TRUSTED LEADERS IN MUSCULOSKELETAL EDUCATION
The Education Institute at Hospital for Special Surgery (HSS) works to expand knowledge of musculoskeletal care and performance among consumers, physicians and other clinicians, investigators, trainees, and students in our area, across the nation, and around the world.
Initiatives developed and coordinated by the Institute push the boundaries of knowledge and expand access to educational programming—uniting innovation, technology, and expertise to bring the latest evidence about musculoskeletal health to trainees and audiences both within and far beyond the walls of the hospital. Through collaboration and partnership, the Education Institute (EI) promotes the role of HSS as the most trusted educator and provider of musculoskeletal health care.

**Academic Training**
is responsible for supporting a culture of collaboration with HSS faculty, accrediting bodies, and healthcare partners to maintain the highest standards in the medical education of fellows, residents, and medical students; it includes integration with the **Bioskills Education Laboratory** and the **Kim Barrett Memorial Library**.

**Public & Patient Education**
offers educational and outreach programs about musculoskeletal conditions and other health and wellness topics to help improve self-management skills and quality of life.

**Global Partnerships**
works with individuals and institutions around the world to promote knowledge transfer and professional education.

**Education Marketing & Digital Communications**
develops strategies and tactics to ensure that our world-class education content reaches musculoskeletal health professionals, patients, and communities to advance musculoskeletal health, including the **HSS Journal®**.

**Professional Education**
provides continuing medical education activities through **HSS eAcademy®** and the **HSS Alumni Association** and by partnering with HSS clinical service departments as well as domestic and international organizations, with the goal of improving quality and patient care.

**Education Media Services**
provides integrated media solutions for professional, public, and patient education by improving the audiovisual experience while increasing healthcare education value, quality, and service.

**Medical Staff Services**
is the gatekeeper of patient safety, ensuring quality patient care through credentialing and privileging of clinical providers on the Medical Staff, Graduate Medical Staff, and Allied Health Professional Staff.
HSS Education Institute Impact

HSS Trained
- 46 residents
- 73 fellows
- 76 medical students
- 975 GME trainees from other institutions

Professional Education Participants
- 86% confident they could implement musculoskeletal educational strategies in their practice
- 86% confident their practice will be enhanced by HSS musculoskeletal education

Community
- 39,798 community participants
- 837 educational and exercise classes to the public
- 91% public gained self-management skills through community education

HSS eAcademy®
- 30,152 members from over 130 countries in 2019

Membership increased from 25,970 in 2018 to 30,152 in 2019 (16% increase from 2018)
<table>
<thead>
<tr>
<th>Engaged</th>
<th>163,328 engaged in Education Institute content</th>
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<tbody>
<tr>
<td>1.5%</td>
<td>overall engagement rates for LinkedIn and Twitter (above industry standard)</td>
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<td>18,499</td>
<td>medical library visits</td>
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</table>

### Alumni Association

- Reached 2,000+ members in 31 foreign countries and all 50 states

### Global Partnerships

- Provided musculoskeletal education to 10,243 participant web viewers
- 30,968 around the world web views

### Hosted

- 424 academic visitors

### Credentialed

- 1,393 physicians and health care providers were credentialed at HSS (55% increase from 2018)

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The Alumni Association 101st Annual Meeting
Through transformative technologies and curricula sharing the latest advances, HSS is bringing education to where learners are—throughout the HSS Enterprise, in our communities, across the country, and on the other side of the world.

Participants engage in a breakout session with Beth E. Shubin Stein, MD, and Andreas H. Gomoll, MD at the 2019 HSS Patellofemoral Course.

Transforming HSS eAcademy®

The HSS eAcademy learning platform is one of the largest portfolios of premium on-demand musculoskeletal content, including orthopedic surgical videos, and reaches over 30,000 health professionals in more than 130 countries. A new platform was launched in 2019 which offers advanced performance, streamlined menus, personalized learner dashboards, intuitive navigation, and improved search functionality. This evolution is critical to expanding our brand across the globe and achieving our academic mission of being the most trusted educator. A robust future strategic plan was developed for HSS eAcademy which enables us to fulfill our responsibility as a leader in musculoskeletal health to optimize the ability of clinicians around the world to care for their patients.

Recognizing Our Success

HSS is named top Orthopedic Surgery Residency Program in the U.S. by clinical training reputation by Doximity Residency Navigator (2015–2020).

HSS is ranked the #1 hospital in the country for Orthopedics and #4 for Rheumatology in the U.S. News & World Report “Best Hospitals 2020–2021” survey.
Simulation and Digital Learning Conference

In collaboration with Mathias P.G. Bostrom, MD, Vice-Chair, Education and Academic Affairs, HSS hosted a two-day consensus meeting on the Role of Surgical Simulation and Digital Learning in Musculoskeletal Education. Leaders from top orthopedic residency programs around the nation convened to address the state of digital learning and surgical simulation programming and determine best practices. The goal was to optimize utilization and integration of eLearning and surgical simulation training programs by adopting software-based platforms, bolstering the security of patient health information, exploring low-fidelity simulation models, simulating scenarios mimicking clinical consequences, and providing continuous simulation training to maintain skills development.

Traveling Fellowship Tour Stops at HSS

HSS welcomed five American Orthopaedic Association North American Traveling Fellows from the United States and Canada during their five-week tour of orthopedic hospitals on the eastern seaboard. Their day began with remarks from Douglas E. Padgett, MD, HSS Associate Surgeon-in-Chief, followed by Sports, Foot & Ankle, Spine, and Hand & Upper Extremity Service Grand Rounds. Each fellow accompanied a surgeon to observe in the OR. The day concluded with the fellows attending the HSS Alumni Association 101st Annual Meeting reception at nearby Rockefeller University. Efforts such as these expose fellows from outside of the institution to the advanced orthopedic training available at HSS and those who have graduated from our programs, while also enabling the fellows to share their own research with physicians at HSS.

Educating the Community

Falls and fall-related injuries continue to be a major health concern for our community members. To help reduce the risk of falls, HSS partnered with Asphalt Green to implement an innovative Falls Prevention program called Skills in Motion. Asphalt Green instructors came to HSS to teach participants how to build strength and balance through individual and group exercises.

In an effort to expand regional community education programming, a new collaboration with the Westport Library enabled local Connecticut residents to view livestreamed programs being held at HSS in New York City, with a Stamford Outpatient Center physician on hand to respond to audience members’ questions.

HSS met a significant need to provide neuromuscular training programs—which are proven to reduce the rate of anterior cruciate ligament (ACL) injuries and improve sports performance—to sports medicine clinicians who treat young athletes. The HSS Sports Safety Program collaborated with Professional Education to host the first Sports Safety Educator Certification (HSS-SSE) Course in March, designed for athletic trainers and physical therapists from the tri-state area who care for youth and high school athletes.

Expanding Library Access

The Kim Barrett Memorial Library launched OpenAthens, an identity and IP-based authentication system that provides offsite access to the library’s licensed online resources. This program expands access to library resources for all HSS employees.

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**Reaching Professionals**

- 1,300 attended 22 live onsite presentations
- 200 participated in 13 livestreamed onsite courses
- 20 Grand Rounds shared through RSS feed
- 1st livestream broadcast of Annual Alumni Association Meeting in 2019
Expanding Our Channel Partnerships

HSS nurtured established partnerships with the professional online channels Medscape, OrthoBullets, and Vumedi and launched new partnerships with Medscape Consult—a crowdsourced digital community of over 500,000 physicians and medical students—and GIBLIB, a medical education video platform, culminating in the development and dissemination of over 70 HSS-curated educational offerings such as surgical videos, clinical case reports, and expert discussions.

- Forty-eight surgical videos illustrating the depth of HSS musculoskeletal expertise were referenced by more than 20,000 trainees and practicing physicians through Vumedi, OrthoBullets, and GIBLIB.
- HSS rheumatologist Sarah F. Taber, MD, and orthopedic surgeon Jason L. Blevins, MD, shared 19 clinical case scenarios and responses on Medscape Consult, initiating clinical case discussions generating over 2,000 case responses and engaging 237 medical professionals following HSS faculty. Dr. Taber won Consult Case of the Year for her presentation called “A decade of arm pain in a 20-year-old female,” which received 121 “upvotes.”
- Collectively, these five channel partnerships achieved 423,000 views and impressions of HSS-curated professional educational content.

Partnering with the Community

The first high school partnership forged through the Leon Root, MD, Pediatric Outreach Program (POP) was launched with A. Philip Randolph Campus High School on West 135th Street in Manhattan. Through this relationship, POP will provide sports injury prevention screenings at no cost for the school’s sports teams that have an elevated risk of lower extremity injuries. HSS also offers resources to coaches, athletes, and parents, such as scheduling appointments for athletes within one week of an injury sustained during practice or a game.

Women in Orthopedic Leadership

The annual HSS Women in Orthopaedics event—held in October—highlights the strong tradition and work lives of female orthopedic surgeons at HSS. Created by orthopaedist Beth E. Shubin Stein, MD in 2011, the event features female attendings, residents, and fellows who speak with first- and second-year medical students about issues such as the status of women in orthopedics, outreach efforts, resident and faculty life, development, and leadership. In 2019, Academic Training partnered with Public and Media Relations to produce a video showcasing 14 HSS female orthopedic surgeons speaking on topics such as their choice of career and work-life balance; it has been accessed by 136 viewers.
Guiding Future Careers

HSS partnered with the Perry Initiative to facilitate a psychomotor skills workshop for 20 high school women from the tri-state area to expose them to the fields of orthopedics and engineering in the Bioskills Education Laboratory. Shevaun M. Doyle, MD, a pediatric orthopedic surgeon at HSS, directed the daylong event, accompanied by female HSS residents, fellows, and visiting medical students. This was the 9th annual Perry Initiative Outreach program; more than 160 female high school students have participated to date.

Supporting Shared Leadership Abroad

To expand the availability and impact of its expertise, HSS collaborates strategically with select like-minded organizations worldwide. These relationships include academic knowledge exchanges in China and Greece, and an alliance with Bumin Hospital Group in South Korea.

The HSS Global Orthopedic Alliance allows HSS to broaden its shared leadership around the world. In the last year, Bumin Haeundae and Bumin Seoul—facilities of Alliance member Bumin Hospital Group—have made changes in the management of processes related to quality, infection control, and leadership. These enhancements resulted in improvements in operating room turnover and case start-time accuracy and reductions in surgery cancellation and medication error.

In November 2019, HSS established a relationship with Central Hospitalario Serena del Mar (CHSM), a medical center at the heart of a visionary new development on the northern coast of Cartagena, Colombia.

Supporting Professional Athletes

Professional Education partnered with the Professional Football Athletic Trainers Society (PFATS) for the third year in a row to provide continuing medical education for NFL athletic trainers in February 2019. One hundred and forty-seven athletic trainers attended the PFATS Symposium, and 100% indicated on a post-course evaluation that the content covered in the activity was useful and relevant to their scope of practice. Participant feedback included comments such as:

“Continue to push the envelope and keep our group on the cutting edge of sports medicine.”

“Great educational symposium! Best in my 7 years!”

“Content was very pertinent to topics in our athletic training room every day.”

Professional Education also hosted the 3rd Annual HSS Professional Sports Medicine Conference at MetLife Stadium to provide the latest strategies for treating professional athletes. Sports medicine clinicians from professional, collegiate, and minor league sports teams gathered at this invitation-only event to share knowledge on best practices.

Bumin Hospital Group leadership and staff participated in a two-week academic visit to HSS in fall 2019.
Through educational initiatives with the power to change lives, HSS leaves an indelible positive impact on the communities we serve and expands the knowledge of professionals who serve others.

Expanding Access to Advanced Physical Therapy

Education Media Services and the Rehabilitation Department have teamed up to provide the latest video recording technology to optimize patient outcomes in physical therapy. Patients can benefit from these advances at the HSS Sports Medicine Institute West Side—home to the first hydrotherapy pool with video recording technology—as well as physical therapy gyms with high-end sound systems, interactive touch screens, and patient status boards at the new HSS Brooklyn outpatient center and HSS Hudson Yards (the latter scheduled to open in 2020). Video recording is a resource to benchmark patients’ status during rehabilitation, keeping them engaged in therapy and ultimately improving health outcomes.

Advancing Community Health

HSS submitted its 2019–2021 Community Service Plan (CSP) to New York State—a collaboration between Public & Patient Education, the Department of Social Work Programs, and Nursing Education. The plan focuses on ten programs that promote healthy eating, and chronic disease prevention and self-management with offerings on nutrition, lupus, inflammatory arthritis, pain management, and musculoskeletal health. Data that informed the CSP came from the 2019 Community Health Needs Assessment (CHNA), a survey that assessed health status and behaviors, quality of life, health education, access to care, and socio-demographic characteristics among more than 11,000 respondents. The survey results are guiding the development of new programs and the refinement of existing ones.

Education Marketing and Digital Communications and Public & Patient Education help support community health through HealthConnection, a digital newsletter which educates thousands of patients about various health topics, with the goal of preventing injury and illness and improving quality of life. The 2019 issue focused on women’s musculoskeletal health.
Highlights of the Community Health Needs Assessment

83% rated their health as good to excellent

27% reported falling in the prior year

25% felt their diet was poor

79% said they had not taken an educational class about how to manage a chronic condition

67% did not meet the CDC’s physical activity guidelines*

*Centers for Disease Control and Prevention

Making an Impact on the Opioid Epidemic

Continuing our priority to ensure HSS is providing the best care possible to our patients and to expand the knowledge about opioid use and misuse to healthcare professionals worldwide, HSS created dedicated opioid education curricula and marketed the content nationally. Orthopedic residents are also conducting groundbreaking research to better understand and manage how opioids are prescribed and used, and they are being recognized for this important work. As the world leader in orthopedic and rheumatologic healthcare, education, and research, these initiatives underscore the stewardship of HSS to combat the national opioid health crisis.

The HSS Pain and Stress Management Program is comprised of self-management education and evidence-based stress reduction strategies to raise awareness, educate individuals, and improve the ability to cope with pain and stress. Educational lectures and workshops are offered to members of the general public covering a variety of self-management techniques for coping with chronic pain and stress. In 2019, we partnered with the Department of Pain Management and case management social workers to make the Mindful Breathing group phone calls available to their patients, helping them to manage their pain and anxiety before and after surgery. Since its inception, 50% of participants indicated that they used mindful breathing techniques taught in the program in place of medication five or more times in a week.

The Asian Community Bone Health Initiative, which provides culturally relevant education and exercise programs for people with chronic bone and joint disease, was the first featured program in Greater New York Hospital Association’s Hospitals for Healthier Communities online video casebook.

gnyha.org/interview/community-spotlight-hss-asian-community-bone-health-initiative
The Education Institute ensures that the quality of care and training at HSS maintain the hospital’s status as the world leader in musculoskeletal health education.

**Ensuring High-Quality Care Through Proper Credentialing**

**Medical Staff Services** recredentialled over 700 Medical Staff members at the main campus, recredentialled Medical, Graduate, and Allied Health Professional Staff at the **HSS Manhattan East Side Ambulatory Surgery Center** and onboarded and credentialled more than 60 new Medical and Allied Health Professional Staff at the main campus. Prior to the opening of the West Side Ambulatory Surgery Center, more than 70 staff were credentialled to ensure clinical care could be provided on opening day. Working with the Office of Medical Staff Leadership, Medical Staff Services monitored prescriber education compliance for over 700 staff members. These projects maintain compliance with the requirements of the Joint Commission and other regulatory bodies. After a Joint Commission audit in May 2019, Medical Staff Services was deemed to be in full compliance of HSS policies as well as Joint Commission regulatory requirements.

**Fueling Independent Research Among Advanced Trainees**

Through the generous support of the Louis and Rachel Rudin Foundation, Inc., the hospital awarded two $25,000 fellowship grants for its first-ever competitive research training program to:

- **Joseph D. Lamplot, MD**, Sports Medicine Fellow, for his research called “Biomechanical testing of 3D-printed dysplastic patellofemoral joints: assessing impact on patellofemoral contact pressures, kinematics, and stability.”

- **Sohrab Virk, MD**, Spine Surgery Fellow, for “What is the impact of delayed delivery of bone morphogenetic protein on fusion in a rabbit model?”

This grant was established to enable fellows to lead independent, mentor-advised studies and gain expertise in critical thinking, grant writing, study design, outcomes analysis, research techniques, and literature search knowledge that are vital to a career in academic medicine.
Growing Professional Scale and Reach

Education Marketing and Digital Communications develops strategies and tactics to ensure that our world-class educational content reaches musculoskeletal health professionals far beyond the tri-state area. In 2019, through the design and deployment of visually captivating print, video, and digital collateral, we promoted more than 10 live CME programs and 250+ online courses via HSS eAcademy. We continue to extend brand awareness of HSS to thousands of health professionals annually. Through our two professional social media channels, we reach beyond global boundaries to ensure that musculoskeletal research and education are shared with more than 4,000 followers. We provide a forum to connect with professionals on trending topics and fuel opportunities for discussion on musculoskeletal areas of interest.

Resident Case Presentations were showcased at the Alumni Association 101st Annual Meeting.

Relevant content for musculoskeletal professionals is posted on the HSS Professional Education on LinkedIn and @HSSProfEd on Twitter.
As an international leader in orthopedics and rheumatology, HSS is building a “musculoskeletal ecosystem” to expand the knowledge of musculoskeletal professionals, clinicians, patients, and community members around the world.

**Impacting Education Abroad**

- Through the **Stavros Niarchos Foundation Orthopedic Academic Visitor and Seminar Programs**, junior orthopedic surgeons practicing in Greece learn the latest orthopedic techniques and innovations.

- Thousands of Chinese orthopedic professionals have benefited from on-the-ground courses in China, including co-development of the November **HSS-Peking University-Peking Union Medical College Hospital Arthroplasty and Spine Symposia** in Beijing and the Chinese Orthopedic Association-HSS Arthroplasty and Spine Courses in Shanghai. In addition, HSS faculty and staff presented at the COA Arthroplasty and Sports Medicine Forums to share HSS experience and expertise. Fourteen clinical observers visited HSS in New York in 2019.

- HSS co-sponsored the **17th Winter Meeting of the Ranawat Orthopaedic Conference**, “Advances & Techniques in Joint Replacement Surgery & Arthroscopy,” a three-day annual conference in Delhi, India which benefited more than 800 orthopedic surgeons, fellows, residents, physical therapists, and other orthopedic professionals. Content is now available through HSS eAcademy.

- 130 hospital staff from five hospital partners in China and South Korea participated via video conference in the real-time **Arthroplasty and Sports Grand Rounds**, held at the HSS New York City campus. During these meetings, surgeons from Asia shared complex cases for discussion.
Arthritis Knowledge for All to Share

People no longer have to come to HSS to receive musculoskeletal education: a playlist on the HSS YouTube™ channel for the public features a series of short educational videos on osteoarthritis (OA). Working with Rehabilitation, Nutrition, and Nursing, Public & Patient Education developed five videos from each area on OA management. Our supporting YouTube marketing campaign in 2019 garnered more than 10,000 views, ensuring these videos help improve the quality of life for tens of thousands of individuals globally. The launch of the Health Video Library on the HSS website, the incorporation of four livestreamed programs, and online exercise classes further expand program accessibility to visitors from across the globe.

Supporting Resource-Limited Nations

The Global Education Council launched the Humanitarian Initiatives Program. Managed by Global Partnerships, this program aims to improve musculoskeletal care in resource-limited nations. The program will support one to two service- and outcome-based projects annually that promote sustainable knowledge transfer in the area of musculoskeletal health. In 2020, the Global Health Initiative (GHI)—founded in 2012 by HSS anesthesiologist Swetha Pakala, MD—is the first project to receive Humanitarian Initiatives Program support. The GHI aims to teach regional anesthesia to physicians in resource-limited nations and helps them learn how to instruct their colleagues so more patients can benefit from this less expensive form of anesthesia. In recognition of this work, Dr. Pakala was honored in 2019 with the first Leon Root, MD, Community Service Award, which recognizes individuals who have made significant contributions to the community by leading initiatives that improve the health of underserved populations.
Publications, Presentations, and Awards

Notable Publications

HSS Journal®: The Musculoskeletal Journal of Hospital for Special Surgery, has published 38 issues since its launch in 2005. Nearly 60,000 issues are mailed each year and half a million full-text articles are downloaded. In October 2019, the journal featured a special section on “Rehabilitation and Musculoskeletal Health.” Experts from around the country contributed original research and review articles addressing such topics as telerehabilitation after total joint replacement, exercise in women with osteoporosis, and “pose avoidance” vs. hip precautions after posterior-approach total hip arthroplasty.

In 2019, our professional newsletters, HSS OrthoLink®, HSS RheumLink®, HSS RehabLink, and GlobalLink, reached more than 7,000 professionals, and Grand Rounds from HSS–Management of Complex Cases was mailed to over 8,900 recipients.

National Presentations

- **Justin Dufresne, CST**, Manager of the Bioskills Education Laboratory, presented “Integrating Bioskills Education into the Assessment of Current and Prospective Residents in Psychomotor Skills Aptitude” on the Expert Educator Panel at the American College of Surgeons Annual Surgical Simulation Summit in March 2019.

- **Pamela Villagomez, MPA**, Manager, Stamford Education Initiative, presented at meetings of the Connecticut Public Health Association and American Public Health Association on “Best Practices for Implementing Musculoskeletal Health: Community-based Interventions for Diverse and Low-income Populations.”

- An abstract by HSS orthopedic surgeons on “Subspecialty Rotation Exposure Across Accreditation Council for Graduate Medical Education-Accredited Orthopaedic Surgery Residency Programs” was selected by the American Orthopaedic Association (AOA) and the Journal of Bone & Joint Surgery as one of the top 10 abstracts at the 2019 Summer CORD Conference.

- **Karla Felix, PhD**, Director, GME Curriculum and Evaluation, made research presentations at the Sigma Global Nursing Excellence Creating Healthy Work Environments Conference, the ACGME Annual Educational Conference, and the American College of Surgeons Surgical Simulation Summit. “Surgical Games: A Simulation-Based Structured Assessment of Orthopaedic Surgery Resident Technical Skill” won “Best in Show” at the latter meeting.
Bridget Jivanelli, MLIS, presented at the Medical Library Association Conference on "Fast Track to Consensus with SR Express: Elevating Systematic Review Partnerships."

Robyn Wiesel, MCHES, Associate Director of Public and Patient Education and Titilayo Ologhobo, MPH, Associate Director of Outcomes, presented at the American College of Rheumatology Annual Meeting in Atlanta on "Engaging Patients in Needs Assessments: Effective Self-Management Programming." They also presented to a study group on "Best Practices in Developing Self-Management Education Programs for Patients."

At the American Public Health Association Annual Meeting in Philadelphia, Robyn Wiesel, CHES, Linda Roberts, LCSW, Pamela Sanchez-Villagomez, MPA, Maggie Wimmer, and Claudia Zurlini presented and Sandra Goldsmith, MA, MS, RD, moderated a symposium on community-based interventions in aging populations. Titilayo Ologhobo, MPH, also presented on assessing parents’ needs in enrolling their children in organized sports.

Linda Roberts, LCSW, presented a poster called “Empowering Older Adults in Healthcare Settings: Communication Skills Training for Surgical Residents” at the Gerontological Society of America’s Annual Scientific Meeting in Austin, Texas.

Laura Robbins, DSW, presented at the 14th Annual Congress of Chinese Orthopaedic Association on “The Education Institute at HSS.”

Resident Highlights

Senior Resident Lauren Wessel, MD, received a $10,000 ACGME Back to Bedside grant to implement a patient encounter tool designed to help residents and fellows find meaning and joy in their work. She also won first place at the New York Regional Orthopaedic Research and Education Foundation Resident Research Symposium for her clinical research project entitled “Standardized Perioperative Patient Education Decreases Opioid Use after Hand Surgery.”

Francis C. Lovecchio, MD, received the Andrew N. Swanson, MD, Alumni Traveling Fellowship to complete a two-week fellowship with the Foundation of Orthopedics and Complex Spine (FOCOS) Clinic in Ghana.

Awards and Accolades

HSS print and online communications produced by Education Marketing & Digital Communications won external awards for design and content in 2019, including:

- Four Aster Awards, including a Gold Award for the Education to Empowerment Fall 2018 calendar and the Fall 2018 Alumni News magazine; Silver Awards for the HSS Sneaker Program newsletters and the Advances in Hip Preservation course mailer
- Apex Award of Excellence for the HSS Sneaker Program newsletter series
- Three awards from the GD USA American Inhouse Design Awards for HSS Report to the Community 2018, HSS Alumni Association 100th Annual Meeting collateral, and the Education to Empowerment Spring 2019 calendar
### Statement of External Funding Support

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>2019</th>
<th>2018</th>
<th>2017</th>
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<td>Academic Visitor Program Fees</td>
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* Other funding sources include royalties and contributions from the HSS Education Institute and other HSS services.
2019 External Funding by Source

- **18%** Foundation Grants
- **12%** Global Partnerships
- **19%** Special Events
- **12%** Commercial Development Fees (BSEL)
- **7%** Corporate Grants
- **7%** Exhibit Fees
- **8%** Endowments
- **2%** HSS Alumni Association Dues
- **2%** Other Funding Sources*
- **3%** Individual Donations
- **7%** Registration Fees

*Other Funding Sources include various smaller contributions from different sources.
2019 Education Institute Donors

Corporate Grants
Arthrex
DePuy Synthes
Exactech
JRF Ortho
NuVasive
OMeGA
Smith & Nephew
Stryker
Zimmer Biomet

Sponsorships
Cerapedics, Inc.
Heraeus Medical
Johnson & Johnson
Medtronic
NuVasive
ShoulderSphere
Teurma BCT

HSS Alumni Association Fund
Michael J. Battaglia, MD
Jacob G. Calcei, MD
Joseph C. DeFiore, Jr., MD
Matthew Hansen, MD
Peter J. Millett, MD, MSc
Krishne Urs, MD
Christopher Wottowa, MD
The Thomas P. Sculco & Cynthia D. Sculco Foundation

HSS Alumni Association President Fund
Gary M. Gartsman, MD

Archive Committee Fund
Dara Levine-Hillis & Brad Hillis
David B. Levine, MD
Mr. & Mrs. Joshua P. Levine
Alexander S. McLawhorn, MD, MBA
The Thomas P. Sculco, MD, & Cynthia D. Sculco Foundation
Laura & Steven Robbins
Jose A. Rodriguez, MD

Todd Albert, MD
Academic Leadership Award Fund
Dr. Todd J. and Barbara M. Albert

Georgette “Gigi” Viellion, RN, ONC
Endowed Orthopaedic Nursing Education Scholarship Fund
Robert Willard Millgram
Laura & Steven Robbins

Leon Root, MD
Pediatric Outreach Program Fund
Eileen A. Clinton
The Marc Haas Foundation
HSS Employee Activities Committee

Foundation Grants
American Orthopedic Foot & Ankle Society—Wright Medical Fellowship Scholarship Fund
AO North America Charitable Foundation
Center for Orthopaedic Trauma Advancement
Stavros Niarchos Foundation
The Louis and Rachel Rudin Foundation, Inc.

Public & Patient Education Fund
Ms. Amy Horowitz

Community Service Award
Anonymous

Greenberg Academy for Successful Aging
HSS Employee Activities Committee

HSS Sports Injury Prevention Program*
James G. Dinan and Elizabeth Miller

SNEAKER®
Charina Foundation, Inc.
Richard and Ronay Menschel

Bioskills Education Laboratory
Acumed
BodyCad
Corin
Crossroads Extremity System
Daxcom
DePuy Synthes
DJO Surgical
DuraStat
Exactech
Extremity Medical
Globus Medical
ICONN Orthopedics
IlluminOss Medical Inc.
Inspire Medical Systems
Integra Life Science
Medacta
MedEd Lab
Medline Unite
Medshape
Medtronic
Misonix
MoxiMed Inc.
NovaStep
OrthAlign
OsteoCentric Technologies
Royal Biologics
Skeletal Dynamics

Smith & Nephew
Stryker
TriMed
United
Vericel Corporation
Zimmer Biomet

Kim Barrett Memorial Library Fund
Metropolitan New York Library Council

HSS eAcademy®
AlterG

In-Kind Support
Canon Medical Systems
DePuy Synthes
GE Healthcare
Konica Minolta
MFT Biologics
NuVasive
Samsung Neurologica
Smith & Nephew
Vericel Corporation

Special Events
Autumn Benefit
HSS Employee Activities Committee
Scleroderma Foundation Forum

*In alignment with HSS strategic initiatives, the Sports Injury Prevention Program has transitioned to the Sports Medicine Institute under the direction of James Kinderknecht, MD, Andrew Pearle, MD, Robert Marx, MD, MSc, FRCS, and John DiFiori, MD, FACSM.
Hands-on learning lab at the Bobby Menges Memorial Limb Deformity Course
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Austin T. Fragomen, MD, demonstrates in a hands-on lab session at the Bobby Menges Memorial Limb Deformity Course.