We live our mission every day.
University Hospitals has been recognized by the American Hospital Association as the top hospital in the nation for its leadership and innovation in quality.

Scan the QR Code to the left or visit UHhospitals.org/missionquality to see how a focus on quality can enhance outcomes and improve a hospital’s overall performance.

American Hospital Association – McKesson
Quest for Quality Prize®
Hospitals in Pursuit of Excellence
FROM THE CHAIR

Dear Colleague:
Delivering on our mission – To Heal. To Teach. To Discover. – inspires our ongoing commitment to train the next generation of physician-scientists and advance clinical research and new treatment protocols.

University Hospitals Case Medical Center is building upon a legacy of innovation that began nearly 150 years ago and continues today through its Department of Orthopaedics.

This spirit of innovation and medical discovery is demonstrated today in a number of programs and initiatives that are helping forge medicine’s future:

• The Orthopaedic Learning Center, at the Department of Orthopaedics, University Hospitals Case Medical Center and Case Western Reserve University School of Medicine, which includes a sawbones laboratory and state-of-the-art arthroscopy simulator allowing surgeons to practice fracture care as well as joint replacement surgical procedures.

• Working with Case Western Reserve University School of Medicine to improve the performance of joint replacement components and the outcomes of joint replacement procedures via the UH Case Medical Center/Case Western Reserve University Center for Evaluation of Implant Performance.

• Training of future musculoskeletal researchers via the $2.2 million NIH grant that Case Western Reserve University School of Medicine received for its Training Program in Musculoskeletal Research, one of the oldest training programs in musculoskeletal medicine in the country.

• The launch of The Harrington Project for Discovery & Development, a $250 million investment in drug discovery and commercialization that aligns a not-for-profit entity, Harrington Discovery Institute at University Hospitals Case Medical Center, with a for-profit company, BioMotiv.

These and other UH Case Medical Center advances are poised to benefit the lives of patients affected by musculoskeletal disorders for generations to come.

We look forward to seeing you at the 2013 American Academy of Orthopaedic Surgeon’s Annual Meeting in Chicago in March.

Randall E. Marcus, MD
Chairman, Department of Orthopaedics
University Hospitals Case Medical Center and
Case Western Reserve University School of Medicine
Charles H. Herndon Professor and Chairman
Department of Orthopaedics
Case Western Reserve University School of Medicine

For more than a century, the Department of Orthopaedics at UH Case Medical Center has combined first-rate medical care, personalized attention and innovative scientific research with an unwavering sense of purpose – to provide the best possible treatment for patients.
Among the nation’s leading academic medical centers, University Hospitals Case Medical Center is the primary affiliate of Case Western Reserve University School of Medicine. With more than 1,000 registered beds, UH Case Medical Center provides primary, specialty and subspecialty medical and surgical care. Located in the heart of Cleveland’s University Circle on a beautiful 35-acre campus, UH Case Medical Center includes general medical, surgical and intensive care units as well as three major hospitals:

University Hospitals
Seidman Cancer Center
University Hospitals
MacDonald Women’s Hospital
University Hospitals
Rainbow Babies & Children’s Hospital

Our physicians and researchers – who also serve as faculty at Case Western Reserve University School of Medicine – are leaders in their respective fields, and their ongoing clinical research programs push the boundaries of medical progress. Our strong emphasis on translational research and personalized medicine means newly developed treatments transfer more rapidly from the research stage to life-enhancing patient care.

The School of Medicine is among the leading recipients of National Institutes of Health (NIH) awards and ranks in the top 25 among U.S. research-oriented medical schools as designated by U.S. News & World Report.

This unified dedication to clinical research and education has played a major role in building UH Case Medical Center’s rich legacy of landmark medical innovation, and continues to this day. Coupled with a commitment to implementing the latest therapies and technologically advanced hospitals and community facilities, UH Case Medical Center offers a depth of care and scope of services unmatched by any other medical center in Ohio.

To Heal. To Teach. To Discover.
The Department of Orthopaedics at UH Case Medical Center and Case Western Reserve University School of Medicine is one of the oldest and most respected in the nation, and it continues to be at the forefront of clinical orthopaedic research, innovation and treatment. Its establishment in 1907 occurred decades before the creation of the American Academy of Orthopaedic Surgeons and the American Board of Orthopaedic Surgery. To say it has a long-standing tradition of excellence would be an understatement. The department has trained some of the top orthopaedic surgeons in the world, and leaders of every major spine program in the U.S. and throughout the world have trained at UH Case Medical Center. The department’s excellence in clinical activities is consistently recognized by U.S. News & World Report, which ranks it as one of the top orthopaedic departments in the country. National leadership in musculoskeletal research is confirmed by its continued ranking, recently at No. 14, in the top-funded orthopaedic departments in the U.S. by the National Institutes of Health.

Our board-certified and fellowship-trained orthopaedic surgeons have expertise in specific subspecialties, including total joint reconstruction, spine, musculoskeletal oncology, foot and ankle, hand and upper extremity, pediatric orthopaedics, shoulder and elbow, sports medicine and trauma.

To contact the department directly, email OrthInfo@UHhospitals.org.
Thirty-two orthopaedic surgeons, two medical sports medicine specialists and 12 scientists from Case Western Reserve University constitute the Department of Orthopaedics. Together, they offer a broad spectrum of surgical and nonsurgical treatments for patients of all ages with minor to major musculoskeletal problems resulting from trauma, infection, inflammation, arthritis, tumors and deformities. All surgeons are recruited from top medical centers across the world, all are board-certified by the American Board of Orthopaedic Surgery, and all concentrate on a specific subspecialty.

**ORTHOPAEDICS**

**LEADERS IN THE FIELD**

Leading the department is Randall E. Marcus, MD, Chairman, Department of Orthopaedics, UH Case Medical Center and Case Western Reserve University School of Medicine; and Charles H. Herndon Professor and Chairman, Department of Orthopaedics, Case Western Reserve University School of Medicine. Dr. Marcus, with more than 30 years of experience practicing orthopaedic surgery and expertise in adult reconstructive surgery, has been an integral part of the Department of Orthopaedics at UH Case Medical Center since 1981, and has been its chair since 2002. He is a past president of both the American Board of Orthopaedic Surgery and the Association of Bone and Joint Surgeons. Currently, Dr. Marcus serves as Chairman of the Board of Trustees of Clinical Orthopaedics and Related Research. He has more than 65 publications, has edited two textbooks, and has been invited to present his work on more than 200 occasions at regional, national and international meetings.

George H. Thompson, MD, Division Chief, Pediatric Orthopaedics, UH Rainbow Babies & Children’s Hospital, UH Case Medical Center; and Professor of Orthopaedic Surgery, Case Western Reserve University School of Medicine, specializes in correcting spine deformities, including scoliosis and kyphosis, using advanced surgical techniques. He has published more than 100 peer-reviewed articles, 80 textbook chapters and four textbooks and has made more than 600 presentations in his career. Among his many research awards are the Arthur H. Huene Memorial Award for Excellence and Promise in Pediatric Orthopaedics Research (2008) and a Pediatric Minimally Invasive Surgery Grant from the Cleveland Foundation in 2009.

Matthew J. Kraay, MS, MD, Director, Division of Joint Reconstruction and Arthritis Surgery, Department of Orthopaedics, UH Case Medical Center, and Kingsbury G. Heiple and Fred A. Lennon Chair of Orthopaedics; and Professor, Case Western Reserve University School of Medicine, specializes in total joint replacement, joint reconstruction and arthroplasty surgery. He has published more than 100 articles in medical journals and texts and has presented at more than 100 national and international conferences and is a past recipient of the Otto Aufranc Award from the Hip Society and the James Rand Award from The American Association of Hip and Knee Surgeons.

Donald Goodfellow, MD, Director, Sports Medicine, Department of Orthopaedics, UH Case Medical Center, and Associate Professor, Case Western Reserve University School of Medicine, trained in orthopaedics at UH Case Medical Center and completed a sports medicine fellowship at the University of California, Los Angeles, Medical Center. As a team physician for the U.S. national soccer teams since 1996, he has been part of two Olympic Games and three World Cups. Assisting in the discovery of new and improved surgical techniques and implants for patients sustaining sports injuries, Dr. Goodfellow is one of only a few physicians working with the Hamann-Todd skeletal collection at the Cleveland Museum of Natural History, which contains more than 3,000 skeletons with medical histories.

Christopher G. Furey, MD, Director, Spine Division, UH Case Medical Center; and Associate Professor of Orthopaedics, Case Western Reserve University School of Medicine, was elected to the American Academy of Orthopaedic Surgeons Board of Councilors. Dr. Furey specializes in spine surgery, with an emphasis on cervical myelopathy and adult lumbar reconstruction. He is a member of the American Academy of Orthopaedic Surgeons, the North American Spine Society, the Cervical Spine Research Society and the American Orthopaedic Association, among others. He has been published in more than 40 medical books and journals and presented nationally and internationally on 70 occasions.

Patrick J. Getty, MD, Medical Director, Musculoskeletal Oncology, UH Seidman Cancer Center and Barbara Peterson Ruhlman Chair in Orthopaedics; and Program Director, Orthopaedic Surgery Residency, and Associate Professor of Orthopaedics, Case Western Reserve University School of Medicine, served as the chief of orthopaedics at Louis Stokes Cleveland VA Medical Center for six years, providing great leadership in the care of veterans. As the Program Director of the Orthopaedic Surgery Residency Program at Case Western Reserve University School of Medicine, Dr. Getty oversees the education of students, residents and fellows. Dr. Getty specializes in orthopaedic oncology and adult reconstruction.

Edward Greenfield, PhD, Director, Orthopaedic Research, and Harry E. Figgie III, MD, Professor of Orthopaedics, Case Western Reserve University School of Medicine, is known for his inroads in research within the field of orthopaedics. His studies include osseointegration and aseptic loosening of orthopaedic implants, orthopaedic infection, catabolic and anabolic effects of parathyroid hormone, and kinases and miRNAs in osteosarcoma. He also received a $50,000 grant from the Sarcoma Foundation of America for his work on “A Small Molecule Inhibitor of AXL is a Novel Therapeutic Strategy in Osteosarcoma.” Dr. Greenfield has published 64 peer-reviewed journal articles, has given more than 70 presentations, and is a member of the American Society for Bone and Mineral Research, the Orthopaedic Research Society, the International Bone and Mineral Society and the International Endotoxin Society.

Michael J. Salata, MD, is Director, Joint Preservation and Cartilage Restoration Center, UH Case Medical Center; and Assistant Professor, Case Western Reserve University School of Medicine. He is a specialist in sports medicine with a particular focus on cartilage restoration, meniscus surgery, and arthroscopic treatment of hip, knee, shoulder and elbow problems. Dr. Salata is a graduate of Case Western Reserve University School of Medicine, and performed his orthopaedic surgery residency at the University of Michigan Hospitals System. He completed his sports medicine fellowship training at Rush University Medical Center in Chicago. While there, Dr. Salata served as the assistant team physician for the Chicago White Sox, Chicago Bulls, Chicago Steel and Chicago Public High Schools, gaining experience treating athletes at all levels of competition. He pursued additional specialized training in the new field of hip arthroscopy in Chicago and brought this new skill to University Hospitals and Case Western Reserve University School of Medicine. Dr. Salata has made substantial contributions to the orthopaedic surgery literature through journal articles and book chapters.
Consistently recognized as one of the nation's finest orthopaedic programs by U.S. News & World Report, the success of the Department of Orthopaedics is largely shaped by a collaborative ideal. The orthopaedic medical professionals within the department understand the importance of teamwork. For patients, a multidisciplinary approach translates into better treatments and quicker recovery times.

More than 1,500 total joint replacement surgeries are performed at UH Case Medical Center each year, and orthopaedic surgeons work as a team with specialists from rheumatology, neurology, neurosurgery and radiology to provide optimal patient care. Specialized nurses, physical therapists, occupational therapists and social workers collaborate to ensure each patient's recovery and rehabilitation is easy and fast.

We continue to make important advances in diagnosis and treatment in the following areas:

- **Hip Arthroscopy/Joint Preservation and Cartilage Restoration Center:** UH Case Medical Center is one of the few hospitals in the region that offers hip arthroscopy for more than a half-dozen disorders, including mild hip dysplasia with labral tears, femoroacetabular impingement, tears in the gluteus medius, and removal of loose fragments in the hip. Hip arthroscopy allows UH surgeons to treat patients on an outpatient basis with minimal neurovascular risk and fewer complications compared with open arthrotomy. This approach can also provide diagnosis, treatment and relief for patients months or even years faster than traditional approaches.

- **Pediatric Orthopaedics:** Nearly 12,000 children with musculoskeletal problems come to UH Rainbow Babies & Children’s Hospital each year. The hospital’s Department of Pediatric Orthopaedics is one of the largest in the nation, with 10 pediatric orthopaedic subspecialists who treat spine and limb problems, skeletal dysplasia, injuries, trauma and tumors. The surgeons use minimally invasive operating techniques whenever possible. In some spinal cases that traditionally have required an approach from both the front and back of the body, our surgeons are now able to perform the procedure solely from the back. The high volume of patients coming to the UH Rainbow Babies & Children’s Hospital Department of Pediatric Orthopaedics supports a vigorous research slate, including research on the saliva-based ScolioScore Adolescent Idiopathic Scoliosis Prognostic Test; the HemiBridge spine staple for treating scoliosis; and techniques to reduce intraoperative bleeding.

- **Spine Division:** The Spine Division at UH Case Medical Center is one of just 20 Centers of Excellence in the country, as designated by the National Spine Institute. The center was propelled to the forefront of innovation in modern spinal surgery under the leadership of the late Henry H. Bohlman, MD, who headed the center from 1983 to 2010. The center brings together expertise from a variety of areas, including orthopaedics, neurosurgery, physical and occupational therapy, and pain management.

- **Orthopaedics Materials and Mechanics Lab:** The lab, working with Case Western Reserve University’s School of Medicine and Case School of Engineering, has investigated polyethylene total joint replacement components that perform with greater durability.

- **Cellular/Molecular Biology Lab:** This lab, one of four world-renowned labs within the Department of Orthopaedics, continues to make important progress in investigating factors that contribute to implant loosening and issues involved in bone deformities within growth plates, as well as research on bone maturation and tumors.

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Dr. Clare Rimnac
As one of the nation’s leading academic medical centers, UH Case Medical Center is committed to advancing the field of medicine through a passionate commitment to training tomorrow’s clinicians.

In its teaching role, UH Case Medical Center helps provide medical education in a wide variety of forums through Case Western Reserve University School of Medicine, one of the nation’s leading medical schools. Our physicians – who also serve as members of the school’s faculty – are leaders in their respective fields and their ongoing clinical research programs push the boundaries of medical progress throughout the world.

High-tech training grounds
Residents work in state-of-the-art facilities, and they often go on to become highly successful leaders in orthopaedics. All residents work in UH Case Medical Center, Louis Stokes Cleveland VA Medical Center, UH Rainbow Babies & Children’s Hospital, UH Ahuja Medical Center, MetroHealth Medical Center and the outpatient UH University Suburban Health Center.

More than 40 full-time instructors across the teaching institutions make up the orthopaedic teaching staff, joined by 12 researchers in the Basic Science Faculty at Case Western Reserve University School of Medicine who help provide a dynamic, integrated research program.

Each hospital affiliated with the residency conducts regular teaching conferences, giving residents the chance to interact with faculty in department-wide and rotation-specific sessions. Residents often plan and lead conferences, in which they present cases, literature and research as needed.

Clinical and research experience
Residents’ orthopaedic rotations give them extensive experience in adult and pediatric orthopaedics, spinal cord injuries, spinal surgery, joint reconstruction, foot and ankle treatment, sports medicine, hand and upper extremity surgery, and musculoskeletal oncology. During their final 24 months, residents serve as the senior resident on each of their service rotations.

During their five-year residency, residents will perform more than 1,000 cases under the observation of their attending surgeons and chief residents. Residents run many of the outpatient clinics under the supervision of attending faculty. Residents also have the opportunity to see outpatients with faculty members in faculty-run clinics.

Residents are required to perform research during their stay, presenting their results during the Annual Department Research Day. Residents spend an additional 12 months conducting research.

Each academic year, two residents are awarded with an Allen Research Fellowship, which takes place between the 12-month orthopaedic internship and the 48-month orthopaedic residency. Residents are given a great deal of freedom in determining their area of focus during their research year. They have the opportunity to learn from world-renowned researchers investigating tissue engineering, biomechanics and functional electrical stimulation.

Residents who are particularly interested in an academic career in orthopaedic surgery are encouraged to pursue this fellowship. Residents’ papers have been published in a number of prestigious journals, including the Journal of Bone and Joint Surgery, the Journal of Hand Surgery, the Spine Journal, the American Journal of Sports Medicine and the Journal of Arthroplasty.
Dr. Patrick Getty

UH Case Medical Center's physician-scientists are leaders in their respective fields, and their ongoing clinical research programs are at the leading edge of medical progress. A strong emphasis on translational, or "bench-to-bedside," research means that new and innovative treatments and technologies transfer more rapidly from the research laboratory to actual patient care. Because the Department of Orthopaedics' physicians are also full-time faculty members at Case Western Reserve University School of Medicine, they have a unique opportunity to influence and pioneer some of the medical industry's latest technological and procedural innovations. According to the NIH, Case Western Reserve University School of Medicine has had one of the top-ranked orthopaedic departments in research funding over the past two decades — an investment in the department's dedication to discovering new approaches for diagnosing, treating and preventing disease.

Innovation runs through our work at UH Case Medical Center, which continues to maintain its position as a leader at the forefront of orthopaedic discoveries.

- **Spine deformity surgery in children.** Pediatric orthopaedists at the School of Medicine, working with George H. Thompson, MD, are advancing the practice of evidence-based pediatric spine surgery and other pediatric orthopaedic surgeries. Procedural approaches include video-assisted thoracoscopic surgery to treat severe spinal deformity, the use of Amicar to reduce perioperative blood loss, and continuous intravenous morphine infusion for better pain management following procedures.

- **Preventing the progression of hip osteoarthritis by minimally invasive arthroscopic intervention.** UH Case Medical Center is one of the few hospitals in its region that offers hip arthroscopy. This approach allows surgeons in the Joint Preservation and Cartilage Restoration Center, led by Michael J. Salata, MD, to treat hip problems with less morbidity and low neurovascular risk compared with open arthrotomy. Another advantage is that the procedure is offered on an outpatient basis.

- **Intraoperative radiation therapy in sarcoma patients.** For patients with sarcoma, UH Case Medical Center's Patrick J. Getty, MD, in collaboration with radiation oncology, can lower the risk of local recurrence following limb-sparing surgery by using intraoperative radiation therapy. This type of treatment provides a higher, more closely targeted radiation dose than conventional external radiation therapy. This causes less injury to neighboring healthy tissue. At UH Case Medical Center, most sarcoma patients receive limb-sparing surgery, which has been made possible through imaging advances, adjuvant chemotherapy for bone sarcomas and radiation therapy for soft-tissue sarcomas, and well-designed and constructed endoprostheses.

- **Artificial tendon use.** Electrochemically aligned collagen (ELAC) may be useful in repairing large lacerations or ruptures in tendons. The material was developed by Ozan Akkus, PhD, Director of the Orthopaedic Mechanics and Materials Laboratory in the Department of Mechanical and Aerospace Engineering at Case Western Reserve University, and colleagues. It is composed of pure collagen and is similar in strength to the body's own tendons and ligaments. In animals, ELAC doesn’t trigger severe inflammation or promote ectopic formation of bone, and it increases the volume fractions of fascicles within tendons. Dr. Akkus, who also holds a faculty appointment in Biomedical Engineering and Orthopaedics at Case Western Reserve University, is collaborating with orthopaedic surgeons at UH Case Medical Center Department of Orthopaedics, including Robert Gillespie, MD, Assistant Professor, Case Western Reserve University School of Medicine, to investigate uses for ELAC.

- **Center for the Evaluation of Implant Performance.** The center, directed by Clare Rimmac, PhD, Wilbert J. Austin Professor of Engineering, Case Western Reserve University, is a leader in the effort to improve the performance and durability of implants used in joint replacement. A collaboration between UH Case Medical Center, Case Western Reserve University School of Medicine and the university’s Department of Mechanical and Aerospace Engineering, the center maintains one of the nation’s largest implant retrieval programs. It also keeps information on every patient who has had joint replacement surgery at UH Case Medical Center since 1985. The center’s analysis on the causes of implant failure have helped lead to improvements in implant materials and design.

All National Institutes of Health (NIH) funding for basic and clinical research is awarded to the School of Medicine at Case Western Reserve University.
University Hospitals Case Medical Center

ONE OF AMERICA’S FIRST ACADEMIC MEDICAL CENTERS

Founded after the Civil War as a place of healing, the institution embraced a broader role as medical science advanced. By the turn of the twentieth century, a modern general hospital was enhanced by specialty facilities for women, children and infants. An affiliation with the medical school of what was then Western Reserve University – today Case Western Reserve University – formed one of the first true academic medical centers in the United States, as University Hospitals of Cleveland joined Johns Hopkins Hospital and Massachusetts General in combining the training of young physicians and the pursuit of laboratory research with delivery of the most advanced patient care.

In 1931, new facilities brought University Hospitals and the School of Medicine onto the same medical campus in University Circle. Over the years the complex continually expanded both its physical presence and the scope of its professional activities, adding diagnostic and treatment capabilities as well as top-flight physicians and surgeons.

Today, as the primary affiliate of Case Western Reserve University School of Medicine, University Hospitals Case Medical Center advances care through a commitment to clinical and translational research in a large academic medical campus that incorporates nationally acclaimed hospitals including UH Rainbow Babies & Children's Hospital, UH Seidman Cancer Center and UH MacDonald Women’s Hospital.

In 2011, University Hospitals put the finishing touches on Vision 2010, a five-year, $1.2 billion strategic plan, which included building the new freestanding 150-bed inpatient and outpatient UH Seidman Cancer Center; the Center for Emergency Medicine and Marcy R. Horvitz Pediatric Emergency Center at UH Case Medical Center; the Quentin & Elisabeth Alexander Neonatal Intensive Care Unit at UH Rainbow Babies & Children’s Hospital, which was ranked fifth in the nation for newborn care by U.S. News & World Report; the UH Ahuja Medical Center, a 435,000-square-foot hospital and 60,000-square-foot Kathy Risman Pavilion, a medical office building in Beachwood, Ohio; and several outpatient health centers throughout Northeast Ohio. A key strategy of Vision 2010 involved the implementation of a new state-of-the-art Electronic Medical Record System throughout the system.

UNIVERSITY HOSPITALS INSTITUTES

University Hospitals multidisciplinary institutes help ensure the best possible outcomes for our patients by bringing together a broad range of physicians, nurses, ancillary staff and administrators. Their collaborative efforts lay the groundwork for new standards in patient care, accelerate clinical research and create community-based education programs. The institutes bring UH expertise in diagnosing and treating individuals’ health problems to UH locations throughout Northeast Ohio. UH Case Medical Center institutes include:

- Harrington Discovery Institute at University Hospitals Case Medical Center
- University Hospitals Digestive Health Institute
- University Hospitals Ear, Nose & Throat Institute
- University Hospitals Eye Institute
- University Hospitals Harrington Heart & Vascular Institute
- University Hospitals Neurological Institute
- University Hospitals Transplant Institute
- University Hospitals Urology Institute
The passage of health care reform legislation is changing the way care is delivered, bringing a new focus to optimizing the quality of patient care while controlling costs and using resources efficiently. At UH Case Medical Center, the emphasis on quality is not an outgrowth of new health care legislation, but an integral part of our patient care tradition.

And that is precisely why we have launched the UH Quality Institute.

As an innovative integrated delivery system, UH offers patients the latest technology and treatment methods. By pursuing the newest and best technologies, hiring and retaining highly skilled staff, and promoting a culture of safety and excellence, UH has forged an impressive quality record.

The UH Quality Institute shares the results of our ongoing efforts to provide safe, effective, patient-centered care to our patients and families. This includes a website that provides information about our quality awards, patient safety and quality measures. Through this quality data, we are able to present documentation and further evidence of the top-notch care we provide.

The 2012 American Hospital Association-McKesson Quest for Quality Prize named UH Case Medical Center the top hospital in the nation for its leadership and innovation in quality improvement and safety.

UH Case Medical Center was selected by a multidisciplinary committee of health care quality and patient safety experts.

Awarded annually, the prize is supported by a grant from the McKesson Corp., a national health care services company based in San Francisco. The criteria for the 2012 award include the demonstration of an organizational commitment to and progress in achieving the Institute of Medicine’s six quality aims – safety, patient-centeredness, effectiveness, efficiency, timeliness and equity. One goal of the award is to honor hospitals that are making progress in quality improvement with models that can be replicated by others in the hospital field.
HARRINGTON DISCOVERY INSTITUTE
at University Hospitals Case Medical Center

Harrington Discovery Institute is led by Director Jonathan Stamler, MD. Dr. Stamler holds the Robert S. and Sylvia K. Reitman Family Foundation Distinguished Chair in Cardiovascular Innovation at both University Hospitals and Case Western Reserve University School of Medicine. He also serves as Director for the Institute for Transformative Molecular Medicine, Professor of Medicine and Professor of Biochemistry at Case Western Reserve University School of Medicine.

Mukesh K. Jain, MD, is the Chairman of the Executive Committee for Harrington Discovery Institute. He also serves as Chief Research Officer, University Hospitals Harrington Heart & Vascular Institute at University Hospitals Case Medical Center, and holds the Ellery Sedgwick Jr. Chair and is a Distinguished Scientist. In addition, Dr. Jain serves as Director, Case Cardiovascular Research Institute, and is a Professor of Medicine at Case Western Reserve University School of Medicine.

The institute will support physician-scientists as they undertake fundamental research uniquely capable of changing the standard of care, generating insights into the clinical condition and developing new treatments. As part of its mission, Harrington Discovery Institute will enable physician-scientists to participate in and transform the drug development cycle within academia.

The open design of Harrington Discovery Institute will allow for collaboration with major academic medical centers and nonprofit foundations across the country, build a national community for physician-scientists and advance academic medicine’s involvement in drug discovery and development.

To learn more about the annual Harrington Scholar-Innovator Grant program and view a list of grant recipients, visit HarringtonDiscovery.org.
Clinicians and Scientists at UH Case Medical Center and Case Western Reserve University School of Medicine

Department of Orthopaedics

Chairman
Randall E. Marcus, MD
Chairman, UH Case Medical Center and Case Western Reserve University School of Medicine
Charles H. Herndon Professor and Chairman
Department of Orthopaedics
Case Western Reserve University School of Medicine

Adult Orthopaedics
Steven J. Fitzgerald, MD
Assistant Professor
Barbara Peterson Ruhlman Chair in Orthopaedics
Associate Professor

Patrick J. Getty, MD
Assistant Professor
Barbara Peterson Ruhlman Chair in Orthopaedics
Associate Professor

Robert J. Gillespie, MD
Assistant Professor

Victor M. Goldberg, MD
Professor

Donald B. Goodfellow, MD
Associate Professor

Matthew J. Kraay, MD
Kingsbury G. Heiple and Fred A. Lennon Chair of Orthopaedics
Professor

John T. Makley, MD
Professor

Randall E. Marcus, MD
Charles H. Herndon Professor

Thomas C. McLaughlin, MD
Associate Professor

Shana N. Miskovsky, MD
Assistant Professor

William J. Petersilge, MD
Assistant Professor

Michael J. Salata, MD
Assistant Professor

Brian N. Victoroff, MD
Associate Professor

Glenn D. Wera, MD
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John H. Wilber, MD
Hansjoerg Wyss Professor of Orthopaedic Surgery

Roger G. Wilber, MD
Assistant Professor

Hand and Upper Extremity Surgery

J. Robert Anderson, MD
Assistant Professor

Stephen H. Lacey, MD
Associate Professor

John W. Shaffer, MD
Professor

Pediatric Orthopaedics

Susannah Briskin, MD
Associate Professor

Allison Gilmore, MD
Assistant Professor

Christina K. Hardesty, MD
Assistant Professor

Raymond W. Liu, MD
Assistant Professor

Jochen Son-Hing, MD
Assistant Professor

Mary Solomon, MD
Assistant Professor

George H. Thompson, MD
Professor

Amanda Weiss-Kelly, MD
Associate Professor

Spine

Nicholas U. Ahn, MD
Associate Professor

Jason D. Eubanks, MD
Assistant Professor

Christopher G. Furey, MD
Associate Professor

E. Byron Marsolais, MD
Professor

Cellular & Molecular Biology Lab

Edward M. Greenfield, PhD
Harry Figgie III Professor
Director of Research, Department of Orthopaedics

Shunichi Murakami, MD, PhD
Assistant Professor

Guang Zhou, PhD
Assistant Professor

Muscloskeletal Mechanics and Materials Lab

Ozan Akkus, PhD
Associate Professor

Eben Alsberg, PhD
Associate Professor

Dwight Davy, PhD
Professor

Joseph Mansour, PhD
Professor

Clare M. Rimmac, PhD
Wilbert J. Austin Professor of Engineering

Functional Electrical Stimulation Lab

Kath Bogie, DPhil
Adjunct Assistant Professor

P. Hunter Peckham, PhD
Professor

Ronald Triolo, PhD
Professor

Independent Specialists on Staff

Yoel Anouchi, MD
Robert Corn, MD
Reuben Goezebe, MD
John Feighan, MD
Paul Forcier, MD
Lazlo Harmat, DO
Michael Retino, DO
Gregory Sarkisian, MD
William A. Seeds, MD
Britten Shroyer, MD
Kraig Solak, DO
Scott Zimmer, MD

Physicians receive their academic appointments and their accompanying titles from Case Western Reserve University School of Medicine.
UH Case Medical Center is among the nation’s best hospitals, ranked in all 12 methodology-ranked specialties.

University Hospitals Case Medical Center
- Cancer
- Cardiology & Heart Surgery
- Diabetes & Endocrinology
- Ear, Nose & Throat
- Gastroenterology
- Geriatrics
- Gynecology
- Nephrology
- Neurology & Neurosurgery
- Orthopedics
- Pulmonology
- Urology
To refer a patient or learn more about the UH Case Medical Center Department of Orthopaedics, call 216-844-7200 or visit UHhospitals.org/ortho