Adult Reconstruction
and Joint Replacement
Fellowship Program at
Hospital for Special Surgery
“The Adult Reconstruction and Joint Replacement Fellowship Program at HSS has been training future academic leaders in total joint replacement for more than 40 years. At Special Surgery, we are constantly striving to advance clinical care and outcomes through education and field-advancing innovation and research at the basic, translational, and clinical levels.”
The pursuit of excellence dates back to Hospital for Special Surgery’s (HSS) earliest traditions and continues to guide our present-day mission: To improve the mobility and enhance the quality of life of patients, while advancing the science of orthopaedic surgery, rheumatology, and their related disciplines through research and education. HSS’s longstanding tradition of joining promise with skill and knowledge has put generations of surgeons at the center of the creation and delivery of the most effective treatments.

The Adult Reconstruction and Joint Replacement (ARJR) Fellowship Program at HSS has trained and educated innovative and outstanding physicians to be future academic leaders in musculoskeletal clinical care, research, and teaching since its inception more than 40 years ago. Our Fellows become an integral part of the community around them through close collaboration with faculty, research staff, and all the members of the HSS care team. In addition, HSS’s affiliation with NewYork-Presbyterian Healthcare System and Weill Cornell Medical College provides Fellows with the unique resources of this rich academic and scientific community, located within walking distance of the Hospital.

During this year-long Program, Fellows are immersed in all aspects of their area of concentration where they will:

- Understand the complex pathoanatomy of joint disease;
- Understand and implement proper clinical care of patients undergoing total joint arthroplasty;
- Learn the latest techniques in joint reconstruction surgery;
- Develop surgical expertise in a variety of primary and revision settings;
- Expand presentation and teaching skills to thrive in an academic setting;
- Increase their knowledge base of arthroplasty through cutting edge research and innovative technology

Upon completion of the Fellowship Program, graduates are amply prepared to build surgical practices, focus more deeply on research, and teach at top academic medical centers and hospitals all over the country and the world. As a result, a large group of our ARJR Fellowship Program graduates, who currently work in nearly 30 states and several countries, are actively engaged in our alumni network, which continues to be an invaluable resource for our graduates as they continue their orthopaedic careers.

We hope that as you plan your future, you will consider closely our very special community, our history of standard-setting care, and all the resources that both the ARJR Fellowship Program and Hospital for Special Surgery have to offer.

Sincerely,

Mathias P. Bostrom, MD
Academic Director of Orthopaedic Surgery, Hospital for Special Surgery
Program Director, Adult Reconstruction and Joint Replacement Fellowship
About HSS
Hospital for Special Surgery is the world’s leading institution and center of excellence for musculoskeletal medicine, including orthopaedic surgery, rheumatology, and rehabilitation. This academic medical center on the Upper East Side of New York City is affiliated with NewYork-Presbyterian Healthcare System and Weill Cornell Medical College. Since the Hospital’s founding in 1863 by Dr. James A. Knight, Hospital for Special Surgery has set the standard for orthopaedic patient care, which has always gone hand in hand with world-class education and research.

**Fellowship Program**
The Adult Reconstruction and Joint Replacement Fellowship Program at HSS was established over 40 years ago to train future thought leaders in total joint replacement surgery, while perfecting their surgical and technical skills. The Program is accredited by the Accreditation Council for Graduate Medical Education (ACGME). Led by 21 full-time surgeons, specialty-trained in hip and knee replacement and with a collective volume of over 8,000 cases per year, the Program provides an opportunity for Fellows to gain a broad range of in-depth experience over the course of the year.

**The Adult Reconstruction and Joint Replacement Service**
One of the largest divisions at the Hospital, the Adult Reconstruction and Joint Replacement Service is composed of the Hip Service, the Knee Service, and the Surgical Arthritis Service.

**The Hip Service** performs 4,000 cases per year, including primary hip replacements, hip resurfacing, computer assisted and anterior approaches to hip arthroplasty, and arthroscopic procedures and has particular expertise in revision hip replacement, allowing Fellows to gain exposure to this technically demanding procedure. HSS orthopaedic surgeons, biomedical engineers, and scientists were among the earliest developers of prosthetic hip implants, and continue to be at the forefront of implant design. Members of the Hip Service are also closely involved with the Hospital’s Center for Hip Preservation, which offers exposure to a wide variety of joint-preserving techniques, including arthroscopy, osteotomy, and open procedures of the hip.

**The Knee Service**, with over 3,200 cases per year, is one of the most experienced in the country. HSS developed landmark designs and surgical techniques for the first modern total knee replacement in the 1970s. With a long history of standard-setting developments in knee implants and replacement surgery, the Service maintains particular expertise in total knee arthroplasty, unicompartmental knee replacement, computer assisted and minimally invasive knee replacement surgery, and knee revision surgery.

**The Surgical Arthritis Service** is an innovative, multidisciplinary program designed to provide comprehensive care for patients with severe inflammatory arthritis. Combined conferences with orthopaedic surgeons and rheumatologists and a weekly Surgical Arthritis Clinic expose Fellows to the many aspects of inflammatory disease, including juvenile rheumatoid arthritis, rheumatoid arthritis, hemophilia, and others not generally seen at the same level in other institutions. Because of this high concentration of atypical cases, teaching is concentrated on those aspects of patient care that are unique.
Clinical Training

One of the goals of the Program is to expose and train Fellows in a wide range of treatments, from the most complex revisions to minimally invasive procedures. They evaluate cases, develop rational approaches to their care, and organize and effect a superior management to their clinical treatment. Each Fellow is involved in an average of over 500 cases (half hip, half knee), of which approximately fifteen percent are complex revisions. Some of the complex cases require an interdisciplinary approach, involving close collaboration among the orthopaedic surgeons, radiologists, and the Hospital’s bioengineers.

At the conclusion of the year, the Fellow is expected to demonstrate an advanced level of expertise in the treatment of these patients. Fellows will also gain experience in HSS’s fast-growing area of less invasive treatments for hips and knees, including hip arthroscopy and minimally invasive total knee arthroplasty. Fellows train and work in state-of-the-art operating rooms, custom-designed by HSS surgeons with a single purpose in mind — to advance orthopaedic surgery.

Wide Exposure

Participation in outpatient visits, including both private office and clinic settings, along with intense operating room experience, provides Fellows with wide practice in the diagnosis, treatment, and follow-up of a diverse patient population. A Fellow can expect significant exposure to a broad range of surgical procedures, from primary and revision hip and knee replacements to new techniques, such as minimally invasive total knee and total hip replacements, unicondylar knee replacement, hip resurfacing, hip and knee arthroscopy, custom implants, and computer assisted surgery. HSS utilizes implants from a wide variety of sources to achieve the best possible outcomes, adding to the breadth of Fellows’ experiences.

Fellows rotate among each of the 21 members of the Adult Reconstruction and Joint Replacement Service, which performs the majority of the adult reconstructive surgery cases at HSS and is one of the busiest operative services at the Hospital.
Weekly and Monthly Academic Conferences
Several weekly and monthly academic conferences, where unique and complex cases are presented and discussed, provide didactic and Socratic instruction to complement the hands-on skills obtained in clinics and in the operating room. Members of the faculty attend these conferences, and Fellows are required to participate and often lead the discussions. On a monthly basis, the academic conference focuses on aspects of biomechanics. Weekly tutorials occur between Fellows and some of the Hospital's most experienced surgeons. Fellows also participate in monthly journal clubs. Yearly, a Distinguished Lectureship in hip or knee replacement is held featuring an international leader in adult reconstruction. In 2010, a Grand Rounds teleconference with the University of Peking was held for the first time; there are plans to continue hosting international teleconferences in the future.

Research
In addition to robust clinical experience, Fellows build upon their existing research skills with extensive exposure to research methodology, study design, and critical data review. The Program sets aside one day per week for this work, thereby protecting 20 percent of a Fellow’s time for research. Projects are evaluated on how well Fellows demonstrate critical thinking, scientific approach, understanding of statistical criteria, literature support, and coordination of all project components to effect completed, scientifically sound manuscripts. For examples of HSS ARJR Fellows’ research, visit our Fellowship Page (www.hss.edu/arjr-fellowship.asp). Upon entering the Program, Fellows are assigned a research mentor and IRB-approved projects and are expected to pursue at least two research projects — one clinical and one in biomechanics — during the fellowship year. They also have the opportunity to pursue additional research and collaborate in the creation of study design.

Fellows present their progress to the Program’s faculty and also attend a series of lectures on research design and techniques organized by the HSS Academic Training Department. Fellows are also encouraged to attend and present research at national and international academic meetings, and funding is available for Fellows to attend at least two conferences per year. Most Fellows attend two or more of the following: Current Concepts in Joint Replacement (CCJR), the American Association of Hip and Knee Surgeons (AAHKS) Annual Meeting, and the American Academy of Orthopaedic Surgeons (AAOS) Annual Meeting. Yearly, the highly-respected work of Fellows, along with other members of the Service, is published in peer-reviewed articles and abstracts, which are accepted to international and domestic conferences.

Academic Career Training
In addition to clinical care and research, goals for the Fellowship include the development of strong teaching and organizational skills necessary to participate in an academic career. To this end, Fellows work closely with Residents on the Service in coordinating patient care. Fellows lead Residents, medical students, and ancillary staff in teaching conferences, in the operating room, and in clinics. In addition, Fellows — along with an Attending surgeon — conduct monthly sessions in the Bioskills Education Laboratory to instruct Residents and physician assistants in operative techniques. Fellows also prepare literature for these sessions. Techniques for running a practice are taught by observing Attendings during office hours and through a series of practice management sessions.

The vision of HSS Academic Training is to educate innovative and outstanding physicians through graduate medical education training programs to be academic leaders in musculoskeletal clinical care, research, and teaching. The Academic Training Department, a part of the Education Division of HSS, works closely with the Fellowship Program Director to ensure that the Program meets its mission. Academic Training also maintains a periodic evaluation process that includes all of the program stakeholders. The Department is also responsible for ensuring that each Fellowship Program is held to the universal policies and procedures established by the multidisciplinary Fellowship and Graduate Medical Education (GME) committees.
For nearly 150 years, Hospital for Special Surgery has pushed the boundaries of medicine with breakthrough research to uncover new treatments and approaches to care. A short bridge connects the Hospital's clinical wings to a research institute with over 200 scientists and research staff. HSS is among the institutions comprising the York Avenue Complex, one of the most sophisticated clinical and basic research campuses in the world. Translating basic and clinical research into patient care is a hallmark of Special Surgery’s “bench-to-bedside” approach. Physicians and scientists are in close proximity to collaborate on finding ways to integrate innovations and scientific breakthroughs into state-of-the-art patient care. Funding for these research efforts comes from numerous sources, including grants from the National Institutes of Health (NIH), foundation grants, industry support, as well as institutional investment. Six key areas have been identified for Division-wide research focus: partial knee replacement, perioperative processes, bone restoration, registries/outcomes, osteoarthritis, and osteolysis. Currently, members of the ARJR Service are pursuing some 75 different research projects.

Registries
With more than 300,000 patient visits each year, Hospital for Special Surgery is uniquely positioned to conduct clinical research that incorporates state-of-the-art patient care, while evaluating how best to apply the newest innovations in orthopaedics and rheumatology. Many healthcare institutions have incorporated randomized clinical trials into their clinical research programs, but few have developed the volume or breadth of patient registries currently being compiled by Special Surgery’s researchers. Through patient registries, HSS researchers and clinicians are making key discoveries about how joint replacements impact patients’ lives over time. Over 80 percent of the Hospital’s joint replacement patients are currently enrolled in one of the Hospital’s registry databases.
Facilities
The Hospital is currently undergoing an exciting period of growth and physical expansion. In order to enhance the Fellow’s clinical, educational, and research experience, the Fellow will have access to the Hospital's state-of-the-art facilities, including the following:

- **Bioskills Education Laboratory (BSEL):** Established in 2000, the BSEL simulates surgical procedures with equipment that is, in many instances, identical to that used in HSS operating rooms, allowing Fellows to become more familiar with the myriad devices currently used in surgery. The procedures in the lab can be performed on cadaver specimens or sawbones — plastic models of bones and joints.

- **Computer Assisted Surgery (CAS) Center:** The CAS Center was created to investigate innovative methods of utilizing computer technology to assist in orthopaedic surgery. HSS is uniquely positioned to pioneer CAS technologies with the integration of important assets that are exclusive to the Hospital.

- **Biomechanics Laboratory:** The mission of the Department of Biomechanics at HSS is to apply the principles of engineering and material science to solve orthopaedic problems. The Laboratory conducts basic and applied research that is translated into the development of orthopaedic devices and instrumentation aimed at improved patient care. The Biomechanics Laboratory houses a robotics system that allows sophisticated testing of joint mechanics.

- **The Mary and Fred Trump Institute for Implant Analysis:** HSS was one of the first in the United States to begin archiving actual retrieved implants and one of only a few institutions in the world with a web-based capability. The Institute, which has been on the forefront of implant design and research, is part of the Department of Biomechanics at HSS. The Archives house more than 20,000 retrieval implants, which provide critical data that is helping to drive the development and refinement of implant materials and design.

- **Core Research Facilities:** The HSS Core Research Facilities include Epidemiology and Biostatistics, Flow Cytometry, Musculoskeletal Repair and Regeneration, Analytical Microscopy, Imaging, and Mechanical and Material Assessment. In addition, HSS maintains a close relationship with the Cornell University College of Engineering, enabling the ARJR Service and its Fellows to utilize its expansive, Ithaca-based Core Facilities, which include Computational Analytics and Material Testing and Evaluation.

- **Leon Root, MD Motion Analysis Laboratory:** This laboratory incorporates force sensors for gait evaluation, as well as multiple high-speed video cameras, to conduct formal video analysis of human motion. In addition, the laboratory allows telemetered electromyographic evaluation of muscle function.

- **Kim Barrett Memorial Library:** Open 24 hours per day, seven days per week, the Kim Barrett Memorial Library is a technology-driven medical library with emphasis on musculoskeletal medicine. The library’s collection includes over 425 active electronic journals, 250 electronic textbooks, and 2,000 monographs. Through cooperative agreements with Memorial Sloan-Kettering, Rockefeller University, and Weill Cornell Medical College, our Fellows have full access to these additional world-class biomedical research libraries, all located within a two-block radius of HSS.
Community

Upon entering the Program, Fellows become an integral part of the community around them. Fellows also serve as important members of the HSS community at large through close collaboration with physician assistants, nurses, and other members of the care team, as well as the Hospital’s research staff. Moreover, through HSS’s affiliation with NewYork-Presbyterian Healthcare System and Weill Cornell Medical College, Fellows have the opportunity to tap into this rich academic and scientific community located within a two-block radius of the Hospital. Upon completion of the Program, graduates are prepared to take their talents and expertise to top academic medical centers and hospitals all over the country and the world.

Robust Alumni Network

Upon graduation, our alumni make their way to academic and clinical practices across the country and world. Our Fellows now practice in a variety of academic and community centers, such as the Mayo Clinic, Massachusetts General Hospital, Cleveland Clinic, Columbia Presbyterian Medical Center, Lahey Clinic, McGill University, and Georgetown University, as well as here at HSS. Immersed in all aspects of their area of concentration, Fellows build strong ties among one another and with Program faculty members, which for many continue throughout their careers. As a result, the ARJR Fellowship Alumni Program is a thriving network of professionals practicing in nearly 30 states and many medical centers beyond our borders.
Living in NYC

Diverse Patient Population
The New York City setting, among one of the most economically and culturally diverse metropolitan areas in the world, provides Fellows with the opportunity to work with patients from a variety of religious, ethnic, and socio-economic backgrounds.

Options for Young Families
Our Program is situated in New York City’s Upper East Side, which consists of both commercial and residential areas, many of which are populated by families with school-aged children. The area offers abundant resources for families, including a range of excellent options for childcare, pre-school, and K-12. There are a number of playgrounds and parks, as well as a host of educational and recreational programs for kids, from sports, to music, to art, within walking distance of the Hospital.

Cultural Center
Some of the world’s most highly regarded cultural institutions are located in New York City, many of which are within walking distance or a short bus, subway, or cab ride away from the Hospital, including the Metropolitan, American Natural History, Frick, and Guggenheim Museums. Nearby, there are also many shops, galleries, and restaurants catering to a range of tastes, as well as musical venues, including Lincoln Center, Carnegie Hall, and the Metropolitan Opera House. Also nearby is Central Park and its acres of open space, playgrounds, athletic fields, jogging paths, gardens, wooded areas, walkways, ponds, and thriving ecosystem.

Compensation (Stipend, Housing, etc.)
Fellows are provided a stipend and benefits based on the costs of living in New York City, competitive with those of other institutions. In addition, Fellows will be put in touch with a Housing and Parking Coordinator, who is available to assist Fellows who are interested in obtaining housing.

How to Apply
We invite highly recommended applicants with demonstrated mastery of clinical and research skills that have been developed in strong residency programs in orthopaedics to apply. Candidates must show leadership potential, and a capacity to thrive in a rigorous clinical and academic environment. The Fellowship Program participates in the San Francisco Match Program. For more information, please visit the Fellowship Page (www.hss.edu/arjr-fellowship.asp) or contact Academic Training by phone at 212.606.1466, or via email at academictraining@hss.edu.
Our Faculty

Our internationally prominent faculty serve in an array of regional, national, and international educational capacities and have published papers and books in their specialties and related areas. This breadth of experience and knowledge, as well as many decades of expertise, translates into state-of-the-art training of Fellows.

Thomas P. Sculco, MD
Surgeon-in-Chief, Hospital for Special Surgery

Dr. Sculco is Surgeon-in-Chief and Korein-Wilson Professor of Orthopaedic Surgery at Hospital for Special Surgery. He is the Chairman of the Department of Orthopaedic Surgery and a Professor of Orthopaedic Surgery at Weill Cornell Medical College. Dr. Sculco has written over 285 papers, 72 chapters, and has presented over 619 papers on orthopaedic surgery and the surgical treatment of arthritis. Dr. Sculco’s research has concentrated on implant design in total hip and knee replacement, as well as the study of blood management and failure mechanisms in joint replacement. He also maintains an interest in minimally invasive surgical procedures for the hip and knee.

Douglas E. Padgett, MD
Chief, Adult Reconstruction and Joint Replacement Service; Chief, Hip Service

Dr. Padgett is the Chief of both the Adult Reconstruction and Joint Replacement Service and the Hip Service at Hospital for Special Surgery. Following his residency in orthopaedic surgery at HSS and fellowship in Adult Reconstruction Surgery at Rush Presbyterian Medical Center, Dr. Padgett served as the Director of the Adult Reconstruction Service at the Naval Hospital, San Diego and developed the Adult Reconstruction Education Program. He is on the editorial board of the Journal of Arthroplasty, a Consultant Reviewer of the American Journal of Bone and Joint Surgery, a Field Test Examiner for the American Board of Orthopaedic Surgeons, and on the Program Committee of the American Academy of Orthopaedic Surgeons. His research interests are focused on clinical outcomes and biomaterials research, as well as robotic surgery and deep vein thrombosis prevention.
Steven B. Haas, MD, MPH  
Chief, Knee Service

Dr. Haas is the Chief of the Knee Service at Hospital for Special Surgery. He completed both his residency and fellowship in orthopaedic surgery at HSS. Dr. Haas developed a ground-breaking surgical technique and instrumentation for performing minimally invasive knee replacement. He holds two United States patents for orthopaedic devices that he co-developed with HSS. Dr. Haas’s research has concentrated on the complications of enoxaparin in treatment for pulmonary embolism after total joint arthroplasty, as well as the load-to-failure of the patellar tendon with the patella everted vs. non-everted in a cadaver model. He speaks nationally and internationally on knee and hip topics and has more than 50 published articles in the orthopaedic literature.

Mark P. Figgie, MD  
Chief, Surgical Arthritis Service

Dr. Figgie is Chief of the Surgical Arthritis Service at Hospital for Special Surgery and one of the leading experts in joint replacement for inflammatory arthritis. His training in engineering and biomechanics has helped him become instrumental in the design of implants for elbows, knees, and hips, including the design of custom implants. As Chief of the Surgical Arthritis Service, Dr. Figgie oversees the comprehensive care of patients with systemic diseases, including rheumatoid arthritis, lupus, Lyme disease, and hemophilia. Dr. Figgie’s recent research has concentrated on investigating ways to reduce bleeding after total knee replacement surgery. He is also performing studies on elbow kinematics leading to the design of new total elbow replacements.

Mathias P. Bostrom, MD  
Program Director, Adult Reconstruction and Joint Replacement Fellowship

Dr. Bostrom, Fellowship Program Director, is a specialist in hip and knee surgery, with particular interest and experience in complex reconstructions and the treatment of musculoskeletal infections. He is an expert in merging old and new technologies. Dr. Bostrom’s research focuses on enhancing bone formation, bone regeneration, bone and cartilage healing, and bone biology. He is the author of over 90 journal articles and book chapters. He is a member of numerous prestigious academic orthopaedic societies, such as the Hip Society, the Orthopaedic Research Society, and the International Society for Fracture Repair. Currently he holds several key committee positions in these organizations including being in the presidential line for the Orthopaedic Research Society and a member of the Arthroplasty Fellowship Match Committee. He also serves as a member of several review panels, including the musculoskeletal tissue engineering study section of the NIH. Dr. Bostrom received his education and training at the University of Virginia and Johns Hopkins University, and subsequently completed his residency and two fellowships at HSS and New York-Presbyterian Hospital.
Michael M. Alexiades, MD
Dr. Alexiades is a specialist in orthopaedic surgery of the hip, knee, shoulder, and elbow, including arthroscopic surgery, joint-sparing surgery, and joint replacement. An early adopter of the mini anterior technique in hip replacement surgery and the partial knee replacement, Dr. Alexiades continues to be active in the development of hip and knee implant design and instrumentation. Dr. Alexiades also has a keen interest in the education and training of residents and fellows, and is an examiner for the American Board of Orthopaedic Surgery, with responsibility for the education and certification of orthopaedic surgeons. His research interests include the study of metal on metal hip replacements, hip arthroscopy, and knee replacement instrumentation and implant design.

Friedrich Boettner, MD
Dr. Boettner is a specialist in minimally invasive total joint replacements and revision total joint replacement of the knee and hip. His practice focuses on surgical and non-surgical treatment of early arthritis. He performs arthroscopic cartilage surgery and joint-preserving surgery, as well as minimally invasive total knee and hip replacements and resurfacings. Born in Germany, Dr. Boettner studied at the top international centers for his specialty, completing fellowships in four sub-specialty areas, as well as additional training in pelvic osteotomies and open hip dislocation with surgeons in Germany, Switzerland, and the United States. He has authored an orthopaedic textbook, as well as numerous scientific publications. Dr. Boettner’s research focuses on blood management in unilateral primary total hip and total knee arthroplasty, as well as clinical outcomes studies comparing unicompartmental and total knee replacements.

Robert L. Buly, MD
Dr. Buly specializes in joint-preserving surgeries for both hip and knee, including arthroscopies and osteotomies to correct hip dysplasia and impingement. Dr. Buly has pioneered novel techniques to treat hip impingement arthroscopically, rather than through conventional open procedures. Dr. Buly also performs total hip and total knee replacements, including complex primary and revision total hip and knee cases. In these complex cases, Dr. Buly works in concert with bioengineers to design custom implants that solve unique problems. Dr. Buly is invited to lecture around the world to teach other surgeons about his techniques. Dr. Buly is on the Surgical Arthritis Service at the Hospital for Special Surgery. While serving as Chief Resident at HSS, Dr. Buly’s research focuses on the analysis of co-existing hip deformities in femoroacetabular impingement. He has also studied the computerized three-dimensional analysis of femoroacetabular impingement for range of motion analysis and surgical planning.

Charles N. Cornell, MD
Dr. Cornell graduated Cum Laude from Williams College with highest honors in Chemistry and earned his medical degree at Weill Cornell Medical College. After completing his residency in the Department of Orthopaedic Surgery at Hospital for Special Surgery and NewYork-Presbyterian Hospital, Dr. Cornell completed a fellowship in Orthopaedic Traumatology at the University of Washington School of Medicine in Seattle. Dr. Cornell is a fellow of the American Academy of Orthopaedic Surgeons and a fellow of the American College of Surgeons. Dr. Cornell serves as the Clinical Director of Orthopaedic Surgery at Hospital for Special Surgery. In addition, he is a professor of clinical Orthopaedic Surgery at Weill Cornell Medical College and an attending orthopaedic surgeon at Hospital for Special Surgery. Dr. Cornell’s research focuses on patient outcomes following new clinical pathways for total hip and knee replacement.

Alejandro González Della Valle, MD
Dr. González Della Valle specializes in adult reconstructive surgery of the hip and knee, including joint-preserving procedures and primary reconstruction of hip replacements. He graduated with honors from the University of Buenos Aires and joined the HSS staff in 2004. Dr. González Della Valle has a keen interest in clinical research and has received grants from HSS Orthopaedic Research and Education Foundation, The Hip Society, and the Knee Society. He is a recipient of the Acta Orthopaedica Scandinavica Research Award, the Sir John Charnley Award, and the Nicoll and Andy Award. He directs the HSS Arthroplasty Journal Club, and has over 120 publications in peer-reviewed journals. Dr. González Della Valle’s current research focuses on various aspects of total joint replacement including: factors affecting recovery following surgery, life-threatening complications of surgery, surgeons’ and patients’ pre-operative expectations, range of motion following total knee replacement, and the analysis of national databases capturing the outcome of total joint replacement patients.

Allan E. Inglis Jr., MD
Dr. Inglis’s practice is dedicated to the surgical treatment of arthritic conditions in adults, particularly total joint replacement of the hip, knee, and elbow, and the custom design of joint replacements for difficult cases. He has a special interest in anterior hip total replacement and partial knee replacement. He also has extensive expertise in the surgical treatment of fractures of the pelvis and acetabulum, hip, femur, knee, and tibia. Born and raised in New York, Dr. Inglis graduated from Cornell Medical School and completed his internship at the Virginia Mason Hospital in Seattle. He then returned to New York where he completed his orthopaedic surgical training at Hospital for Special Surgery. While serving as Chief Resident at HSS, Dr. Inglis won the highly regarded Bowen-Brooks Fellowship for Postgraduate Research Abroad. He spent a year at the Institute of Orthopaedics at the Royal National Orthopaedic Hospital in London, England and completed his fellowship in Orthopaedic Biomechanics and Custom Prosthesis Design. During this time, Dr. Inglis also studied at the EndoKlinik in Hamburg, Germany, learning the latest techniques for treating infections in total joint replacements. Dr. Inglis later returned to the states, for a second fellowship at the world-renowned Kerlan-Jobe Orthopaedic Clinic, one of the original centers for non-cemented total joint and revision total joint replacement in the world.

Seth A. Jerabek, MD
Dr. Jerabek is a specialist in hip and knee musculoskeletal care, including joint-preserving procedures, joint replacement, and complex revision joint replacement. His practice is focused on individuals of all ages who are seeking to get back to an active lifestyle. Dr. Jerabek is an intensive training. He graduated from the University of Michigan with Honors in biochemistry. He then attended the University of Michigan Medical School, graduating Cum Laude. He completed his residency training at Harvard where he became interested in the biomechanics and reconstruction of both native and replaced joints, which inspired him to pursue subspecialty training in two areas. He completed his first fellowship in Adult Reconstruction and Joint Replacement at Hospital for Special Surgery, where he received the Clinical Excellence Award. His second fellowship was in Sports Medicine at Massachusetts General Hospital, where he had the opportunity to be a member of the medical staff for several professional sports teams. Dr. Jerabek takes an individual approach to treating each patient with the goal of reducing pain and optimizing function.

David J. Mayman, MD
Dr. Mayman is one of a handful of national experts in computer navigation in hip and knee replacement surgery. He performs over 400 computer navigated joint replacement surgeries per year. Dr. Mayman studied human kinesiology in his native Canada, and trained in orthopaedic sports medicine, as well as joint replacement surgery. Dr. Mayman has been researching the development and advancement of computer navigation techniques for hip and knee surgery since his residency and has continued working as a consultant in the design of computer navigation tools. He won the coveted William Ersil award three times for Best Paper in Orthopaedics, focusing on research primarily concerned with computer assisted surgery. He is currently researching the long-term outcome of computer assisted surgery to that of conventionally guided surgery and is also working on protocols for maintaining the balance of ligaments in joints.

Bryan J. Nestor, MD
Dr. Nestor is an orthopaedic surgeon on the Hip and Knee Service at Hospital for Special Surgery and an Associate Professor of Clinical Orthopaedic Surgery at Weill Cornell Medical College. He is a graduate of Georgetown University Medical School. He completed his orthopaedic training at the Mayo Clinic, followed by a fellowship in total joint replacement at Hospital for Special Surgery. Dr. Nestor is recognized for his expertise in total knee and total hip replacements, particularly in young, active patients. Dr. Nestor has been instrumental in establishing a total joint replacement registry at HSS as a way of tracking both the long- and short-term performance of hip and knee replacements. He has also studied the “Fast Track” total hip replacement with a 48-hour length-of-stay. Dr. Nestor is a member of the American Orthopaedic Association, the American Association of Hip and Knee Surgeons, and the American Academy of Orthopaedic Surgeons.
Michael L. Parks, MD  
Dr. Parks performs minimally invasive total joint replacement, knee and hip replacement surgery, and alternative procedures, including partial knee replacements and arthroscopic surgery of the knee. A graduate of Duke University, Dr. Parks studied medicine at the Medical University of South Carolina, completed his internships and residency at Duke University, and completed a fellowship at Hospital for Special Surgery. Currently, he serves on the editorial board for the medical journal Techniques in Knee Surgery and as a guest reviewer for the Journal of Bone and Joint Surgery. He is also a diplomat for the American Board of Orthopaedic Surgery and is the secretary of the New York State Society of Orthopaedic Surgeons. Dr. Parks has authored numerous scientific papers, abstracts, and chapters for peer-reviewed journals. His research interests include the study of ethnic disparity in access and utilization of total joint replacement.

Paul M. Pellicci, MD  
Dr. Pellicci received his education and training at Johns Hopkins, Cornell, and Harvard Universities. He began his practice in orthopaedic surgery at Hospital for Special Surgery in 1981. During his tenure as Chief of the Hip Service at HSS, Dr. Pellicci established the first hip fellowship at the Hospital to be accredited by the ACGME. He is a member of the prestigious Hip Society. Dr. Pellicci has over 90 publications in the orthopaedic literature. Dr. Pellicci’s research has concentrated on the reduction of dislocation rates following total hip replacement.

Chitransh S. Ranawat, MD  
Dr. Ranawat specializes in total hip and total knee replacement, revision total hip and total knee replacement, and peri-prosthetic fractures. He received his medical degree from Well Cornell Medical College in 1985 before completing an internship at NewYork-Presbyterian Hospital and a residency at Hospital for Special Surgery. In 2002, he completed his fellowship training in adult reconstruction under the direction of his father, Dr. Chitranjan. In 2012, he was selected into The Hip Society. He is the recipient of the 2011 Mentorship Award, 2008 Hip Award, 2007 Chief Resident’s Special Award, 2007 Navy and Marine Corps Achievement Medal, the 2006 Hip Society British Traveling Fellowship, and the 2004 James A. Rand Award. Dr. Ranawat is actively involved in clinical orthopaedic research. His current research interests include robotic total hip replacement and custom knee prostheses.

Paul M. Pellicci, MD  
Dr. Pellicci received his education and training at Johns Hopkins, Cornell, and Harvard Universities. He began his practice in orthopaedic surgery at Hospital for Special Surgery in 1981. During his tenure as Chief of the Hip Service at HSS, Dr. Pellicci established the first hip fellowship at the Hospital to be accredited by the ACGME. He is a member of the prestigious Hip Society. Dr. Pellicci has over 90 publications in the orthopaedic literature. Dr. Pellicci’s research has concentrated on the reduction of dislocation rates following total hip replacement.

Amar S. Ranawat, MD  
Dr. Ranawat specializes in total hip and total knee replacement, revision total hip and total knee replacement, and peri-prosthetic fractures. He received his medical degree from Well Cornell Medical College in 1985 before completing an internship at NewYork-Presbyterian Hospital and a residency at Hospital for Special Surgery. In 2002, he completed his fellowship training in adult reconstruction under the direction of his father, Dr. Chitranjan. In 2012, he was selected into The Hip Society. He is the recipient of the 2011 Mentorship Award, 2008 Hip Award, 2007 Chief Resident’s Special Award, 2007 Navy and Marine Corps Achievement Medal, the 2006 Hip Society British Traveling Fellowship, and the 2004 James A. Rand Award. Dr. Ranawat is actively involved in clinical orthopaedic research. His current research interests include robotic total hip replacement and custom knee prostheses.

Eduardo A. Salvati, MD  
Dr. Salvati has been at the forefront of major advances in the international field of joint replacement surgery since joining HSS as a hip fellow in 1989. He is a Professor of Clinical Orthopaedic Surgery at Weill Cornell Medical College and the former Chief of the Hip and Knee Service at Hospital for Special Surgery. For his work in basic, applied, clinical, and biomechanical research to refine the complex aspects of total hip replacement, he has been elected to the board of trustees of the American Academy of Orthopaedic Surgeons, among other societies. Dr. Salvati’s research has concentrated on the reduction of dislocation rates following total hip replacement.

Daniel S. Rich, MD  
Dr. Rich specializes in hip and knee surgery, and is an Assistant Attending Orthopaedic Surgeon at Hospital for Special Surgery and Associate Attending Orthopaedic Surgeon at North Shore-Long Island Jewish Health System. He has also been an instructor in surgery at Cornell University Medical College since 1983, and was appointed as Clinical Assistant Professor in Orthopaedic Surgery in 2005. He currently serves as the Associate Director of Alumni Affairs at Hospital for Special Surgery, where he helps guide and execute strategic initiatives to support HSS’s robust and growing alumni community. He is an active member of the American College of Surgeons, American Academy of Orthopaedic Surgeons, and the American Association of Hip and Knee Surgeons, among others. Dr. Rich received his undergraduate degree from Harvard College and medical degree from Harvard Medical School. He was a resident in general surgery at Roosevelt Hospital and completed his orthopaedic training at Hospital for Special Surgery.

Russell E. Windsor, MD  
Dr. Windsor received his medical education at Georgetown, Thomas Jefferson, and Cornell Universities. He completed his orthopaedic training at the University of Pennsylvania, followed by a fellowship in knee reconstructive surgery at the HSS under John Insall, MD, one of the original developers and father of total knee replacement surgery. Dr. Windsor has presented his work and served as faculty in over 250 national and international seminars. He has written over 60 original publications, and contributed chapters in reconstructive surgery in 40 textbooks. Dr. Windsor was Chief of the Knee Service at Hospital for Special Surgery between 1990 and 2005 and was President of the American Knee Society in 2005. His research concentrates on minimally invasive unicondylar and total knee replacement. Additionally, he has a special interest in total knee replacement in the athlete and younger, active patient with arthritis, and has expertise in gender specific knee replacement and ligament reconstruction.

Geoffrey H. Westrich, MD  
Dr. Westrich specializes in the diagnosis and treatment of injuries and diseases of the hip and knee and in complex knee and hip replacements. He specializes in minimally invasive hip and knee replacements, partial knee replacements, as well as arthroscopic hip and knee surgery, and trauma and fracture treatment. Dr. Westrich has won awards for research studies that have advanced the field of orthopaedic surgery. With a background in engineering in addition to his medical degree, Dr. Westrich is highly knowledgeable about the latest advances in implant design and surgical techniques. Dr. Westrich’s research has focused on how to prevent complications in hip and knee surgery. He is the Chairman of the Thromboembolic Disease Committee and a leader in the field of thromboembolic risk reduction. He presents his work at national and international orthopaedic courses and conferences. He is also the Chairman of the Complex Case Review Committee and the Director of Research for the Adult Reconstruction and Joint Replacement Service at Hospital for Special Surgery.

Philip D. Wilson, Jr., MD  
Dr. Wilson is Surgeon-in-Chief Emeritus at Hospital for Special Surgery and Professor of Orthopaedic Surgery at Weill Cornell Medical College. From 1972 through 1990, he served as Chief of the Surgeon-in-Chief and Director of the Orthopaedic Surgery and Resident Education Program at HSS. He is a past president of the American Academy of Orthopaedic Surgeons. He has received numerous national and international medical societies. Dr. Wilson currently acts in consultative and advisory capacities. He participates in HSS’s important educational and research events and regularly attends the Adult Reconstruction and Joint Replacement academic conferences.

Edwin P. Su, MD  
Dr. Su specializes in using new technology for young, active patients with hip and knee arthritis, offering both minimally invasive surgery and ligament reconstruction. A graduate of Harvard University and Weill Cornell Medical College since 1983, and was appointed as Clinical Assistant Professor in Orthopaedic Surgery in 2005. He currently serves as the Associate Director of Alumni Affairs at Hospital for Special Surgery, where he helps guide and execute strategic initiatives to support HSS’s robust and growing alumni community. He is an active member of the American College of Surgeons, American Academy of Orthopaedic Surgeons, and the American Association of Hip and Knee Surgeons, among others. Dr. Rich received his undergraduate degree from Harvard College and medical degree from Harvard Medical School. He was a resident in general surgery at Roosevelt Hospital and completed his orthopaedic training at Hospital for Special Surgery.