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FOCUS ON:
PATIENTS, SERVICE, RESEARCH, TEACHING

Colleagues:
The summer 2016 Orthopaedia from Vanderbilt Orthopaedics highlights new clinics, patient stories and recent educational conferences. We are proud that our entire department continues its focus on the patient, service and advancing our specialty through research and teaching.

The musculoskeletal health burden continues to rise. In the United States today, more than half of the adult population (>18 years old) report having a chronic musculoskeletal condition. Three of the top four most commonly reported medical conditions are musculoskeletal related (low back pain, joint pain & disability from arthritis) which end up requiring orthopaedic care. From 2009-2011, the average annual direct and indirect (lost work) costs attributable to persons with a musculoskeletal disease were $213 billion (www.boneandjointburden.org ).

The health care environment in the US is evolving. Orthopaedists and other medical professionals are keenly aware of the shift from volume based to value based care. Orthopaedists firmly believe that they are the most qualified medical professionals to develop and assess measures for evaluating the quality of care patients receive for musculoskeletal conditions. This is premised on their professional skill set and their belief in the sanctity of the patient-doctor relationship. Third party payers, businessmen and bureaucrats are creating an alphabet soup of laws, acts, data bases, performance measures and outcome analyses which obfuscate medical care.

People are thinking differently these days. Too often the business of health care takes priority over the care of patients. Profit can overtake ethics. Here at Vanderbilt, while we may not have the entire roadmap, our moral compass remains focused on improving musculoskeletal health for each and every one of our patients.

Sincerely,

Herbert S. Schwartz, M.D.
Professor and Chairman
Orthopaedics Endowed Chair
Vanderbilt Department of Orthopaedics
New Clinics Open in Brentwood and Franklin

In March, Vanderbilt Bone & Joint opened two new locations in Williamson County, bringing the total number of clinics in the county to four. The expansion of services accommodates growing demand and emphasizes patient convenience.

“We had more business than we could accommodate in our current infrastructure,” said Lisa Raines, chief business officer for the Vanderbilt Department of Orthopaedics. “And patients love being able to stay closer to home.”

The new clinics are located at 343 Franklin Rd. in Brentwood and 302 Royal Oaks Blvd. in Franklin. Last year, another new clinic opened at 1003 Reserve Boulevard in Spring Hill. These locations are in addition to Vanderbilt Bone & Joint’s first clinic in Williamson County, at 206 Bedford Way in Franklin.

According to Raines, Vanderbilt Bone & Joint has historically seen about 75,000 visits a year, and a 5 percent increase is expected through the three new locations. She said that the most frequently treated issues at the new locations are hand, foot, ankle, and sports injuries.

Foot, ankle, spine, podiatry and physiatry specialists will be based at the new Franklin location, which adds 22 exam rooms in more than 12,000 square feet. Vanderbilt Bone & Joint also acquired a lease on an adjacent building, anticipating future needs of the growing Williamson County population.

Read more about the new clinics here.
**Orthopaedic Patient Honored at Basketball Game**

Kayden Waddy, age 9, has an extremely rare and newly defined condition called CLOVES (overgrowth) syndrome, which affects only 150 people in the country. During one of his visits to Vanderbilt Orthopaedics, his nurse, Melissa Tummins, LPN, noticed that he was playing football on his iPad while waiting for his doctor, Jennifer Halpern, M.D.. When Halpern told Waddy he needed surgery to remove a mass, he began to cry because he didn’t want another operation. Tummins tried cheer him up by talking about football while his mother and the doctor discussed the details of the surgery. Ultimately, she struck a deal with him: If he came back for his surgery, Vanderbilt football players would come visit him.

Both Waddy and Tummins kept their promises. Tummins enlisted the assistance of Robert “Warne” Fitch, M.D., assistant professor of orthopaedics and rehabilitation and Vanderbilt Athletics’ head team physician, who arranged for the enthusiastic football players to visit Waddy after his surgery.

Waddy was later selected as the guest of honor at the January 16th basketball game between Vanderbilt and Alabama. He received the game ball and a standing ovation. Vanderbilt Orthopaedics is the official sports medicine provider for the Commodores and was the sponsor for that game.

Before Douglas Weikert, M.D., ever stepped foot on Vanderbilt’s campus, he followed Larry Bird down a basketball court in French Lick, Ind., where the NBA legend was five grades ahead of him in school.

Weikert says he wasn’t as good as Byrd, but he received a basketball scholarship to Vanderbilt and went on to complete his undergraduate and medical degrees, internship and orthopaedic residency here.

Following a fellowship in hand surgery at the Indiana Hand Center, Weikert returned to Vanderbilt as a faculty member. His work ranges from treating professional athletes, to traveling as the Commodore football team physician to reconstructing a child’s limb.

Weikert often turns on ESPN and sees a patient playing.

“If I have a patient playing for the Boston Red Sox or the Nashville Predators or Tennessee Tech or Austin Peay — (continues on page 4)
In the News

“One of the real positive things about being here is that it has made me a better surgeon — hopefully a better person as well.” - Weikert

(from page 3)
whoever — I take more than just a passing interest in that game,” he said. “I want to know how my patient is doing.”

He has worked with many of his pediatric patients over the course of years, supporting them through complex treatments and challenging rehab, and growing up with the limitations of their injuries.

“You never know what you are going to see,” he said. “For me, I think one of the real positive things about being here is that it has made me a better surgeon — hopefully a better person as well.”

Read more about Weikert’s work here.

Earthquake Survivor’s Journey Leads to Children’s Hospital

When a magnitude 6.9 earthquake struck San Marcos, Guatemala in July 2014, a wall fell on 8-year-old Dolman Morales-Ortiz, fracturing his pelvis, severing his urethra from his bladder and leaving him unable to urinate.

Through a partnership between Monroe Carell Jr. Children’s Hospital at Vanderbilt and The Shalom Foundation, a Franklin, Tenn. based nonprofit and humanitarian organization, the young boy traveled to Nashville to receive the intricate surgery needed to repair his injuries. His father, Eleuseo Morales-Garcia, accompanied him, and the two stayed for one month with a host family in Nashville, organized by The Shalom Foundation.

The treatment required a coordinated team approach that involved Gregory Mencio, M.D., professor of orthopaedics and rehabilitation and the Neil E. Green Chair in Pediatric Orthopaedics, and Douglass Clayton, M.D., assistant professor of urologic surgery.

Dolman underwent a transpubic urethroplasty, which involved removing all the scar tissue from the original injury and connecting the healthy parts of the urethra back together again. Mencio removed a section of the pubic bone to allow Clayton access to the injured area for the repair.

“I would like to thank everyone — the doctors, the Shalom Foundation — and I thank God for granting his power to bring my son here,” said Morales-Garcia. “I feel very happy and content with the doctors who did the surgery. I will take with me the many good things I have seen here in Nashville. I am very thankful.”

Personnel from Children’s Hospital have been traveling to Guatemala about twice a year since 2006 and have performed more than 500 free surgeries on children. In 2011, Shalom opened the Moore Pediatric Surgery Center in Guatemala City, which is the base for Children’s Hospital care teams when they travel.

Read more about Morales-Ortiz’s journey here.
The J. William Hillman Lecture and 41st Annual Vanderbilt Orthopaedic Society Meeting were held April 14-16 at the Frist Center for the Visual Arts in Nashville, Tenn. Thomas K. Fehring, M.D., of the Carolinas Healthcare System and past president of American Association of Hip and Knee Surgeons, served as the guest lecturer. Fehring previously completed an internship in general surgery and a residency in orthopaedic surgery at Vanderbilt. The two-day conference included a symposia on surgical approaches for THA, infection and basic science; sports; hand care; and arthroplasty; and concluded with the VOS business meeting.

The 11th Annual Vanderbilt Hand & Upper Extremity Conference was held April 1-2 at the Frist Center for Visual Arts and the Vanderbilt Anatomy Lab. The focus of this year’s conference was failed upper extremity surgery, including assessment, treatment options and corrective procedures for patients with unsuccessful hand surgeries and upper extremity disorders. Course faculty represented academic medical centers and clinics from several states. Conference sessions focused on the shoulder, elbow, hand and wrist.

The 10th Annual Kenneth D. Johnson Lecture and Tennessee Orthopaedic Trauma Symposium were held Feb. 19 at the Vanderbilt University Club. Marcus Sciadini, M.D., associate professor of medicine at the University of Maryland R. Adams Cowley Shock Trauma Center, served as guest speaker. Sciadini earned his medical degree at Vanderbilt University and also completed an internship in general surgery, a residency in orthopaedic surgery and a research fellowship here. Conference sessions focused on ankle fractures, synodesmosis fixation, calcaneal fractures, and pelvis/acetabular fractures.

### Upcoming Conference

**THE ASES SOUTHERN SHOULDER COURSE: BOOTS, BLUE JEANS, AND BOURBON**

**SEPTEMBER 23, 2016**

**MUSIC CITY CENTER**

After participating in this CME/CEU activity, participants should be able to describe and discuss key factors affecting rotator cuff tear progression and healing, management of acute traumatic anterior shoulder dislocation and different approaches to subscapularis management in total shoulder arthroplasty.

Marcus Sciadini, M.D.
VUMC Study Shifts Thinking On How Bone Fractures Heal

Research by Jonathan Schoenecker, M.D., Ph.D., and colleagues sheds new light on how fractures heal, and could have implications for future efforts to promote fracture repair. The findings, reported in the August issue of the *Journal of Clinical Investigation*, demonstrate that fibrin, a protein once thought to play a key role in fracture healing, is in fact not required. Schoenecker and the research team are working toward “orthobiologics” to reduce fibrin levels or enhance fibrin clearance and improve fracture healing. They are also working to improve the mechanical devices used in orthopaedic surgeries so that they don’t disrupt the ability of blood vessels to grow and reconnect. Read more here.

Over-The-Phone Physical Therapy Initiative Helps Ease Spine Patients’ Pain

Spine surgery patients at risk for poor recovery can benefit from cognitive-behavioral based physical therapy, according to a new study led by Kristin R. Archer, Ph.D., D.P.T., assistant professor of orthopaedic surgery and rehabilitation and physical medicine and rehabilitation. The study, published recently in *The Journal of Pain*, is the first to assess a phone-based physical therapy intervention based upon cognitive behavioral therapy following spine surgery. The intervention group scored 9.8 points better on the Oswestry Disability Index than the control group and 17 points better than what was reported prior to treatment. The next step is a collaboration between VUMC and Johns Hopkins Medicine to integrate cognitive-behavioral based strategies into the clinical practice of physical therapists. Read more here.

Joint Injections Speed Knee Replacement Recovery

According to a new study by Andrew Shinar, M.D., associate professor of orthopaedic surgery and rehabilitation, a non-opioid option works better than nerve blocks for patients recovering from knee replacement surgery. The findings have led the Vanderbilt Joint Replacement Center to stop administering nerve blocks during knee replacements. The study compared 40 patients who received combined femoral and sciatic nerve blocks to 40 patients who received intra-articular injections of a numbing medicine. Shinar presented the findings from his study at the 2015 annual meetings of the Southern Orthopaedic Association and Tennessee Orthopaedic Society. Read more here.

Novel Treatment Strengthens Bones in Genetic Disease

An enzyme therapy may prevent skeletal abnormalities associated with the genetic disorder neurofibromatosis type-1, according to a new study led by Florent Elefteriou, Ph.D., former director of the Vanderbilt Center for Bone Biology. The findings, reported in the journal *Nature Medicine*, demonstrated that the enzyme asfotase-alpha improves bone growth, mineralization and strength, suggesting that this enzyme therapy could make bones stronger and possibly prevent (continues page 7)
In addition to the responsibility of day-to-day management of the QOD registry, the team will develop and create valid methods of measurement, analysis and reporting, models for outcomes and quality endpoints and prepare benchmarking reports for each participating site. Clinton Devin, M.D., and Frank Harrell, Ph.D., Chair of the Department of Biostatistics, will provide expertise related to predictive modeling and presentation of quarterly reports and QOD manuscripts.

Collaboration Developing New Therapies

La Jolla Pharmaceutical Co. and Vanderbilt University have signed a research and license agreement covering Vanderbilt’s research program and intellectual property rights related to compounds that block bone morphogenetic protein (BMP) type-I receptors. The compounds have therapeutic potential in a broad range of diseases, including rare genetic disorders. Co-principal investigators on the study include Charles Hong, M.D., Ph.D., associate professor of medicine, and Corey Hopkins, (continues page 8)

Review Highlights Financial Impact of Sarcoma Misdiagnosis

A new review by Ginger Holt, M.D., Jennifer Halpern, M.D., and Herbert Schwartz, M.D., of the Vanderbilt Sarcoma Center, is the latest effort to reverse a longstanding trend of delayed referrals for the rare cancer. The review of 32 court cases found that malpractice awards and settlements are eight times greater when physicians misdiagnosis sarcoma than when they make other mistakes. For orthopaedic surgeons, the indemnity payments were 17 times higher, while primary care physicians were more likely to be sued. New imaging technology developed at Vanderbilt University allows Sarcoma Center surgeons to better determine the margins of sarcoma cells. Holt, who is one of the inventors of that technology, presented a lecture about it at the Musculoskeletal Tumor Society conference in October. Read more here.
Ph.D., assistant professor of pharmacology and chemistry at Vanderbilt. They identified the first BMP receptor inhibitor which they named dorsomorphin. Hopkins and Craig Lindsley, Ph.D., have focused on synthesizing new compounds that selectively block specific members of the BMP type-I receptor family. Hong and Daniel Perrien, Ph.D., assistant professor of orthopaedic surgery and rehabilitation, are testing the compounds in a variety of animal and cellular models.

Read more here.

**FOUNDATION RESEARCH GRANTS**

**Orthopaedic Spine Research Team receives Grants to Study an Early Home Exercise Program after Spine Surgery**

Cervical Spine Research Society (CSRS) seed starter grant and a Physical Therapist Association (APTA), Orthopedic Section, research grant have been awarded to the spine research team (Clinton Devin, M.D., Kristin Archer, Ph.D., D.P.T., and Rogelio Coronado, P.T., Ph.D.) to conduct a two-group randomized controlled trial in patients after anterior cervical decompression and fusion (ACDF). The aim of this trial is to examine the safety and efficacy of an early home exercise program (HEP) for improving disability, pain and general health in patients following ACDF. The results of the randomized trial will advance research on postoperative management for patients with cervical spine surgery and provide evidence in line with a value-based healthcare approach for optimizing outcomes.

Clinton Devin, M.D.

**Schoenecker and Mignemi receive POSNA funding for New Pediatric Consortium**

Assistant Professors of Pediatric Orthopaedics, Jonathan Schoenecker, M.D., Ph.D., Principal Investigator and Megan Mignemi, M.D., Co-Principal Investigator, were recently awarded funds by the Pediatric Orthopaedic Society of North America (POSNA) for their research titled Regional Variations in Pediatric Musculoskeletal Infection. Schoenecker and Mignemi, along with Benjamin Shore, M.P.H., FRCSC, from Harvard Medical School and Scott Rosenfeld, M.D., from Baylor College of Medicine, have established The Children’s Orthopaedic Trauma and Infection Consortium for Evidence Based Study (CORTICES) group. CORTICES consists of a collection of pediatric orthopaedic surgeons from across the United States who together have pledged to design research projects to improve the evidence behind the treatment of orthopaedic trauma and musculoskeletal infection (MSKI) in children. The overall goal of the POSNA/CORTICES group is to optimize the quality, safety and value of care received by children with MSKI. The purpose of this proposal is to determine the regional differences in the burden, epidemiology, severity, causative pathogens and variations in clinical practice of MSKI.
LSRS Research Grant Awarded to Devin, Chotai, Archer

The Lumbar Spine Research Society (LSRS) awarded Clint Devin, M.D., Principal Investigator, and Silky Chotai, M.D., Kristin Archer, Ph.D., D.P.T., Co-investigators, a one year research grant, titled Randomized Clinical Trial to Determine Efficacy and Feasibility of Using Predictive Model Based Calculator as a Shared Decision-Making Tool for Lumbar Spine Surgery. The study will test the feasibility of using a web based calculator for predicting patient-reported outcomes following lumbar spine surgery as a shared decision making (SDM) tool. A randomized controlled clinical trial (SDM vs. usual care) will be conducted.

Sielatycki awarded OREF Resident Research Grant

The Orthopaedic Research and Education Foundation (OREF) has awarded Alex Sielatycki, PGY 5, a resident research project grant to study Posterolateral Fusion Augmented by Autogenous A Possible Bone Graft Substitute in Spine Fusion. The primary goal of this investigation is to harness the unique capability of hypertrophic chondrocytes to thrive in hypoxia, promote angiogenesis and induce bone formation for the purpose of augmenting spinal fusion. The hypothesis is that hypertrophic chondrocytes introduced into a spine fusion bed will recapitulate the fracture healing mechanism and result in a fusion mass at least equivalent to iliac crest autograft. The work is in the lab of Sielatycki’s mentor, Jonathan Schoenecker, M.D., Ph.D., Assistant Professor of Pediatric Orthopaedics.

FELLOWSHIP FUNDING

Six Divisions have received funds for 2016-17 Surgical Fellowships

Omega Medical Grants has awarded fellowship funding for 2016-17 to:

1. Division of Adult Reconstruction, Gregory Polkowski, M.D., Director
2. Division of Hand and Upper Extremity, Donald H. Lee, M.D., Director
3. Division of Musculoskeletal Oncology, Ginger Holt, M.D., Director
4. Division of Pediatric Orthopaedics, Gregory Mencio, M.D., Director
5. Division of Orthopaedic Trauma, Cory Collinge, M.D., Director

The Division of Orthopaedic Trauma will also receive funds from the Center for Orthopaedic Trauma Association (COTA) and AO Trauma in support of our Orthopaedic Trauma fellowship program.

Sports Medicine fellows will once again be funded through DePuy Mitek and Smith and Nephew surgical fellowships. Charles Cox, M.D., serves as the Sports Medicine Surgical Fellowship Director.

RESIDENT EDUCATION GRANT

Our residency program has received a Resident Education Grant from OMEGA medical grants. The OMEGA award will be used to fund expenses for hip and knee courses in the cadaver lab. Ginger Holt, M.D., is the Director of the Vanderbilt Orthopaedic Surgery Residency Program.
New Faculty and Residents

Leon Scott, M.D., joined Vanderbilt on July 1 as an assistant professor of clinical orthopaedics and rehabilitation. He is based at the Vanderbilt Bone & Joint clinic in Spring Hill. Scott graduated from Washington University at St. Louis School of Medicine in 2007, followed by pediatric residencies at Washington University- St. Louis Children’s Hospital and Saint Louis University- Cardinal Glennon Children’s Medical Center. He completed his fellowship in primary care sports medicine at Harvard University- Children’s Hospital Boston. He is a member of American Academy of Pediatrics Council on Sports Medicine and Fitness and the American Medical Society for Sports Medicine. Scott’s research interests include investigating how wearable technology and patient-reported outcomes impact the use of different sports medicine therapies.

Kevin Dabrowski, M.D., joined Vanderbilt on July 1 and splits his time between the Adult Emergency Medicine Department and as a non-operative sports medicine physician with the Division of Sports Medicine. Dabrowski graduated from University of Georgia with a degree in exercise and sports science. He received his medical degree from Rush Medical College and completed a residency in emergency medicine at the University of Virginia, where he served as Housestaff President. Following residency, Dabrowski completed a fellowship in primary care sports medicine at Vanderbilt. His interests include medical student and resident education, as well as the non-operative management of musculoskeletal conditions.

Incoming PGY1 Orthopaedic Residents. We are pleased to announce that the following individuals joined the Vanderbilt Orthopaedic Residency Program this July to begin their PGY-1 year in General Surgery:

- Hayden L. Joseph, University of Texas School of Medicine at San Antonio
- Kirsten E. Ross, Sidney Kimmel Medical College at Thomas Jefferson University
- Steven “Dane” Swinehart, University of South Carolina School of Medicine Greenville
- Daniel R. Verhotz, Case Western Reserve School of Medicine
- John P. Wanner, Medical College of Wisconsin

NEW PHYSICAL THERAPY RESIDENCY

Vanderbilt University Medical Center has launched specialized physical therapy (PT) residency programs in orthopaedics (sports) and pediatrics, in addition to an existing neurological program, making Vanderbilt one of a handful of hospitals in the country to offer three or more physical therapy residencies. Read more here.
Mencio Named Director of American Board of Orthopaedic Surgery, Honored for Service to Military Families

Gregory Mencio, M.D., Neil E. Green professor and vice chairman of Orthopaedics, has been named as a director of the American Board of Orthopaedic Surgery (ABOS). He will serve a 10-year term.

Mencio was also recently honored for his long-term dedication to military families at Fort Campbell, Ky. Blanchfield Army Community Hospital (BACH) and Fort Campbell recognized Mencio with the Commander’s Award for Civilian Service. For 23 years, Mencio served as a physician consultant in pediatric orthopaedics, traveling monthly to care for children and adolescents and provide training and guidance to BACH hospital staff. He established and staffed a monthly clinic that provided diagnosis and care not typically available at the community hospital level for children and adolescents with orthopaedic needs. He also developed referral mechanisms that allowed seamless care for patients who required specialty care in orthopaedics at Vanderbilt.

Diamond Represents Tennessee at 2016 Collaborative Solutions for Safety in Sport Meeting

Alex Diamond, D.O., M.P.H., assistant professor of pediatrics and orthopaedics and rehabilitation, was one of two state representatives at the 2016 Collaborative Solutions for Safety in Sport meeting held recently in Indianapolis. According to Diamond, even though Tennessee has laws and policies in place to protect young athletes from sports-related fatalities, more diligence is needed to abide by them. The meeting focused on the four top causes of deaths among youths during sports events. Read more here.

Fitch Appointed Vanderbilt Athletics’ Head Team Physician

Robert “Warne” Fitch, M.D., associate professor of orthopaedic surgery and rehabilitation, has been appointed Head Team Physician for Vanderbilt Athletics. A sports medicine specialist, Fitch has been active in the care of Commodore student-athletes for nearly a decade. He has served as a team physician for the Vanderbilt football squad since 2006 and has also cared for numerous Commodore student-athletes. Additionally, he has worked with members of the Nashville Predators, the Nashville Sounds and athletes from numerous Middle Tennessee high schools. Fitch will maintain his responsibilities with the VUMC Sports Medicine program. Read more here.

Archer Keynote Speaker at Foundation for Physical Therapy Gala

Kristin Archer, Ph.D., D.P.T., Associate Professor and Vice Chair of Research, was a keynote speaker at the Foundation for Physical Therapy gala in Nashville on June 9. Archer was a 2011 Magistro Family Grant awardee, funded by the foundation. The emphasis of the talk was how the grant impacted her research and her career. She is pictured here at the gala with her post-doctoral fellow, Rogelio Coronado, P.T., Ph.D., and president of the foundation, Barbara Connolly, D.P.T., Ed.D., FAPTA.


Barcak E, Collinge CA. Metaphyseal Distal Tibia Fractures: A Cohort, Single-Surgeon Study Comparing Out (continues page 13)
Publications

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Publications


Lima GM, Corazza BJ, Moraes RM, de Oliveira FE, de Oliveira LD, Franco GC, Perrien DS, Elefteriou F, Anbinder AL. The effect of an inhibitor of gut (continues page 16)
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serotonin (LP533401) during the


Publications


(from page 18) 26566333; PubMed Central PMCID: PMC4600831.


Clinical and Research Faculty

CLINICAL FACULTY
Scott T. Arthur, M.D.
Assistant Professor of Clinical Orthopaedic Surgery
Division Director, Vanderbilt Bone and Joint
Vanderbilt Bone and Joint
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Associate Professor of Emergency Medicine and Pediatrics
Associate Professor of Pediatric Orthopaedics
Director, Pediatric Emergency Department
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Cory A. Collinge, M.D.
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Division Director, Orthopaedic Trauma
Fellowship Director, Orthopaedic Trauma
Orthopaedic Trauma

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Assistant Professor of Orthopaedics and Rehabilitation
Fellowship Director, Sports Medicine and Shoulder Surgery
Sports Medicine

Kevin H. Dabrowski, M.D.
Assistant Professor of Orthopaedics and Rehabilitation
Assistant Professor of Emergency Medicine
Sports Medicine

Kirby “Hudson” Deeter, D.P.M.
Associate in Orthopaedics and Rehabilitation
Podiatry

Ronald G. Derr, D.O.
Assistant Professor of Clinical Orthopaedic Surgery
Vanderbilt Bone and Joint
Sports Medicine, Foot and Ankle

Mihir J. Desai, M.D.
Assistant Professor of Orthopaedics and Rehabilitation
Hand and Upper Extremity

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Associate Professor of Orthopaedics and Rehabilitation
Associate Professor of Neurological Surgery Division
Director, Spine
Spine

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Assistant Professor of Orthopaedics and Rehabilitation
Assistant Professor of Pediatrics
Sports Medicine, Pediatric Orthopaedics

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Assistant Professor of Emergency Medicine
Sports Medicine

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Sports Medicine

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Foot and Ankle

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Associate Professor of Pediatrics
Sports Medicine, Pediatric Orthopaedics

Jennifer L. Halpern, M.D.
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Musculoskeletal Oncology

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Vanderbilt Bone and Joint
Spine
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Clinical and Research Faculty

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Fellowship Director, Pediatric Orthopaedics
Director, Spina Bifida Clinic
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Fellowship Director, Joint
Joint Replacement; Hip Preservation

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Sports Medicine

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Assistant Professor of Pediatrics
Assistant Professor of Pharmacology
Assistant Professor of Pathology, Microbiology, and Immunology
Pediatric Orthopaedics

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Professor and Chairman of Orthopaedics and Rehabilitation
Professor of Pathology, Microbiology, and Immunology
Muscloskeletal Oncology

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Pediatric Orthopaedics, Sports Medicine, General Orthopaedics

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Division Director, Joint Center
Joint Replacement; Adult Reconstructive

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Assistant Professor of Orthopaedics and Rehabilitation
General Orthopaedics

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Professor and Former Chairman of Orthopaedics and Rehabilitation
Professor of Neurological Surgery
Spine

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Assistant Professor of Clinical Orthopaedic Surgery
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Sports Medicine

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Podiatry; Eskind Diabetes Clinic

Geoffrey L. Watson, M.D.
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Division Director, Hand and Upper Extremity
Hand and Upper Extremity

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RESEARCH FACULTY
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Daniel S. Perrien, Ph.D.
Assistant Professor of Orthopaedics and Rehabilitation
Health Research Scientist, TVHS and Department of Veterans Affairs

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**Mt. Juliet**
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302 South Royal Oaks Boulevard
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343 Franklin Road, Suite. 108
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**Vanderbilt Pediatric Orthopaedics**
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**Vanderbilt Spine Center**
One Hundred Oaks
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Nashville, TN 37204
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NorthCrest Medical Center
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**Vanderbilt Adolescent Sports Medicine**
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