

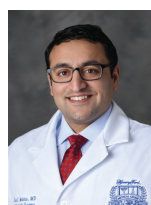
Ortho in Motion

Winter 2023

Innovations Through Peer Reviewed Publications in Orthopaedics

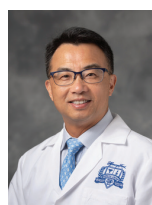
In 2022, more than 45 articles featuring Henry Ford orthopaedic providers as lead/senior authors and 9 as contributing authors were published showcasing the health system's leading role at advancing best-practice and evidence-based techniques for improving orthopaedic related health outcomes.

1st/Senior Author Publications



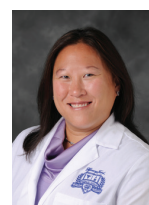
Eric Makhni, M.D., M.B.A.
Sports/Quality

15



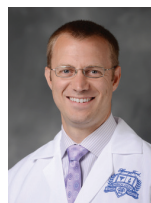
Charles Day, M.D., M.B.A.
Hand/
Management/Leadership

4



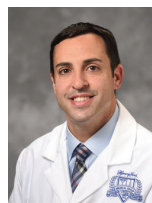
Stephanie Muh, M.D.
Shoulder and Elbow

3



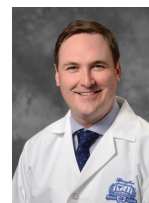
Michael Charters, M.D.
Joints

2



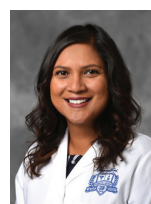
Vasilios (Bill)
Moutzouros, M.D.
Sports

2



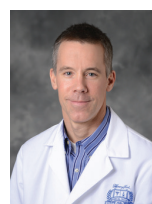
Thomas Lynch, M.D.
Sports

2



Amanda Ali, Ph.D.
Bone and Joint

4



Michael Bey, Ph.D.
Bone and Joint

4



Yener Yeni, Ph.D.
Bone and Joint

2

Orthopaedic Research News

Non-Opioid Alternatives for Patients After Orthopaedic Surgeries

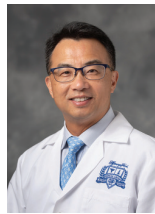


Recent research includes a study looking at steroids as part of a multi-modal pain control regimen and an alternative to using opioids after outpatient knee replacement. The study won the 2022 American Association of Hip and Knee Surgeons Clinical Research Award. A Henry Ford Health study found that robotic-assisted surgery for hip replacement had lower rates of complications than the traditional method. The findings were published in *The Journal of Arthroplasty* and are believed to be the first from a large series of patients with several years of follow-up to evaluate post-surgical complications between the two surgical options.

Henry Ford Health Sports Medicine team research showed that non-opioids provide effective pain relief following ACL reconstruction surgery. The study was recently published in *The American Journal of Sports Medicine*. Lead researcher Vasilios (Bill) Moutzourous M.D. says the study's data is "practice changing."

Two of the recent published studies are highlighted on the following pages. A summary of orthopaedic research can be viewed at: <https://www.henryford.com/services/orthopedics/research>.

The Effectiveness of Carpal Tunnel Release Based on Patient-Reported Outcomes



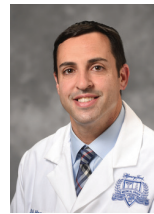
Senior Author: Dr. Charles Day

Title: What are the Minimum Clinically Important Difference Values for the PROMIS and QuickDASH after Carpal Tunnel Release? A Prospective Cohort Study.

Summary: The Patient-Reported Outcomes Measurement Information System (PROMIS) and QuickDASH are two patient-reported outcome (PRO) measurements commonly used for patients with orthopedic ailments of the hand and upper extremity. These tools are used to measure patient responses to treatment with the goal of improving the value of orthopedic care. Dr. Day's study evaluated PRO scores of patients who underwent carpal tunnel release surgery at HFH, with the goal of determining what is considered a meaningful change/improvement to a patient who has had a carpal tunnel release procedure. Establishing this minimum clinically important difference helps clinicians both to better prepare their patients for surgery and provides improved post-operative counseling regarding patients' improvement and expectations during recovery.

Article can be viewed at:
<https://pubmed.ncbi.nlm.nih.gov/36190518/#>

Does the Use of Perioperative Narcotics Affect Tendon Ruptures in Knee Surgery?



Senior Author: Dr. Vasilios (Bill) Moutzourous

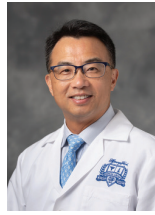
Title: Extensor Mechanism Ruptures and Reruptures: Perioperative Opioid Management

Summary: This study found that patients who used prescription opioids before surgery were more likely to continue to use opioids for more than 1 month after surgery, compared to patients who had no chronic prescription opioid use before surgery. In addition, increased postoperative prescription opioid use was associated with a higher risk of tendon rerupture. Given the current opioid epidemic, patients' continued use of prescription opioids following surgery has been a matter of concern for some time, especially in the field of orthopaedic surgery. Studies such as this one help to identify risk factors for postoperative opioid use and determine how increased opioid use affects patient outcomes. This study adds a valuable contribution to the growing body of knowledge on prescribing opioids in safe amounts for perioperative pain management without compromising patient outcomes.

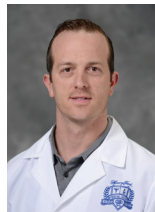
Article can be viewed at:
<https://pubmed.ncbi.nlm.nih.gov/32643781/>

Orthopaedic Awards and Recognition

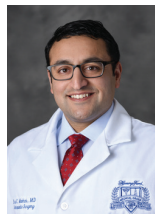
The following Henry Ford orthopaedic physicians and team members were recently recognized with leadership awards.



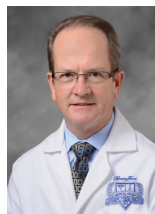
Charles Day, M.D., M.B.A., interim medical director and chairman of Orthopaedics received the 2022 Diversity Award by the American Association of Hand Surgery (AAHS). Dr. Day, who was presented with the award on Martin Luther King Jr. Day, has written extensively on the lack of diversity issues facing orthopaedic and hand surgeons over the last 12 years. He was also named to Becker's Healthcare Spine Review list of "50 Orthopedic Surgeons to Know in 2023". In 2021, Dr. Day performed the health system's first total wrist replacement surgery and the first wide-awake orthopaedic hand surgery in an outpatient setting at Henry Ford Medical Center – Bloomfield Township.



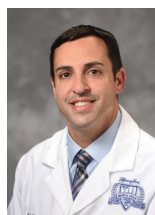
Ryan Desgrange, M.S., P.A.-C., Henry Ford Hospital Advanced Practice Provider (APP) council chair who works primarily in orthopaedic trauma surgery, recently received several important achievements. These include being selected as president-elect of the Michigan Academy of Physician Assistants, an inductee to the Pi Alpha National Honor Society for Physician Assistants and receiving the Wayne State University PA Preceptor of the Year.



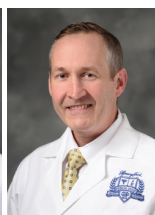
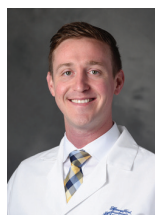
Eric Makhni, M.D., M.B.A., orthopaedic surgeon and team physician for the Detroit Lions and Oakland University Athletics Department, joined an elite group of Metro Detroit's young high achievers being listed on the Crain's Detroit Business' list of the 40 Under 40. Dr. Makhni has made remarkable progress in his role as medical director of Patient Reported Outcome Measures (PROMs), exacting change on how patient care is viewed and practiced, in addition to his role as a sports medicine orthopedic surgeon.



Michael Mott, M.D., division chief of the Musculoskeletal Tumor and associate orthopaedic residency program director was appointed president of Musculoskeletal Tumor Society (MSTS) in 2022. Currently serving as immediate past president, Dr. Mott is noted for his exemplary clinical expertise in the care and treatment of musculoskeletal tumor patients.



Vasilios (Bill) Moutzouros, M.D., chief of Sports Medicine, received a research award from the American Orthopaedic Society of Sports Medicine (AOSSM) for a Henry Ford study showing non-opioids provide effective pain relief after knee surgery. Dr. Moutzouros served as the study's lead author. The study was published in the October issue of The American Journal of Sports Medicine.



Jonathan H. Shaw, M.D., chief resident of Orthopaedic Surgery and **Jason Davis, M.D.**, orthopaedic surgeon, received the American Association of Hip and Knee Surgeons (AAHKS) Clinical Research Award during the 2022 Annual Meeting. The study examined if Oral Dexamethasone Following TKA Reduce Pain Scores.

Care Around the Globe

Henry Ford Detroit Pistons Team Physicians Part of the Healthcare Team for International NBA Game

[Vasilios \(Bill\) Moutzouros, M.D.](#), and [Ramsey Shehab, M.D.](#), team doctors for the Detroit Pistons, recently traveled to France with the team for a Jan. 19 international NBA game between the Detroit Pistons and the Chicago Bulls at Accor Arena in Paris. Dr. Moutzouros is an orthopedic surgeon and chief of the Sports Medicine division at Henry Ford Health and head team physician for the Pistons. Dr. Shehab is a primary care sports medicine physician and deputy chief of Sports Medicine at Henry Ford and serves as the Pistons' team internist. Henry Ford Health is the official healthcare provider for the Detroit Pistons.

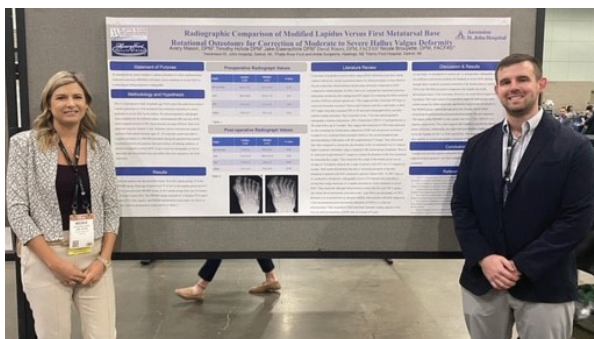


Pictured from left, Dr. Moutzouros, Henry Ford President and CEO Bob Riney, and Dr. Shehab at Accor Arena in Paris.



Pictured from left, Dr. Shehab and Dr. Moutzouros at the Eiffel Tower

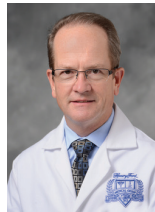
Henry Ford Health Foot & Ankle Team Research Selected for ACFAS Conference



Nicole Brouyette, DPM, FACFAS, along with Henry Ford podiatric surgery residents, Donald McDonald, DPM PGY3 and Avery Mason, DPM PGY 2, were selected to present two research posters at the American College of Foot and Ankle Surgeons (ACFAS) conference this month in Los Angeles, CA. The first topic presented was "Hallux Valgus is a Triplanar Deformity". There have been multiple procedures discussed to correct triplanar deformity. This case series compared the radiographic angles for a proximal derotational osteotomy compared to a modified Lapidus procedure. The second topic was "Correction of Metatarsus Adductus with 1st Tarsometatarsal Arthrodesis and Closing Cuboid Osteotomy." Congrats to Dr. Brouyette and team for their impressive research efforts and for representing Henry Ford Health at this event.

Ortho Spotlight: Bone Cancer and Soft Tissue Sarcoma

The Henry Ford orthopaedic oncology team sees and treats several hundred new patients yearly to diagnose and treat benign and malignant bone and soft tissue tumors in the pediatric and adult patient populations. Treatment is also provided for both primary and metastatic disease affecting the musculoskeletal system.



Michael Mott, M.D. division chief of Musculoskeletal Tumor and associate orthopaedic residency program director at Henry Ford, explains work up of suspected tumors consists of imaging and biopsy followed by resection and reconstruction.

“Typically, reconstruction is performed after removal of the tumor and is uniquely tailored to functionally replace the diseased area and may consist of nothing, metal and plastic implants, allografts (cadaver bone), tissue transfers or tissue rotation or a combination of the aforementioned.”

Patients who come to Henry Ford for bone cancer and soft tissue sarcoma care benefit from comprehensive treatment and care including:

- **Experienced team:** Orthopedic surgeons are fellowship trained and board certified with more than 40 years of combined experience treating bone cancer and soft tissue sarcoma. Henry Ford is one of only a few teams in the Midwest with this level of training and experience.
- **Specialized care:** The team diagnoses and treats all types of bone cancer and soft tissue sarcoma, including rare or complex conditions.

- **Limb-sparing surgery:** Doctors are experienced in surgical techniques that preserve limbs whenever possible. Surgeons also perform bone reconstruction to restore function and quality of life after cancer treatment.
- **Team approach:** The bone cancer and soft tissue sarcoma team includes surgeons, medical oncologists, radiation oncologists and other cancer experts who customize the patient treatment plan.
- **Clinical trial opportunities:** Patients have access to many options at Henry Ford, thanks to the doctors’ ongoing commitment to clinical trials and research for bone cancer and soft tissue sarcoma. Henry Ford participates in surgical protocols to measure outcomes and continue improving the care we provide.
- **Support team:** Patients have their own nurse navigator to streamline and guide care.

Patients are seen at the Henry Ford Cancer Institute at the Detroit campus and at Henry Ford West Bloomfield Hospital.

For more information, visit www.henryford.com/services/bone-cancer

Henry Ford Sports Medicine Fellows Provide Medical Coverage in New York



Our sports medicine fellowship director Dr. James Moeller and sports medicine fellows, Drs. Miguel Lopez, Dylan Rogers and DJ Lawlor, served as medical coverage and guest lecturers at this year’s Winter World University Games in Lake Placid, New York. Over the course of the 11-day competition, they worked with athletes competing in various figure skating, long and short track speed skating, and ice hockey events, as well as in the athlete village.



Orthopaedics Department Embarks on Initiatives to Improve Diversity

Several studies and data from the U.S. Census Bureau, the Accreditation Council for Graduate Medical Education, and the American Academy of Orthopaedic Surgeons continue to reveal that orthopedic surgery is the least diverse of any surgical specialty.

Charles Day, M.D., M.B.A, Henry Ford Health interim medical director and chairman of Orthopaedic Surgery, has published extensively on the lack of diversity in the profession. He said when it comes to moving the needle on diversity, orthopaedic surgery has a long way to go. "When you see the pattern for so many years it becomes evident there's something systemic."

To help combat this issue, Henry Ford hand surgeon, Elizabeth King, M.D., new chair of the diversity committee for the Orthopaedic Surgery Department, said several initiatives are underway to improve diversity in the profession.

This includes the creation of a diversity scholarship by Joseph Hoegler, M.D., vice chair of Orthopaedic Surgery at Henry Ford, for visiting medical students to help offset the cost of their away rotation. She explained, students applying for the orthopedic surgery residency typically do one to two one month long away rotations.

"This is the first year we funded two visiting students who come from backgrounds that are underrepresented in orthopaedic surgery," said Dr. King. "It's an exciting effort to increase diversity in our residency training program, and we are happy that we'll be able to continue to offer funding for this established Diversity Equity Inclusion (DEI) scholarship in years to come."

Henry Ford also hosted Toni McLauren, M.D., Bellevue Hospital chief of Orthopaedics and a national leader in orthopaedic surgery DEI as a guest speaker for Grand Rounds.

Inspiring women to pursue orthopaedic surgery

Studies have shown early exposure to the field can increase women's interest to pursue a career in orthopedics.

Henry Ford Health, in partnership with the Perry Outreach Program, hosts a one-day career exploration workshop for young women in high school who are interested in careers in orthopedic surgery. The event this past year, aimed at empowering women to pursue the profession as well as biomedical engineering, included Henry Ford orthopaedic surgeons Stephanie Muh, M.D., organizer of the workshop, Patricia Kolowich, M.D., workshop instructor, Dr. King and several orthopaedic surgery residents who helped facilitate the program.

"This workshop is just one example of Henry Ford's commitment to improving diversity within our specialty service as well as providing resources to young women who choose to pursue this career and become leaders in the field," said Dr. Muh.

Henry Ford has hosted the program for the last three years and is one of fewer than 50 locations nationwide where the day-long program is held throughout the year.

Orthopaedics Senior Leadership Business Corner

Expanding the Virtual Care Footprint

According to a Dec. 16 report from the [American Medical Association](#), more than 30 percent of U.S. residents have used telehealth in the last 12 months, continuing a pandemic era trend that does not seem to be going away.



That statistic is mirrored at Henry Ford where virtual care is open to all orthopaedic providers. Trevor Banka M.D., who co-chairs the orthopaedic virtual care committee at Henry Ford has been using virtual care since 2017. He estimates that

one-third of his patients are now participating in virtual care visits and he sees that number going up due to the efficiency in care and convenience for patients.

“Patients of all ages are welcoming the convenience of not having to take half a day for a post op visit,” he says.

Henry Ford offers a virtual care team to facilitate the visit including contacting the patient 30 minutes before the visit to provide a dry run of the meeting.

From an economic standpoint, it offers several benefits including less clinical resources needed while billing at the same rate as in person visits.

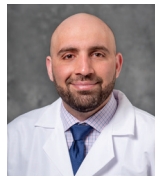
For patients who are not comfortable with the technology, the software functionality allows family members to link into the visit to be present for the virtual meeting.

“Virtual visits also adds the benefit of opening up clinic scheduling for new patients,” says Dr. Banka.

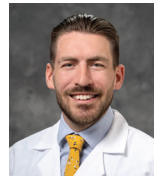
The secure scheduled video and audio enabled appointment is accessed from a patient’s tablet, smartphone or video-enabled laptop/computer through the Henry Ford MyChart patient portal. Patients can also call (313) 876-7951 to request a MyChart Video Visit.

For more information, visit henryford.com/virtualcare.

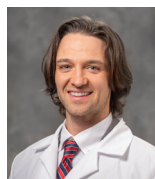
Welcome Henry Ford Health Orthopaedic and Sports Medicine Specialists



Ahmad Bazzi, M.D.
Specialties: Sports Medicine
Location: Henry Ford Medical Center-Fairlane
Contact: (800) 436-7936



Seth Swary Ph.D.
Specialties: Sports Psychology
Location: Henry Ford Center for Athletic Medicine



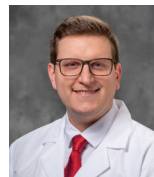
Jake Carpenter-Thompson, M.D., Ph.D.
Specialties: Sports Neurology
Locations: Henry Ford Detroit Pistons Performance Center, Henry Ford Center for Athletic Medicine, Henry Ford Medical Center – Columbus, Henry Ford Medical Center - Plymouth



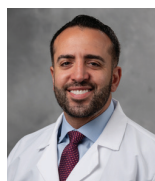
Larry Ulrey, M.D.
Specialties: Orthopaedic Surgery, Non-surgical Joint Pain Treatment
Locations: Henry Ford Medical Center – Lakeside, Henry Ford Medical Center – Troy
Contact: (800) 436-7936



Christopher Minnock, M.D.
Specialties: Orthopaedic Surgery, Pediatric Orthopaedics
Location: Henry Ford West Bloomfield Hospital
Contact: (248) 661-6470



Jason Weslosky D.P.M.
Specialties: Foot and Ankle Surgery, Podiatry-Foot Health
Locations: Henry Ford Hospital, Henry Ford Medical Center – Fairlane, Henry Ford Medical Center - Sterling Heights, Henry Ford Medical Center - Columbus (Podiatry)
Contact: (800) 436-7936



Derek J. Semaan, M.D.
Specialties: Orthopaedic Surgery, Joint Replacement
Location: Henry Ford Allegiance Orthopedic & Neuroscience Center
Contact: (517) 205-1431



To refer a patient please
visit henryford.com/RPO
or call 877.434.7470.

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