UNMC Orthopaedics raises the educational bar

The Accreditation Council for Graduate Medical Education (ACGME) accepted the department’s request for an increased number of residents beginning in 2015.

For the first time in 31 years, the UNMC Department of Orthopaedic Surgery and Rehabilitation welcomed five new residents to the program. Historically, the program has accepted four new residents each year, but as the department’s faculty and research capacity has grown, professor and chair Dr. Kevin Garvin and residency program director Dr. Matthew Mormino decided it was time to make a change.

“Our department has tripled in size over the past 15 years, which has increased the opportunities for resident education,” Dr. Mormino said. “That, combined with a national need for more orthopaedic surgeons made this an ideal time to increase our number of resident physicians.”

The department currently boasts 16 full-time orthopaedic surgeons and clinician scientists. Among these physicians are recently-hired faculty members that specialize in hand and upper extremity, sports medicine, trauma, pediatric and spine surgery. Our roster of dedicated educators offers greater learning opportunities for residents.

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The department currently boasts 16 full-time orthopaedic surgeons and clinician scientists. Among these physicians are recently-hired faculty members that specialize in hand and upper extremity, sports medicine, trauma, pediatric and spine surgery. Our roster of dedicated educators offers greater learning opportunities for residents.

“With more and varied surgical cases, our residents will have access to a well-rounded educational experience,” Dr. Mormino said.

UNMC orthopaedic residents have the added advantage of a successful research team. A robust research program only enhances residents’ knowledge of the basic
Message from the chair

Building on our successes

We are more than halfway through 2015 and it has already been a year full of accomplishments, change and progress.

As one of the three main facets of our mission in the UNMC Department of Orthopaedics, education is the foundation upon which we continue to build a strong presence in the orthopaedic world.

Our faculty members have always maintained the belief that, first and foremost, residents are here as learners rather than service providers. We uphold this belief by making a commitment to enhance our comprehensive resident education program. Recently, our program was approved by the ACGME for an additional orthopaedic resident each year, bringing our total complement to 25 residents.

We were pleased to welcome the five new interns to our program. Drs. Emmett Gannon, Darin Larson, Evan Larson, Joshua Locker and Daniel Sveom joined the department July 1. You can learn more about each of them on page 16.

Our faculty’s accomplishments this year are a great point of pride. Many of our faculty members participated as presenters and moderators at the Mid-America Orthopaedic Association Annual Meeting in April, the American Academy of Orthopaedic Surgeons Annual Meeting in March and many other national and international conferences.

In addition to his promotion to associate professor, Dr. Miguel Daccarett volunteered his time and resources at the Nepal Orthopedic Hospital after the Nepal earthquake in April. In May, Dr. Justin Siebler was named physician of the year by the Association of Perioperative Nurses, while Dr. Hani Haider received the Leroy Wyman Award by ASTM International F04 committee. Earlier this year, our pediatric orthopaedic surgical team at Children’s Hospital & Medical Center was ranked among the best Children’s Hospitals by US News & World Report for 2015-2016.

Recently, Drs. Beau Konigsberg, Curtis Hartman and I implemented a Rapid Recovery Program aimed at reducing hospital length of stay for total hip and knee replacements. Since November 2014, the program has produced gradual positive results and exciting possibilities. See the full story on page 9.

Finally, we said goodbye to Drs. Todd Gaddie, Gregory Dammann, Andrew Taiber and Brent Hood in June. We wish them well in their future fellowships and practices. Thank you to all who attended our graduation ceremony.

I hope you enjoy this edition of Breaking News. Your continued support as alumni and friends of the program is invaluable.

Sincerely,

Kevin L. Garvin, M.D.
Professor and Chair
L. Thomas Hood, M.D., Professorship
Nebraska declares June 3 World Clubfoot Day

With the support of Dr. Paul Esposito, Governor Pete Ricketts has proclaimed June 3 to be World Clubfoot Day in the state of Nebraska.

Dr. Esposito sponsored the proclamation in conjunction with the Ponseti International Association (PIA), a leading organization in training and educating healthcare providers on the Ponseti Method of treatment for congenital clubfoot.

The Ponseti Method, developed by the late Dr. Ignacio Ponseti of The University of Iowa, is widely viewed as the gold standard for the treatment of clubfoot in infants. The method is non-surgical and relies on gentle manipulation and plaster casts to correct misaligned bones. The Ponseti Method has made treatment for clubfoot much more accessible, especially in developing countries.

“This a very treatable condition worldwide, without major surgeries, allowing children to grow up to become active, productive adults,” said Dr. Esposito, who frequently performs castings and works with many families in the Omaha area.

World Clubfoot Day is recognized by a number of organizations, including the American Academy of Pediatrics and the United States Bone and Joint Initiative. As of early 2015, 14 states have approved the World Clubfoot Day proclamation.

Supporting World Clubfoot Day is an important step in raising awareness about congenital clubfoot.

“This is a diagnosis frequently made prenatally,” Dr. Esposito said. “It is important for parents to know this is very treatable in centers such as Children’s Hospital & Medical Center that have the right training and expertise.”
Breaking News | 4

Answering the call: Disaster relief for Nepal

Just days after a second deadly earthquake hit Nepal on May 12, Dr. Miguel Daccarett boarded a plane and flew the 7,600 miles to Kathmandu, one of the cities most affected by the devastating natural disasters.

On the morning of April 25, Nepal was crippled by the worst disaster in more than eight centuries. A violent, 7.8-magnitude earthquake struck near Kathmandu, the country’s capital, leaving entire villages flattened, thousands of people killed or injured and temples, homes and landmarks destroyed.

The rest of the world watched as the death toll continued to rise, reaching about 8,700, according to the Nepalese government.

In Omaha, UNMC leaders and staff kept a close eye on the situation in Nepal. UNMC and Nebraska Medicine formed the Nepal Disaster Relief Effort Committee to come up with an aid plan. In addition, the University of Nebraska Foundation set up the UNMC Nepal Disaster Relief Fund, which raised over $24,000 from nearly 100 donors.

But Dr. Daccarett wanted to do more.

“I received an email from Operation Walk Chicago about the Nepal Orthopedic Hospital (NOH),” Dr. Daccarett said. “I got in touch with Dr. Saju Pradhan, the hospital director in Kathmandu, and was told they needed an orthopaedic trauma surgeon immediately. So I decided to go, knowing that I could rely on my partners here to give quality care to my patients. I could not have made the trip without the department’s support.”

Dr. Daccarett left Omaha May 16 and spent the next two weeks in Kathmandu, where he was put to work operating solely on earthquake victims. He performed an estimated two or three surgeries per day. Most earthquake-related injuries were long bone and periarticular fractures, he reported. As one of the few trauma surgeons at the hospital, many of Dr. Daccarett’s cases had an increased level of complexity.

“Many of the injuries I saw were up to three weeks old and had already started to heal,” he said. “Sometimes I would have to re-break the bone so it could heal properly.”

While he did bring useful supplies with him – wire cutters, drills, K-wires, etc. – many of the surgical instruments available were not as reliable as those in the U.S., so he was forced to improvise. Coupled with an average of three or four aftershocks per day, Dr. Daccarett described the working conditions as less-than-ideal.

“One day, I was operating on a humerus and there was a 4.2 magnitude aftershock; it shook the entire place,” he said, referencing the OR tent in which he performed his surgeries. “People were very scared. After the second earthquake, nobody wanted to operate inside, so we used the tent. With each aftershock, people panicked and we had to calm them down.”

In total, NOH saw more than 2,000 earthquake patients and operated on 271 people in the weeks following the disasters. According to the NOH website, the hospital provided care for over 10 percent of the injured victims – free of charge.

As a result of the hospital’s well-documented and organized handling of the earthquake aftermath, Dr. Daccarett will be able to follow up with many of his patients by monitoring their x-rays and tracking their progress.

“It is very rare to be able to monitor these distant patients,” he said. “I treated many people when I volunteered in Haiti and I still have no idea who they are or how they are doing.”
RESIDENTS (continued from pg.1)

Dr. Daccarett is no stranger to disaster relief. A lifelong volunteer, he worked with the Red Cross in Colombia before enrolling in medical school and volunteered to help in the aftermath of the 1985 volcano eruption in Armero, Colombia. He was also in New York City in 2001, where he volunteered his help after the September 11th terrorist attack. Most recently, he made two trips to Haiti following the 2010 earthquake. No matter where or what the situation, Dr. Daccarett said it is difficult to prepare for disasters like these.

“You have to be able to accommodate and adapt to what they need,” he said. “You show up and ask what you can do to help. You give your insight if they ask but you have to be tactful.”

In addition to performing surgeries, Dr. Daccarett also got a firsthand look at the destruction left behind by the quake. He spent one day with NOH employees visiting Sankhu, Bhaktapur and Lalitpur, three towns close to Kathmandu, each in varying degrees of ruin. It was an experience he won’t soon forget.

“I was on the other side of the world, working with strangers, but I came home with many new friends and a feeling of accomplishment,” he said.

“When I was young, my parents and teachers taught me the importance of volunteering. I have become a man for others and hope that everyone can experience the happiness that comes from volunteering, in whatever capacity.”

Dr. Daccarett visits with patients at the Nepal Orthopedic Hospital.

PGY-3 and PGY-4 residents will now spend time at the new sports service at the Nebraska Orthopaedic Hospital. An additional PGY-5 rotation will give residents training in trauma services with the department’s three trauma surgeons.

Orthopaedic faculty have always focused on residents as learners rather than service providers. That belief has propelled the program forward over the past three decades and will continue to do so in the future.

There is no doubt about it: The educational bar for orthopaedic residents has been raised, and the department’s members relish their roles as leading educators.
Resident class of 2015 honored at commencement

The department’s 2015 graduation presentations were held June 12-13 at the Michael F. Sorrell Center for Health Science Education. Featured guests included visiting professor Dr. H. Claude Sagi of the University of South Florida, as well as Thomas Wilkins, music director of the Omaha Symphony, who served as the 4th annual Andersen Lecturer. The schedule of events was as follows:

FRIDAY, JUNE 12, 2014

SESSION I  RESIDENT PRESENTATIONS
“Tibial Shaft Fractures in Adolescents: Analysis of Cast Treatment Successes and Failures” Gregory Dammann, M.D.

“Extra-Articular Distal Humerus Fractures Treated with a Single Posterolateral Plate” Todd Gaddie, M.D.

“Functional Outcomes of Suprapatellar Approach vs. Traditional Approach for Intramedullary Fixation of Tibia Fractures” Brent Hood, D.O.

“Enhanced Detection of Staphylococcus aureus Colonization in Patients Undergoing Prosthetic Joint Implantation” Andrew Taiber, M.D.

SESSION II  ALUMNI UPDATES

SESSION III  FACULTY PRESENTATION
“Update on Soft Tissue Wounds and Infections” Justin Siebler, M.D.

SESSION IV  GUEST SPEAKERS
“The Changing Paradigm of Open Fracture Treatment” H. Claude Sagi, M.D.

FRIDAY, JUNE 12, 2014 (cont.)

SESSION IV  GUEST SPEAKERS
Andersen Lectureship: “The Best of Us for The Rest of Us” Thomas Wilkins

SATURDAY, JUNE 13, 2014

CASE-BASED DISCUSSIONS OF ACETABULUM FRACTURES AND PELVIS FRACTURES/INJURIES

SESSION I  ACETABULUM FRACTURES
Moderator: H. Claude Sagi, M.D.

SESSION II  PELVIC INJURIES
Presenter: Justin Siebler, M.D.

Panel members: Matthew Mormino, M.D., Ivan Tarkin, M.D., Miguel Daccarett, M.D., Annie Knierim, M.D.

SESSION III  VISITING PROFESSOR
“The Theory of Relativity as it Relates to Pelvic Fracture Treatment” H. Claude Sagi, M.D.

CONGRATULATIONS TO THE 2015 GRADUATES

TODD J. GADDIE, M.D.
HAND SURGERY FELLOWSHIP
TUFTS MEDICAL CENTER, BOSTON, MA

GREGORY G. DAMMANN, M.D.
FREEPORT HEALTH NETWORK
FREEPORT, IL

ANDREW J. TAIBER, M.D.
HAND AND UPPER EXTREMITY FELLOWSHIP
VANDERBILT UNIVERSITY SCHOOL OF MEDICINE, NASHVILLE, TN

BRENT R. HOOD, D.O.
HASTINGS ORTHOPAEDIC SURGERY AND SPORTS MEDICINE, HASTINGS, NE
H. Claude Sagi, M.D. was the guest speaker at this year’s graduation. Dr. Sagi is the director of Research and Fellowship Training for the Orthopaedic Trauma Service at Tampa General Hospital. He also holds an appointment as assistant clinical professor with the University of South Florida Department of Orthopaedic Surgery and Sports Medicine. Dr. Sagi specializes in acute trauma, post-traumatic reconstruction, and spinal trauma. His area of clinical and research interest is pelvic and acetabular reconstruction. He is an active faculty member of the American Association of Orthopaedic Surgeons, the Orthopaedic Trauma Association and the AO North America.

Dr. Sagi serves as section editor for the Journal of Orthopaedic Trauma and has authored several articles and book chapters. He was born in Canada and received his undergraduate and medical degrees from the University of British Columbia. He completed his residency training and internship at the University of Ottawa and two post-graduate clinical and research fellowships in Spinal Surgery and Orthopaedic Trauma Surgery. Dr. Sagi is board certified by the American Board of Orthopaedic Surgeons.

4th Annual Andersen Lecturer: Thomas Wilkins

Established by Harold and Marian Andersen, long-time supporters of the Orthopaedic Department, this lectureship focuses on non-scientific issues that enhance the education, diverse interests and community involvement of faculty and residents in the Department of Orthopaedic Surgery and Rehabilitation.

This year’s Anderson Lecturer was Thomas Wilkins, music director of the Omaha Symphony. Wilkins’ speech, titled “The Best of Us for the Rest of Us,” served as a reminder from the likes of Beethoven, Tchaikovsky, and Aaron Copland that our community is better served when we see our jobs not as a career but as a calling.

A music man all his life, Wilkins began his position in 2005 and recently renewed his contract with the Omaha Symphony through the 2017-2018 season. He also serves as principal conductor of the Hollywood Bowl Orchestra. During his conducting career, he has led orchestras throughout the country, including the Atlanta Symphony, the Baltimore Symphony, the Buffalo Philharmonic, the Cincinnati Symphony, the Cleveland Orchestra, the Dallas Symphony, the Houston Symphony, the National Symphony in Washington, D.C., the Rochester Philharmonic and the Utah Symphony, among others.

Since moving to Nebraska, Wilkins has been honored for his contribution to music. In 2014, he received the “Outstanding Artist” award at the Nebraska Governor’s Arts Awards. In addition to making frequent appearances at various orchestras around the country, Wilkins is committed to the Omaha community. He participated on several boards of directors, including the Greater Omaha Chamber of Commerce and the Charles Drew Health Center. He also serves as a national ambassador for the non-profit World Pediatric Project headquartered in Richmond, VA, which provides children throughout Central America and the Caribbean with critical surgical and diagnostic care.

Wilkins graduated from the Shenandoah Conservatory of Music and the New England Conservatory of Music in Boston. He resides in Omaha with his wife and twin daughters.

Excerpts of Thomas Wilkins’ biography are courtesy of www.omahasymphony.org.
2015 Graduation Award Winners

FRANK P. STONE, M.D. AWARD FOR ACADEMIC EXCELLENCE: **TODD J. GADDIE, M.D.**

AWARD FOR OUTSTANDING JUNIOR RESIDENT: **NOAH E. PORTER, M.D.**

OUTSTANDING INSTRUCTOR AWARD: **NICHOLAS B. BRUGGEMAN, M.D.**

OUTSTANDING INSTRUCTOR AWARD: **R. MICHAEL GROSS, M.D.**

WHERE ARE THEY NOW: CATCHING UP WITH OUR ALUMNI

### 10-YEAR ALUMNI: CLASS OF 2005

**Scott Humphrey, M.D.**
**Fellowship:** Shoulder and Elbow, Tom Norris Shoulder and Upper Extremity Surgery Fellowship at California Pacific Medical Center, San Francisco, CA
**Practice:** Boise Shoulder Clinic, Boise, ID

**A.J. Lauder, M.D.**
**Fellowship:** Hand, University of Washington, Seattle, WA
**Practice:** Longview Orthopedic Associates, Longview, WA

**Edward Prince, M.D.**
**Fellowship:** Adult Reconstruction, University of Utah, Salt Lake City, UT
**Practice:** Coral Desert Orthopaedics, St. George, UT

**Ivan Tarkin, M.D.**
**Fellowship:** Orthopaedic Traumatology, Twin Cities Orthopaedic Trauma, Minneapolis, MN
**Practice:** University of Pittsburgh, Pittsburgh, PA

### 20-YEAR ALUMNI: CLASS OF 1995

**Deepak Chavda, M.D.**
**Practice:** Texas Bone & Joint Center, Dallas Ft. Worth, TX

**Clay Frank, M.D.**
**Fellowship:** Spine, Carolinas Medical Center, Charlotte, NC
**Practice:** Integrated Spine Care, Wauwatosa, WI

**Robert Mileski, M.D.**
**Fellowship:** Sports Medicine, Southern California Orthopaedic Institute, Van Neyes, CA
**Practice:** Phoenix Orthopaedic Group, Phoenix, AZ

**Vern Prochaska, M.D.**
**Practice:** Sanford Orthopaedics and Sports Medicine, Fargo, ND
A 2007 study led by Steven Kurtz, Ph.D., projected that by the year 2030, the number of patients seeking total hip arthroplasties will increase 174 percent. Similarly, total knee arthroplasties are expected to increase more than 600 percent.

Pair this with the 2015 expansion of the Hospital Readmissions Reduction Program to include THA and TKA, and orthopaedic surgeons have a unique challenge in front of them.

The question: How do you cater to higher patient volumes while also keeping hospital readmission rates down?

The answer: Establish a fast-track recovery regimen.

In November 2014, Drs. Kevin Garvin, Beau Konigsberg and Curtis Hartman did just that. The three orthopaedic joint surgeons started a Rapid Recovery Program for patients undergoing total hip and knee arthroplasties and have carefully tracked their results since.

“The program is aimed at reducing the length of stay for THA and TKA patients,” Dr. Garvin said. “We are always trying to improve our care by decreasing complications and getting patients out of the hospital and back home or to work sooner.”

The program relies on a coordinated effort between the joint surgeons, anesthesiologists, physician assistants, nurses, Preop/PACU and OR teams and physical/occupational therapists. Pre and post-surgery patient education is a key factor in decreasing hospital length of stay, as is reducing the amount of pain medication and providing earlier interaction with physical and occupational therapists to reduce immobility.

Over the last few months, the team has seen gradual positive results. Hospital stays have decreased from approximately four to two days in younger, healthier people and from nine to four days in older patients.

In addition, the percentage of people discharged to a skilled nursing or rehabilitation facility has dropped dramatically. Since December 2014, more than half of knee replacement patients and almost 75 percent of hip replacement patients are instead sent home for recovery. The ultimate goal is to send everyone home for recovery, eventually reducing or eliminating the need for skilled rehabilitation care.

“Patients who benefit from the Rapid Recovery Program experience less pain, a reduction or elimination of narcotics after surgery, are able to recover function more rapidly, can return to work sooner and see a cost savings as a result of less time in the hospital,” Dr. Garvin said. “These benefits are not only available to younger patients; it has also been shown that patients over age 85 see the most difference in length of stay and readmission rates.”

While reducing length of stay is a main priority of the Rapid Recovery Program, it is important to note that the team was able to maintain patient satisfaction and readmission rates.

Another goal of the program was to discontinue the use of Foley catheters in TKA and THA patients to enable earlier mobility. This drastically reduced the number of catheter days in the inpatient unit; as a result, there have been no cases of catheter-associated urinary tract infections since November 2014.

Projected Future Demand for Total Hip and Knee Arthroplasty

The 2015 American Academy of Orthopaedic Surgeons Annual Meeting was held at the Venetian Hotel and Sands Expo Convention Center in Las Vegas, Nevada, March 24-28. Department faculty gave podium and poster presentations, instructional course lectures, and presented and moderated specialty day sessions.

PODIUM PRESENTATIONS:


POSTER PRESENTATIONS:


Simone, J.; Streubel, P.; Sanchez-Sotelo, J.; Steinmann, S.; Adams, J.: Changes in the distance from the axillary nerve to the glenohumeral joint shoulder positioning.


INSTRUCTIONAL COURSE LECTURES

Garvin, K.: ICL 221: Total Hip Arthroplasty-How Do I Get Out of this Jam? The Cup Pressfit is Poor; The Femoral/Acetabular Anteversion is not What I Expected; The Hip Dislocates Early; There is a Sciatic Nerve Problem.

Garvin, K.: ICL 302: Preventing Hospital Readmissions and Limiting the Complications Associated with THA. Prevention and Management of Infection and Wound Complications (Moderator and Presenter).

Scherl, S.: ICL 367: Problems and Procedures in Pediatric Trauma: Case Based Learning (presenter).


MODERATOR

Garvin, K.: Hip Arthroplasty I: Bearing Surfaces (Moderator).

SYMPOSIA


SPECIALTY DAY


Garvin, K.: What is the Role of One-Stage Incision and Debridement with Component Retention? The Knee Society Specialty Day.
Continuing Education and Grand Rounds

CME ACCREDITED • GRAND ROUNDS ARE HELD IN ROOM 1005 OF THE SORRELL CENTER • MONDAYS 6:30 A.M.

Continuing education seminars and Grand Rounds presentations by department faculty, current residents and guest speakers are open to any interested participants. To obtain an updated schedule or information on how to earn CME credits for these presentations, contact Geri Miller at (402) 559-2258 or gmiller@unmc.edu.

Presentations given from March through June are as follows:

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<tr>
<th>Month</th>
<th>Date</th>
<th>Speaker</th>
<th>Title</th>
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<tbody>
<tr>
<td>March</td>
<td>2</td>
<td>Mid-year Resident Reviews (Faculty)</td>
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<tr>
<td></td>
<td>9</td>
<td>“Periprosthetic Hip Fractures” (Beau Konigsberg, M.D.)</td>
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<td>16</td>
<td>“Subtrochanteric Femur Fractures” (Matthew Mormino, M.D.)</td>
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<td>23</td>
<td>AAOS Presentations</td>
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<td>April</td>
<td>6</td>
<td>Morbidity and Mortality Winter Quarter (Chief Residents)</td>
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<td>13</td>
<td>“Tribute to Dr. Enneking” (Sean McGarry, M.D.)</td>
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<td>20</td>
<td>“Pediatric Knee Injury” (M. Layne Jenson, M.D.)</td>
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<td>27</td>
<td>“Zone 2 Flexor Tendon Injuries” (Paul Nielsen, M.D.)</td>
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<td>May</td>
<td>4</td>
<td>“Odontoid Fractures” (Scott Vincent, M.D.)</td>
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<td>11</td>
<td>“Pediatric Femur Fractures” (Susan Scherl, M.D.)</td>
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<td></td>
<td>18</td>
<td>“Preventing Hospital Readmission in Joint Arthroplasty” (Kevin Garvin, M.D.)</td>
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<td></td>
<td>25</td>
<td>Memorial Day - No Grand Rounds</td>
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<tr>
<td>June</td>
<td>1</td>
<td>“Scaphoid Fractures” (Nick Bruggeman, M.D.)</td>
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<td>8</td>
<td>“Talus Fractures” (Annie Knierim, M.D.)</td>
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<td>15</td>
<td>Post Graduation - No Grand Rounds</td>
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<td></td>
<td>22</td>
<td>Morbidity and Mortality Spring Quarter (Chief Residents)</td>
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Visiting speakers enhance resident education

The Department of Orthopaedics believes in providing a well-rounded educational experience for our residents. With the help of annual contributions to the department’s Development Fund, we are able to continue bringing guest speakers who offer new and innovative ideas in surgical techniques, research topics and patient care.

The following speakers presented from February - June 2015.

February 2015

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<tr>
<th>Date</th>
<th>Speaker</th>
<th>Title</th>
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<tr>
<td>9</td>
<td>Dr. Kim Apker, Department of Radiology, UNMC</td>
<td>“Ankle MRI”</td>
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June 2015

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<th>Date</th>
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<td>1</td>
<td>Dr. Nicholas Bruggeman, OrthoWest, Omaha, NE</td>
<td>“Scaphoid Fractures”</td>
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<tr>
<td>8</td>
<td>Dr. Annie Knierim, CHI Health Alegent Creighton Clinic, Omaha, NE</td>
<td>“Talus Fractures”</td>
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June 12-13 GRADUATION CEREMONIES

Dr. H. Claude Sagi, Associate Clinical Professor in the Department of Orthopaedic Surgery, University of South Florida, Tampa, FL

“The Changing Paradigm of Open Fracture Treatment” and “The Theory of Relativity as it relates to Pelvic Fracture Treatment”

Thomas Wilkins, Music Director, Omaha Symphony, Omaha, NE

“The Best of Us for the Rest of Us”
Publications, presentations & honors

Department faculty members present many lectures, seminars, and courses at local and regional, as well as national and international meetings. They also serve in leadership positions and offices for local, state, national and international organizations. The following are our faculty and staff’s presentations and publications, awards and achievements, offices held, and other professional activities from November 2014 - June 2015.

Publications (peer-reviewed):


Publications (other):


Book Chapters and Reviews:


Video Edits:


Awards and Achievements:


Presentations (National and International):


• Simone, J.; Streubel, P.; Sanchez-Sotelo, J.; Steinmann, S.; Adams, J.: Poster Presentation: Changes in the distance from the axillary nerve to the glenohumeral joint shoulder positioning.


• Garvin, K.: ICL 221: Total Hip Arthroplasty-How Do I Get Out of this Jam? The Cup Pressfit is Poor; The Femoral/Acetabular Anteverision is not What I Expected; The Hip Dislocates Early; There is a Sciatic Nerve Problem.

• Garvin, K.: ICL 302: Preventing
Hospital Readmissions and Limiting the Complications Associated with THA. Prevention and Management of Infection and Wound Complications (moderator and presenter).

- **Schelr, S.:** ICL 367: Problems and Procedures in Pediatric Trauma: Case Based Learning (presenter).

- **Schelr, S.:** ICL 454: Challenges in the Management of Fractures in Adolescents: A Case Based Approach (moderator).

- **Schelr, S.:** ICL 314: Pediatric Orthopaedic Trauma: Principles of Management (presenter).

- **Cornett, C.:** ICL 431: Surgical Management of Cervical Spondylotic Myelopathy (presenter).

- **Garvin, K.:** Hip Arthroplasty I: Bearing Surfaces (moderator).

- **Garvin, K.:** Are there any Disadvantages or Risks Associated with a Rapid Recovery Protocol for all Total Joint Arthroplasty Patients? AAOS Symposium: Contemporary Strategies in Rapid Recovery Total Joint Arthroplasty (presenter).

- **Garvin, K.:** Femoral Revision using Monoblock. *The Hip Society Specialty Day,*

- **Garvin, K.:** What is the Role of One-Stage Incision and Debridement with Component Retention? The Knee Society Specialty Day.


Hewlett, A; White, T; Taiber, A; Schwarz, D; Ellis, D; Fey, P; Lyden, E; Garvin, K; Konigsberg, B; Hartman, C: Enhanced Detection of *Staphylococcus aureus* Colonization in Patients Undergoing Total Joint Arthroplasty. Presented at:


Olinger, C; O’Mera, S; Miller, R; Bergmann, K; Chakkalakal, D; Siebler, J: Association of Specific Internal Organ Injuries with Femoral Shaft Fractures - Podium Presentation. *Mid-America Orthopaedic Association Annual Meeting,* Hilton Head, SC, April 23-25, 2015.


Pediatric Orthopaedic Society of North America Annual Meeting, Atlanta, GA, April 29-May 2, 2015:

- **Schelr, S.:** Chair: Subspecialty Day.

- **Schelr, S.:** Moderator, Trauma Papers.

- **Schelr, S.:** Femoral Fractures in Children: from the Hip to the Knee. *Grand Rounds,* O. J. Hurt, MD Inaugural Lectureship, Louisville, KY, University of Louisville, May 8, 2015.


Pediatric Orthopaedic Society of North America Annual Meeting, Atlanta, GA, April 29-May 2, 2015:

- **Schelr, S.:** Chair: Subspecialty Day.

- **Schelr, S.:** Moderator, Trauma Papers.

- **Schelr, S.:** Femoral Fractures in Children: from the Hip to the Knee. *Grand Rounds,* O. J. Hurt, MD Inaugural Lectureship, Louisville, KY, University of Louisville, May 8, 2015.


Presentations (Local and Regional):

- **Cornett, C.:** Common Back Problems and General Treatment Options. *NOH Spine Pain Seminar.* Omaha, NE, Nebraska Orthopaedic Hospital, December 2014.

- **McGarry, S.:** “Limb Salvage Surgery for Bone Tumors.” *Nebraska Chapter of the Association of Pediatric Hematology/Oncology Nurses,* Omaha, NE, January, 2015.


- **Cornett, C.:** Spine Injuries.

- **Esposito, P.:** Cerebral Palsy, February 18, 2015.

- **Esposito, P.:** Pediatric Hip and Femur Fractures, March 25, 2015.

- **Hasley, B.:** Book Chapter, OKU Chapters 4-6, February 26, 2015.

- **Hasley, B.:** Myelomeningocele, March 11, 2015.

- **Hasley, B.:** Case Conference, April 15, 2015.

- **Jenson, M.L.:** Case Conference, January 21, 2015 and May 27, 2015.

- **Jenson, M.L.:** Book Chapter 10: Imaging, March 18, 2014.

- **Jenson, M.L.:** Spondylolisthesis/Diskitis, April 29, 2015


- **Schelr, S.:** Growth and Development, April 22, 2015.

- **Schelr, S.:** Book Chapters: Chapter 9: Child with Developmental Disability, and Chapter 19: Coxa Vara, June 17, 2015.

Current Grants:


Garvin, K. (CI); Hartman, C. (CI); et al.

Haider, H.: A simulator wear study of ceramic-on-plastic total hip replacement systems from Japan comparing differently processed polymer bearings, Exponent. August 1, 2014 to March 31, 2015, Principal Investigator.


Community Service:


Memberships and Offices Held:

Garvin, K.:

Second Vice President, The Hip Society, March 2015-March 2016
Nebraska Medicine
• Member, Ambulatory Executive Committee, 2014-present
• Member, Surgical Services Executive Committee, 2014-present
UNMC Physicians
• Finance Committee, 2012-present
• Executive Board, 2000-present
Member, Adult Reconstruction Hip Program Subcommittee, American Academy of Orthopaedic Surgeons, February 2012-March 2016

Chair, Membership Committee, American Orthopaedic Association, June 2014-June 2015
Chair, Research Committee, The Knee Society, March 2012-March 2015
Board Member, Omaha Sports Commission, Omaha, NE 2007-present
Member, Board of Trustees, University of South Dakota Foundation, 2006-present
Consultant Reviewer, British Bone and Joint Journal, November 2014-present
Consultant Reviewer, The Knee, March 2012-present
Editorial Board Member, Techniques in Knee Surgery, 2002-present
Consultant Reviewer, European Journal of Epidemiology, 1995-present
Consultant Reviewer, Clinical Orthopaedics and Related Research, 1991-present
Consultant Reviewer, Journal of Bone and Joint Surgery, 1990-present
Comett, C.:
Medical Director of Physical and Occupational Therapy, The Nebraska Medical Center and Bellevue Medical Center, Omaha, NE, 2014-present
Department Deputy for Orthopaedics, OneChart, 2013-present
Member, Physician Advisory Team Committee, The Nebraska Medical Center, 2013-present

Daccarett, M.:
Review Panel Member, Orthopedics, 2013-present
Trauma Committee Member, UNMC, Omaha, NE, 2008-present
Translator, Journal of Arthroplasty, 2008-present

Dietrich, M.:
Sideline Physician for area high school teams, 2013-present
Surgical Services Executive Committee Member, The Nebraska Medical Center, Omaha, NE, 2011-present
Sports Medicine Steering Committee, Nebraska Medicine, 2012-present

Esposito, P.:
Elected International Ambassador of the Bone and Joint Decade (BJD),

Bone and Joint Decade (BJD), October 2014-February 2017
Chairman, Pediatric Specialty Group, U.S. Bone and Joint Initiative, 2013-present
Board of Directors, Physician Director, Children’s Specialty Physicians, February 2012-2015

Children’s Hospital & Medical Center
• Board of Directors, Advisory Board 2010-present
• Quality and Patient Safety Committee, 2008-present

Medical Staff Committees
• Clinical Service Chief, Orthopaedic Surgery 2009-present
• Information Technology Oversight Committee, 2009-present
• Allied Health Committee, 2008-present
• Bylaws Committee, 2008-present
• Credentials Committee, 2008-present

Reviewer, Clinical Orthopedics and Clinical Research, 2010-present
Consultant Reviewer, PEDIATRICS, 2005-present
Reviewer, Journal of Pediatric Orthopaedics, 2015-present

Haider, H.:

Journal of Engineering in Medicine:
• Reviews Editor, IMechE Part H, March 2012-present
• Editorial Board Member, IMechE Part H, 2009-present
• Reviewer, 2007-present

International Society of Technology in Arthroplasty (ISTA)
• Director, Scientific Review and Information Technology, September 2011-present
• Member, Board of Directors, 2005-present

Biomedical Engineering Committee, The American Academy of Orthopaedic Surgeons; Member and Official Representative of the Orthopaedic Research Society, February 2011-present

Basic Science Education Committee (BSEC), The Orthopaedic Research Society, 2011-present

Reviewer, Journal of Clinical Orthopaedics and Related Research
(CORR), July 2010-present

Appointed to the Editorial Board for the Journal Advances in Orthopedics, June 2010-present

Reviewer of abstracts (Re-appointment), Orthopaedic Research Society, August 2009-present

Chairman/Coordinator, Biotechnology and Biomedical Engineering Committee, Iraqi American Academic and Professional Community Program, “Together for Iraq” project, Iraqi Cultural Center, Washington, D.C., 2009-present

Reviewer, Journal of Orthopaedic Research, 2007-present

International Standards Organization (ISO)
- Elected Deputy Chair of the US Delegation, 2015-present
- Coordinator/Liaison Officer, Working Group 2 (Implant Wear), ISO TC150 US Tag, International Standards Organization, 2013-present
- Member, United States Delegation to Committee SC 150 (Medical Devices), 2002-present

American Society of Testing and Materials
- Co-Chair, Knee Wear Testing Standards Committee, ASTM International, 2002-present
- Chair, Ankle Replacement Testing Standards Committee, ASTM International, 2000-present

Hartman, C.:
Member, Board of Directors, Metro Omaha Medical Society Foundation, January 2015-present
Member, Membership Committee, Metro Omaha Medical Society, January 2013-present
Member, Orthopaedic Basic Science Subcommittee, American Academy of Orthopaedic Surgeons, February 2012-March 2016
Member, Finance Committee, Mid-America Orthopaedic Association, 2015-2016

UNMC
- Member, UNMC Graduate Faculty, May 2013-present
- Member, Dissertation Committee, Tyler Scherr, Ph.D. Student, Department of Pathology and Microbiology, UNMC College of Medicine, 2012-present
- Member, Dissertation Committee, Raheleh Miralami, Ph.D. Student, MSIA Program, UNMC College of Medicine, 2012-present
- Member, Dissertation Committee, Ke Ren, Ph.D. Student, Department of Pharmaceutical Sciences, UNMC College of Pharmacy, 2012-present
- Member, Surgical Services New Technology and Products Committee, 2011-present
- Member, Website Development Committee, 2011-present
- M2 ICE Course Instructor, September 2009-present
- M3 Course Instructor September 2009-present

Nebraska Orthopaedic Hospital
- Utilization Review Committee, 2013-present
- Finance Committee, 2012-present

Hasley, B.:
Medical Director of the Pediatric Orthopaedic Clinics of the Children's Specialty Physicians, Children's Hospital & Medical Center, Omaha, NE, May 2013-present
Medical Staff Committee, Focused Peer Review, Children's Hospital & Medical Center, 2008-present

Jenson, M.L.:
Children's Hospital and Medical Center
- Member, Emergency Department Interdisciplinary Committee, January 2015-Present
- Member, Surgical Services Interdisciplinary Committee, January 2014-Present
- Program Developer, New Sports Medicine Program, 2013-present

Konigsberg, B.:
Member, Adult Reconstruction Hip Program Committee, American Association of Orthopaedic Surgeons, June 2015-present
Member, Ambulatory Clinic Implementation Workgroup, ONE-Team (TNMC/UNMC/UNMC-P), February 2014-February 2014

UNMC College of Medicine
- Member, DVT/PE Preventative Practices Committee, September 2014 - present
- Member, Faculty Senate, College of Medicine, January 2014-present
- Member, Dissertation Thesis Committee, Krishna Sarma, Ph.D. student, Department of Genetics, Cell Biology and Anatomy, December 2013-present
- Course Director, UNMC Orthopedic Surgery Grand Rounds, October 2010-present
- Instructor, M1, M2 ICE Course, August 2010-present
- Instructor, 2nd Year Medical Students, August 2009-present

Consultant Reviewer, Techniques in Orthopaedics, June 2015-present
Consultant Reviewer, Orthopaedics, September 2013–present
Member, Membership Committee, Metro Omaha Medical Society, April 2012-present
Consultant Reviewer, Journal of the American Geriatrics Society, September 2010-present
Section Chief, Orthopaedics, VA Medical Center, January 2009-present

McGarry, S.:
UNMC:
- Faculty Senate, June 2013-present
- Continuing Education Committee, Member, October 2012-present
- Tissue Bank Review Committee, Member, 2006-present

Musculoskeletal Transplant Foundation (MTF):
- Executive Committee, January 2015-present
- Medical Board of Trustees, April 2006-present

Consultant Reviewer, Clinical Orthopaedics and Related Research, March 2011-present
Consultant Reviewer, Orthopaedics, February 2011-present

Children's Hospital of Omaha Bylaws Committee, Member, January 2008-present

see PUBLICATIONS on pg. 17
MEET THE RESIDENTS
CLASS OF 2020

DARIN J. LARSON, M.D.
Hometown: Vincent, Iowa
Medical School: University of Iowa Carver College of Medicine
Undergraduate: University of Iowa

What inspired your interest in orthopaedic surgery?
I grew up working for my dad’s construction business, so I have always enjoyed working with my hands. Orthopaedic surgery allows me to use some of these skills that I learned to improve the lives of many people.

Three things people may not know about you:
- I have lived in Iowa my entire life prior to coming to Omaha.
- I enjoy hunting and fishing in my free time.
- I do not have any siblings.

JOSHUA C. LOCKER, M.D.
Hometown: Orange City, Iowa
Medical School: University of Iowa Carver College of Medicine
Undergraduate: Northwestern College

What inspired your interest in orthopaedic surgery?
I loved the opportunity to work with my hands during surgery and am very interested in the musculoskeletal system so I thought orthopaedics would be a great fit.

Three things people may not know about you:
- I spent time on service and study abroad trips to Ecuador, Ghana, and the Navajo Nation in Arizona.
- I enjoy athletics and won five intramural championships during med school at Iowa.
- I love to fish and spend time outdoors.

EVAN P. LARSON, M.D.
Hometown: Bode, Iowa
Medical School: University of Iowa Carver College of Medicine
Undergraduate: University of Iowa

What inspired your interest in orthopaedic surgery?
The summer research fellowship I completed with Dr. John Albright after my first year of medical school.

Three things people may not know about you:
- I ddetasseled corn in the summers for 10 years.
- I drove a Cambus for the University of Iowa bus service in college.
- I met Willie Nelson when I was a kid.

EMMETT J. GANNON, M.D.
Hometown: Kearney, Nebraska
Medical School: University of Nebraska Medical Center
Undergraduate: University of Nebraska at Kearney

What inspired your interest in orthopaedic surgery?
The unique opportunity to have a lasting impact on patients’ lives by working with your hands and building relationships with each individual.

Three things people may not know about you:
- I am married to my wonderful wife, Setera, and we are expecting our first child in October.
- I dabble with playing the guitar and writing music.
- I ran the high hurdles at UNK.

DANIEL S. SVEOM, M.D.
Hometown: Staples, Minnesota
Medical School: University of Minnesota Medical School
Undergraduate: Wartburg College

What inspired your interest in orthopaedic surgery?
Orthopaedics allows me to work with my hands in a fast-paced and interesting work environment.

Three things people may not know about you:
- Even though I grew up in Minnesota, I was actually born in Brooklyn, NY.
- I got a shutout the first time I played goalie for my intramural med school hockey team. I haven’t had one since.
- I enjoy golf, hockey, bow hunting and cross-country skiing.
Department hosts visiting professor Dr. Lizhi Zhang

Lizhi Zhang, M.D., Ph.D., an orthopaedic surgeon from Shanghai, China, recently spent two months as a visiting professor at UNMC.

As a part of the collaboration effort between UNMC and Tongji University School of Medicine, Dr. Zhang traveled the nearly 7,000 miles to Omaha to observe and learn from department faculty members.

The UNMC-Tongji partnership is designed with a specific goal in mind – to help Chinese faculty return home able to supervise M3/M4 educational efforts for students. He was one of several visiting faculty members that arrived in Nebraska April 6 and returned to Shanghai May 29.

Dr. Zhang spent his time in Omaha following faculty and residents, participating in daily rounds, morning lectures and observing surgeries. In particular, he was interested in learning the methods used by UNMC faculty to teach residents and how the residents performed various operations.

“It was my first trip to the United States, and the resident program is much different here than it is in China” Dr. Zhang said. “I think I learned many different things here. When I go back to China, I will be able to introduce these methods to many people.”

Dr. Zhang is currently an associate chief physician and professor in the Orthopaedic Department at Shanghai YangPu Hospital, which is affiliated with Tongji University. He specializes in trauma, arthroplasty and bone tumors.

PUBLICATIONS (continued from pg. 15)

National Comprehensive Cancer Network (NCCN):
- Soft Tissue Sarcoma Panel, July 2007-present
- Bone Cancer Panel, May 2006-present

Mormino, M.:
Mid-America Orthopaedic Association:
- Chairman, Finance Committee, 2014-2015
- Treasurer, 2014-2015
Consultant Reviewer, Journal of Orthopaedic Trauma, February 2014-present
Member, Education Committee, Orthopaedic Trauma Association, 2012-2015

AO North America:
- Fellowship Advisory Board, 2011-present
- Faculty, 1997-present
Consultant Reviewer, Journal of Surgical Education, 2010-present
Consultant Reviewer, Journal of the American Academy of Orthopaedic Surgeons, 1999-present

Scherl, S.:
Children’s Hospital & Medical Center:
- Member, Omaha Emergency Department Interdisciplinary Committee, January 2013-present
- Member, Omaha Surgical Services Interdisciplinary Committee, January 2012-present
- Member, Executive Committee, 2012-present
- Member, Omaha Education Committee, January 2011-present
- Member, Omaha Transfusion Committee, January 2010-present
- Member, Omaha Trauma Performance Improvement and Patient Safety Committee, 2009-present

Pediatric Orthopaedic Society of North America
- Board of Directors, 2015-2017
- Program Committee, May 2013-present
- Advocacy Committee, May 2013-present

American Orthopaedic Association
- Member, Traveling Fellowship Committee, June 2012-present
- Chair, ASEAN Traveling Fellowship Subcommittee, June 2011-present

Streubel, P.:
Consultant Reviewer, Journal of Orthopaedic Trauma, 2012-present
Consultant Reviewer, Journal of Shoulder and Elbow Surgery, 2012-present
Consultant Reviewer, Revista Ciencias de la Salud, Universidad del Rosario, 2014-present
Contributing Editor, 2015 Yearbook of Hand and Upper Limb Surgery, 2015
Test Writer, AANA/ASES Maintenance of Certification Exam Program 2015

Teusink, M.:
Member, Emerging Leaders Program, American Orthopaedic Association, June 2015-present
Member, Ambulatory Center for Surgical Innovation Planning Committee, University of Nebraska Medical Center, 2014-present
Journal Reviewer, Journal of Shoulder and Elbow Surgery, 2014-present
Journal Reviewer, Orthopaedics, 2013-present
Employees receive second Silver “U” Awards

SILVER ‘U’ AWARD: The Chancellor’s Council Silver ‘U’ Award is a UNMC program that recognizes employees. Silver “U” winners demonstrate leadership in their department, a commitment to excellence and willingness to collaborate with co-workers.

ELISE BALABAN, May 2015

One of the marks of a good employee is the ability to adapt to change, and Elise Balaban has the record to prove it. As her job functions have shifted over the years, Elise hasn’t missed a beat.

She joined the team more than 11 years ago as a file room clerical assistant. From there, she became a self-taught transcription assistant and continued to perform at a high level for nearly eight years. Eventually she took over as the department’s new office associate to support several new faculty members.

After the loss of another office associate in December 2014, Elise and her colleagues were asked to cover the remaining faculty. Elise took on the task of supporting an additional faculty member and has done an exceptional job of keeping up with busy schedules and learning new skills.

“Elise has proven to be a problem solver able to handle her new responsibilities,” said David Staiert, department administrator, who nominated Elise for the award.

“She is always willing to help other staff members with their workload and teach them the new skills she has learned,” he said.

Elise has continued to take on further job responsibilities, including maintaining the file room, doubling as a transcriptionist when needed and supporting Drs. Chris Cornett, Justin Siebler and Philipp Streubel. Despite the workload, she demonstrates strong leadership skills and the ability to handle any issues as they arise.

“In short, Elise has become one of the go to staff members in the department,” David said. “She will do what it takes to get the job done.”

EILEEN ROONEY, April 2015

Few things can start the day off on the right foot like a smile and a sunny “Good morning!” greeting from Eileen Rooney as you walk past her desk.

Eileen is known for her upbeat attitude and strong work ethic. An Orthopaedics Department employee since 2008, Eileen is a master at multi-tasking. In her role as an accounting/office assistant, Eileen keeps busy supporting two faculty members in addition to department human resources duties, accounting tasks and splitting her time between the department’s main campus and the Scott Technology Center (STC) laboratory.

In addition to keeping up with a full workload, Eileen finds time to help out wherever needed around the office. Her dedication to UNMC and the Department of Orthopaedics has earned her a second Silver “U” Award.

“Eileen is a great employee,” said David Staiert, department administrator. “I ask her to do something and she gets it done.”

MARK YOUR CALENDAR!

2015 RESIDENT RESEARCH FORUM TO BE HELD FRIDAY, NOVEMBER 20.

For more information, contact Susan Siebler at 402-559-4251.
CHRISTINE STUCKENSCmidt, LPN

As an outpatient orthopaedics clinic nurse, Christine Stuckenschmidt is known for her respectfulness toward patients and colleagues, her positive attitude and her compassionate manner.

In March, Christine was nominated as an “Extraordinary Nurse.” She represented the Orthopaedics Department and was recognized by the hospital during National Nurses Week in May. Christine was nominated by clinic manager Dawn Meisinger, RN, BSN and Dr. Matthew Mormino.

In their nomination form, Dawn and Dr. Mormino described Christine as “a very kind, giving person who advocates not only for her patients but for every patient that is a part of our orthopaedic clinic.”

“As a true professional she is willing to put her work and her patients’ well-being ahead of her own needs or convenience,” they said.

DILLON ELLIS, RESEARCH ASSOCIATE

Dillon Ellis, clinical research associate II, completed UNMC’s Foundations for Success program in May 2015. Dillon participated in the four-session program at the nomination of his supervisor, Dana Schwarz, RN, MS, clinical research coordinator.

Foundations for Success is a career development series offered to UNMC employees to teach them conflict-resolution skills, provide them with leadership tools and demonstrate how to better manage workflow.

“I really enjoyed the Foundations for Success program,” Dillon said. “It’s helped me rethink the way I ‘tackle’ my duties at work, and even at home. It’s also a great way to meet people from other departments and learn about what they do.”

He was recognized for completing the program at a May 13 luncheon. Dillon said he was honored to be nominated.

“I’m grateful to work for an organization that cares about my career development,” he said. “In addition to everything I learned from the program, one of the most important things that I took away was that I work with a great team, and a supportive supervisor—and I really appreciate that.”

2015 Service Anniversaries

5 YEARS: Kevin Swierczek, Research Engineer, UNMC

10 YEARS: Stephanie Scheller, Medical Receptionist, Nebraska Medicine
          Bridget Burke, Physician Assistant, UNMC

25 YEARS: Mary Peterson, Specialty Care Nurse, UNMC

30 YEARS: Kimberley Wells, Medical Assistant, Nebraska Medicine
In this issue

1 Residency program enhanced
The Department welcomes five new residents to the program this year. The ACGME-approved resident increase will provide more learning opportunities for residents.

4 Dr. Miguel Daccarett volunteers in Nepal
Following the devasting earthquake in April 2015, Dr. Miguel Daccarett, associate professor specializing in traumatology, traveled to the Nepal Orthopedic Hospital to lend a helping hand.

9 Rapid Recovery Program takes shape
Fast-track recovery protocols for total hip and total knee arthroplasty patients results in decreased length of hospital stay and other long-term benefits.

Find us online!
Visit www.unmc.edu/orthosurgery to view or share this newsletter with friends and colleagues.
Acellular dermal matrix for soft tissue coverage in a farm injury to the hand

Philipp N. Streubel, M.D., Assistant Professor
Hand, Elbow and Shoulder Surgery, Department of Orthopaedic Surgery and Rehabilitation

Case Report

Background:
Traumatic injuries to the hand are a leading cause of morbidity and time away from work. Due to the close proximity of structures in the hand, trauma frequently disrupts multiple components, including bone, tendons, ligaments, nerves and blood vessels.

Treatment requires careful decontamination of the wound followed by reduction and fixation of fractures and joints and repair of tendons, nerves and blood vessels. Adequate soft tissue coverage is required to achieve healing, avoid bacterial colonization and allow for functional rehabilitation of the hand. In some instances, skin disruption can be closed by direct suture of the wound edges. In other circumstances, residual skin defects can be left to heal by secondary intention. However, this is not recommended in the event of exposed bones, tendons or neurovascular structures. In this setting, coverage has historically been achieved with tissue transfers through flaps.

Skin flaps are segments of soft tissue composed of epidermis and dermis along with its own blood supply. Local flaps are fashioned by mobilizing adjacent skin to cover a defect. However, in the setting of trauma, adjacent soft tissues are frequently in suboptimal condition for flap creation. Flaps can alternatively be mobilized from more distant locations by creating a vascular pedicle that increases the reach of the flap. Finally, free flaps can be obtained from a remote location by excising a segment of skin with a discrete feeding blood vessel. Once transferred to the site to be covered, the artery is connected to adjacent blood vessels using microsurgical technique. This provides new perfusion to the flap, which is inset to provide the required soft tissue coverage. While pedicled and free flaps provide soft tissue coverage from areas in the body that are not affected by the trauma, they pose additional morbidity to the patient, since they require extensive surgical dissection and prolonged surgical time.

Skin substitutes have recently become available as an alternative for coverage of complex soft tissue defects. The purpose of these is to provide a scaffold into which cells from the host can migrate, with the goal of recreating the dermal layer of the skin. Once incorporated, these scaffolds are covered with partial thickness skin grafts. Satisfactory functional and cosmetic results have been reported for both acute...
and chronic wounds of the upper and lower extremity, without the potential complications of tissue transfers.\textsuperscript{1-5}

The following case report describes the use of an acellular dermal matrix for the coverage of a complex defect of the dorsum of the hand of a young farmer.

**Case Example:**
A 19-year-old right-hand dominant male was transferred to UNMC after sustaining an injury to his left hand with a hay bailer. He suffered an extensive degloving injury involving 60 percent of the dorsum of his hand with exposed extensor tendons (Figure 1A). He also sustained a nondisplaced fracture to the base of his index finger (Figure 1B). He was emergently taken to the operating room for irrigation and debridement. Negative pressure wound therapy was applied for temporary management of the wound (Figures 2A and 2B).

On postoperative day three, the patient was returned to the operating room for a second look. The wound bed was found to be clean without drainage (Figure 3A). It was decided to proceed with coverage of the exposed tendons with an acellular dermal matrix composed of bovine tendon collagen cross-linked with glycosaminoglycans and a top layer of silicone (Figure 3B)\textsuperscript{5}. The upper extremity was immobilized for three weeks. At three weeks the collagen matrix was found to be fully incorporated (Figure 4). Punctate bleeding could be observed, confirming satisfactory perfusion. A partial thickness skin graft obtained from the arm using a 0.015-inch dermatome was sutured onto the scaffold using absorbable suture. The graft was not meshed with the purpose of maximizing cosmetic appearance. A compressive dressing with a bolster was applied.

Two weeks later, the skin graft was found to be fully incorporated (Figure 5A) and the fracture of the index finger adequately healed (Figure 5B). The patient began an occupational therapy program. At three months after injury, satisfactory function had been regained, with limited range of motion of the index finger interphalangeal joint only (10 to 100 degrees) (Figures 6A, 6B and 6C).

References: