to host the annual East Alabama One Day Institute, which was held on April 26, 2019. This year's conference had 6 great speakers with Collier Watson, DO, as the keynote. His presentation offered a unique viewpoint of coding from a physician's perspective. Registration began at 8 am and closing remarks were at 4 pm. Breakfast and lunch was provided with a social networking event directly after the meeting. All healthcare professionals were invited at NO cost and continuing education credits were awarded for attendance. Learn more about the Healthcare Financial Management Association by visiting the [Alabama](#) or [Georgia](#) chapter websites.

Annual Trauma Meeting held in Atlanta

Over a hundred trauma surgeons attended the Atlanta Trauma Symposium on April 18-20, 2019, at the Westin Buckhead in Atlanta, GA. Hughston orthopaedic traumatologist, Bruce Ziran, MD, organized the event, moderated several of the sessions, and he also presented a case-based topic on proximal humerus fractures. All together, 8 sessions offering more than 50 lectures were presented by some of the leading traumatologists in the country.



Additionally, panel questions and discussions were prearranged in each session of the program, giving attendees the opportunity to ask questions and discuss the most up-to-date techniques used in orthopaedic trauma. Attendees were awarded CMEs for the 3-day conference.

Hughston Society

All residents in the Jack Hughston Memorial Hospital Orthopaedic Residency Program and fellows in the year-long postdoctoral sports medicine fellowship program are eligible to become members of the Hughston Society. The society is an alumni group of over 500 physicians—including orthopaedic surgeons, physicians from other specialties, and medical researchers from the United States and abroad—who are trained in the Hughston philosophy and bound by a genuine concern for athletes and a desire to help them return to competition, injury free.

For the 2019 Hughston Society Biennial Meeting, [**click here**](#).



Resources

The Hughston Foundation supports its physicians, **fellows**, and **residents** in all phases of the **research** and publication process. To encourage scholarly activity, our **library** collections and online services are available to Hughston researchers virtually anytime. Additionally, our **medical writer** provides writing and editing services while Hughston Medical Imagery, including 2 **medical illustrators** and a **videographer**, offers a wide range of photography and digital imaging services.

For more information about the Foundation's departments, [click here](#).



Recognitions

Each year, Hughston physicians and staff are recognized for making exceptional contributions to their fields. Equally important, they are often recognized for reaching out and using their expertise to benefit others, locally, nationally, and internationally. In turn, the Hughston Foundation sponsors awards that honor the dedication and outstanding work of our trainees and of community members.



J. KENNETH BURKUS, MD, ABSTRACT RECEIVES CSRS RECOGNITION

The Cervical Spine Research Society (CSRS) recently announced that the scientific abstract entitled *"The Effect of ACDF or Arthroplasty on Cervicogenic Headaches: A Post-Hoc Analysis of A Prospective, Multicenter Study With 10-Year Follow-Up"* was selected for the 2nd Place Clinical Research Award. The honor came with a monetary gift of \$1000; however, in lieu of the cash award, the authors donated the \$1000 prize back to the Cervical Spine Research Society and received a certificate instead.

DR. FLANDRY SERVES 3RD TERM AS CHAIRMAN OF MAG



Fred Flandry, MD, FACS, has been the chairman of the **Medical Association of Georgia's** Board of Directors since October 2017. He is in his third 1-year term, which will expire in October, 2020. Dr. Flandry was elected to this position by MAG's Board of Directors, which decides the association's matters between MAG's House of Delegates meetings. MAG's Board is comprised of directors who are elected by district or county medical societies – as well as MAG's officers. MAG's Board has more than 40 voting members and they generally meet 3 times a year.

With nearly 8,000 members, MAG is the leading voice for physicians in Georgia. It is an advocate for physicians in every practice setting and specialty. MAG's mission is to, "Enhance patient care and the health of the public by advancing the art and science of medicine and by representing physicians and patients in the policy-making process."





DR. BURKUS PRESENTED NEW FDA APPROVED ORTHOPAEDIC DEVICE AT THE ROTARY CLUB

J. Kenneth Burkus, MD, presented a new FDA approved orthopaedic device at the Rotary Club of Columbus, GA, on Wednesday, January 30, 2019. Also a letter to Dr. Burkus from Ken Gall, Professor and Chair of Duke University was presented concerning the importance of the research. Dr. Burkus was instrumental in proving the viability of the new porous PEEK technology. He was the first surgeon to use the technology clinically and he also published the first clinical study showing that a porous polymer technology could drive more reliable bone fusion. "In doing this cutting-edge research, he has forever changed the industry and brought patients a better standard of care," said Professor Gall. You can read the most recent publication on this subject in the *Journal of Mechanical Behavior of Biomedical Materials*. The citation is as follows: Carpenter RD, Klosterhoff BS, Torstrick FB, Foley KT, Burkus JK, Lee CSD, Gall K, Guldborg RE, Safranski DL. Effect of porous orthopaedic implant material and structure on load sharing with simulated bone ingrowth: A finite element analysis comparing titanium and PEEK. *Journal of Mechanical Behavior of Biomedical Materials*. 2018;80:68-76.



WILLIAM MIN, MD, SELECTED CHAIRMAN OF NORTHSIDE HOSPITAL GWINNETT SURGICAL SERVICES EXECUTIVE COMMITTEE

Dr. William Min was selected to chair the Northside Hospital Gwinnett Surgical Services Executive Committee (SSEC) after Dr. Mary Jo Albert stepped down at the end of 2018. The objectives of the SSEC are to evaluate and approve decisions/measures related to OR utilization, cost-effectiveness, and safety. Areas that are impacted include, but are not limited to, block access/utilization, anesthesia support, nursing support, implant and material utilization, infection control, start times, and turnover times.

SPONSORSHIP OF THE DR. JACK HUGHSTON NURSING HUMANITARIAN

Susan Vining Goldman, RN, BS, was the 2019 recipient of the Dr. Jack Hughston Nursing Humanitarian Award. Thanks to the sponsorship of the Hughston Clinic, this award has been presented annually since 2011 to a nurse who demonstrates leadership, compassion, tireless dedication, and extraordinary vision. The award



additionally honors a nurse, selected by the Georgia Association of Occupational Health Nurses, who has advanced human rights and reinforced the dignity and worth of all human beings. The award is presented at the GAOHN state conference.

RESIDENTS WIN FIRST-PLACE AWARD

Third-year residents from the Jack Hughston Memorial Hospital Residency Program, Devin Collins, DO; Gianni Ricci, DO; and Julia Fink, DO, received the first-place award for the "Pathology Course Final Examination" at the Fall 2019 William F. Enneking Seminar in Musculoskeletal Pathology. The program was held at the University of Florida College of Medicine in Gainesville on October 28 through November 1. The week-long seminar covered basic musculoskeletal pathology, radiographic and imaging staging techniques, histologic diagnosis, and the treatment of musculoskeletal lesions. The residents' team scored the highest out of approximately 30 groups that participated in the seminar.



ANNUAL REPORT RECEIVES AMERICAN GRAPHIC DESIGN AWARD

For the 6th year in a row, an issue of *The Hughston Foundation Annual Report* has won the American Graphic Design Award. Art Director Belinda Klein, MA, and Medical Illustrator and Graphic Designer Tiffany Davis, MS, accepted the award for the 2018 *Annual Report* on behalf of the Hughston Foundation's Medical Imagery Department.

The American Graphic Design Award is a premier competition. It provides a unique opportunity for art and illustration departments within corporations and non-profits, as well as publishing, government, and educational institutions to be recognized for their talent, the challenges they face, and the exceptional contributions they make to their respective fields.

Under the direction of Fred Flandry, MD, FACS, Foundation team members Dennise Brogdon; Tiffany Davis, MS; Andy Grubbs, MEd, ATC; Belinda Klein, MA; Cholly Minton; and Robbie Ross write and edit the *Annual Report*.

For nearly 5 decades, Graphic Design USA has sponsored this design competition, which receives more than 6,000 entries from all over the country each year.



CHAMP L. BAKER, JR., MD, SCHOLARSHIPS



Typically, the Champ L. Baker, Jr., MD, Scholarship is awarded to a single deserving graduate-assistant athletic trainer attending school in the Southeastern United States; however, this year the scholarship was split between 2 deserving contenders: Janet Lin Craft is an athletic trainer at LaGrange College, LaGrange, GA, and Stephanie Vasquez is a Children's Healthcare of Atlanta Athletic Trainer at Eagle's Landing Christian Academy in Atlanta, GA. Champ L. Baker III, MD, presented the plaques and \$500 checks at the Georgia Athletic Trainers Association Meeting in January. Both athletic trainers used the funds for continuing education and their national membership fees.

The scholarship presented by the Hughston Foundation honors the legacy that Dr. Baker has built and continues to build in orthopaedics, sports medicine, and arthroscopic surgery. Dr. Baker's passion for sports medicine spans nearly 4 decades, during which he built a reputation as a dedicated educator, author, researcher, physician, and surgeon. His commitment to teaching and sharing his knowledge and experience with athletic trainers rests on the traditions he learned from his own mentor, and later partner, Jack C. Hughston, MD. Dr. Baker's years on the field as team physician—for high school, college-level, Olympic, and professional sports—have earned him the titles of "Mr. Sports Medicine," "Physician of the Year," and "mentor."



RESIDENT PAPER RECEIVES AOOO AWARD

Hughston residents—Samuel E. Thomas, DO; Timothy R. Beals, DO; Mudassar A. Khan, DO—and surgeon, Randall J. Ruark, MD, authored "Patient Height as a Risk Factor for Dislocation After Posterior Total Hip Arthroplasty, A Retrospective Analysis" that was recognized by the American Osteopathic Academy of Orthopaedics (AOAO). The paper received 3rd place recognition and the residents received a monetary award and offer to present the paper at the 2020 AOAO conference.

The AOAO Editorial Subcommittee selected the paper. The subcommittee's purpose is to review and judge the papers submitted by osteopathic orthopaedic residents.



DR. DOUGLAS PAHL, MD



Douglas W. Pahl, MD, has been selected as the Public Affairs Committee Chairman for the North American Spine Society (NASS). In 2016, he was nominated and then elected to the committee; now, he will spend the last year of his 3-year term as chairman.

Dr. Pahl and other Public Affairs Committee members will develop content and provide oversight for NASS public information efforts that target consumers, NASS members, and the broader spine community. Activities include the promotion of NASS's mission through websites, campaigns, and other print, electronic, or broadcast endeavors.

Named chairman of NASS public affairs committee and appointed to conflict of interest review panel, due to distinguished activity he was also appointed to the NASS Spine Political Action Committee.

JIM MADALENO, MS, ATC, UNDERGRADUATE SCHOLARSHIP WINNER ANNOUNCED (PHOTO)



Dayshia Davenport from Louisiana State University was the 2019 recipient of the Jim Madaleno, MS, ATC, Undergraduate Scholarship. The scholarship is awarded annually to a deserving undergraduate athletic training student in the Southeastern United States. Scholarship winners are chosen from CAATE-accredited programs and are individuals who have performed with distinction in and out of the classroom. Davenport is from Garyville, LA, and she is currently attending LSU to complete her undergraduate degree. Davenport's clinical experience includes women's basketball and high school athletes. Her career goals after graduating from LSU are to pursue a Master's Degree and to work in a collegiate or professional setting as an athletic trainer. The Hughston Foundation Scholarship Committee is pleased to recognize Davenport's hard work with a \$1,500 scholarship.

The Hughston Foundation is proud to honor the legacy that Jim Madaleno, MS, ATC, has built and continues to build with student-athletes and student athletic trainers. It is a privilege to sponsor this scholarship for deserving undergraduate athletic training students—those who display the drive and determination that allowed Madaleno to work in multiple settings from professional sports, collegiate athletics, and clinic administration.



Presentations

David Antekeier, MD

*Ischial Tuberosity Avulsion in an Adolescent Athlete:
When is Surgery the Right Decision (poster presentation)*
April 12 – 14, 2019 – Columbus, GA
Hughston Society Meeting



Roman Ashmyan, DO (4th Year Resident)

Tibial Tuberosity Fracture Combined with Entrapped Meniscus
February 6, 2019 – Columbus, GA
Hughston Grand Rounds

*Open Proximal Humerus Fracture:
Case presentation topic review*
April 3, 2019 – Columbus, GA
Hughston Grand Rounds

*Ischial Tuberosity Avulsion in an Adolescent Athlete:
When is Surgery the Right Decision (poster presentation)*
April 12 – 14, 2019 – Columbus, GA
Hughston Society Meeting



Champ L. Baker, Jr., MD

Lipogems® - A New Option to Treat Arthritis
February 12, 2019 – Columbus, GA
Kiwanis Club of Columbus

Ultrasonic Guided Tenotomy for Gluteal Tendonitis
April 15, 2019 – Houston, TX
AMSSM Meeting

Lipogems 3-Year Follow Up
April 12 – 14, 2019 – Columbus, GA
Hughston Society Meeting

*Ultrasound Guided Percutaneous Tenotomy
for Gluteal Tendinopathy (poster presentation)*
April 12 – 14, 2019 – Columbus, GA
Hughston Society Meeting

Weekend Warrior: Case Report
June 20, 2019 – Charlotte, NC
Lipogems Meeting

Arthroscopic Treatment of Peritrochanteric Disorders
September 18 – 21, 2019 – Atlanta, GA
Clinical Orthopaedic Society Meeting

Shoulder & Elbow: Rapid Fire Session
September 18 – 21, 2019 – Atlanta, GA
Clinical Orthopaedic Society Meeting

Shoulder: Labrum and Rotator Cuff
September 18 – 21, 2019 – Atlanta, GA
Clinical Orthopaedic Society Meeting



Champ L. Baker III, MD

OCD Capitellum
April 12 – 14, 2019 – Columbus, GA
Hughston Society Meeting

Current Concepts in Meniscal Repair
September 18 – 21, 2019 – Atlanta, GA
Clinical Orthopaedic Society Meeting

Sport Medicine: Rapid Fire Session
September 18 – 21, 2019 – Atlanta, GA
Clinical Orthopaedic Society Meeting

Use of Orthobiologics for Common Shoulder Conditions
December 10, 2019 – Columbus, GA
Hughston Healthy Living Series



David Barnes, DO (5th Year Resident)

Multiligamentous Knee Injury with Foot Drop
January 9, 2019 – Columbus, GA
Hughston Grand Rounds

*Stand-Alone Lateral Lumbar Interbody Fusion (LLIF):
A Retrospective Case Review (poster presentation)*
April 12 – 14, 2019 – Columbus, GA
Hughston Society Meeting

Patellar Instability
May 1, 2019 – Columbus, GA
Hughston Grand Rounds

*Single Antegrade Intramedullary Kirschner Wire Fixation
for Transverse Metacarpal Shaft Fractures*
September 3 – 7, 2019 – Las Vegas, NV
American Society for Surgery of the Hand Annual Meeting

Dermatophagia Resulting in Severe Soft Tissue and Bone Loss
September 18 – 21, 2019 – Atlanta, GA
Clinical Orthopaedic Society Meeting

*Stand-Along Lateral Lumbar Interbody Fusion (LLIF):
A Case Study*
September 18 – 21, 2019 – Atlanta, GA
Clinical Orthopaedic Society Meeting





Tim R. Beals, DO (Graduate Resident)

Patient Height as a Risk Factor for Dislocation after Posterior THA

April 12 – 14, 2019 – Columbus, GA

Hughston Society Meeting

Spinopelvic Dynamics in Hip Pathology

June 5, 2019 – Columbus, GA

Hughston Grand Rounds



Todd Bonvallet, MD

Cervical Myelopathy – The Great Masquerader

January 31, 2019 – Columbus, GA

Hughston Educational Event

Conservative Measure in Orthopaedic Spine Care

May 8, 2019 – Atlanta, GA

McConnaughay, Coonrod Workers' Compensation Meeting



J. Kenneh Burkus, MD

Research and Development FDA Approved Orthopaedic Healing Device

January 30, 2019 – Columbus, GA

Rotary Club

Clinical and Radiographic Outcome Patient Undergoing Revision Anterior Cervical Discectomy and Fusion Using Porous Peek Implants

July 20, 2019 – Amelia Island, FL

Southern Orthopaedic Association Annual Meeting

Cervical Spine Surgery: Why Should I Change?

November 21 – 23, 2019 – New York, NY

Featuring Advanced Materials Science Symposium at Cervical Spine Research Society Meeting

Advanced Surface Technologies and How They Are Transforming the Properties of Ceramic Grafts and PEEK Webinar

Partnered with NuVasive in 2019

Devin Collins, DO (3rd Year Resident)

Ischial Tuberosity Avulsion in an Adolescent Athlete: When is Surgery the Right Decision (poster presentation)

April 12 – 14, 2019 – Columbus, GA

Hughston Society Meeting

The Use of Prophylactic Intramedullary

Tibial Nail in a High-Level Athlete

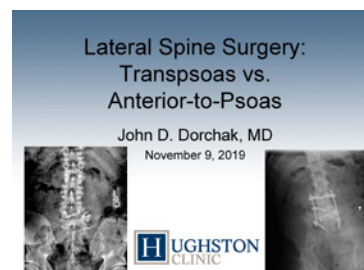
September 18 – 21, 2019 – Atlanta, GA

Clinical Orthopaedic Society Meeting

Single Antegrade Intramedullary Kirschner Wire Fixation for Transverse Metacarpal Shaft Fractures

September 18 – 21, 2019 – Atlanta, GA

Clinical Orthopaedic Society Meeting



John D. Dorchak, MD

Lateral Spine Surgery: Transpsaos vs. Anterior-to-Psoas

November 9, 2019 – Miami, FL

Lateral Access Surgery

Patrick J. Fernicola, MD

RSA for Cuff Arthropathy

September 18 – 21, 2019 – Atlanta, GA

Clinical Orthopaedic Society Meeting

Julia Fink, DO (3rd Year Resident)

Pediatric Femoral Neck Stress Fracture and Vitamin D Deficiency: Case Report

September 18 – 21, 2019 – Atlanta, GA

Clinical Orthopaedic Society Meeting



Fred Flandry, MD, FACS

President

September 18 – 21, 2019

Clinical Orthopaedic Society Meeting – Atlanta, GA

Advocacy

April 11 – 13, 2019 – Columbus, GA

Hughston Society Meeting

John C. P. Floyd, MD, FACS

- *Clavicle Fractures Should Be Repaired Surgically*
 - *How I Salvaged My Most Challenging Case*
 - *Posterior Malleolar Injuries Have A New Treatment Paradigm: How To Evaluate and Treat The PM*
 - *Rapid Fire Case Discussions I and II Panel*
- February 2, 2019 – Chapel Hill, NC
32nd Annual Southeastern Fracture Symposium



Speaker/Table Instructor
 March 2019 - St. Louis, MO
 Arbeitsgemeinschaft für Osteosynthesefragen
 North America (AONA)

- Spectrum of Stability
 - Radiation Safety in the OR
 August 2019 – Columbus, GA
 Advanced Trauma Life Support (ATLS)
 - Musculoskeletal Trauma (speaker and instructor)
 - Radiation Safety in the OR
 - Nonunions
 - Table Instructor
- October 2019 – Minneapolis, MN
 Arbeitsgemeinschaft für Osteosynthesefragen
 North America (AONA)



Ryan M. Geringer, DO, FOOA

Arthroscopic AC Joint Reconstruction
 April 11 – 13, 2019 – Columbus, GA
 Hughston Society Meeting

Superior Capsular Labral Reconstruction
 of Irreparable Cuff Injuries
 September 18 – 21, 2019 – Atlanta, GA
 Clinical Orthopaedic Society Meeting



Gil Gomez, DO (4th Year Resident)

Location Variance of Abdominal Structures and Great
 Vessels on Magnetic Resonance Imaging During Positioning
 Changes while in a Simulated Surgical Lumbar Lateral Position
 July 10, 2019 – Columbus, GA
 Hughston Grand Rounds

Clinical and Radiographic Outcomes Using Third Generation
 Bioglass Bonegraft Substitute in Setting of Multi-Level Anterior
 Cervical Discectomy and Fusion
 July 10, 2019 – Columbus, GA
 Hughston Grand Rounds

Longitudinally Extensive Transverse Myelitis of the Cervical
 Spine as a Manifestation of Neurosarcoidosis: A Case Report
 October 2, 2019 – Columbus, GA
 Hughston Grand Rounds



Andy Grubbs, Jr., MEd, ATC

Update on Concussions
 April 11 – 13, 2019 – Columbus, GA
 Hughston Society Meeting

Best Case Practices for Secondary School Athletic Trainers
 May 20, 2019 – Montgomery, AL
 Southern States ATC Meeting

Emerging Practice Areas and Skills in Athletic Training
 May 21, 2019 – Florence, SC
 Peach Belt ATC Meeting

Best Case Practices for Secondary School Athletic Trainers
 June 4, 2019 – Memphis, TN
 West Tennessee Athletic Trainers Meeting

Best Case Practices for Secondary School Athletic Trainers
 June 5, 2019 – Murfreesboro, TN
 Middle Tennessee Athletic Trainers Meeting

Best Case Practices for Secondary School Athletic Trainers
 June 6, 2019 – Biloxi, MS
 Mississippi State Athletic Trainers Association

Emerging Practice Areas and Skills in Athletic Training
 June 8, 2019 – Atlanta, GA
 Children's Hospital of Atlanta

Emerging Practice Areas and Skills in Athletic Training
 July 13, 2019 – Gulf Shores, AL
 Encore Sports Medicine Symposium



Robert M. Harris, MD

Tool Less External Fixator for Far Forward Use (poster presentation)
 January 22 – 23, 2019 – Washington DC
 Extremity War Injuries XIV

I'm Old School, Patients Still Do Fine Without Surgery
 February 2, 2019 – Chapel Hill, NC
 32nd Annual Southeastern Fracture Symposium

- Temporary Stabilization of Knee Dislocations with External
 Fixation and MRI Considerations
 - Trauma Section Moderator

• Ischial Tuberosity Avulsion in an Adolescent Athlete:
 When is Surgery the Right Decision (poster presentation)
 April 12 – 14, 2019 – Columbus, GA
 Hughston Society Meeting



- Physicians in the Military
 - Trauma section Moderator
 - New Technology in Orthopedic Trauma; Nano Technology
 - Rapid Fire Resident Presentations moderator
 - Second Vice President
- September 18 – 21, 2019 – Atlanta, GA
Clinical Orthopaedic Society Meeting
- Young Practitioners Forum Private Practice
September 25 – 28, 2019 – Denver CO
Orthopedic Trauma Association



Kurt E. Jacobson, MD, FACS

General Session Moderator
April 11 – 13, 2019 – Columbus, GA
Hughston Society Meeting



Emily M. Keener, DO

Complex Elbow Injuries
April 11 – 13, 2019 – Columbus, GA
Hughston Society Meeting



Cameron C. Kersey, MD

Imaging of the Glenoid Labrum
April 11 – 13, 2019 – Columbus, GA
Hughston Society Meeting

Radiofrequency Ablation for Pain Management
in Patients with Osteoarthritis of the Knee and
Chronic Lumbar & Sacroiliac Joint Pain
June 5, 2019 – Columbus, GA
Hughston Grand Rounds

Transient Articular Denervation
September 18 – 21, 2019 – Atlanta, GA
Clinical Orthopaedic Society Meeting



Mudassar Khan, DO (4th year Resident)

- Prevalence of Lumbar Spondylolisthesis in Adults with Hip Pain (poster presentation)
- Evaluation of a Low Cost "Tool-less" External Fixator for DCO: Ease of Application (poster presentation)
Colorado Springs, CO – October 24 – 26, 2019
American Osteopathic Academy of Orthopedics Annual Meeting

Is the Hoffman's Sign a Reliable Test for Predicting Spinal Cord Compression Seen on Magnetic Resonance Imaging?
July 10, 2019 – Columbus, GA
Hughston Grand Rounds

David H. MacDonald, DO, FAOAO

- Rotator Cuff and Shoulder
- Traumatic Shoulder Injuries
- Traumatic Elbow and Forearm Injuries
- Fracture and Dislocation of Extremities: General Evaluation
- Fractures of the Arm, Elbow and Forearm
October 29 – 30, 2019 – Auburn, AL
VCOM Medical Student presentations
- Fractures of the Wrist and Hand
- Disorders of the Hand and Wrist
November 8, 2019 – Auburn, AL
VCOM Medical Student presentations

William Min, MD, MS, MBA

Long vs. Short CMN: Why Longer May Be Better
March 16, 2019 – Las Vegas, NV
AAOS Annual Meeting

- Ankle Fractures
- Module Leader
May 10 – 11, 2019 - Charlotte, NC
OTA 2019 Resident Advanced Trauma Technique Course
- Tips and Tricks for Surviving Ortho Call
July 17, 2019 - Lawrenceville, GA
Department of Orthopaedic Surgery Conference
- Bone Simulation Lab: TFNA, R/AFN, and Tibia EX IMN
September 29, 2019 - Lawrenceville, GA
Northside Hospital Gwinnett OR In-Service



J. Ryan Mahoney, DO (5th Year Resident)

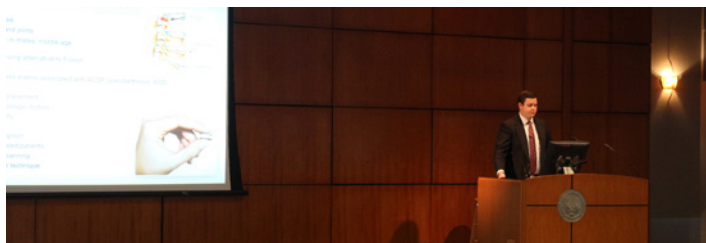
Tibial Tuberosity Fracture Combined with Entrapped Meniscus
February 6, 2019 – Columbus, GA
Hughston Grand Rounds



Masquelet Technique for Treatment of Segmental Bone Loss In Ballistic Humerus Fracture
March, 6, 2019 – Columbus, GA
Hughston Grand Rounds

Ultrasound Guided Percutaneous Tenotomy for Gluteal Tendiopathy
September 18 – 21, 2019 – Atlanta, GA
Clinical Orthopaedic Society Meeting

Heterotopic Ossification after Arthroscopic Rotator Cuff Repair
November 7, 2019 – Columbus, GA
Hughston Grand Rounds

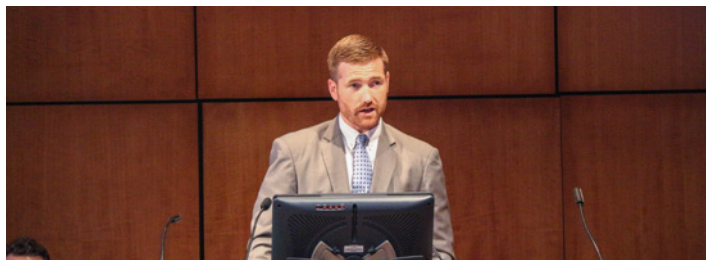


Christopher Muncie, DO (4th year Resident)

Cervical Disc Replacement: A Review of Implant Biomechanics
July 10, 2019 – Columbus, GA
Hughston Grand Rounds

Douglas W. Pahl, MD

Stand-Alone Lateral Lumbar Interbody Fusion (LLIF): A Retrospective Case Review
(David Barnes, DO, poster presentation)
April 12 – 14, 2019 – Columbus, GA
Hughston Society Meeting



Sam Pitts, DO (Graduate Resident)

Tibial Tuberosity Fracture Combined with Entrapped Meniscus
February 6, 2019 – Columbus, GA
Hughston Grand Rounds

Safety of Magnesium and Ketamine Given Perioperatively to Patients Undergoing Orthopaedic Surgical Procedures
Retrospective Review
April 12 – 14, 2019 – Columbus, GA
Hughston Society Meeting



David C. Rehak, MD

Ischial Tuberosity Avulsion in an Adolescent Athlete: When is Surgery the Right Decision (poster presentation)
April 12 – 14, 2019 – Columbus, GA
Hughston Society Meeting

Gianni Ricci, DO (3rd Year Resident)

Femoral Head-Stem Dissociation after Total Hip Arthroplasty
September 18 – 21, 2019 – Atlanta, GA
Clinical Orthopaedic Society Meeting

October 4 – 5, 2019 – Augusta, GA
33rd Annual Frank H. Stelling Pediatric Orthopedic Conference

- *Legg-Calve-Perthes Disease: A Case Discussion*
- *Adolescent Idiopathic Scoliosis: A Case Discussion*
- *Femoral Head-Stem Dissociation after Total Hip Arthroplasty: A Case Report*
September 18 – 21, 2019 – Atlanta, GA
Clinical Orthopaedic Society Rapid Fire Session



Randall J. Ruark, MD

Trunnionosis
April 11 – 13, 2019 – Columbus, GA
Hughston Society Meeting

Trunnionosis
May 2, 2019 - Bandon Dunes, OR
National Orthopaedic Educational Society

Trunnionosis
September 18 – 21, 2019 – Atlanta, GA
Clinical Orthopaedic Society Meeting

Total Knee: Rapid Fire Session
September 18 – 21, 2019 – Atlanta, GA
Clinical Orthopaedic Society Meeting

Trunnionosis
October 11, 2019 - Sea Island, GA
Society for Arthritic Joint Surgery



Rourke M. Stay, MD

MRI of the Postoperative Shoulder
April 11 – 13, 2019 – Columbus, GA
Hughston Society Meeting



Carlton G. Savory, MD, FACS

Athroplasty "Real Life Orthopaedics"
September 18 – 21, 2019 – Atlanta, GA
Clinical Orthopaedic Society Meeting

The Rescue Attempt of Iran Hostages
September 18 – 21, 2019 – Atlanta, GA
Clinical Orthopaedic Society Meeting

Total Joint – Rapid Fire Session
September 18 – 21, 2019 – Atlanta, GA
Clinical Orthopaedic Society Meeting

Retiring from the Active Practice of Orthopaedics
September 18 – 21, 2019 – Atlanta, GA
Clinical Orthopaedic Society Meeting



Bruce H. Ziran, MD, FACS

Updates on Composites in Orthopaedic Trauma
January, 2019 – Traverse City, MI
Traverse City Roundtable Surgeon Meeting

Updates on Composites in Orthopaedic Trauma
January, 2019 – Pittsburg, PN
Pittsburgh Roundtable Surgeon Meeting

The Evolution of Orthopaedic Trauma
February 2019 – Atlanta, GA
Philadelphia College of Osteopathic Medicine

Update on Carbon Fiber
March 12 – 16, 2019 – Las Vegas, NV
Composite Implant Symposium - AAOS Meeting

New Technology and Updates in Orthopaedic Trauma
April 11 – 13, 2019 – Columbus, GA
Hughston Society Meeting

- *Managing Advanced Practice Providers*
- *Managing Physicians: Herding Dogs or Cats*
 - *New Technology and Trends*
 - *Proximal Humerus Fracture Cases*
April 18 – 20, 2019 – Atlanta, GA
Atlanta Trauma Symposium

- *Ankle Fracture Management*
 - *Approaches to the Ankle*
 - *Complex Cases*

August, 2019 – Capetown, South Africa
Foot and Ankle Training: Acumed Expert Lab

Whats New in Orthopaedic Trauma
September 18 – 21, 2019 – Atlanta, GA
Clinical Orthopaedic Society Meeting

Dealing with the Overwhelm in Practice: How to Manage APPs
September 25 – 28, 2019 – Denver, CO
Orthopedic Trauma Association

- *Firearm Symposium: What Has Been Done, What Has Worked, What Should Be Done?*
- *Use of Carbon Fiber versus Titanium Nails in Tibia Fractures*
October, 2019 – Cleveland, OH
Cleveland Local Orthopaedic Meeting

- *Advances in Orthopaedic Trauma*
- *Composites in Orthopaedic Surgery*
November, 2019 – Atlanta, GA
Atlanta Orthopaedic Society



Samuel Thomas, DO (Graduated Resident)

Prospective Outcomes of Distal Femoral Plating with Carbon Fiber Vs. Traditional Plate Fixation for Distal Femoral Fractures
April 11 – 13, 2019 – Columbus, GA
Hughston Society Meeting

Prospective Outcomes of Distal Femoral Plating with Carbon Fiber vs. Traditional Plate Fixation for Distal Femoral Fractures: An Interim Analysis
September 18 – 21, 2019 – Atlanta, GA
Clinical Orthopaedic Society Meeting

Patient Height as a Risk Factor for Dislocation After Posterior Total Hip Arthroplasty, A Retrospective Analysis
Nationwide AOA Editorial Sub-committee

Collier Watson, DO

Complications of Talus and Calcaneus Fractures
October 24 – 26, 2019 – Colorado Springs, CO
AAO Meeting

L. Erik Westerlund, MD, FACS

Technology Update: Evolved Strategies for Visual Augmentation in Minimally Invasive Spine Surgery
September 18 – 21, 2019 – Atlanta, GA
Clinical Orthopaedic Society Meeting

Case Presentations
September 18 – 21, 2019 – Atlanta, GA
Clinical Orthopaedic Society Meeting

- *Evaluation and Treatment of Airway Compromise after ACDF*
- *Course Faculty and Section Moderator*
- *Managing Complications: Clinically, Ethically, and Legally*
December 6 – 7, 2019 – La Jolla, CA
AOSpine North America. AOSpine Masters Seminar



Scientific Publications

Attum B, **Thompson JH**. Humerus fractures overview. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2020 Jan-. 2019 Dec 6. NBK482281. PMID:29489190
https://www.ncbi.nlm.nih.gov/pubmed/29489190

Baker CL Jr. Arthroscopic treatment of lateral epicondylitis. In: *Tips and Tricks in Sports Medicine Surgery*. Azar, Fred (editor) Chapter 25. Wolters Kluwer; New York: 2019;199-204.

Baldwin P, Li DJ, **Auston DA**, Mir HS, Yoon RS, Koval KJ. Autograft, allograft, and bone graft substitutes: clinical evidence and indications for use in the setting of orthopaedic trauma surgery. *Journal of Orthopaedic Trauma*. 2019 Apr;33(4):203-213. doi: 10.1097/BOT.0000000000001420. PMID:30633080

Beebe MJ, Morwood M, Serrano-Riera R, Quade JH, **Auston DA**, Watson DT, Sanders RW, Mir HR. Extreme nailing: is it safe to allow immediate weightbearing after intramedullary nail fixation of extraarticular distal tibial fractures (OTA 43-A)? *Journal of Orthopaedic Trauma*. 2019; Aug 33(8):392-396. doi: 10.1097/BOT.0000000000001484. [PMID: 31116138]

Clerk-Lamallice O, Beall DP, Ong K, **Lorio MP**. ISASS Policy 2018-Vertebral Augmentation: Coverage Indications, Limitations, and/or Medical Necessity. *International Journal of Spine Surgery*. 2019 Feb 22;13(1):1-10. doi: 10.14444/5096. eCollection 2019 Jan. PMID:30805279

Compartment Syndrome: A Guide to Diagnosis and Management [Internet]. Mauffrey C, **Hak DJ**, Martin MP III. (editors) Cham (CH): Springer; 2019. 2019 Sept. 3. PMID 32091680

Dugas JR, Looze CA, Capogna B, Walters BL, **Jones CM**, Rothermich MA, Fleisig GS, Aune KT, Drogosz M, Wilk KE, Emblom BA, Cain EL Jr. Ulnar collateral ligament repair with collagen-dipped FiberTape augmentation in overhead-throwing athletes. *American Journal of Sports Medicine*. 2019 Apr;47(5):1096-1102. doi: 10.1177/0363546519833684. PMID:30943085

Gornet MF, Lanman TH, **Burkus JK**, Hodges SD, McConnell JR, Dryer RF, Schranck FW, Copay AG. One-level versus 2-level treatment with cervical disc arthroplasty or fusion: outcomes up to 7 years. *International Journal of Spine Surgery*. 2019 Dec 31;13(6):551-560. doi: 10.14444/6076. eCollection 2019 Dec. PMID: 31970051. PMCID: PMC6962002

Gornet MF, Lanman TH, **Burkus JK**, Dryer RF, McConnell JR, Hodges SD, Schranck FW. Two-level cervical disc arthroplasty versus anterior cervical discectomy and fusion: 10-year outcomes of a prospective, randomized investigational device exemption clinical trial. *Journal of Neurosurgery, Spine*. 2019 Jun 21:1-11. doi: 10.3171/2019.4.SPINE19157. [Epub ahead of print] PMID: 31226684

Gornet MF, **Burkus JK**, Dryer RF, Pelozo JH, Schranck FW, Copay AG. Lumbar disc arthroplasty versus anterior lumbar interbody fusion: 5-year outcomes for patients in the Maverick disc investigational device exemption study. *Journal of Neurosurgery, Spine*. 2019 May 17;31(3):347-356. doi: 10.3171/2019.2.SPINE181037. PMID: 31100723

Gornet MF, **Burkus JK**, Shaffrey ME, Schranck FW, Copay AG. Cervical disc arthroplasty: 10-year outcomes of the Prestige LP cervical disc at a single level. *Journal of Neurosurgery, Spine*. 2019 May 10;31(3):317-325. doi: 10.3171/2019.2.SPINE1956. PMID: 31075769

Gornet MF, Lanman TH, **Burkus JK**, Dryer RF, McConnell JR, Hodges SD, Schranck FW. Two-level cervical disc arthroplasty versus anterior cervical discectomy and fusion: 10-year outcomes of a prospective, randomized investigational device exemption clinical trial. *Journal of Neurosurgery, Spine*. 2019 Jun 21:1-11. doi: 10.3171/2019.4.SPINE19157. [Epub ahead of print] PMID:31226684

Hak DJ, Mauffrey C. Limitation of Pressure Measurement. Chapt 6. Mauffrey C, Hak DJ, Martin MP III. (editors) In: *Compartment Syndrome: A Guide to Diagnosis and Management* [Internet]. Cham (CH): Springer; 2019. 2019 Sept. 3. PMID: 32091734. NBK553901. DOI: 10.1007/978-3-030-22331-1_6



Hak DJ. Acute compartment Syndrome in Children. Chapt 13. *Compartment Syndrome: A Guide to Diagnosis and Management* [Internet]. Mauffrey C, Hak DJ, Martin MP III. (editors) Cham (CH): Springer; 2019. 2019 Sept. 3. PMID: 32091730

Marawar SV, Ordway NR, **Auston DA**, Kurra S, Wang D, Simpson VM, Tallarico RA, Katz DA, Palomino K, Palumbo M, Lavelle WF. Assessment of Inter- and Intraobserver Reliability and Accuracy to Evaluate Apical Vertebral Rotation Using Four Methods: An Experimental Study Using a Saw Bone Model. *Spine Deformity*. 2019 Jan;7(1):11-17. doi: 10.1016/j.jspd.2018.06.009. PMID:31975268

MARS Group (Baker CL 3rd). Relationship between sports participation after revision anterior cruciate ligament reconstruction and 2-year patient-reported outcome measures. *American Journal of Sports Medicine*. 2019 Jul;47(9):2056-2066. doi: 10.1177/0363546519856348. Epub 2019 Jun 21. PMID:31225999

MARS Group (Baker CL 3rd). Predictors of patient-reported outcomes at 2 years after revision anterior cruciate ligament reconstruction. *American Journal of Sports Medicine*. 2019 Jul 18;363546519862279. doi: 10.1177/0363546519862279. [Epub ahead of print] PMID:31318611

Mahoney JR, Barnes D, Pahl D. Perforated ileus after L5-S1 anterior lumbar interbody fusion: a case report presentation. *AME Case Reports*. 2019 Jul 16;3:21. doi: 10.21037/acr.2019.07.06. eCollection 2019. PMID:31463426

Nauth A, Egol KA, Walden T, Boyer M, **Anglen J**, Broekhuysen HM. Softer Tissue Issues in Orthopaedic Trauma. *Journal of Orthopaedic Trauma*. 2019 Jun;33 Suppl 6:S30-S33. doi: 10.1097/BOT.0000000000001471. PMID:31083146

Okwumabua E, **Thompson JH.** Anatomy, Shoulder and Upper Limb, Nerves. StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2019 Jan- 2018 Oct 27. PMID:30252312

Okwumabua E, **Thompson JH.** Anatomy, Shoulder and Upper Limb, Axillary Nerve. StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2020 Jan-2019 Feb 8. PMID:29630264 NBK493212

Ricci AG, Stewart M, Thompson D, Watson BC, Ashmyan R. The central-splitting approach for Achilles insertional tendinopathy and Haglund's deformity. *JBJS Essential Surgical Techniques*. Nov 13 2019. Accepted: ST-D-19-00035R1. Doi:10.2106/JBJS.ST.19.00035.

Thompson JH, Jahangir A. Tibia Fractures Overview. StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2019 Jan-. 2019 Apr 2. PMID:30020639

Webb LX, **Floyd JCP.** Open Reduction and Internal Fixation of Femoral Neck Fractures. Chapter In: Colvin AC, Flatow E eds. *AAOS Atlas of Essential Orthopaedic Procedures*, 2nd ed. Rosemont, IL: American Academy of Orthopaedic Surgeons / Wolters Kluwer 2019;579-587.

Ziran BH. A new financial model for US healthcare: cost sharing instead of risk sharing. *Health Affairs: Patient Safety in Surgery*. 2019: In press.

Ziran BH, Harris RM: Comparison of carbon fiber and titanium tibial nails. *Journal of Orthopaedic Trauma*. 2019: In press.

Ziran BH. Dealing with the overwhelm in practice. How to manage APPs. Abstract. Orthopaedic Trauma Association. September 2019. Denver, CO.

Ziran BH. Firearm Symposium. What has been done, what has worked, what should be done? Abstract. Orthopaedic Trauma Association. September 2019. Denver, CO.

Ziran BH, Harris, RM, Opry EK. Use of carbon fiber versus titanium nails in tibia fractures. Abstract. Orthopaedic Trauma Association. September 2019. Denver, CO.



Endowment and Funds

ENDOWMENT

The Hughston Foundation's endowment was established to support our training, education, and research programs.

The Hughston Foundation Endowment
(unrestricted) \$1,209,531.26

FUNDS

The following funds have been established to underwrite the annual expenses of designated Foundation programs.

Athletic Training Fellowship Fund

Hughston Clinic

Hughston Surgical Center
Jack Hughston Memorial Hospital
Community-at-large

Hughston Health Alert Fund

Subscribers

Trauma Research Grant

Anonymous

Trauma Fellowship Fund

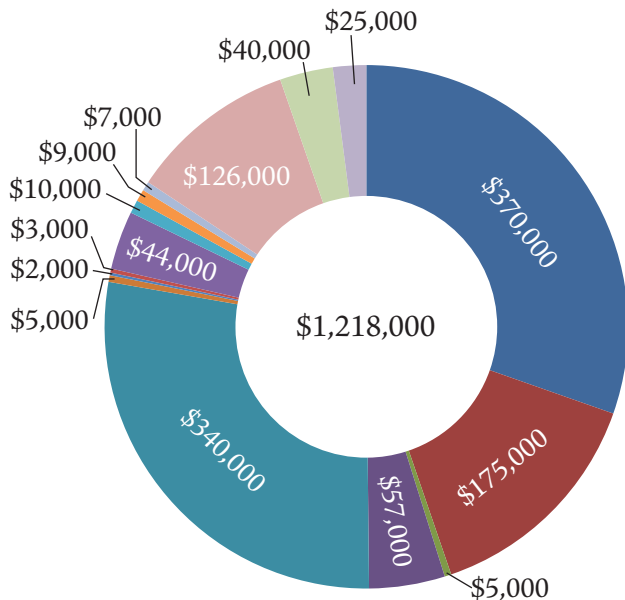
Center for Orthopaedic Trauma Advancement
(COTA)

**The COTA Grant has been made available through funding received from DePuy-Synthes, Smith & Nephew, Stryker and Zimmer along with the individual members of OTA in supporting quality education for fellows and improving outcomes for patients.*

OPERATING BUDGET

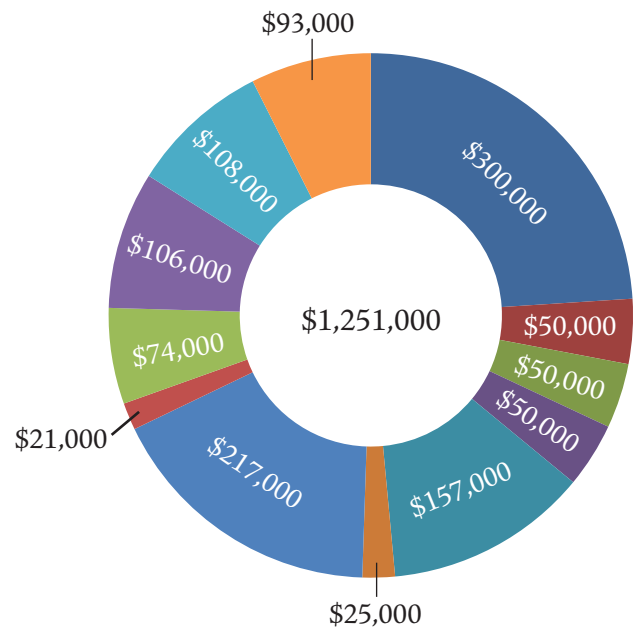
The pie graphs show the Foundation's current expenditures and funding sources.
Note: Hughston Clinic physicians are not compensated for their work with the Foundation.

ANNUAL EXPENDITURES



Salaries and Benefits	\$370,000
Facility Management	\$175,000
Sports Medicine Fellowship	\$5,000
Trauma Fellowship	\$57,000
ATC Fellowship	\$340,000
Surgical Education Center	\$5,000
Hughston Studios	\$2,000
Medical Illustration	\$3,000
Medical Writing	\$0
Hughston Health Alert	\$44,000
Research	\$10,000
Scholarships	\$9,000
Library	\$7,000
Hughston Society	\$126,000
Administration	\$40,000
Fundraising	\$25,000
Total	\$1,218,000

ANNUAL REVENUE



Endowment	\$300,000
Hughston Clinic, PC	\$50,000
Hughston Surgical Center	\$50,000
Jack Hughston Memorial Hospital	\$50,000
Hughston Physicians	\$157,000
Grants & Scholarships	\$25,000
Contributions	\$217,000
Facility Use	\$21,000
Fundraising	\$74,000
Fellowship Revenue	\$106,000
Other	\$108,000
Hughston Society	\$93,000
Total	\$1,251,000



Supporters

THE HUGHSTON FOUNDATION GRATEFULLY ACKNOWLEDGES OUR 2019 SUPPORTERS:

DIAMOND — \$100,000.00 +

Hughston Medical Management Group
NBI, Inc.

PLATINUM — \$50,000-\$99,999

Hughston Surgical Center
Jack Hughston Memorial Hospital

GOLD — \$25,000-\$49,999

Community Foundation of the Chattahoochee Valley
Veritas Surgical Solutions

SILVER — \$10,000-\$24,999

AFLAC
Champ L. Baker III, MD
John D. Dorchak, MD
Patrick J. Fericola, MD
Fred Flandry, MD, FACS
The Francis and Miranda Childress Foundation, Inc.
(contributing since 2002)
Kurt E. Jacobson, MD, FACS
David H. MacDonald, DO, FAOAO
MAG Mutual Foundation, Inc.
NuVasive
Douglas W. Pahl, MD
Michael M. Tucker, Jr., MD
John I. Waldrop, MD

BRONZE — \$5,000-\$9,999

Champ L. Baker, Jr., MD
Kevin J. Collins, MD
Norman L. Donati, Jr., MD
Ryan M. Geringer, MD, FAOAO
James E. McGrory, MD
David C. Rehak, MD
Randall J. Ruark, MD
Bruce H. Ziran, MD, FACS

COPPER — \$2,500-\$4,999

Arthrex
Brook Bearden, MD
Hughston Homes
Hughston Society
John C. P. Floyd, MD, FACS
Robinson, Grimes & Company, PC
TSYS
VCOM-Auburn
Wanda and Shelby Amos Foundation

BENEFACTOR — \$1,000-\$2,499

A-Com Protection Services, Inc.
Mark Baker, PT, CEO
Brand Vaughn
Columbus State University
Fournoy Partners
Levy, Sibley, Foreman & Speir, LLC
Malone Office Environment
NAI G2 Commercial Real Estate

Mr. E. Warner Neal, Jr. through The Fort Trustee Fund, CFCF
Shevin D. Pollydore, MD
Regions Bank
River Mill Data Management, LLC
Rivertown Pediatrics
Southeast Brain and Spine Surgery
Synovus
The Center for Medical Weight Loss
Westrock

PATRON — \$500 - \$999

Elizabeth Bloodgood, PT, ATC
Georgia Healthcare Science Technology Education Foundation
Knowledge Passport
Shaw Flooring
Three Rivers AHEC

FRIEND — \$100 - \$499

J. Kenneth Burkus, MD
Columbus Fire and Safety
Michael Gibbs
Garland K. Gudger, Sr., MD
Garland K. Gudger, Jr., MD
Andy Grubbs, ATC
Teri LaSalle, MS, PT, ATC
Tiffany Nolin
James Spano
Scott Williams, MD

CONTRIBUTOR — \$1 - \$99

Betty Jo Banks
Tamatha Bentley
Elfi Broach
Dennise Brogdon
Larry E. Carmack
Angela Curley
Michael P. Dowling
Samuel and Patricia Gartman
Carol L. Hardin, RN, MS
Eskar Harrison
William and Martha Holloway
Mr. and Mrs. Fred Pritchard
Mildred M. Sellers, RN
John E. Thornton
Dr. Harold and Dr. Eugenia Zallen

IN-KIND GIFTS

Callaway Blue
Thomas N. Bernard, Jr., MD
Belinda Klein
Krispy Kreme
Gatorade
Safeguard
United Healthcare



Sponsors

SPONSORS FOR HUGHSTON EVENTS:

ACOM Protection Services, Inc.	Hughston Society	Robinson, Grimes & Company, PC
AFLAC	Hughston Surgical Center	Safeguard
Arthrex	Jack Hughston Memorial Hospital	Shaw Flooring
Brand Vaughn	Knowledge Passport	Southeast Brain and Spine Surgery
Callaway Blue	Krispy Kreme	Synovus
Columbus Fire and Safety	Levy, Sibley, Foreman & Speir, LLC	The Center For Medical Weight Loss
Columbus State University	MAG Mutual Foundation, Inc.	The Francis and Miranda Childress Foundation, Inc.
Community Foundation of the Chattahoochee Valley	Malone Office Environment	Three Rivers AHEC
Flournoy Partners	NAI G2 Commercial Real Estate	TSYS
Gatorade	NBI, Inc.	United Healthcare
Georgia Healthcare Science Technology Education Foundation	NuVasive	VCOM-Auburn
Hughston Homes	Regions Bank	Veritas Surgical Solutions
Hughston Medical Management Group	River Mill Data Management, LLC	Wanda and Shelby Amos Foundation
	Rivertown Pediatrics	Westrock

HUGHSTON HOSTED THE FOLLOWING:

Arthrex	Hughston Grand Rounds	Orthofix Meeting
Athena Training	Hughston Health & Fair	Piedmont Columbus Regional
Auburn University, VCOM	Hughston IRB	Piedmont Northside Hospital
Central High School (Phenix City)	Hughston Rehabilitation Clinical Training	Radiology PAC Training
Columbus High School	Hughston Society Meeting	Radix Meeting
Columbus Lions	Hughston Surgical Center Clinical Training	Red Cross Blood Drive
Columbus Relay for Life	Hughston Trauma	Sonoraville High School
Columbus Technical College	Hughston Workers' Compensation Conference	Safe Kids Columbus
Crossroads Extremity	Jack Hughston Memorial Hospital	SeaSpine
Crosslink/Stryker	Kinesio Taping Seminar	Smith & Nephew
Emergency Management Regional Meetings and Conference	Kinex	St. Anne Pacelli High School
First Aid and CPR Training	LIPOGEMS	Synthes
Georgetown Elementary STEAM Program	Martin Army Community Hospital	T-Rex Total Range Exerciser Demonstration
Georgia High School Wrestling and Hydration Assessments	Medical Association of Georgia CME	Tenex Webinar
Girls Inc.	Medtronic Spine	Three Rivers AHEC
Griffin High School	Mercer School of Medicine	Tri-Community Directors of Volunteer Services
Healthy Living Series	Muscogee County CPR Training	Trilliant Surgical
Healthcare Coalition Meeting	Muscogee County Medical Society	TSYS Foundation Program
HealthCare Financial Management Association Conference	NuVasive	United Healthcare Medicare Meeting
Hughston Clinic Meetings and Clinical Training	Northside High School	United Way of Georgia
Hughston Foundation Art Gala	Northstar Anesthesia	Wrestling Assessments for high schools
	Orthobiologics Community Health Living Program	



YOU CAN PARTNER WITH US IN OUR EDUCATION AND RESEARCH EFFORTS

The Hughston Foundation is a nonprofit research and education organization that is supported through donations from concerned individuals, corporations, and through local family and regional foundations.

If you would like to support the programs at the Hughston Foundation, please mail your donation to:

The Hughston Foundation, Inc.
Foundation Executive Director
PO Box 9517
Columbus, Georgia 31908

Or visit us at hughston.com/hughston-foundation/donate to make your gift online.
Information can also be provided if you are interested in supporting the Foundation through a planned gift.
Donations of any type, such as cash, stocks, bonds, or other assets, are welcomed.

© 2019 THE HUGHSTON FOUNDATION, INC. FOR ALL PHOTOGRAPHS, ILLUSTRATIONS, LAYOUT, AND PRODUCTION.

hughston.com/hughston-foundation

