

The HSS logo consists of the letters 'HSS' in a white, bold, sans-serif font, centered within a solid blue square. The background of the entire image is a photograph of two surgeons in an operating room, wearing blue scrubs, blue bouffant caps, and clear face shields. They are looking intently at something off-camera to the right. The lighting is bright and clinical, with a large surgical light fixture visible in the background.

HSS

Excellence Amplified

Global impact through international
partnerships, patients and education.

“

At HSS, we are dedicated to providing the best care possible for our patients. The collaborations we have in place with partners across the world help us to achieve this mission through knowledge-sharing, best practices and innovation in musculoskeletal care.”



Louis A. Shapiro, President & CEO

“



As a global leader in musculoskeletal health, we are committed to not only discovering and implementing the best methods of care, but also using our knowledge to help others around the world. This is how we can help ensure the best outcomes for patients everywhere.”

Bryan T. Kelly, MD, MBA,
Surgeon-in-Chief & Medical Director

On the cover:
The annual HSS-Stavros Niarchos
Foundation Orthopedic Seminar
Program 2019

A Message



Laura Robbins, DSW

As we write this note to you—our global community of supporters, partners, and patients—we are in the midst of coping with the novel coronavirus (COVID-19) worldwide pandemic. We truly hope that you are all staying safe and healthy and looking ahead, as we are, to overcoming this health crisis.

While this evolving situation has had unforeseen implications on our international interactions this year, it's important to recognize the significant impact that Hospital for Special Surgery (HSS) has had on orthopedic care to date. With more than 150 years of experience as a global leader in orthopedics, rheumatology, and rehabilitation, HSS continues to focus on its mission to elevate the standard of musculoskeletal care around the world.



Mathias P.G. Bostrom, MD

We are proud of the success stories featured in our Global Impact Report. They illustrate our efforts to create cultures of excellence through innovative partnerships with forward-thinking centers domestically and abroad. These collaborations enable us to share our comprehensive knowledge and cutting-edge expertise in musculoskeletal care, utilize best practices to enhance organizational performance, and improve patient outcomes in local communities and beyond.

You'll also hear from one of our international patients from the Dominican Republic who describes in her own words how her life has been improved by the compassionate, expert orthopedic care she received from her HSS physicians.

We also spotlight HSS graduate academic programs and resources that raise the level of international orthopedic education and training and increase access to high quality, trusted care through providers affiliated with HSS.

Perhaps most notably, we also highlight our special humanitarian initiatives to aid vulnerable populations in low-resource countries that are in great need, particularly in the area of musculoskeletal health.

We are closely monitoring the COVID-19 situation around the world. We are committed to building on the global impact of our international programs and will continue to work tirelessly to propel them forward in the months and years to come.

Be safe, and we look forward to continued work with our partners.

Laura Robbins, DSW

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Education Institute & Global Affairs
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HSS eAcademy®

International Patients

HSS serves people from around the globe who seek orthopedic and rheumatologic care.

Our dedicated staff facilitates the clinical and related needs of non-US patients and their families with cultural sensitivity, ensuring superior care, personal attention, and a supportive experience.

Volume and Geographic Diversity

In 2019, HSS hosted 1,506 unique patients from 89 countries. Among them, 582 people received surgery at HSS. More than half of those patients were from the Dominican Republic, Kuwait, Mexico, Qatar, and the United Arab Emirates.

International Liaisons

International liaisons represent HSS abroad and are the face of the institution in their country. HSS has established international liaisons in the Dominican Republic, Turkey, Peru, Guatemala, and Ecuador.

Liaisons play a key role in raising awareness of HSS and its services among physicians and the public and increasing the flow of patient referrals. They also plan and execute local events to help promote HSS.

Importantly, liaisons are dedicated to ensuring that each patient experiences a seamless transition from local care to HSS. They are responsible for facilitating physician referrals; arranging appointments with appropriate HSS experts; gathering medical records; confirming insurance or payment information; preparing patients for travel; and coordinating follow-up visits and communication with HSS physicians.

1506

unique patients

89

countries

582

received surgery
at HSS

PATIENT STORY

Staying in the Game with Non-Invasive Care

The people HSS cares for often take the time to share their positive experiences and successful outcomes.

Here is one compelling example.

Thanks to the care she received at HSS, Yvonne Losos de Muñiz was able to complete a successful competition season in equestrian dressage.



Yvonne Losos de Muñiz traveled to HSS from the Dominican Republic in 2018 to address pain in her shoulder. Dr. Anne Kelly, an orthopedic surgeon, and Dr. Vladimir Kramskiy, an anesthesiologist, worked together to manage her pain without surgery.

I am a professional athlete, and my sport is an equestrian discipline called dressage. I compete internationally and have represented the Dominican Republic in the Olympics.

In 2018, I was preparing for the Central American and Caribbean Games, a regional championship to be held in Colombia that summer. I began experiencing intense pain in my right shoulder, which gradually worsened until I questioned my ability to participate in the Games. Fortunately, I had a positive experience with HSS when my husband was a patient there. I contacted Laura Porcella de Mayol, the hospital's international liaison for the Dominican Republic. She quickly coordinated a visit with Dr. Kelly, who had operated on my husband a few years ago.

Dr. Kelly worked with Dr. Kramskiy to determine the correct diagnosis and manage my pain. It turned out to be a frozen shoulder caused by damage in my shoulder joint. They opted for a noninvasive approach and were able to help me recover functionality and range of motion in time for the summer event. I was able to participate in the Games, winning two individual gold medals and a team silver for my country. Afterwards, I worked at home with a physiotherapist and have since completed a successful competition season.



I may eventually need surgery to completely resolve my condition, but thanks to Drs. Kelly and Kramskiy, as well as the staff at HSS, I have been able to stay in the game and earn my medals!

Yvonne Losos de Muñiz
Olympic dressage athlete, Dominican Republic



Yvonne Losos de Muñiz (right) during a follow-up appointment with Dr. Anne Kelly, her orthopedic surgeon.

Philanthropy with a Global Impact

HSS is honored to receive crucial support for its international programs from a number of generous philanthropists. In 2019, the following donors made a significant impact in the institution's efforts to improve musculoskeletal and orthopedic care around the world.

STAVROS NIARCHOS FOUNDATION

As one of the world's leading private, international philanthropic organizations, the Stavros Niarchos Foundation (SNF) funds projects that aim to achieve a broad, long-lasting, and positive impact on society.

More than a decade ago, the SNF first partnered with HSS to establish fellowships and seminars for surgeons practicing in Greece with the ultimate goal of improving healthcare in the country. To date, more than 100 Greek orthopedists have participated in the annual HSS-Stavros Niarchos Foundation Orthopedic Seminar Program and the HSS-Stavros Niarchos Foundation Academic Visitor Program for junior faculty. Moreover, seven orthopedic surgeons have completed one- or two-year Stavros Niarchos Foundation–Thomas P. Sculco, MD, International Orthopaedic Fellowships.

These professional education programs allow Greek orthopedic surgeons at various points in their careers to be fully engaged in the HSS environment. By taking part in courses and lectures, research, live surgery observations, and hands-on cadaveric training, orthopedic surgeons working at HSS and in Greece build enduring relationships. They are a model for global training programs at HSS, immersing the visiting surgeons – typically early in their careers – in the high-volume joint replacement environment at HSS, with the ultimate goal of making a broad impact on global musculoskeletal care.

In 2018, HSS received an unprecedented grant from the SNF to establish the Stavros Niarchos Foundation Complex Joint Reconstruction Center (CJRC). The SNF CJRC is the first of its kind in the world – a center providing the best care for patients needing complex primary joint replacement and revision surgery, while leading research on the prevention



and treatment of complex joint conditions. Over the past year, the SNF CJRC has treated 780 patients; pushed the boundaries of medicine through eight novel research projects and two cross-departmental initiatives targeting causes of implant failure; and hosted four international fellows. Additionally, the SNF CJRC forged important collaborations through the hosting of two major research conferences that encompassed multiple disciplines and continents.



The partnership and generosity of the Stavros Niarchos Foundation has been pivotal in the development of this unique center, which cares for patients with the most complex joint conditions and supports basic science and clinical research in the treatment and prevention of joint replacement failure.”

Thomas P. Sculco, MD
Director of the Stavros Niarchos Foundation Complex Joint Reconstruction Center

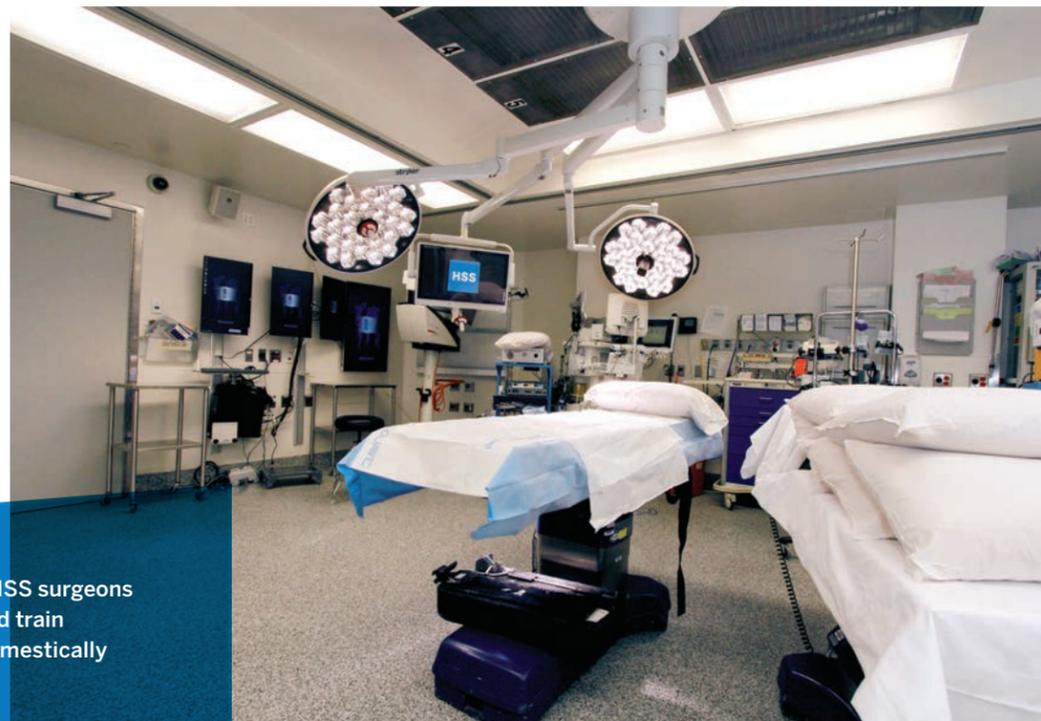
RITA AND GUS HAUSER

Drawing upon Gus Hauser's experience as a pioneer in the cable industry, Rita and Gus Hauser spearheaded an initiative to establish the HSS Telepresence.

Using internet-based video technology to create an immersive operating room experience and to enable face-to-face meetings across global locations, the Telepresence allows HSS surgeons to collaborate with and train physicians located domestically and internationally, while remaining within the walls of the Hospital.

The project involves the integration of six state-of-the-art operating rooms, as well as enhancement of the Richard L. Menschel Education Center. The Hausers' visionary support has been revolutionary for HSS surgeons, who now have the ability to broadcast live – via video conferencing from our operating rooms, the Menschel Center, and other areas within the Hospital – to anywhere in the world. This avoids prolonged and costly travel and maximizes their productivity at home.

As the leader in musculoskeletal medicine, HSS receives over 400 annual requests for training from experts in more than 50 countries. The Hausers' primary interest was to enhance the Hospital's educational reach and to ease connections with people all over the world. Since being introduced, the HSS Telepresence has facilitated exciting new international partnerships with experts at top universities and medical centers in over 125 different countries.



Telepresence allows HSS surgeons to collaborate with and train physicians located domestically and internationally.

MARINA KELLEN FRENCH

HSS trustee Marina Kellen French, Vice President of the Anna-Maria and Stephen Kellen Foundation, understands the impact that research can have on improving the lives of countless people suffering from orthopedic and rheumatic conditions.

Ms. Kellen French and her family's foundation have provided visionary support of initiatives at HSS to fuel scientific advances, fund investigators, and support collaborations in research and education that will shape musculoskeletal care for patients across the globe.

In 2010, she established the Anna-Maria and Stephen Kellen Clinician-Scientist Career Development Award program to provide clinicians and scientists with the time and resources to lead studies that connect discoveries in the laboratory to clinical observations that will improve treatment and may one day cure musculoskeletal diseases. This extraordinary support has aided an entire generation of researchers at HSS and furthers our contributions to the international medical community.

Her vision and generosity initiated a multipronged research effort and collaboration between HSS and the Mayo Clinic to study the underlying cause of arthrofibrosis, a potential complication of total knee replacement that causes debilitating pain and stiffness. Findings from this research could help surgeons better identify patients at risk of developing complications after surgery, and potentially be used to identify targeted treatments to prevent them.

Ms. Kellen French and the Anna-Maria and Stephen Kellen Foundation have also been instrumental in advancing research and education efforts of the Stavros Niarchos Foundation Complex Joint Reconstruction Center, led by Thomas P. Sculco, MD. This includes underwriting an international symposium in collaboration with the Musculoskeletal Infection Society (MSIS) focused on bacterial biofilm – an infection caused by a treatment-resistant layer of microorganisms that can stick to the surface of a joint or implant.

Most recently, Ms. Kellen French made a commitment to establish the Marina Kellen French Chair in Complex Joint Reconstruction to advance orthopedic education and research, specifically in the areas of complex joint replacement and revision surgery. Funding from the Chair will be used to generate and share breakthroughs in the treatment of these conditions with residents, fellows, and visiting surgeons who come to HSS for training, as well as with the international orthopedic community.



Nearly 50 national and international faculty in orthopedics, infectious disease, and translational science attended the Biofilm Symposium in 2019 to discuss current areas of research and practice as it relates to managing biofilm in perioperative joint infection.



High school students in the HSS Bioskills Education Lab as part of the Perry Initiative which inspires young women to be leaders in the fields of orthopedic surgery and engineering.

S & L MARX FOUNDATION

Thanks to the transformative philanthropy from the S & L Marx Foundation, HSS Bioskills Education Laboratory (BSEL) is providing the highest level of hands-on training for the next generation of leaders in orthopedic surgery.

Originally established in 2000 as a laboratory space for cadaveric dissections, the BSEL at HSS has doubled in capacity with the S & L Marx Foundation's partnership. Now residents are able to take part in anatomical procedures, handle power instruments, work with the latest arthroscopic simulators, and try out different surgical approaches.

Part of BSEL programming includes the Perry Initiative, which provides twenty high school age girls with the opportunity to spend an immersive day with HSS female orthopedic surgeons, residents, fellows, and engineers. Four to six times a year, HSS alumni worldwide are invited to return and facilitate a special lab with residents and fellows. This exposes trainees to additional expertise and broadens their practice approach. These programs build community among current and past residents and allow them to learn from each other.

Funding from the S & L Marx Foundation also enabled the addition of the latest equipment and technology, including state-of-the-art videoconferencing. With the impact of the COVID-19 pandemic, this capability will be vitally important in enabling the BSEL to expand its educational offerings on a global scale by streaming educational seminars and anatomy workshops.



Participants engage in a breakout session in the BSEL with Andreas H. Gomoll, MD, at the 2019 HSS Patellofemoral Course.

COVID-19 Relief: Global Contributions to HSS



The coronavirus (COVID-19) pandemic has had an unprecedented impact on the international health care community. HSS, along with many other New York City area hospitals, has risen to meet the extraordinary demands and challenges brought by the surge of people infected with the virus in a short amount of time.

As HSS continues to deliver nothing less than exceptional care to its patients, we are grateful for the generosity of individuals and organizations from around the world who have contributed funds, supplies (including personal protective equipment), and other resources and assistance to help support our staff and facilities during this ongoing crisis.

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Bo Yang, MD, Peking Union Medical
Colleague Hospital
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Shanxi Medical University
Dejie Fu, MD, The First Affiliated Hospital
of Army Medical University (Southwest
Hospital)
Yanguo Qin, MD, The Second Hospital of
Jilin University
Li Sun, MD, Guizhou Provincial People's
Hospital
Di Qin, MD, The Third Hospital of Hebei
Medical University
Yufeng Liu, MD, PLA 301 Hospital
Bin Feng, MD, Peking Union Medical
Colleague Hospital
Yaohua He, MD, Shanghai Sixth People's
Hospital
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Central South University
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Hospital of Qingdao University
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Xuhua Lu, MD, Shanghai Changzheng
Hospital
Jun Fei, MD, Daping Hospital
Yu Wang, MD, Dongwan People's
Hospital, Puji Branch
Xiaodong Huang, MD, The Third
Affiliated Hospital of Guangzhou Medical
University
Haibin Wang, MD, First Affiliated Hospital
of Guangzhou Chinese Medicine
University
Meng Li, MD, Gansu Province People's
Hospital
Jun Yang, MD, Shanghai Changzheng
Hospital
Tong Liu, MD, Jilin University,
China-Japan Union Hospital
Jianlin Zuo, MD, Jinlin University,
China-Japan Union Hospital
Qing Jiang, MD, Nanjing Drum Tower
Hospital
Dongquan Shi, MD, Nanjing Drum
Tower Hospital
Jenny Zhang and Olivia Zhang
Peter Wu
Zhihan Li and Yumi Dong
Yao Yu
Wan Chao
Yang Qingsong
Tian Zhou
Yan Tian
Chunbao Shi

Global Partnerships

HSS works with individuals and institutions from around the world to elevate the standard of musculoskeletal care in their communities and beyond. Subject matter experts at HSS in various musculoskeletal disciplines help individuals build skills and organizations grow and optimize practices to enhance the delivery of care and the patient experience.



“ I am very pleased to join this conversation. Sharing our experiences in handling this issue is very important to all of us and the HSS faculty will definitely provide us guidelines about the COVID-19 and the orthopaedic patient.

Leonidas Dimopoulos, MD
HSS-Stavros Niarchos Foundation
Academic Visitors Program, Fall 2019

HSS Orthopedic Knowledge Exchange

The HSS Orthopedic Knowledge Exchange enables HSS to help its global partners expand their knowledge around best practices and the latest treatment techniques in musculoskeletal care.

Knowledge Exchange Efforts during COVID-19

During the COVID-19 pandemic, HSS has founded its crisis response on an attitude of openness and transparency from the leadership team in connecting and communicating with our global partners. On the road to addressing the crisis in New York City, HSS has remained committed to its mission of being the most trusted educator, striving to meet our global network's educational needs in musculoskeletal health, quickly and proactively.

Sharing and Learning From Each Other

In the absence of in-person engagement and programming, HSS has ensured its professional colleagues and global community have access to the latest virtual professional education resources, including complementary webinars through HSS eAcademy on Rehabilitation Grand Round Lectures, and curriculum series telling the story of how HSS responded to the COVID-19 pandemic with swift and urgent resolve.

The long-term relationships we have established with orthopedic professionals around the world has empowered HSS to learn directly from countries that encountered the crisis ahead of the United States. Several conversations took place to promote the exchange of knowledge during the pandemic crisis.

- HSS took part in the Global Online Sharing on Fighting COVID-19, organized by Fosun Healthcare Group. Laura Robbins, DSW, discussed the COVID-19 situation in New York City and at HSS.
- The HSS Adult Reconstruction and Joint Replacement Service's Return to Normal Committee members, led by Mathias Bostrom, MD, met with faculty from the National University Hospital in Singapore on its unique COVID-19 management experience.
- HSS surgeons and anesthesiologists connected with the Third Hospital of Hebei Medical University on their experiences with COVID-19. In the meeting, experts from China discussed managing newly designated COVID-19 hospitals in Wuhan, China. The meeting also covered the testing protocols and measures for screening and operating on COVID-19 patients.
- HSS hosted several Global Conversations with HSS International Ambassadors and International Society of Orthopaedic Centers (ISOC) members. Surgeons from Greece, India, Italy, and Spain, among others, shared the situation in their respective countries and hospitals, the strategies applied to flatten the curve, and their preparedness to return to a new normal. HSS also shared guidelines, strategies, and plans with partners in preparation for resuming elective surgeries.



Academic visitors from Greece observe a surgical procedure.



In 2019, HSS hosted four program participants who observed clinical care and complex operations performed by 20 surgeons across four services: Adult Reconstruction and Joint Replacement, Hand and Upper Extremity, Foot and Ankle, and Sports Medicine. They also attended academic symposiums and seminars and had opportunities to network and establish relationships with HSS surgeons and other leaders in the field of musculoskeletal health.

“During my observership at HSS, the attendings shared their experiences, knowledge, and way of thinking, and I can now systematically approach complex cases like they would,” said **Lazaros Kostretzis, MD**, G. Gennimatas General Hospital in Thessaloniki, Greece. “The knowledge and experience I gained has made me more confident so I can guide and advise young residents,” he added.

“It has been a great experience to see how a major hospital operates, and to be exposed to innovative technology, like robotic surgery, that we don’t have at home,” noted **Leonidas Mitrogiannis, MD**, University of Ioannina, Greece.

HSS-Stavros Niarchos Foundation Orthopedic Seminar Program

The HSS-SNF Orthopedic Seminar Program is a five-day seminar designed to teach surgeons practicing in Greece the latest techniques and innovations in orthopedic surgery.

The 13th Annual HSS-SNF Orthopedic Seminar took place during the first two days of the 2019 program. It was attended by 16 orthopedic surgeons from Greece and focused on the latest advances in the management of primary joint replacement complications. Sixteen HSS faculty members and a guest lecturer, **Lazaros Poultsides, MD**, used a variety of teaching methods to demonstrate the complexities of surgery and advanced surgical techniques. The seminar included a combination of didactic sessions, case studies, roundtable discussions, cadaveric training workshops, and operating room observations.

Lectures were livestreamed via Global Partnerships’ exclusive content page on HSS eAcademy®, the HSS online learning platform. The technology provided viewing privileges for surgeons who participated in 2017 and 2018 Orthopedic Seminar or the Academic Visitor Programs. These recorded lectures are also posted as on-demand videos to provide access to all previous SNF participants.

During the last three days of the program, seminar participants attended the HSS Annual Holiday Knee & Hip Course, a Continuing Medical Education (CME)–accredited professional education program taught by more than 65 HSS faculty and guest educators. The course offered a comprehensive overview of adult reconstruction and provided critical updates on surgical techniques and materials, best practices for pre- and post-operative care, and strategies for efficiency and accuracy in the operation room.

HSS-Stavros Niarchos Foundation Academic Visitor Program

The Stavros Niarchos Foundation (SNF) supports the educational advancement of Greek orthopedic surgeons through a partnership with HSS. The HSS-SNF Academic Visitor Program supports Greek surgeons who are embarking on their careers in orthopedics by exposing them to a world-class orthopedic hospital early in their training. HSS establishes long-term connections with participants for an ongoing positive impact on the care of patients in Greece.

The goal of this program is to advance the knowledge and skills of junior faculty who are about to complete or have just completed their residencies through a structured two-month observership at HSS in the spring or fall.

HSS has hosted twelve academic visitors from the program since 2017. Participants have been able to observe patient care and complex surgeries in state-of-the-art operating rooms, participate in Grand Rounds and other professional education programs, and engage in hands-on cadaveric training. Through this program, participants learn best practices in orthopedic surgery and interact with orthopedic experts who are working on cutting-edge advancements.

“It was a once in a lifetime experience that helped me so much to improve my knowledge and surgery skills, especially in the field of Joint Reconstruction.”

Dr. Christos Christoforidis
Orthopedic surgeon at KAT Hospital, Athens
(2019 SNF Seminar participant)



The HSS-Stavros Niarchos Foundation Orthopedic Seminar Program.

Ranawat Orthopedic Conference

The Winter Meeting of the Ranawat Orthopedic Conference (ROC), "Advances & Techniques in Joint Replacement Surgery and Arthroscopy," is a three-day conference co-sponsored by HSS and the Ranawat Orthopedic Research Foundation.

The annual event is led by HSS faculty along with professors and surgeons from renowned institutions in India. Orthopedic surgeons, fellows, residents, physical therapists, and other orthopedic professionals from India attend the conference, which aims to advance their knowledge and skills. ROC meetings are live-streamed and recorded via HSS eAcademy® for audiences around the world.

The 17th Winter Meeting was held in February 2019 in Delhi, India. The conference focused on pain management, new implant designs and materials, and innovative methods of integrating technology into the joint replacement surgery. Attended in person by more than 800 orthopedic healthcare

professionals and via livestream by 4,877 individual participants, over the three-days of the program, the sports- and arthroplasty-focused educational sessions included topics on recent developments in robotic surgery, computerized navigation, cementless total knee replacement, and unicondylar knee replacement.

The 18th Winter Meeting was held in January 2020 in Mumbai, India. It also focused on pain management, new implant designs and materials, and the latest methods of integrating technology into joint replacement surgery. In addition to covering cementless total knee replacement and unicondylar knee replacement, the meeting highlighted recent advances in arthroscopic surgery, robotic surgery, and computerized navigation.



HSS in China

For more than 20 years, HSS has conducted academic programs in partnership with Chinese institutions with the goal of promoting knowledge transfer to specialists in musculoskeletal health in China.

Clinical Observers

This program provides a unique opportunity for Chinese orthopedic surgeons and trainees to participate in structured observational experiences. Qualified applicants from medical centers throughout China spend one to eight weeks in New York observing surgical and clinical care in HSS operating rooms and outpatient clinics.

Since 2013, 76 participants have gained valuable knowledge and experience through these opportunities led by HSS faculty from the following hospital services: Adult Reconstruction and Joint Replacement; Spine; Foot and Ankle; Sports Medicine; Anesthesiology; and Rehabilitation.

In 2019, HSS hosted 14 clinical observers from China. Several commented on the positive impact of the program.

"My training at HSS has improved my skills in everything from surgery to perioperative care," noted **Xiang Li, MD**, of The General Hospital of People's Liberation Army (301 Hospital).

"This is such an excellent program...every joint surgeon should visit HSS at least once in a lifetime," said **Guangheng Li, MD**, of Shenzhen People's Hospital.

"It was an unforgettable and meaningful learning experience," observed **Baochao Ji, MD**, of The First Affiliated Hospital of Xinjiang Medical University. "This program has made a great contribution to the development of orthopedics in China."

HSS China Club

The HSS China Club includes more than 120 orthopedic surgeons who have visited from China through the junior faculty observation program, the research program, and the academic visitor program. The club offers members networking opportunities and access to HSS educational programs held in the US and China.

Symposia Held in China

For more than a decade, HSS faculty have lectured on musculoskeletal health in China. HSS has been invited to offer courses at Chinese orthopedic conferences on Adult Reconstruction and Joint Replacement, Sports Medicine, Spine, and Rehabilitation. These comprehensive courses have impacted many Chinese orthopedic professionals.

In 2019, the annual HSS-Peking University Symposium entered its sixth consecutive year. In November 2019, the Arthroplasty and Spine Symposia, which were co-developed by HSS, Peking University and Peking Union Medical College Hospital, were held in Beijing; courses co-developed by the Chinese Orthopaedic Association (COA) and the HSS Arthroplasty and Spine Services were held in Shanghai.

In addition, HSS faculty and staff presented at the COA Arthroplasty and Sports Medicine Forums to share their experience and expertise.

Orthopedic Surgical Grand Rounds

Orthopedic surgeons from institutions in China are invited to participate in the Grand Rounds held at the HSS main campus in New York City via live video conferencing. It allows participants to be part of real-time academic lectures and discussions of complex cases presented by HSS faculty in the Adult Reconstruction and Joint Replacement Service and the Sports Medicine Service.

Chinese faculty are welcome to present lectures and cases during Grand Rounds. This further promotes the knowledge exchange between HSS and top hospitals in China, including

- Peking University People's Hospital
- Peking University Third Hospital
- Peking Union Medical College Hospital
- The General Hospital of People's Liberation Army
- Nanjing Drum Tower Hospital



Above: The Spine Service of Peking Union Medical College Hospital participated in the HSS Global Virtual Spine Conference on Addressing the Cervical Spine: Radiculopathy, Myelopathy, and Deformity in August 2020.

At left: Faculty of The General Hospital of People's Liberation Army and Nanjing Drum Tower Hospital in China joined HSS for an ARJR Grand Rounds session on Periprosthetic Joint Infection in May 2019.



HSS Global Orthopedic Alliance

The HSS Global Orthopedic Alliance aligns with top orthopedic specialists from around the world to improve the practice of orthopedic care and advance the science supporting musculoskeletal health.



2019 Assessment at Bumin Hospital Group.



Bumin Hospital Group in South Korea

Bumin Hospital Group (BHG) became the inaugural member of the Global Orthopedic Alliance in 2015. It operates four hospitals in South Korea with a total of more than 1,200 beds. Together, they perform approximately 12,000 joint surgeries and 8,000 spine surgeries annually.

BHG has refined the management of its clinical capabilities by embracing HSS best practices and partnering with HSS on education and research efforts. This collaboration has enabled BHG to adopt an interdisciplinary care model for major surgical procedures. Bumin Hospital in Haeundae, Busan Bumin Hospital, and Seoul Bumin Hospital are among the multiple BHG facilities that HSS clinical and educational teams have helped guide through this operational transformation.

Enhancements have already been implemented and have resulted in better operating room turnover rates, more accurate case start-times, and fewer surgery cancellations and medication errors.

“We value our knowledge exchange network with HSS. This extended partnership focuses on accomplishing specific tasks in patient safety, quality, and infection management.”

Hung Tae Chung, MD
President of Bumin Hospital Group

“HSS is advancing state-of-the-art musculoskeletal care globally through research, innovation, and a variety of collaborations with quality-focused organizations such as Bumin Hospital Group.

We have a substantial responsibility and opportunity to distribute knowledge and capabilities that help consumers and providers to realize their potential.”

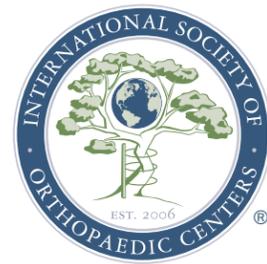
Louis A. Shapiro
President and CEO



Other Institutional Collaborations

HSS is committed to delivering the best orthopedic outcomes domestically and abroad.

9th ISOC Conference attendees gather at Skåne University Hospital in Malmö-Lund, Sweden in May 2019.



The International Society of Orthopaedic Centers, Ltd.

Founded in 2006, the mission of the International Society of Orthopaedic Centers, Ltd. (ISOC) is to facilitate the exchange of ideas and best practices among the premier orthopedic centers in the world and to collaborate on patient care, education, and research-based programs to improve orthopedic care on a global scale.

To support this mission, ISOC hosts an annual conference gathering the world's top leaders in orthopedics. The 9th ISOC Conference was held in Malmö-Lund, Sweden, in May 2019. The next conference will be held in Jerusalem, Israel, in September 2021.

ISOC by the numbers

23 members

18 countries **5** continents



Open Medical Institute (OMI) Seminar on Bone and Joint Surgery in Salzburg, Austria

HSS, in collaboration with Weill Cornell Medicine, is proud to lead the annual Open Medical Institute (OMI) Seminar on Bone and Joint Surgery in Salzburg, Austria. Operating under the auspices of The American Austrian Foundation (AAF), the OMI Seminar on Bone and Joint Surgery was founded in 1993 to share knowledge and experience with young English-speaking physicians from the former Communist world.

The OMI Seminar on Bone and Joint Surgery allows 30 to 40 competitively selected physicians, primarily practicing in Central and Eastern Europe, Central Asia, the former Soviet Union, and other countries in transition to interact with HSS and Weill Cornell staff in an academic environment that fosters both bilateral and international learning exchanges. Facilitated through the AAF, the seminar is offered pro-bono and is funded by the Austrian Federal Ministry of Science, Research and Economy, The Open Society Foundations, as well as corporate and individual donors.

Wolfgang Aulitzky, MD, Dean of International Medicine and Distance Learning and urologist at Weill Cornell Medicine, and Medical Director of the AAF, directs the overall program. **Mathias Bostrom, MD**, and **Russell Windsor, MD, PC**, work with three additional faculty members from HSS to coordinate the week-long seminar's lectures and workshops at Schloss Arenberg, a cultural and scientific center in Salzburg.

The 2021 OMI Bone and Joint Seminar will take place in April 2021.



These partnerships are a great example of our different approach to transforming healthcare.

Innovative collaboration between HSS and organizations equally committed to excellence in a focused specialty offers an alternative source of value to the trend of mass consolidation and commoditization in healthcare.”

Louis A. Shapiro
President and CEO



9th ISOC Conference, Skåne University Hospital in Malmö-Lund, Sweden in May 2019.

Humanitarian Initiatives

Guided by the pillars of its mission — patient care, research, education, and enhanced quality of life — HSS is committed to advancing global health and the delivery of humanitarian services.

HSS seeks to develop well-rounded leaders capable of providing short-term international or domestic assistance that promotes human welfare and reduces human suffering.

Humanitarian Initiatives Program

To facilitate this effort, the Humanitarian Initiatives Program was initiated by the Global Education Council, which is chaired by **Mathias P.G. Bostrom, MD**. Managed by Global Partnerships, the program aims to improve orthopedic care in resource-limited nations by supporting one to two service- and outcome-based projects annually that promote sustainable knowledge transfer in the area of musculoskeletal health.

HSS supports the delivery of care for vulnerable populations through volunteer work. HSS residents have protected academic and travel time, receive tuition support, and apply their knowledge in low-resource settings. They are strongly encouraged to take the necessary time off with pay to engage in global and domestic humanitarian service projects.

Global Health Initiative

The Global Health Initiative (GHI) was founded in 2012 by HSS anesthesiologist **Swetha Pakala, MD**. It is the first project to receive institutional support through the Humanitarian Initiatives Program. GHI aims to teach physicians in resource-limited nations about regional anesthesia and how to educate their colleagues so more patients can benefit from this cost-effective anesthetic approach. 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.



Benjamin Johnson, MD, teaches ultrasound-guided femoral nerve blocks to physicians at the Komfo Anokye Teaching Hospital in Kumasi, Ghana as part of the Global Health Initiative.

FOCOS Orthopedic Hospital in Accra, Ghana

The Foundation of Orthopedics and Complex Spine (FOCOS) was founded by **Oheneba Boachie-Adjei, MD**, the Chief Emeritus of the Scoliosis Service at HSS. The foundation provides orthopedic care to underserved populations in West Africa and other developing nations.

FOCOS Orthopedic Hospital in Accra, Ghana, is a freestanding hospital with its own full-time staff. It brings state-of-the-art orthopedic care to an area of the world where the need is great. HSS supports its goal to provide high-quality care and improve quality of life in Ghana and neighboring countries.

HSS staff members make week-long service trips twice each year to offer educational support and share best practices with the FOCOS staff. HSS teams include nurses, central sterile processing technicians, physical therapists, prosthetic technicians, procurement staff, and neuromonitoring technicians.

Upon their return, HSS teams submit reports to help prepare the next team for their service trip. This enables them to follow up on recommendations and ensures continuity of care.

Crutches 4 Kids

HSS partners with Crutches 4 Kids (C4K), a nonprofit organization dedicated to providing crutches to disadvantaged children around the world. The mission of C4K focuses on bridging the gap between crutch supply and demand in order to empower children with mobility impairments.

Providing crutches to disabled children gives them the gift of mobility, which leads to independence and enables them to attend school, use their education to gain future employment, and become active participants in the lives of their families and communities.

Beth E. Shubin Stein, MD, Associate Attending Orthopedic Surgeon at HSS and Chair of C4K, co-founded the organization with her brother and husband in 2010. Board members include HSS President and CEO **Louis A. Shapiro** and **JeMe Cioppa-Mosca, PT, MBA**, Senior Vice President of Rehabilitation at HSS.



“HSS is proud to partner with C4K and has participated in several mission trips, including to the Dominican Republic in 2017, Haiti in 2018, and El Salvador in 2019.”

Beth E. Shubin Stein, MD
Associate Attending Orthopedic Surgeon
Co-Founder and Chair of C4K



In 2019, 10 HSS faculty members made mission trips to FOCOS Orthopedic Hospital.



Graduate Medical Education



The HSS Alumni Association works to maintain the continued engagement of the hospital's domestic and international alumni. Its members, which include surgeons and other medical professionals who trained as residents and fellows at HSS, reflect the institution's renowned reputation as a global leader in musculoskeletal care. The association's ongoing efforts to support HSS alumni include educational offerings, career advancement assistance, and networking opportunities.

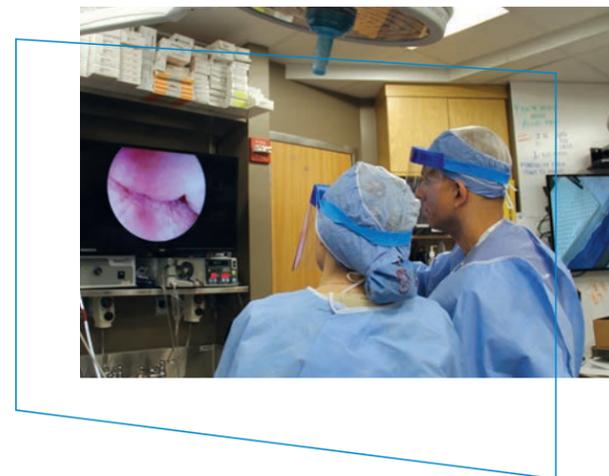
International Alumni Ambassadors Program

The HSS International Alumni Ambassadors Program (IAAP) is an outgrowth of the Hospital's vision to be recognized as an innovative source for medical care and research around the world. Alumni ambassadors are talented physicians who have completed their graduate medical education at HSS and have met the rigorous selection criteria needed in order to be considered and approved by the Alumni Affairs Committee.

Ambassadors represent HSS in their country and serve as hospital liaisons within the international medical community. They promote outreach activities and partnership opportunities, host fifth-year residents during their travel

elective, assist with the development of CME programs, and serve as HSS journal reviewers.

HSS is fortunate to have 11 international alumni ambassadors from nine different countries, including Australia, France, Ghana, Greece, Italy, Mexico, Spain, Switzerland, and Taiwan.



Dr. Niv Marom and participants in the annual HSS-Stavros Niarchos Foundation Academic Visitor Program advance arthroplasty skills in the HSS Bioskills Education Laboratory.

International Residents and Fellows

In 2019 (which includes the 2018-2019 and 2019-2020 academic years), HSS provided 21 international clinical fellows with training in the following subspecialties of musculoskeletal medicine:

- Orthopedic Trauma
- Pediatric Orthopedics
- Adult Reconstruction Surgery
- Limb Lengthening & Complex Reconstruction
- Foot & Ankle Surgery
- Rheumatology
- Neuromuscular Medicine;
- Complex Joint Reconstruction; Musculoskeletal Radiology
- Orthopedic Sports Medicine
- Orthopedic Pathology
- Musculoskeletal Radiology - Ultrasound; and Regional Anesthesiology & Acute Pain Medicine.

"The daily interaction with prominent experts in sports medicine and the hands-on surgical training I received from them provided a comprehensive learning experience that is very hard to find in other places," said **Niv Marom, MD**, a native of Israel. "I also value the Hospital's commitment to research and investment in lab resources, which gave me the opportunity to be involved in innovative clinical and basic science research during my fellowship," adds Dr. Marom, who completed his fellowship in Orthopedic Sports Medicine at HSS in July 2020. He has returned to Israel to assume an academic position as an orthopedic sports surgeon.

"The most valuable part of my experience at HSS is the number and variety of cases, the surgical expertise of the attendings, and the camaraderie in the Adult Reconstruction and Joint Replacement (ARJR) Service and the Complex Joint Reconstruction Center (CJRC)," said **Alex Greenberg, MD**, who completed his fellowship in Complex Joint Reconstruction in July 2020. "I highly recommend this fellowship because it gives you great experience and prepares you well for practice," he said, adding that it was the best professional decision he ever made.

Israel was one of 10 countries represented among the fellows who received training at HSS in 2019. Others included Brazil, Canada, Egypt, Ireland, Italy, New Zealand, Peru, Turkey, and Venezuela.

“I highly recommend this fellowship because it gives you great experience and prepares you well for practice.”

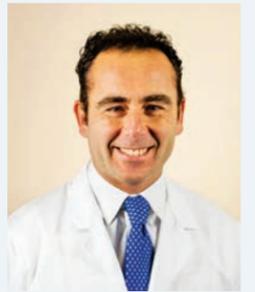
Alex Greenberg, MD
Fellow, Complex Joint Reconstruction

Pier Giorgio Marchetti, MD, Award for International Achievement

Established in 2010, this award recognizes outstanding lifetime achievement in orthopedic surgery by an international fellow who trained at HSS.

The 2020 award was presented to **Andrea Baldini, MD, PhD**, at the HSS Annual Alumni Meeting in October. Dr. Baldini is the Institute Director of the IFCA Clinic in Florence, Italy, where he has practiced as an orthopedic surgeon for ten years. With a total of more than 20 years of surgical

experience, he is an expert in advanced hip and knee arthroplasty operations, specializing in difficult primary surgeries and revision cases.



He received both his medical degree and his doctorate from the Università degli Studi di Firenze, where he also completed his residency. Dr. Baldini completed a fellowship in Hip and Knee Reconstruction and Hip and Knee Arthroplasty at HSS in 2004. He currently serves as the HSS Alumni Ambassador in Italy.

Former honorees include:

- Bassam Marsi, MD, FRCS (2016)**
- George A.C. Murrell, MBBS, MD, PhD (2015)**
- Clemente Ibarra, MD (2014)**
- Eloisa Bonfa, PhD (2013)**
- Ching-Chuan Jiang, MD (2012)**
- Michael Soudry, MD (2011)**
- Pier Giorgio Marchetti, MD (2010)**

Academic Visitor Program

The mission of the Academic Visitor Program is to enhance the knowledge and understanding of musculoskeletal health and high-quality patient care among academic visitors at HSS.

The program arranges informal, non-accredited visits that are designed for individuals wishing to observe surgical and clinical care at HSS. Observerships range from one day to two months and are largely structured according to the desires of the visitor and hosting physician.



In 2019, HSS hosted

237 international visitors from

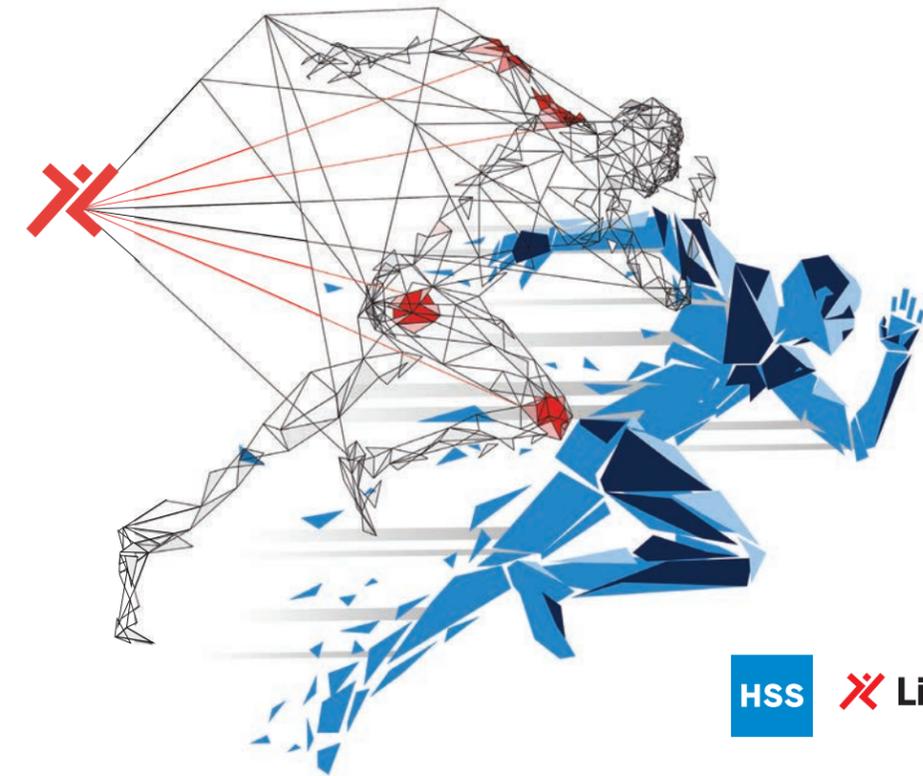
42 countries

Innovation Institute

Innovation is embedded within the mission, vision, and values of HSS.

The Innovation Institute seeks to build on the entrepreneurial and innovative culture of HSS through the identification, development, and commercialization of novel concepts and inventions by physicians, researchers, surgeons, and scientists.

The mission of the Innovation Institute is to support the creation of new, viable offerings in musculoskeletal care that improve clinical outcomes, enhance the patient experience, and/or lower the cost to deliver care in a meaningful way. Its groundbreaking collaboration with LimaCorporate illustrates this important effort.



LimaCorporate

HSS has long been an innovator in joint replacement surgery, creating the first modern knee replacement system in 1974. Now HSS surgeons and engineers are advancing the application of 3D-printed joints for orthopedic surgery.

HSS partnered with LimaCorporate, an Italian company with a decade of experience using 3D printing for orthopedic implants, to build the first-ever laboratory on a hospital campus to produce customized components for joint replacement through additive manufacturing technology.

Additive manufacturing, also known as 3D printing, offers an orthopedic solution that can be tailored to a patient's unique needs. 3D-printed components can be made to achieve specific porosities and shapes to better adhere to bone and to fit more snugly within a person's anatomy.

The FDA-regulated commercial facility will make patient-specific implants while also focusing on research and development in collaboration with HSS. "It's going to get us to 3D-printed solutions a lot faster than if either one of us tried to do it on our own," observed **Timothy Wright, PhD**, who heads the HSS Department of Biomechanics.

The promise of additive manufacturing will be especially evident in complex orthopedic conditions resulting from implant failure that would otherwise be nearly untreatable.

"The collaboration with LimaCorporate will allow us to continue to lead the way in discovering innovative ways to manage these challenging cases," said **Peter Sculco, MD**, an orthopedic surgeon at HSS who performs hip and knee replacements. In October 2019, he became the first HSS surgeon to use a 3D-printed part developed through the partnership.

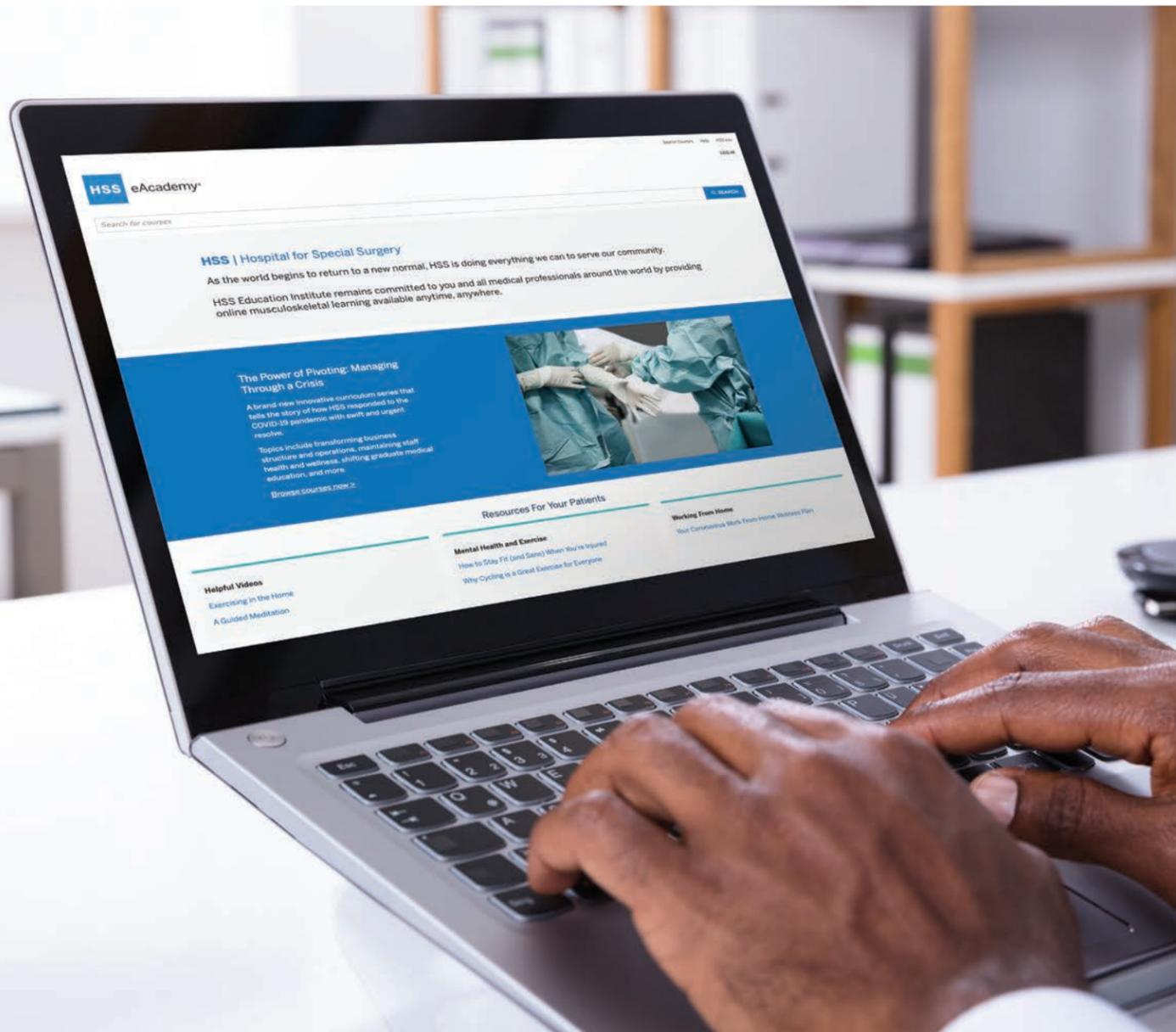
For now, Dr. Sculco remains relatively conservative in employing 3D-printed joints. However, he says that the application of 3D printing technology will grow with the development of semi-customized implants. He also expects that as the cost of these implants decreases over time, additive manufacturing will be used to solve a growing number of orthopedic challenges.

“It’s exciting to collaborate with a company that’s on the cutting-edge of orthopedic devices. We are confident that this new technology will help us improve patient care by solving problems that can’t be solved with existing technology.”

Timothy Wright, PhD
F.M. Kirby Chair of Orthopedic Biomechanics

HSS eAcademy®

Developed in collaboration with HSS faculty, the HSS eAcademy® learning platform offers one of the largest portfolios of premium, on-demand musculoskeletal content. The platform, which includes orthopedic surgical videos and conversations with experts, reaches more than 30,000 health professionals in over 130 countries.



HSS eAcademy® offers professional education courses and content to physicians, physician assistants, nurses, physical therapists, occupational therapists, athletic trainers, and healthcare professionals. The platform is also open to the public and provides access to reliable musculoskeletal content at their convenience.

It offers live programs, on-demand courses, and conversations with experts, as well as access to videos of orthopedic surgeries and procedures, grand rounds management of complex cases, and HSS journal articles and educational sources. The content covers numerous musculoskeletal specialties and also provides nursing programs and accredited content for rehabilitation professionals.

Recently featured content available online through HSS eAcademy® includes:

- Ranawat Orthopaedic Conference (2020)
- Ranawat Orthopaedic Conference (2019)
- HSS PKU PUMCH Arthroplasty Symposium (2019)
- HSS PKU PUMCH Arthroplasty & Spine Symposium (2018)
- HSS-CAOS Arthroplasty (2018)
- HSS PKU PUMCH Arthroplasty Symposium (2017)

A new mobile-optimized platform was launched in 2019 offering advanced performance, streamlined menus, personalized learner dashboards, intuitive navigation, and improved search functionality. This evolution is critical to fuel the global expansion of our academic leadership. The strategic plan to develop and market HSS eAcademy® aligns with the HSS 2025 Roadmap to sustain the hospital's reputation as an international leader in musculoskeletal health through regional growth, strengthened global partnerships, and expanded educational opportunities beyond its main campus.

To learn more and register for access to HSS eAcademy®, visit hss.edu/eAcademy.



About HSS

HSS is the world's leading academic medical center focused on musculoskeletal health.

HSS is the world's leading academic medical center focused on musculoskeletal health. At its core is **Hospital for Special Surgery**, nationally ranked No. 1 in orthopedics (for the 11th consecutive year), No. 4 in rheumatology by U.S. News & World Report (2020-2021), and named a leader in pediatric orthopedics by U.S. News & World Report "Best Children's Hospitals" list (2020-2021).

Founded in 1863, the Hospital has the lowest complication and readmission rates in the nation for orthopedics, and among the lowest infection rates.

HSS was the first in New York State to receive Magnet Recognition for Excellence in Nursing Service from the American Nurses Credentialing Center four consecutive times. The global standard total knee replacement was developed at HSS in 1969. An affiliate of Weill Cornell Medical College, HSS has a main campus in New York City and facilities in New Jersey, Connecticut and in the Long Island and Westchester County regions of New York State, as well as in Florida.

In addition to patient care, HSS leads the field in research, innovation and education. The **HSS Research Institute** comprises 20 laboratories and 300 staff members focused on leading the advancement of musculoskeletal health through prevention of degeneration, tissue repair and tissue regeneration. The **HSS Global Innovation Institute** was formed in 2016 to realize the potential of new drugs, therapeutics and devices. The **HSS Education Institute** is a trusted leader in advancing musculoskeletal knowledge and research for physicians, nurses, allied health professionals, academic trainees, and consumers in more than 130 countries. HSS collaborates with medical centers and other organizations to advance the quality and value of musculoskeletal care and to make world-class HSS care more widely accessible nationally and internationally.

hss.edu

U.S. #1 in Orthopedics 11 years in a row

Top ranked in Rheumatology

A best children's hospital in Orthopedics



Photography note: Some images were taken prior to safety practices instituted as a result of COVID-19.

For more information about HSS Global Partnerships in Education, please contact

HSS Education Institute

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