

Winter 2024

BREAKING NEWS

for the alumni & friends of the University of Nebraska Medical Center
Department of Orthopaedic Surgery & Rehabilitation

The Orr Collection

On November 11, 2024, the Orthopaedic faculty, residents, and APPs were treated to a special viewing of the Orr Collection at the UNMC's McGoogan Library.

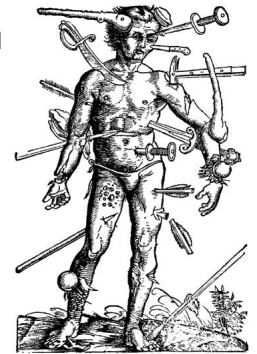
Born in 1877 in Pennsylvania, Hiram Winnett Orr, MD, received his medical degree from the University of Michigan in 1899. He practiced medicine and orthopedic surgery in Lincoln, Nebraska, from 1899 to 1956 and was instrumental in establishing the Nebraska Orthopedic Hospital in 1905. Orr was the hospital's assistant surgeon and superintendent from 1906 to 1917 and chief surgeon from 1948 to 1956. Orr was stationed with the Army Medical Department in England and France during World War I. He devised the "Orr Method" for

treating bone and wound infections and compound fractures during this time. He also developed techniques using skeletal pins, plaster of Paris, and other immobilizing devices. At his death in 1956, he was buried in Arlington Cemetery with full military honors.

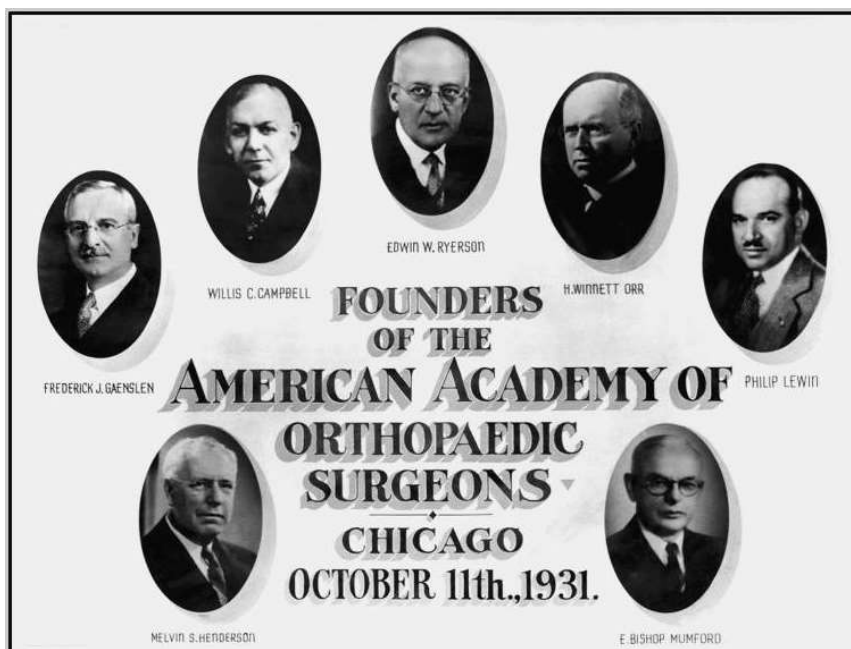
Orr was a founding member of AAOS (American Academy of Orthopaedic Surgeons).

Along with his involvement in AOA and AAOS, Dr. Orr was a member of

the Lancaster County Medical Association, the Nebraska Medical Association, the American Medical Association (serving as chairman of its orthopaedic section from 1921 to 1922), and the American College of Surgeons. He was a prolific writer and speaker and campaigned for advancing orthopaedic surgery. He died in Rochester, Minnesota, on October 11, 1956.



A devout scholar of medical history, Dr. Orr was an avid collector of medical texts. His collection forms one of the most authoritative bibliographies for the history of orthopaedics and the development of Western medicine in general. An article in the 1992 ACS Bulletin, a publication of the American College of Surgeons, highlights how Dr. Orr's continued "living" literary legacy is a testament to his being a "humanist, historian, editor, educator, and bibliophile" on top of his distinguished career as a physician



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BREAKING NEWS

Winter 2024

Breaking News is published two times a year for alumni and friends of the UNMC Department of Orthopaedic Surgery.

Chair:

Kevin L. Garvin, M.D.

For questions or comments, call 402.559.4251

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Find us online!

www.unmc.edu/orthosurgery

Message from the Chair

Happy New Year!

As we welcome 2025, we look forward with excitement and high expectations after an incredible 2024. On behalf of the Department of Orthopaedic Surgery, I want to extend heartfelt gratitude to our alums, friends, and supporters who continue to champion our mission through their generosity and encouragement. Your unwavering support has been pivotal, and we are deeply appreciative.

We are also thankful to the orthopaedic surgeons across Nebraska and the surrounding region for their dedication to patient care. Your trust in referring patients to us is both an honor and a privilege. Together, we have made significant strides—with a nearly 10% increase in clinical volume over the past year and a doubling since 2019!

As President of the American Board of Orthopaedic Surgery, I am continually reminded of our responsibility to serve and protect the public by certifying orthopaedic surgeons who are competent and committed to the highest standards of professionalism. This mission—to always prioritize patient well-being—is central to all we do. Dr. David Ring's recent article, "AOA Critical Issues: A Culture of Safety Across All Orthopaedic Professional Endeavors," underscores this principle, emphasizing the importance of behavioral ethics and the pursuit of a culture of safety.

Dr. Ring highlights that public trust in our profession relies on key values: altruism, integrity, accountability, and transparency. At the same time, he cautions against the risks of misinformation and disinformation—intentional or unintentional—that can undermine patient care and the public's trust. For instance, promoting unproven treatments or performing procedures without clear evidence of their efficacy not only jeopardizes patient outcomes but also compromises the integrity of our profession.

To counter these risks, Dr. Ring calls for systems that anticipate potential missteps, implement safeguards to mitigate harm, and support surgeons and their teams in upholding the public good. Such systems foster a culture where professionalism and patient safety are paramount.

In closing, I want to thank you all for making 2024 such a remarkable year. As we step into 2025, we are energized by the opportunities ahead and the collective impact we can achieve together. Your commitment to excellence inspires us to continue striving for a future where patient care remains at the heart of everything we do.

Here is to another year of success and meaningful progress!

Kevin L. Garvin, MD
L. Thomas Hood Professor of Orthopaedic Surgery
Chair, UNMC Department of Orthopaedic Surgery & Rehabilitation

A skilled surgeon's hands and an unconventional patient

How passionate is Joseph Morgan, MD, about hands?

"One of my favorite analogies," Dr. Morgan, associate professor of orthopaedic surgery and rehabilitation, said as he excitedly gestured at an X-ray, "is that the hand is the 'tool of tools.' That's what Aristotle called it.

Dr. Morgan typically sees human patients as a faculty member at UNMC. But this day, he was at the animal hospital at Omaha's Henry Doorly Zoo and Aquarium to repair a dislocated knuckle on the hand of an 8-year-old Francois langur named Yuki.

Yuki had "a relatively unique injury," said Taylor Yaw, DVM, the zoo's director of animal health, who oversaw the procedure. She sustained a dislocation at her third metacarpophalangeal joint that occurred at an abnormal age due to a previous fracture in this area, putting stress on the ligaments. As one can imagine, langurs utilize their hands and feet extensively when navigating their habitat, so a "very intricate surgery was necessary," Dr. Yaw said. The zoo's animal care teams have the expertise to care for more than 39,000 animals. After initially assessing Yuki's hand, the team wanted a second opinion due to the small size of the bones and the high impact a potential surgery could have on her future grooming, climbing, and social aspects of her life.

"We wanted another set of eyes on such a sophisticated case. Being a small- to medium-sized primate, we anticipated her anatomy would not be too different from a human pediatric case," Dr. Yaw said. So they called in the experts at UNMC.

Dr. Morgan was excited to say yes. He'd been reading up on monkey anatomy before the surgery. (His favorite hand anatomy textbook, and, yes, he has a favorite hand anatomy textbook, has a whole chapter on ape hands, and he's read that book three or four times.)

The patient came in carried on a towel. Dr. Morgan stepped in to get his first look at the hand and, after palpating it, determined that it would work.

The challenge wasn't just the intricacy of the surgery itself but making the fixed primate strong so it would hold up to the patient's active lifestyle. The surgery was not easy at first. Medical language is very similar between human and veterinary health, but there are some differences in medical instrument names and verbiage used. Human and veterinary teams quickly assimilated in the surgical room to become Yuki's best hope for a full recovery.

The metacarpal kept popping back out. They tried again. Then, they turned a corner. "That looks nice, that looks nice!" Dr. Morgan said that as his UNMC residents observed their



first-ever opportunity to scrub into a non-human primate surgery. Once recovered, she would head back to the Lied Jungle to be reunited with her troop, and Dr. Yaw said her animal care team would take over her rehabilitation plan and medications. They were hopeful the fix would hold long enough to heal.

And it did. The veterinary team rechecked Yuki a few weeks after the procedure and saw that the area had healed. She has regained her range of motion in her hand and can be seen swinging from branch to branch in the Lied Jungle.



Remembering Pat Clare, MD

Patrick E. Clare, MD, passed away on September 30, 2024

Pat came to Lincoln on a football scholarship and played football for the University of Nebraska from 1958-1961. He became one of the first Academic All-Americans in Nebraska Football history in 1960, and the football team elected him as a Team Captain in 1961. He graduated from the University of Nebraska in 1962. He enrolled at the University of Nebraska Medical Center in 1962, graduating from UNMC in 1966.

After an internship in Greeley, Colorado, and an Orthopedic surgery residency in Minneapolis, Minnesota, Pat and Linda moved their family to Ohio, where Pat served his country in the United States Air Force, attaining the rank of Major. He received an Honorable Discharge from the Air Force in 1973. Pat and Linda returned

to Lincoln, Nebraska, in 1973 to begin his medical practice, initially with Lincoln Orthopedic and Rehabilitation Clinic. Later, he was a founding member of Nebraska Orthopedics and Sports Medicine, PC, in 1987. He retired from his Orthopedic surgery practice in 2015. He also served as the Team Physician for the University of Nebraska Athletic Department, a position he held in the Athletic Department for 41 years, retiring in 2015.

In lieu of flowers, the Clare family requested donations be made to several places, including the University of Nebraska Foundation, 1010 Lincoln Mall, Suite 300, Lincoln, NE 68508, for use in the Department of Orthopedic Surgery at the University of Nebraska Medical Center.



Pat Clare, MD

ORR continued from pg 1

and surgeon: According to the catalog of Orr's collection, during his many years of wandering through the



Hiram Winnett Orr, MD

dust and cobwebs of second-hand bookstores throughout the world, Dr. Orr acquired an outstanding medical library, book by book. As these books accumulated, like so many bricks, they built a lasting monument to medical scholarship — the H. Winnett Orr Historical Collection.

The collection began during medical school in Michigan, where his first dollar spent went to a medical text. Later, while studying under Dr. Ridlon in Chicago, he purchased his first rare text — a two-volume set of Hippocrates for \$10. Other rare prizes in the collection include the complete works of Galen (republished in 1561 and 1562) and a 1941 edition of Andry's "L'Orthopedie ou l'art d'Homme." Following his death in 1956, the collection of books went to libraries of the Lancaster County Medical Society, the Lincoln General Hospital, and the University of Michigan, while some 2,600 items known as "The Orr Collection" went to the American College of Surgeons. The Orr Collection included

a systematic organization of works broken down into several categories, "Rare Books and Classics," through the evolution of the healing arts, military medicine, general literature, and more.

Two books of the wide-ranging works featured Dr. Orr's own byline: the biographical "Anne of Brittany" published in 1944, and another that highlights the work of his mentors, titled "On the Contributions of Hugh Owen Thomas, Sir Robert Jones and John Ridlon, M.D. to Modern Orthopaedic Surgery" published in 1949.

Because of the American College of Surgeons' concerns about its ability to preserve its special collections, the college discontinued the section of its library — including The Orr Collection. Returning the works to Dr. Orr's longtime home in Nebraska seemed appropriate. On October 11, 1974, UNMC accepted the curatorship of The Orr Collection, which is now safeguarded at the McGoogan Library on UMMC's campus.

Orthopaedic Department receives national recognition – AGAIN

Becker's Hospital Review spotlights 100 leading orthopedic programs across the U.S.

Becker's Hospital Review recognizes programs and institutes are devoted to delivering comprehensive, compassionate care for patients experiencing musculoskeletal conditions and injuries. Treating thousands of patients annually, the expert providers staffing these programs also run cutting-edge clinical trials and employ the latest innovations in orthopedic technology. These institutions have earned accolades from prestigious organizations like U.S. News & World Report, Newsweek, and Healthgrades, receive funding from organizations like the National Institutes of Health,

serve as official providers for elite sports teams, and hold the Joint Commission's Gold Seal of Approval.

The Nebraska Medicine orthopedic team, which features the state's only specialty-trained orthopedic oncologist, provides comprehensive treatment plans in nine areas of expertise, including adult reconstruction, foot and ankle, hand and upper extremity, orthopedic oncology, pediatric orthopedics, shoulder and elbow, spine, trauma, and sports medicine. The team of more than 35 orthopedic specialists and staffs the only state-designated comprehensive trauma center

serving children and adults. Research experts collaborate in a biomechanics laboratory, testing the durability of the next generation of prosthetic joints and creating "smart" implants that last longer and perform better, helping set national and international standards for joint replacement systems and biomedical research. Additional innovations include the latest and most comprehensive hip preservation techniques and being the first in the state to use a new ACL restoration procedure that repairs and preserves the native ACL using a special collagen scaffold to help the injured ACL heal.

Gallup Global Strengths Coaching Certification

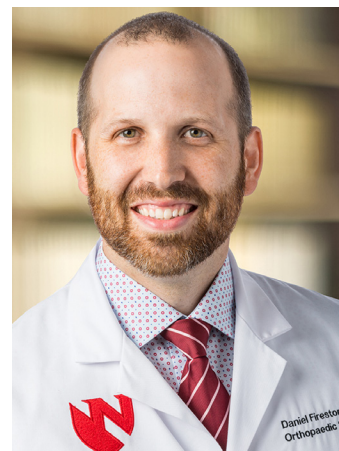
Dr. Dan Firestone has recently achieved a significant milestone by obtaining a Gallup Global Strengths Coaching certification. Dr. Firestone has long been a proponent of the fundamentals of Clifton Strengths, which focus on identifying and leveraging individual strengths to achieve personal and professional success. With this new certification, Dr. Firestone plans to implement strengths-based coaching with the Orthopedic Surgery residents and other physicians throughout Nebraska Medicine. This initiative aims to enhance the overall performance and well-being of the medical staff by helping them recognize and utilize their unique strengths in their daily practice. Dr. Firestone's commitment to this approach underscores his dedication to fostering a positive and empowering work environment within the medical community.

Physician Leadership Academy

Nebraska Medicine views all physicians as leaders in our organization and the community. To help them elevate their career to the next level of success, Nebraska Medicine launched a new internal physician leadership program in October 2024.

The Physician Leadership Academy, also known as PLA, is an elite, eight-month program that uses an evidence-based framework to promote key leadership skills. The program experience includes leadership and self-reflection assessments, professional coaching, and peer support facilitation. The program also utilizes small group interactive discussions on authenticity, emotional intelligence, coaching others, and handling conflict. Senior leaders will be present for many of the discussions and will host independent roundtable events. Physician leaders who work in dyad partnerships will also have the opportunity to have team-building sessions.

“This program was intentionally designed by physicians, for physicians,” says Sarah Richards, MD, senior medical director of Clinician Experience. “At its core, this program aims to help support physician leader well-being and address leadership challenges in real-time.” Twenty-five participants, including Dr. Dan Firestone, were identified to participate in the 2024-25 cohort.



Dr. Dan Firestone

Dr. Garvin elected president of the American Board of Orthopaedic Surgery

Kevin Garvin, MD, the L. Thomas Hood, MD Professor and Chair, UNMC Department of Orthopaedic Surgery and Rehabilitation, has been elected president of the American Board of Orthopaedic Surgery (ABOS).

Dr. Garvin will serve a one-year term, which began Oct. 1.

“The ABOS establishes the educational standards for the profession, and it is an honor to take on the leadership of this important organization,” said Dr. Garvin, who first was elected to the board in 2018.

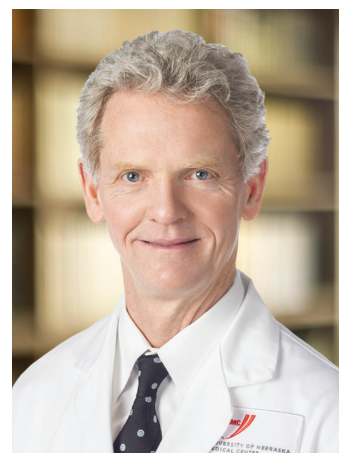
Dr. Garvin discussed his new role on the American Board of Orthopaedic Surgery podcast on Nov. 6. <https://podcasters.spotify.com/pod/show/abos/episodes/New-ABOS-President-Dr--Kevin-Garvin-e2qkklc3>.

Dr. Garvin earned his medical degree at the Medical College of Wisconsin. He completed an Orthopaedic Surgery Residency at the

University of Arkansas for Medical Sciences and a Hip Fellowship at the Hospital for Special Surgery. Dr. Garvin specializes in hip and knee reconstruction and treating musculoskeletal infections. He is an active researcher with over 200 peer-reviewed articles and textbook chapters.

The ABOS Board of Directors consists of 21 members, which includes 12 active directors, six senior directors, two directors-elect, and one public member director. ABOS Board members serve one 10-year term, while the public member director serves a three-year renewable term.

Dr. Garvin is in the seventh year of his term as a director.



Kevin Garvin, MD

Sarah Powell, MD, elected to the AAOS Resident Assembly

We are excited that Sarah Powell, MD, HO III, was chosen to serve on the American Academy of Orthopaedic Surgeons (AAOS) resident assembly.

The AAOS Resident Assembly is an advisory body to the AAOS that is comprised of residents and fellows-in-training from the United States and Canada. The residency assembly, as delegates, provides input and guidance to the AAOS on a variety of issues that impact resident education and career advancement. It also provides an early opportunity for residents to interact with the governing structure of the AAOS and be involved in guiding our specialty forward.

As a delegate, Dr. Powell will be a panelist in a forum discussing the current atmosphere and culture of advancing diversity, equity, and

inclusion in the field of orthopedic surgery from a trainee's perspective. Additionally, she will participate in executive committees within the resident assembly that help guide the resident assembly and interact more directly with the AAOS. Furthermore, she will attend the AAOS annual meeting and represent UNMC Orthopedics at the annual resident assembly meeting to ensure that residents' voices are heard on matters that directly affect them is always important. The department congratulates Dr. Powell on her appointment and looks forward to her being able to represent UNMC Orthopedics nationally.



Sarah Powell, MD

UNMC hosts Ukrainian health care professionals

UNMC recently hosted five surgeons and a program manager from Ukraine as part of the Congressional Office for International Leadership Open World Program. The surgeons are visiting as Ben Nelson Fellows for an exchange on polytrauma and the injuries of war.

The visit took place over eight days, Nov. 8-16. While in Omaha, the Nelson Fellows took part in a traditional Thanksgiving dinner, had an all-American cookout and visited the Henry Doorly Zoo and Aquarium.

But it also was very much a serious exchange. UNMC is a top American academic medical center that offers next-generation technology, cutting-edge innovations, and the latest training techniques. The Ukrainian physicians have extensive hands-on experience in dealing with war casualties.

Dr. Romanchuk, for example, has performed more than 2,000 surgeries, including approximately 500 highly complex operations involving severe injuries to the heart, aorta, inferior vena cava, pancreas, liver and pelvic organs, since joining the Armed Forces of Ukraine following Russia's invasion in 2022. He is head of surgery at his military medical center, where more than 20,000 surgical interventions have been performed under his ultimate supervision.

"My main focus is organizing and implementing a highly effective system for timely and highly qualified surgical care for patients and the wounded, aiming to save lives and ensure rapid combat and work capacity recovery," he said in his application for the fellowship at UNMC. "Through participating in the program, I hope to gain experience from colleagues and share my own regarding the provision of aid to victims of polytrauma and combat injuries."

The Ukrainians and their UNMC colleagues met on acute care surgery and trauma, the use of whole blood, tourniquet use and ischemic reperfusion, **Orthopaedic Biomechanics and Advance Surgery Technologies Laboratory**, and more. There were discussions on infections in combat casualty care, a visit to Madonna Rehabilitation Hospitals, and visits with emergency medicine and iEXCEL.



Circle of Distinction honors endowed positions and generous donors.

In October, the UNMC Circle of Distinction event recognized the recipients of endowed chairs, professorships, and fellowships – the university's highest academic awards to a faculty member – and the benefactors who supported them. Endowed positions are critical to UNMC's ability to recruit and retain the highest-quality faculty, said Interim Chancellor H. Dele Davies, MD. In the Orthopaedic department, the following endowed chairs were honored.

- **Vivek Dutt, MBBS** - Dr. Paul and Bernadette Esposito Endowed Chair for Children's Bone Disorders generously given by Dr. Paul W. Esposito and Mrs. Bernadette C. Esposito through Children's Nebraska.
- **Hani Haider, PhD** - Robert G. Volz Chair of Biomechanics generously given by Ann L. and Robert G. Volz, MD.
- **Brian Hasley, MD** - Barbara & Ron Schaefer Chair in Pediatric Orthopedic Surgery generously given by Ronald W. Schaefer and Barbara W. Schaefer through Children's Nebraska.



Vivek Dutt, MBBS



Hani Haider, PhD



Brian Hasley, MD

Circle of Distinction Previous Honorees:

- **Chris A. Cornett, MD** - L. Thomas Hood, MD, Professor of Orthopaedic Surgery and Rehabilitation, generously given by Marjorie P. Hood.
- **Kevin L. Garvin, MD** - L. Thomas Hood, MD, Professor of Orthopaedic Surgery and Rehabilitation, generously given by Marjorie P. Hood.
- **Sean V. McGarry, MD** - James R. Neff, MD, Chair of Musculoskeletal Oncology, generously given by Julia A. Bridge, MD, and friends of Dr. Neff and the department.
- **Matthew A. Mormino, MD** - Herman Frank Johnson, MD, Professor of Orthopaedic Surgery and Rehabilitation, generously given by Marjorie P. Hood.

Investing in the Future

Donations to the University of Nebraska Foundation help create an enduring infrastructure for training and research, ensuring that orthopaedics continues evolving and meeting tomorrow's challenges. Sustainable funding is necessary to maintain educational programs, foster new research, and create opportunities for future clinical advancements and improving patient outcomes. Here are some key reasons why such donations are valuable:

- **Advancement of Research –** Donations help fund research, which can lead to breakthroughs in treatments, surgical techniques, and rehabilitation methods. Research is crucial for understanding complex musculoskeletal issues, improving the quality of life for patients, and developing new technologies such as prosthetics, joint replacements, and minimally invasive procedures. Contributions enable academic institutions to conduct cutting-edge studies, often in areas that lack sufficient government or commercial funding.
- **Training and Education –** The Foundation accounts provide funding for continuing education for students, residents, and fellows in orthopaedics. Donating to these causes ensures that the next generation of orthopaedic surgeons, researchers, and practitioners are well-trained and equipped to meet future challenges in the field. High-quality education is critical to maintaining high standards of care and ensuring that the workforce is ready for innovations and evolving patient needs.
- **Improvement of Patient Care –** Research findings translate into clinical practice. Donations directly impact patient care by supporting the education and training of medical professionals. Better-

trained surgeons and healthcare providers improve patient outcomes, reduce complications, and enhance the overall efficiency of orthopaedic treatments.

- **Promoting Innovation and Collaboration –** Academic foundations foster collaboration among researchers, healthcare professionals, and institutions. Donations allow for interdisciplinary research and shared knowledge, leading to innovative solutions in orthopaedic care. This collaborative environment accelerates progress in areas like biomechanics, regenerative medicine, and other technological advancements.
- **Supporting Specialized Programs –** There are several subspecialties within orthopaedic. By donating to specific programs, supporters can help fund specialized training or research that might not otherwise receive adequate attention. These targeted investments often lead to significant improvements in the care of specific patient populations.

In 2024, supporters and friends of the department helped create two new foundation accounts.

- » The Orthopaedic Spine Research and Education Fund was established to support spine research and education. The

fund will fund the resident spinal surgical skills simulation course, spine research, and related publication fees. It will also send a resident to the Lumbar Spine Research Society meeting and course. This fund was made possible by Don Scott and an anonymous donor's generosity.

- » The Joint Replacement Surgery Program Excellence Fund will help with research, equipment, and Dr. Beau Kildow's partnership with the biomechanical lab. Philip and Nancy Wolf established this fund by providing a generous donation.

If you would like to learn more about private gifts or opportunities to support the department through outright gifts or planned gifts, we welcome the opportunity to have a conversation. We are very grateful for every donation, as well as each person who is committed to supporting our community. Please contact Emily Tiensvold, Senior Director of Development, at the University of Nebraska Foundation for more information: Emily.tiensvold@unfoudnation.org or 402-502-4107.



Pulmonary Embolism Prevention after hiP and kneE Replacement (PEPPER)

Approximately 1.2 million elective hip and knee arthroplasty are performed annually in the United States. These surgeries have a high risk for deep vein thrombosis (DVT) and pulmonary embolism (PE). About 10-15% of patients having hip and knee replacements develop DVT, and 1-2% specifically develop PE within 90 days after surgery that requires treatment in the ER and/or hospital re-admission. Fatal PE is reported in 0.1%-0.5% of patients and is responsible for more than 1000 deaths annually. It is considered across the spectrum "standard practice" to take a blood thinner/anticoagulant to reduce the risk of having blood clots after hip and knee replacements despite each of the blood thinners carrying a risk of bleeding from minor bruising to rarely life-threatening bleeding. However, with various commercially available and FDA-approved blood thinners, there remain conflicting opinions and insufficient data to endorse any preferred drug regimen.

PEPPER is the largest, randomized, multi-centered trial of thrombolytic event prophylaxis after total joint replacement. Over 20 North American sites have enrolled approximately 18,800 subjects over the past 8 years. The PEPPER agenda is to provide unbiased data regarding the safety and efficacy of the three most commonly used "standard of care," 30-day prophylactic blood thinners (aspirin vs. low-intensity warfarin vs. rivaroxaban).

The University of Nebraska Medical Center has been involved in this study since May 2017. Dr. Kevin Garvin is the principal investigator, and Dr. Curtis Hartman and Dr. Beau Kildow are the secondary investigators. They have enrolled/followed over 1,000 subjects, with the overall goal of improving outcomes after hip and knee replacement regarding the choice of drug regimen for prevention of DVT and

PE. The team also includes research coordinators Pete Danielson and Dana Schwarz, Research Coordinators, and numerous clinical staff.

Pepper has been sponsored by Dartmouth-Hitchcock Medical Center with regulatory oversight by the Medical University of South Carolina and funded through the Patient-Centered Outcomes Research Institute (PCORI). Enrollment has concluded, and data collection and analysis are ongoing. Study findings are expected in the Summer/Fall of 2025 and will be disseminated through academic publications, meeting presentations, and communications to advocacy groups.



Kevin Dibbern, PhD, Sports Medicine Pediatric Research Director

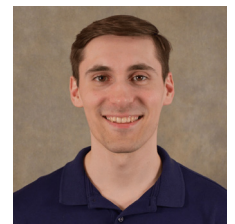
The UNMC Department of Pediatrics Sports Medicine Division and the Department of Orthopaedic Surgery & Rehabilitation recently expanded with the addition of Assistant Professor Kevin Dibbern, PhD. Dr. Dibbern will serve as the Director of Sports Medicine research at Children's Nebraska to answer clinical questions and expand capabilities in close collaboration with division chief Kody Moffatt, MD, and Associate Professor Natalie Ronshaugen, MD. Dr. Dibbern's multidisciplinary lab will coordinate translational research between Pediatric Sports Medicine and Orthopaedics in support of Children's mission: To improve the life of every child through exceptional Care, Advocacy, Research, and Education.

Dr. Dibbern received his PhD in Biomedical Engineering from the University of Iowa, where he worked with the Department of Orthopaedics and Rehabilitation. His research has spanned orthopaedic trauma, deformity, and biomechanics. He has recently focused on form and function interactions in the foot and ankle using quantitative imaging and motion analysis data as a post-doctoral researcher at Marquette University and Shriner's Children's TM, Chicago.

Dr. Dibbern's lab will feature the first weight-bearing cone beam CT (WBCT) scanner capable of examining the alignment of the entire lower extremity. WBCT provides 3D weight-bearing images, whereas clinicians were previously limited to 2D X-rays. Additionally, its low-

dose 3D scans significantly reduce radiation exposure and examination time compared to standard-of-care imaging by eliminating the need for multiple X-rays and subsequent CTs. Dr. Dibbern has been at the forefront of WBCT research since serving as co-director of the Orthopaedic Functional Imaging Research Lab at the University of Iowa, where the prototype of this device was tested.

"I'm honored to be joining wonderful colleagues on the Sports Medicine and Orthopaedics teams to elevate the care we can provide patients through research," Dr. Dibbern said.



Kevin Dibbern, PhD

Musculoskeletal Research Symposium

The emphasis of this year's symposium featured osteoarthritis research. The keynote visiting professor was Rachel E. Miller, PhD, who presented "Mechanoinflammation Mechanisms of Joint Pain". Dr. Miller is an Associate Professor and Behavioral Core Director at the Chicago Center on MSK Pain, Rush Medical Center. Other notable speakers included Dr. Elizabeth Wellsandt, Dr. Dong Wang, Dr. Hani Haider, Dr. Curtis Hartman, and Dr. Kevin Dibbern and resident research presentations



Rachel E. Miller, PhD

Resident Presentations	
Name	Title
Nathan Cherian, MD	The Effect of Pelvic Incidence on Outcomes After Hip Arthroscopy for Femoroacetabular Impingement and Acetabular Labral Tears
Michael Garneau, MD	Anterior Cervical Discectomy and Fusion Outcomes: Resorption and Subsidence in the Setting of Allograft Use
Kirby Hora, MD	Evaluation of a Performance Improvement Project in Antibiotic Administration for Open Fractures
Jake Rodgers, DO	Antibiotic Prescription Practices for Revision Finger Amputations at a Level 1 Trauma Center
Tyler Sharp, MD	A Novel Multi-Disciplinary Opioid Tapering Program For Standardized Post-Operative Opioid Use
Abdi Abud, MD	Do Radiographic Diagnostic Criteria Accurately Differentiate CVT and COT? A Validation Study
Tim Lackner, MD	Gait Outcomes Following Nonoperative Treatment of Isolated Distal Fibula Fractures
Annemarie Leonard, MD	Analysis of Female Medical Student Matriculation into Orthopedic Surgery Nationally
Cole Ohnoutka, MD	Inter-Observer Reliability of Sacral Slope Measurements on Radiographs in Healthy Individuals: Implications for Hip-Spine Syndrome
Sarah Powell, MD	Predictors of 5-year Mortality in Femoral Neck Fractures
Faculty Presentations	
Rachel E. Miller, PhD Visiting Professor	Mechanoinflammation Mechanisms of Joint Pain
Kevin Dibbern, PhD	The Utility of Weightbearing CT in the Evaluation of Orthopaedic Injury and Deformity
Hani Haider, PhD	A Glimpse of the Current and Recent Projects in the Orthopaedic Biomechanics and Advanced Surgical Technologies Laboratory
Curtis Hartman, MD	A Prospective Randomized Clinical Trial to Assess the Effects of Tourniquet Use on Gait Parameters Following Primary Total Knee Arthroplasty.
Dong Wang, PhD	Dampening Inflammation - The Development of ProGel-Dex for Chronic Arthritis Pain
Elizabeth Wellsandt, PT, DPT, PhD, OCS	Going Beyond Return to Sport After ACL Reconstruction

Nebraska Medicine becomes official medical provider for Omaha's professional League One Volleyball team

League play of the inaugural season begins Jan. 8, 2025 and features world class athletes, Olympic medalists and former Huskers.



League One Volleyball (LOVB) – the largest brand in youth volleyball with its professional volleyball league launching its first serve on Wednesday, Jan. 8, 2025, named Nebraska Medicine the official team medical provider for LOVB Omaha Volleyball.

As part of the partnership, Nebraska Medicine will provide a team of physicians, athletic trainers, physical therapists and other health care professionals to ensure LOVB athletes maintain peak performance both at matches and while traveling.

“Our team is excited to partner with LOVB in their inaugural season,” says **Matthew Tao, MD**, Nebraska Medicine orthopaedic surgeon. It’s clear LOVB is taking a proactive approach to ensure the health of their world-class athletes. We share a unified vision for providing equally

world-class care to the team and look forward to the road ahead.”

LOVB is launching its pro league with six teams to start in Atlanta, Austin, Houston, Madison, Omaha and Salt Lake City, and will feature some of the very best players in the world, including the American medalists from the recent Olympics.

LOVB Omaha Volleyball is anchored by two-time Olympic medalist Justine Wong-Orantes, and four-time Olympic medalist, Jordan Larson. Both have been instrumental members of the LOVB Athlete’s Council, which is helping to ensure that the benefits and opportunities the league provides its athletes both on-and-off the court foster advancement and support of LOVB pro athletes in their post-playing careers.

“We are thrilled to partner with Nebraska Medicine to provide best-in-class medical support to LOVB Omaha Volleyball,” says Rosie Spaulding, president of LOVB Pro. “At every step, we have been deliberate and methodical in building an athlete-centric league, and with the help of leaders like Nebraska Medicine, we will be able to provide our incredible athletes at LOVB Omaha Volleyball with the care they deserve as they bring forth play unlike anything you’ve seen before.”

As part of the partnership with LOVB, Nebraska Medicine will align with LOVB on social activations and LOVB Club community events and will share their insights and expertise on a variety of volleyball care and well-being topics through educational content.

For more information about LOVB Omaha Volleyball, visit lovb.com.



Nebraska Medicine and UNMC team up with Husker Athletics

As the official healthcare partner of the Huskers, the medical center will work to care for athletes and improve the health of Nebraskans.

Nebraska Medicine and the University of Nebraska Medical Center will serve as the official healthcare partners of Husker Athletics. The partnership strengthens an existing relationship between Husker athletes and their medical team. Medical center experts will continue providing medical oversight to all Husker athletes at the University of Nebraska-Lincoln. The new partnership will better connect the medical center with fans to improve the health of all Nebraskans.

The partnership will allow fans to learn more about the health care, research, and education happening in Nebraska and how they can benefit directly from the expertise of their fellow Nebraskans at the medical center who work across the state. It will also engage Nebraskans with information about the growing job opportunities in health care and the medical center’s impact on growing the state’s economy.

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PRESENTATIONS

Amendola RL; Deasey M; Ryan C; Apostalokos Y; Dornan G; Provencher M; Vidal A. Computed Tomography Analysis of the Variation in the Medial and Lateral Tibial Slopes in Patients Undergoing Osteotomy About the Knee - Podium Presentation. AOSSM Annual Meeting; 2024 July. Denver, CO

Amendola RL; Brady A; Smith B; Hauck O; Garcia A; Drumm A; Bedi A; Vidal A; Provencher M. Adjustable-Loop Cortical Button Implant Reduces Knee Laxity With Anatomic Fibular-Based Posterolateral Corner Reconstruction: A Biomechanical Analysis - Poster Presentation. AOSSM Annual Meeting; 2024 July. Denver, CO

Cornett C. Spine Trauma/Fusion Procedures. Trauma Registrar Education Series; 2024 March 14. Nebraska Medicine - Omaha, NE

Cornett C; Karim, M. Spine Breakout Session #5, Co-Moderator for Papers 55-66. Mid-America Orthopaedic Association 2024 Annual Meeting; 2024 April 11. Bonita Springs, FL

Fischer DW; **Deans CF**; Johnson P; Lyden E; **Teusink MJ**; **Mormino MA**. Beach Chair Positioning Increases Risk of Cerebral Deoxygenation Events for Upper Extremity Fracture Surgery. Society of Military Orthopaedic Surgeons 66th Annual Meeting; 2024 December 9-13. Nashville, TN Fuentes-Rivera

Fehringer EV. What Do I Need to Know About Arm Pain Contributors? Invited Lecturer. University of Washington Fellows Meeting; 2024 Jul 25. Seattle, WA

Garvin KL; Harrast, J; Nelson C; Jacobs, J. Primary Total Knee Arthroplasty Performed 2022-23 by Candidates for ABOS Board Certification and Recertification: Prosthesis Type, Fixation and Technique. 2024 Knee Society Members Meeting; Rosewood London. 2024

Buckner BC; Urban ND; Cahoy KM; **Garvin KL**. Long-term Polyethylene Wear Rates and Clinical Outcomes of Oxidized Zirconium Femoral Heads on Highly Cross-linked Polyethylene in Total Hip Arthroplasty. 2024 Annual Meeting of the American Academy of Orthopaedic Surgeons (AAOS); 2024 Febr 12-16. San Francisco, CA

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Garvin KL. Challenges in Adult Reconstruction Surgery Polyethylene Wear - Nearly Solved

- PJI – Making Progress?!. Visiting Professor, OrthoCarolina Adult Reconstruction Fellows Graduation; 2024 July 26. Charlotte, NC
- Garvin KL**; Harrast J; Nelson C; Jacobs J. Primary Total Knee Arthroplasty Performed 2022-23 by Candidates for ABOS Board Certification and Recertification: Prosthesis Type, Fixation and Technique. 2024 Knee Society Members Meeting; 2024 Sept 5. London, England
- Garvin KL**; Harrast J; Nelson C; Jacobs J. Primary Total Hip Arthroplasty Performed 2022-23 by Candidates for ABOS Board Certification and Recertification: Fixation and Patient Age. 2024 Members Only Meeting of the Hip Society; 2024 Sept 20. Vancouver, British Columbia
- Ruh E; Kallman TJ; **Greiner JJ**. Video Analysis of Multi-Ligament Knee Injury in NFL Athletes (Poster). Orthopedic Research Society (ORS); 2024 Feb. Long Beach, CA
- Cong GT; Charles S; **Greiner JJ**; Cordle A; Andrews C; Darwiche S; Reddy R; Como M; Drain NP; Fox M; Setliff JC; Mirvish AB; Hughes JD; Lesniak BP; Lin A. Arthrograph or No Arthrograph? MRI Versus MR Arthrograph Accuracy and Precision in Determining Labral Tear Extent as a Function of Time from Shoulder Dislocation (ePoster). 2024 AAOS Annual Meeting; 2024 Feb. San Francisco, CA
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- Ruh ER; Kallman TJ; Lyden ER; **Greiner JJ**. Video Analysis of Multi-Ligament Knee Injury in National Football League Athletes - Podium. 2024 European Society of Sports Traumatology, Knee Surgery, and Arthroscopy (ESSKA); 2024 May 9. Milan, Italy
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- Nazzal EM; Herman ZJ; Engler ID; Kaarre J; Gibbs CM; **Greiner JJ**; Rai A; Hughes JD; Lesniak BP; Lin A. Subluxators Present with Equivalent Rates of Revision and Re-Dislocation After First-Time Anterior Shoulder Instability: A Mid-Term Outcomes Study - Podium. 2024 European Society of Sports Traumatology, Knee Surgery, and Arthroscopy (ESSKA); 2024 May. Milan, Italy
- Cong GT; Charles S; **Greiner JJ**; Cordle A; Andrews C; Darwiche S; Reddy R; Como M; Drain NP; Fox M; Setliff JC; Mervish AB; Hughes JD; Lesniak BP; Lin A. MRI or MR Arthrograph? Determining Labral Tear Extent vs Time from Shoulder Dislocation - Podium. 2024 Arthroscopy Association of North America (AANA); 2024 May. Boston, MA
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- Greiner JJ**; Zsidai B; Mattar LT; Rothrauff BB; Musahl V, Editors. Sports Injuries. Springer, Berlin, Heidelberg; 2024. Anatomy and Biomechanics of the Knee
- Twedt MH; Halanski MA; Wallace M; **Haider H**. Introduction of the Crawford Smart Brace: the first step in biomechanically driven-patient specific brace treatment, Paper No. 1745. ORS 2024 Annual Meeting; 2024 Feb. Long Beach, CA
- Haider H**; Weisenburger J; Siskey R; Heckler R; Plata N. Extended In Vitro Wear of the Metal Glenosphere and Polyethylene Humeral Bearings of Reverse Total Shoulder Replacements Under Clean and Abrasive Conditions. Annual Congress of the International Society for Technology in Arthroplasty (ISTA); 2024 Aug 28 - Aug 31. Nashville, TN
- Eischeid AC; Renken M; Weisenburger J **Haider H**. Influence of EDTA on Friction and Its Effectiveness to Reduce Solid Precipitation on Lubricants Used in Arthroplasty Wear Testing. Annual Congress of the International Society for Technology in Arthroplasty (ISTA); 2024 Aug 28 - Aug 31. Nashville, TN
- Weisenburger J; **Garvin K**; Roesler KR; Durioux M; Quissini ME; Haider H. Constraint of Modern Posterior Stabilized Total Knee Replacements. Annual Congress of the International Society for Technology in Arthroplasty (ISTA); 2024 Aug 28 - Aug 31. Nashville, TN
- Eischeid AC; Weisenburger J; **Haider H**. Experimental Estimates of the Forces and Moments Which Could Compromise Reregistration of Reference Frames in Navigated or Robotic Arthroplasty. Annual Congress of the International Society for Technology in Arthroplasty (ISTA); 2024 Aug 28 - Aug 31. Nashville, TN
- Haider H**. Renewed review on navigation and robotics in joint replacement. Invited key note lecture, 11th Academic Congress of Asian Shoulder and Elbow Association conference (ACASEA); 2024 Oct. Kaohsiung, Taiwan
- Haider H**. New standard wear testing method for Reverse Total Shoulder Replacements. Invited key note lecture, 11th Academic Congress of Asian Shoulder and Elbow Association conference (ACASEA); 2024 Oct. Kaohsiung, Taiwan
- Kildow BJ**. Accuracy of a Novel Freehand Smart-Saw in Performing Total Knee Arthroplasty. Annual Piemont Meeting; 2024 Jun 11-15. Nevis, West Indies
- Mathew SE**. Nonunion Rate of Evans Osteotomy without Fixation Pediatric Flatfoot - Podium Presentation. 2024 EPOSNA Annual Meeting: Joint meeting of Pediatric Orthopaedic Society of North America (POSNA) and European Pediatric Orthopaedic Society (EPOS); 2024 May 8 - May 11. National Harbor, MD
- Mathew SE**. Clinical Outcomes and Complications of Peroneus Brevis Allograft Reconstruction Podium Presentation. 2024 American Academy of Orthopaedic Surgeons (AAOS) Annual Meeting; 2024 Feb 12 - Feb 16. San Francisco, CA
- Mathew SE**. Utilizing the Area Deprivation Index to Predict Idiopathic Clubfoot Recurrence E-Poster. 2024 American Academy of Orthopaedic Surgeons (AAOS) Annual Meeting; 2024 Feb - Feb 16. San Francisco, CA
- Mathew SE**. Nonunion Rate of Evans Osteotomy without Fixation Pediatric Flatfoot E-Poster. 2024 American Academy of Orthopaedic Surgeons (AAOS) Annual Meeting; 2024 Feb 12 - Feb 16. San Francisco, CA
- Mathew SE**. Safe and Effective is Not Always Acceptable: The Case for PASS Scores in Foot and Ankle Orthopaedic Surgery E-Poster. 2024 American Academy of Orthopaedic Surgeons (AAOS) Annual Meeting; 2024 Feb 12 - Feb 16. San Francisco, CA
- Morgan JA**. Carpal Instability. DMC Orthopaedic & Sports Medicine Visiting Lecture (Invited Lecturer); 2024 Jan 09. Detroit, MI
- Morgan JA**. Surgery of the Hand: A History. DMC Orthopaedic & Sports Medicine Visiting Lecture (Invited Lecturer); 2024 Jan 09. Detroit, MI
- Morgan JA**. Evaluation and Treatment of Ulnar-sided Wrist Pain. 2024 MAOA Annual Meeting Pre-Course; 2024 Apr 10. Bonita Springs, FL
- Mormino MA**. Case Report from the OR. 7th Annual Biopharmaceutics Research and Development Symposium; 2024 September 19. UNMC Omaha, NE
- Stockwell EL; Urban ND; Hays MR; McCaskey, M; Maseda, M; **Mormino MA**; **Siebler JC**; Maxson, B; Donohue, D; Watson, D; Infante, A; Hassan, M; **Putnam SM**. Association Between Mortality and Early Postoperative Mobilization After Distal Femur Fracture Fixation in Elderly Patients. Orthopaedic Trauma Association 40th Annual Meeting; 2024 October 23-26. Montreal Quebec, Canada
- Putnam SM**. Compartment Syndrome: Diagnosis and Management. Regional Multidisciplinary Trauma Grand Rounds; 2024 Jun 21. Omaha, NE
- Sawatzke AB**. Ankle Arthritis Presentation. Athletico Physical Therapy; 2024 January
- Siebler JC**; **Hartman CW**; Wera G. Periprosthetic Femur Fracture: Fix It or Revise It?. Mid-America Orthopaedic Association 41th Annual Meeting; 2024 Apr 13. Bonita Springs, FL
- Creager AE; Freeman MH; Mormino SA; Lyden ER; **Siebler JC**. Feasibility of a Novel Fluoroscopic Trainer for the Orthopedic Trainee. Mid-America Orthopaedic Association 41st Annual Meeting; 2024 Apr 13. Bonita Springs, FL
- Powell SN; **Siebler JC**. Female Medical Students' Interest in Orthopaedics Decreased After Sawbones Lab. 6th Annual Graduate Medical Education Research Symposium; 2024 April 22. University of Nebraska Medical Center
- Fuentes-Rivera L; Failla M; **Tao MA**; Wellsandt EA. Functional Outcomes Across Communities and Neighborhoods After ACL Reconstruction (Poster). American Physical Therapy Association Combined Sections Meeting; 2024 Feb. Boston, MA
- Jorgensen AJ; Werner DM; **Tao MA**; Wellsandt EA. Early Functional Performance is Associated with Later Quadriceps Strength After Anterior Cruciate Ligament Reconstruction. American Physical Therapy Association Combined Sections Meeting; 2024 Feb. Boston, MA
- Werner DM; Fuentes-Rivera L; Jorgensen AJ; McManigal ML; **Tao MA**; Wellsandt EA. The Relationship Between Clinical and Laboratory Measures of Quadriceps Strength After ACL Reconstruction. American Physical Therapy Association Combined Sections Meeting; 2024 Feb. Boston, MA
- Tao MA**. Invited Lecturer - Don't Be Scared of the Bear: Bridge-Enhanced ACL Repair Considerations for the Athletic Trainer. 2024 Mid America Athletic Trainers' Association (MAATA) Annual Meeting; 2024 March 15. LaVista, NE
- Strickland S; Brady JJ; Cohen-Kalenka C; Gomoll A; **Tao MA**. Invited Lecturer - This is the Kind of Cartilage Damage I See All the Time: When Should I Do Something About It?. AANA Annual Meeting; 2024 May 9. Boston, MA of Orthopaedic Surgeons (AAOS) Annual Meeting.

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CLINIC LOCATIONS

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4014 Leavenworth Street, Level one
Omaha, NE 68105

Orthopaedics at Bellevue Medical Center

2500 Bellevue Medical Center Drive
Bellevue, NE 68123

Village Pointe

17405 Burke Street
Omaha, NE 68118

Children's Nebraska | 402-955-6300

Children's Hospital & Medical Center

Specialty Pediatric Center – Orthopaedics

111 N. 84th Street
Omaha, NE 68114

In this issue

- 8 Circle of Distinction honors endowed positions and generous donors.
In October, the UNMC Circle of Distinction event recognized the recipients of endowed chairs, professorships, and fellowships
- 12 Nebraska Medicine becomes official medical provider for Omaha's professional League One Volleyball team
League play of the inaugural season begins Jan. 8, 2025 and features world class athletes, Olympic medalists and former Huskers.
- 12 Nebraska Medicine and UNMC team up with Husker Athletics
As the official healthcare partner of the Huskers, the medical center will work to care for athletes and improve the health of Nebraskans.

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