We are excited to be the first in Nebraska to contribute our data to the registry,”
- Dr. Kevin Garvin, Chair
Orthopaedic Surgery

More than seven million people in the United States are living with an artificial hip or knee, according to a report given at the annual meeting of the American Academy of Orthopaedic Surgeons (AAOS) this year.

“Americans are living longer, more active lifestyles and seek out ways to continue to do so when faced with joint problems that a hip or knee implant can solve,” said Curtis Hartman, M.D., associate professor of orthopaedic surgery and rehabilitation in the UNMC College of Medicine.

In order to ensure the best clinical outcomes for patients, national implant registries have sprung up around the world to track surgical techniques, which implants work and which ones don’t, Dr. Hartman said.

UNMC and its hospital partner, The Nebraska Medical Center, are in the process of joining the American Joint Replacement Registry (AJRR) with the goal of tracking how well patients and implants are functioning.

There are new implants coming onto the market all the time, Dr. Hartman said. The advantage of a registry is knowing as soon as possible which product performs the best or has the highest failure rates.

“They all sound good and have promising preliminary data or the FDA wouldn’t approve them, but sometimes the best ideas don’t always work,” he said. “This really will help orthopaedic surgeons and patients understand which implant is best for them on an individual basis.”

The most common causes for implant failure are loosening, infections, dislocation and implant associated failure.

“In one case of a metal-on-metal hip implant, it took several years before a trend emerged that led surgeons to cease using that particular type of implant,” Dr. Hartman said. “If we had a registry we would have seen this happen sooner and responded much more quickly.”

see AJRR pg 3
Message from the chair

Stepping it up: working harder and smarter.

One of the primary goals of our department has always been to not only be a leader in orthopaedic care, but an innovator in the future of orthopaedics as a whole, including all facets of our mission: patient care, education and research. Every day, faculty, residents and staff work as a team to make this a reality. A great example of this is the information we gather about patient clinical and surgical care. We are continuously looking for new ways to utilize that information, making it work harder and smarter for us, our patients, and our peers.

Recently, the department joined the American Joint Replacement Registry (AJRR) - another opportunity for us to use information we are already gathering and join forces with other orthopaedic surgeons around the nation to create a bigger picture of trends emerging in joint replacement surgery. The goal of the AJRR is to track how well patients and implants are functioning on a widespread, national level. This will allow orthopaedic surgeons around the country to become aware of emerging trends earlier, and respond more quickly at a patient care level. We are excited to be the first department in Nebraska to contribute data to the registry.

Also on the clinical front, the Medical Center’s decision to begin providing 24/7 trauma coverage for Omaha and the surrounding areas brought more exciting changes to our department. On August 1, Dr. Justin Siebler, orthopaedic traumatology surgeon, joined our team. Many of you may be familiar with Dr. Siebler, as he is an alum of our residency program. You can read Dr. Siebler’s full biography on page 4.

Dr. Philipp Streubel, hand and upper extremity surgeon, also joined our team on August 1. We introduced Dr. Streubel in our Spring 2014 issue of Breaking News, but for those who missed it, here’s a quick recap of Dr. Streubel’s educational history. Medical degree/residency: M.D., Pontificia Universidad Javeriana (1996-2002); orthopaedic residency, Universidad del Rosario in his hometown of Bogotá, Colombia (2004-2008). Fellowships: Orthopaedic Trauma, Vanderbilt Medical Center, Nashville, TN (2010-2011); Shoulder and Elbow Surgery, Mayo Clinic, Rochester, MN (2011-2012); Hand, Elbow and Microsurgery, Rush Medical Center, Chicago, IL (2013-2014).

Please help us welcome Drs. Streubel and Siebler, as well as the new interns who joined our orthopaedic residency program on July 1, the Class of 2019: Drs. Erik Bowman, Todd Gilbert, Tyler Larson and Ryan Miller. You can learn more about each of them on page 11.

To all who were able to join us for the graduation ceremonies in June, I’d like to thank you for taking the time to do so. Having alumni and peers participate in both the academic and recreational activities at graduation makes the event a more dynamic and memorable experience for our graduates. I would like to encourage continued participation at graduation, as well as other events throughout the year such as our Annual Alumni Reception during the AAOS and Resident Research Forum in November. Alumni participation is an important facet of our resident education program and we appreciate all you do to help support the department in providing an exceptional educational experience for our residents!

Kevin L. Garvin, M.D.
L. Thomas Hood, M.D., Professorship
Professor and Chair
Orthopaedic Surgery and Rehabilitation
Our pediatric clinical partner, Children’s Hospital & Medical Center, gained recognition by U.S. News and World Report as a Best Children’s Hospital in Orthopedics for 2014-15. Children’s is ranked #29 of 50 in Orthopedics based on quality, range of services available, volume, availability of subspecialists, and other clinical support in a pediatric setting.

CONGRATULATIONS TO OUR COLLEAGUES AND FULL-TIME FACULTY: PAUL ESPOSITO, M.D.; BRIAN HASLEY, M.D.; SUSAN SCHERL, M.D.; AND M. LAYNE JENSON, M.D., AS WELL AS TO THEIR ENTIRE TEAM.

U.S. News & World Report ranked Children’s in four specialties in the new 2014-15 Best Children’s Hospitals rankings, including #29 in Orthopedics; #41 in Pulmonology; #42 in Gastroenterology and GI Surgery; and #48 in Cardiology and Heart Surgery.


U.S. News & World Report again ranks Med Center one of America’s Best Hospitals and the top hospital in Nebraska

U.S. News & World Report surveyed nearly 5,000 hospitals nationwide to come up with this year’s list of Best Hospitals. For 2014-15, U.S. News evaluated hospitals in 16 adult specialties and ranked the top 50 in most of the specialties. Just 3 percent of the hospitals analyzed for Best Hospitals earned national ranking in even one specialty.

The Nebraska Medical Center is ranked 36th nationally for its cancer care, 29th for gastroenterology and GI surgery, 29th in nephrology, 31st in neurology and neurosurgery, 41st in pulmonology and 25th in urology. This is the best performance for the hospital in terms of national recognition in these rankings.

The Nebraska Medical Center was also high performing in six other specialties (in alphabetical order) including:

- Cardiology and heart surgery
- Diabetes and endocrinology
- Ear, nose and throat
- Geriatrics
- Gynecology
- Orthopaedics

AJRR (continued from pg 1)

“The AJRR, AAOS and the specialty societies have worked diligently to allow efficient and confidential data collection. Information on nearly 20,000 patients has been collected from approximately 100 hospitals,” said Dr. Kevin Garvin, chair of orthopaedic surgery and a hip and knee replacement surgeon in the department.

While the U.S. is behind other registries (Scandinavia, New Zealand, Australia and the United Kingdom), it is likely that it does not diminish the registry’s importance, commented Dr. Garvin. In time, all hospitals will be joining the registry either as mandated or as an incentive to improve outcomes.

“We are excited to be the first in Nebraska to contribute our data to the registry,” said Dr. Garvin.
We are excited to announce that Justin C. Siebler, M.D., joined the department’s full-time faculty as an assistant professor August 1 of this year. A board-certified orthopaedic surgeon, Dr. Siebler specializes in orthopaedic traumatology.

Dr. Siebler grew up in Lincoln, Nebraska. He received his medical degree at the University Nebraska Medical Center (2000-2004), and attended orthopaedic residency at the Creighton University/University of Nebraska Health Foundation Orthopaedic Surgery Residency Program (2004-2009), both in Omaha, Nebraska. Following residency, he completed an orthopaedic traumatology fellowship at the Florida Orthopaedic Institute in Tampa, Florida (2009-2010).

Prior to joining the department, Dr. Siebler was an assistant clinical professor at Creighton University (2010-present).

Dr. Siebler and his wife, Erin, have three children. His interests and hobbies revolve around being outdoors with his family.

**Clinical Expertise & Research Interests:**
Orthopaedic Fractures, Injury, and Trauma

**Conditions and Surgical Specialties:**
Fractures in and around joints (periarticular fractures)
Fractures of the pelvis and hip socket
Frailty fractures

**Medical Center Moves to 24/7 Trauma Coverage**

On August 1 The Nebraska Medical Center began providing dedicated trauma coverage to Omaha and surrounding communities.

The addition of a new trauma surgeon to the department followed on the heels of the March 12 announcement from the Medical Center of this new and exciting change.

Moving to a full-time trauma program allows the Medical Center to seek Level 1 recognition with the American College of Surgeons – the national accrediting body that is the gold standard for trauma centers in the U.S.

“We are fortunate to have Dr. Siebler on our team,” said Dr. Matthew Mormino, professor of orthopaedics and an orthopaedic traumatology and lower extremity surgeon in the department. “The fact that he has previous experience practicing trauma care locally is a huge benefit.”

“Dr. Siebler is a vital addition to the department and played an integral role in our transition to 24/7 trauma coverage,” said Dr. Mormino.

**Traumatic Injury is the Number One Killer of Nebraskans Under the Age of 44, and a Leading Cause of Death in Older Citizens. In Douglas County alone, more people die from trauma-related accidents than stroke. However, research shows that treatment at a Level 1 Trauma Center reduces the risk of death by 25%.”**
NEW Sports Medicine Clinic at Oakview Medical Building

We are pleased to introduce a new Sports Medicine Clinic in West Omaha, offering access in one location to a comprehensive team of physicians and health care professionals trained in Sports Medicine.

Mark Dietrich, M.D.                                      Monty Mathews, M.D.                                      Rusty McKune, ATC

When:  Wednesday mornings from 9 a.m. to noon
Where:  Oakview Medical Building
        UNMC Physicians Family Medicine and Orthopaedics Clinic
        2727 S. 144th Street, Suite 140
        Omaha, NE

To make an appointment at our new Sports Medicine Clinic at the Oakview Medical Building, call 402-552-3522.

Sports Medicine Program

Athletes of any age, gender, skill level or activity can sustain injury ranging from sprained ankles to a more serious injury, such as a concussion.

In addition to the new Sports Medicine Clinic now being held on Wednesday mornings, our comprehensive Sports Medicine Program is always available to patients on an appointment basis.

Because no two sports-related injuries are alike, The Nebraska Medical Center’s Sports Medicine Program brings together physicians and professionals from a wide range of specialties and subspecialties, collaborating to develop a customized treatment and rehabilitation program for each patient.

Fourteen of the department’s orthopaedic surgeons participate on the sports medicine team:

Dr. Chris Cornett                                      Dr. Beau Konigsberg
Dr. Mark Dietrich                                      Dr. Sean McGarry
Dr. Miguel Daccarett透                           Dr. Matthew Mormino
Dr. Paul Esposito                                      Dr. Lori Reed
Dr. Kevin Garvin                                      Dr. Matthew Teusink
Dr. M. Layne Jenson                                   Dr. Justin Siebler
Dr. Curtis Hartman                                    Dr. Philipp Streubel

“Two principles of our program are access and expertise,” said Program Coordinator Rusty McKune, ATC. “If you are an athlete, being seen in two weeks is not acceptable. Ideally, we would like the appointment to occur within 48 hours of that initial call.”

TO MAKE AN APPOINTMENT WITH ONE OF THE SPECIALISTS IN OUR COMPREHENSIVE SPORTS MEDICINE PROGRAM, CALL: 800-922-0000
To see a full list of physicians & specialties, visit NebraskaMed.com/sports-medicine.
Faculty recognized by Castle Connolly as Top Doctors

Two UNMC orthopaedic full-time faculty have once again been recognized on this year's list of Castle Connolly’s Top Doctors.

Congratulations to **Dr. Kevin Garvin** for being named one of America’s Top Doctors 2014, an honor he has received annually since 2007. The America’s Top Doctors distinction represents the top 1% of specialties and subspecialties in the nation.

Congratulations to **Dr. Matthew Mormino** for being named a Top Regional Doctor 2014, an honor he has received annually since 2011. The Top Regional Doctors distinction represents the top 10-15% of physicians in the region.

Five orthopaedic faculty voted America’s Best Doctors

Congratulations to the following full-time orthopaedic faculty on being named Best Doctors in America 2014:

**DR. PAUL ESPOSITO (1998-2014)**
**DR. KEVIN GARVIN (1996-2014)**
**DR. BRIAN HASLEY (2007-2014)**
**DR. MATTHEW MORMINO (2005-2014)**

The Best Doctors in America distinction represents the top 3-5% of specialists in the country, including a database of over 45,000 doctors in more than 40 specialties.

Best Doctors in America was founded in 1989 by two physicians affiliated with Harvard Medical School and is today a leading resource to those seeking medical advice and information.
The Perry Initiative is a non-profit organization that inspires young women to pursue careers in orthopaedics and engineering through day-long outreach programs for high school students.

The organization, which holds over thirty outreach programs nationwide, will be holding its first outreach program in Omaha on November 15th, hosted by the UNMC Department of Orthopaedic Surgery and Rehabilitation.

This one-day, hands-on science program for young women will take place in the Sorrell Center on the UNMC Campus and is free to student participants.

Dr. Lori Reed, foot and ankle surgeon and associate professor of orthopaedic surgery, is helping to organize the event. As an orthopaedic surgeon at an academic health care facility, she feels her duty to educate extends beyond orthopaedic residents and medical students.

"There is currently a very uneven distribution of women versus men in the field of orthopaedic surgery," said Dr. Reed. "If we can reach women at a young age, and engage them by showing how exciting orthopaedic surgery can be, we will have a much better chance of bridging that gap."

The outreach program will include laboratory-based workshops designed to introduce students to surgical and engineering skills, and feature mentoring by prominent local female surgeons and biomedical engineers in the field of orthopaedics.

Forty young women from local high schools will be selected to take part in the all-day program. They will perform surgical simulations to correct scoliosis deformity, fix a broken leg, and repair knee ligaments. Throughout the day, they will learn from prominent women surgeons, engineers and business women in the field of orthopaedics.

Dr. Susan Scherl, pediatric orthopaedic surgeon and professor of orthopaedic surgery, will also be participating, along with fellow local orthopaedic surgeons Drs. Kathleen Grier and Kimberly Turman. Drs. Grier and Turman practice at GIKK Ortho Specialists and are alumni of the Nebraska Orthopaedic Surgery Residency Program.

"To be able to provide the type of real life experiences that might hopefully motivate a young woman in our community to choose a career in orthopaedics or engineering is a powerful tool," said Reed. "The Perry Initiative provides us with a unique opportunity to reach out to these young women at no cost to the students or the facility."

The Perry Initiative was founded in 2009 by Dr. Jenni Buckley (a mechanical engineer) and Dr. Lisa Lattanza (an orthopaedic surgeon), and was named in honor of Dr. Jacquelin Perry, who was one of the first ten women orthopaedic surgeons in the country and a mentor to countless women and men in the field throughout her career.

Women constitute only 12% of the academic faculty in orthopaedics and 7% of practicing orthopaedists.

— American Academy of Orthopaedic Surgeons

The program quickly expanded from 15 students at one site in 2009 to 950 students annually at 24 sites nationwide in 2013. At its current rate of expansion, the organization expects to have reached 50 sites by 2020.

The program is free for students and is supported through corporate sponsorship. Applications will be accepted until October 16, 2014, at http://perryinitiative.org/programs/student-online-application.

More information on The Perry Initiative can be found at www.perryinitiative.org.
Class of 2014 honored during annual graduation celebration

The department’s 2014 graduation presentations were held June 27-28 at the Michael F. Sorrell Center for Health Science Education. Featured guests included visiting professor Dr. Daniel Sucato of the University of Texas Southwestern Medical Center at Dallas, as well as Mr. Harold Andersen, president, chief executive and publisher of the Omaha World-Herald from 1966–1989. Mr. Andersen was the 3rd Annual Andersen Lecturer. The schedule of events was as follows:

FRIDAY, JUNE 27, 2014

SESSION I  RESIDENT PRESENTATIONS
“Mid-term Results of Percutaneous Osteotomies and Fassier-Duval Nailing in Children with Osteogenesis Imperfecta” Khalid Azzam, M.D.

“Contribution of Arginine Deiminase to Virulence in an in vivo Murine Biofilm Model” Kevin Lindgren, M.D.

“Is There a Correlation Between the Severity of Preoperative Electromyography and 3-month Postoperative Leg Pain Scores in Patients that Have Undergone a Single Level Decompression and Transforaminal Lumbar Interbody Fusion?” David Minges, M.D.

SESSION II  ALUMNI UPDATES
Brian Hasley, M.D.

SESSION III  CARTILAGE REGENERATION
Case Presentations
Residents: Todd Gaddie, M.D.; Paul Hong, M.D.

“Developmental Trajectory-based Tissue Engineering of Cartilage” Andrew Dudley, Ph.D.

“Physiochemical Mechanisms of Cartilage Growth and Morphogenesis” Sarah Romereim, B.S., graduate student

SESSION IV  GUEST SPEAKERS
“Hip Preservation in the Adolescent and Young Adult” Daniel Sucato, M.D., M.S.

FRIDAY, JUNE 27, 2014 (continued)

SESSION IV  GUEST SPEAKERS
Andersen Lectureship: “International Experience as President of the International Federation of Newspaper Publishers” Mr. Harold Andersen

SATURDAY, JUNE 28, 2014

CASE-BASED DISCUSSIONS OF THE YOUNG PATIENT WITH HIP AND SPINE DEFORMITIES

SESSION I  CHALLENGES FOR PEDIATRIC AND ADOLESCENT SPINE DISEASE
Moderator: Brian Hasley, M.D.
Panel members: Daniel Sucato, M.D., M.S.; Chris Cornett, M.D.; M. Layne Jenson, M.D.

SESSION I  ADOLESCENT AND YOUNG ADULT HIP PATHOLOGY
Moderator: Daniel Sucato, M.D., M.S.
Panel members: Mark Dietrich, M.D.; Kevin Garvin, M.D.; Curtis Hartman, M.D.; Charles Burt, M.D.

SESSION III  VISITING PROFESSOR
“Management of Complex Spinal Deformity” Daniel Sucato, M.D., M.S.

CONGRATULATIONS TO THE 2014 GRADUATES

KEVIN LINDGREN, M.D.
ADULT RECONSTRUCTION FELLOWSHIP
UNIVERSITY OF UTAH, SALT LAKE CITY, UT

KHALID AZZAM, M.D.
ADULT RECONSTRUCTION FELLOWSHIP
RUSH UNIVERSITY, CHICAGO, IL

DAVID MINGES, M.D.
SPINE FELLOWSHIP
UNIVERSITY OF PITTSBURGH, PITTSBURGH, PA
2014 ORTHOPAEDIC GRADUATION AWARDS

FRANK P. STONE, M.D., AWARD FOR ACADEMIC EXCELLENCE: KEVIN E. LINDGREN, M.D.

JOHN F. CONNOLLY, M.D., AWARD FOR OUTSTANDING RESEARCH: KHALID A. AZZAM, M.D.

AWARD FOR OUTSTANDING JUNIOR RESIDENT: COURTNEY M. GRIMSRUD, M.D.

AWARD FOR FACULTY EXCELLENCE IN TEACHING: CURTIS W. HARTMAN, M.D.

WHERE ARE THEY NOW: 10- AND 20-YEAR ALUMNI UPDATES

10-YEAR ALUMNI: CLASS OF 2004

Richard Davis, M.D.
Fellowship: sports medicine, Lake Tahoe Sports Medicine, Lake Tahoe, CA
Current practice: Riverside Orthopaedic Clinic, Fruitland, ID
Family: wife, Emily; five children

Stephen Hansen, M.D.
Fellowship: Indiana Spine Group; Indianapolis, IN
Current practice: Idaho Sports and Spine, Pocatello, ID
Family: wife, Tami; four children

Brian Hasley, M.D.
Fellowship: pediatric orthopaedics; Texas Scottish Rite Hospital for Children, Dallas, TX
Current practice: Children’s Hospital & Medical Center and Department of Orthopaedic Surgery and Rehabilitation, UNMC, Omaha, NE
Family: wife: Katie; two children

Lori Reed, M.D.
Fellowship: foot and ankle/lower extremity trauma; Florida Orthopaedic Institute, Tampa, FL
Current practice: Department of Orthopaedic Surgery and Rehabilitation, UNMC, Omaha, NE

20-YEAR ALUMNI: CLASS OF 1994

Scott Beck, M.D.
Fellowship: pediatric orthopaedics; Children’s Hospital, San Diego, CA
Current practice: Children’s Orthopaedic and Scoliosis Surgery Associates, LLP, St. Petersburg, FL
Family: wife, Kaylyn; three children

James Hill, M.D.
Fellowship: shoulder and upper extremity; California Pacific Medical Center, San Francisco, CA
Current practice: Illinois Bone and Joint Institute, LLC, Arlington Heights, IL

Scott McMullen, M.D.
Fellowship: foot and ankle; Mayo Clinic, Scottsdale, AZ
Current practice: GIKK Ortho Specialists, Omaha, NE
Family: wife, Melissa; three children

Robert Tait, M.D.
Fellowship: adult reconstruction; Brigham and Women’s Hospital an affiliate of Harvard Medical School, Boston, MA
Current practice: Orthopaedic Institute of Henderson, Henderson, NV
Family: wife Kimberly; four children

Theodore Yee, M.D.
Fellowship: adult reconstruction; Hennepin County Medical Center, Minneapolis, MN
Current practice: Kaiser Hospitals, Napa and Solano counties, Northern California, CA
Family: wife, Mary; two children
Providing a well-rounded educational experience for our residents means bringing in visiting speakers who can share their expertise on a variety of topics. Annual contributions to the department’s Development Fund allow us to continue to bring guest speakers who offer new and innovative ideas in surgical techniques, research topics and patient care.

**LISTED BELOW ARE THE VISITING SPEAKERS WHO PRESENTED IN THE DEPARTMENT OF ORTHOPAEDIC SURGERY FROM MARCH TO JUNE 2014.**

### MARCH 2014

<table>
<thead>
<tr>
<th>Date</th>
<th>Speaker</th>
<th>Institution</th>
<th>Topic</th>
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<tbody>
<tr>
<td>3</td>
<td>Dr. Kim Apker</td>
<td>Department of Radiology, UNMC</td>
<td>MRI of the Knee</td>
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<tr>
<td>24</td>
<td>Dr. Fred Durden</td>
<td>Plastic &amp; Reconstructive Surgery, UNMC</td>
<td>Soft Tissue Coverage in Hand Trauma</td>
</tr>
<tr>
<td>31</td>
<td>Dr. Paul Paulman</td>
<td>Assistant Dean for Clinical Skills and Quality, UNMC</td>
<td>Role of Simulation in Medical Education and Surgical Training</td>
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### APRIL 2014

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<th>Date</th>
<th>Speaker</th>
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<tr>
<td>3</td>
<td>Dr. Adam Reinhardt</td>
<td>Rheumatology, Children’s Hospital &amp; Medical Center, Omaha, NE</td>
<td>JIA</td>
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<td>4</td>
<td>Dr. Julie Fedderson</td>
<td>Quality/Outcomes Officer Clinical Enterprise</td>
<td>ICD-10</td>
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<tr>
<td>14</td>
<td>Dr. Nicholas Bruggeman</td>
<td>Nebraska Orthopaedic Associates, LLP, Omaha, NE</td>
<td>CMC Arthroplasty</td>
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<tr>
<td>21</td>
<td>Dr. Todd Milbrandt</td>
<td>University of Kentucky Health Center-Orthopaedics, Lexington, KY</td>
<td>Translational Research in Pediatric Orthopaedics</td>
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### MAY 2014

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<th>Date</th>
<th>Speaker</th>
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<tr>
<td>16</td>
<td>Dr. James Devney</td>
<td>Spine &amp; Musculoskeletal Medicine, Omaha, NE</td>
<td>Non-surgical Treatment Modalities for Musculoskeletal Pain (injections, nerve blocks, etc.)</td>
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### JUNE 2014 (Continued)

#### ASEAN Traveling Fellows Presentations

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<th>Date</th>
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<th>Institution</th>
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<tbody>
<tr>
<td>16</td>
<td>Dr. Chia-Liang Ang</td>
<td>“Minimally Invasive Compared with Open Lumber Laminotomy: No Functional Benefits at 60 or 24 Months after Surgery”</td>
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<tr>
<td>16</td>
<td>Dr. Hein Latt Win</td>
<td>“Chinese Experience with Metal-on-metal Hip Resurfacing”</td>
<td></td>
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<tr>
<td>14</td>
<td>Dr. Istan Irmansyah Irsan</td>
<td>“The Effect of CaC12 Added Platelet Rich Plasma to the Healing Time, Tensile Strength and Adhesion Degree of the Ruptured Tendinopathic Achilles Tendon In Vivo”</td>
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<tr>
<td>18</td>
<td>Dr. Azura Mansor</td>
<td>“Primary Bone Lymphoma: A Case Series Study”</td>
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<tbody>
<tr>
<td>27-28</td>
<td>Andrew Dudley</td>
<td>Genetics, Cell Biology and Anatomy, UNMC</td>
<td>“Developmental Trajectory-based Tissue Engineering of Cartilage”</td>
</tr>
<tr>
<td>27-28</td>
<td>Sarah Romereim</td>
<td>Genetics, Cell Biology and Anatomy, UNMC</td>
<td>“Physiochemical Mechanisms of Cartilage Growth and Morphogenesis”</td>
</tr>
<tr>
<td>27-28</td>
<td>Daniel Sucato</td>
<td>Professor, Department of Orthopaedic Surgery, University of Texas Southwestern Medical Center at Dallas</td>
<td>“Hip Preservation in the Adolescent and You” “Management of Complex Spinal Deformity”</td>
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**SAVE THE DATE!**

**2014 RESIDENT RESEARCH FORUM TO BE HELD FRIDAY, NOVEMBER 21**

The guest speaker for this year’s resident research forum will be J. Tracy Watson, M.D., Professor of Orthopaedic Surgery and Chief of the Orthopedic Trauma Service at St. Louis University School of Medicine in St. Louis, MO.

To request more information contact Susan Siebler at 402-559-4251.
Meet our new residents: Class of 2019

ERIK C. BOWMAN, M.D.
Hometown: Memphis, TN

Education:
• Medical School: University of Tennessee Health Science Center
• Undergraduate: University of Tennessee

What inspired your interest in orthopaedic surgery?
I grew up in blue-collar family full of carpenters and mechanics in which I often would help my grandparents or uncles build or repair things. Orthopaedic surgery is like a being a carpenter and mechanic of the world’s most complex machine and that fascinates me.

Three things people may not know about you:
1. I was an intramural sand volleyball champion in college.
2. I have jumped out of a perfectly good airplane several times.
3. I possibly may be the only person ever to dislocate their shoulder during a knowledge bowl match.

TODD M. GILBERT, M.D.
Hometown: Ogden, UT

Education:
• Medical School: Virginia Commonwealth University School of Medicine
• Undergraduate: Weber State University

What inspired your interest in orthopaedic surgery?
A desire to help people and work with my hands.

Three things people may not know about you:
1. I’ve been married for six years to my wonderful wife, Kayli, and we have a beautiful one-year-old daughter named Stella.
2. I ran track and cross country in college.
3. I have a goal to climb the highest mountain on all seven continents.

TYLER J. LARSON, M.D.
Hometown: Rochester, MN

Education:
• Medical School: University of North Dakota
• Undergraduate: University of Minnesota Duluth

What inspired your interest in orthopaedic surgery?
I grew up rebuilding classic cars with my dad and also started a landscaping business in high school. This gave me an appreciation for hard work and working with my hands, so ortho was a great fit.

Three things people may not know about you:
1. I spent a semester in Venezuela during undergrad.
2. I owned my own landscaping business.
3. I have twin two-year-old girls and a new yellow lab puppy.

RYAN E. MILLER, M.D.
Hometown: Fullerton, CA

Education:
• Medical School: Creighton University
• Undergraduate: University of California, Irvine

What inspired your interest in orthopaedic surgery?
My grandfather and his stories about treating orthopaedic injuries as a rural family medicine physician.

Three things people may not know about you:
1. I am married with a one-year-old son.
2. I love to barbecue.
3. I can ride a unicycle.
Publications, presentations and honors

Department faculty members present many lectures, seminars, and courses at both 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. Here are some of our faculty and staff’s presentations and publications, awards and achievements, offices held, and other professional activities from March - June 2014.

PUBLICATIONS: (Peer-reviewed)


BOOK CHAPTERS AND REVIEWS:


ONLINE EDUCATIONAL MATERIALS:


AWARDS AND ACHIEVEMENTS:


Daccarett, M.: Faculty Diversity Award: $50,000, University of Nebraska Academic Affairs, Omaha, NE, July 2012-June 2014.


Best Doctors in America

Hasley, B.: 2007-2014


Esposito, P.: 1998-2014

Garvin, K.: 1996-2014

MEMBERSHIPS AND OFFICES HELD:

COTTEN, N.: Medical Director of Physical and Occupational Therapy, The Nebraska Medical Center and Bellevue Medical Center, Omaha, NE, 2014-present.

Physician Advisory Team Committee Member, The Nebraska Medical Center, Omaha, NE, 2013-present.

Department Deputy for Orthopaedics, 2014-present.

Chairman, Pediatric Specialty Physicians, February 2012-2015.

Sideline Physician for area high school teams, 2012-present.

Surgical Services Executive Committee Member, The Nebraska Medical Center, Omaha, NE, 2011-present.

Esposito, P.: Board of Directors, Physician Director, Children’s Specialty Physicians, February 2012-2015.

Osteogenesis Imperfecta Foundation

• Medical Advisory Council, July 2011-2014

• Scientific Meeting Committee, 2010-present

One World Health Center

• Executive Committee, March 2013-March 2014

• Board of Directors, March 2008-present

Chairman, Pediatric Specialty Group, U.S. Bone and Joint Initiative, 2013-present.

Children’s Hospital & Medical Center

• Board of Directors, Advisory Board 2010-present

• Quality and Patient Safety Committee, 2008-present

• Medical Staff Committees

*Ethics Committee, Omaha, NE, Children’s Hospital, 2010-present

*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

*Surgical Services Committee, 2008-present

*Focused Peer Review Committee, 2008-2014

*Quality Safety Leadership Team, 2006-present

*Physician’s Health Committee, 2004-present

*Surgical Information Technology Committee, 2006-present

Metro Omaha Medical Society Foundation, Member, Board of Directors, 2010-present.

Review, Clinical Orthopaedics and Clinical Research, 2010-present.

Consultant Reviewer, PEDIATRICS, 2005-present.


Daccarett, M.: Faculty Diversity Award: $50,000, University of Nebraska Academic Affairs, Omaha, NE, July 2012-June 2014.


Best Doctors in America

Hasley, B.: 2007-2014


Esposito, P.: 1998-2014

Garvin, K.: 1996-2014

MEMBERSHIPS AND OFFICES HELD:

COTTEN, N.: Medical Director of Physical and Occupational Therapy, The Nebraska Medical Center and Bellevue Medical Center, Omaha, NE, 2014-present.

Physician Advisory Team Committee Member, The Nebraska Medical Center, Omaha, NE, 2013-present.

Department Deputy for Orthopaedics, OneChart, 2013-present.

Daccarett, M.: Trauma Committee Member, UNMC, Omaha, NE, 2008-present.


Review Panel Member, Orthopaedics, 2013-present.


Member, Board of Directors (2nd term), Omaha Sports Commission, January 2011-December 2014.

American Orthopaedic Association

• Member, Membership Committee, June 2010-June 2014

• Chair, Membership Committee, March 2014-March 2015

• Member, Executive Committee, March 2014-March 2015

UNMC Physicians

• Finance Committee, 2012-present

• Executive Board, 2000-present

Member, Board of Trustees, University of South Dakota Foundation, 2006-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.


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 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 Orthopaedics, June 2010-present.

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

Konigsberg, B.: ONE-Team (TNMC/UNMC/UNMC-P) • Member, Ambulatory Clinic Implementation Workgroup, February 2014-present • Member, Performance Improvement Steering Committee, March 2014-June 2014 • Member, Physician Engagement Group, July 2013-June 2014 • Member, Future Care Delivery Committee, July 2013-June 2014 • Member, Physician Compensation Committee, July 2013-June 2014 UNMC College of Medicine • 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 • Member, Medical Student Admissions Committee, June 2011-December 2014 • Course Director, UNMC Orthopaedic Surgery Grand Rounds, October 2010-present • Instructor, M1, M2 ICE Course, August 2010-present • Instructor, 2nd Year Medical Students, August 2009-present Consultant Reviewer, Orthopaedics, September 2013-present Consultant, TRAK Surgical/UniMed, August 2013-June 2014 • 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 2013-2017 • Continuing Education Committee, Member, October 2012-present • Tissue Bank Review Committee, Member, 2006-present Musculoskeletal Transplant Foundation (MTF) • Memberships/Nominations Committee Member, February 2012-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. National Comprehensive Cancer Network (NCCN) • Soft Tissue Sarcoma Panel, July 2007-present • Bone Cancer Panel, May 2006-present.

Hartman, C.: • Member, Membership Committee, Metro Omaha Medical Society, April 2012-present. Orthopaedic Basic Science Subcommittee, American Academy of Orthopaedic Surgeons, February 2012-March 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, 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.
Clinical Trial Smith & Nephew. February 18, 2011-February 18, 2016, Pt. Hartman, C (PI); Konigsberg, K (CI), Clinical Trial.


Esposito, P.: Tiny Bones Program, Wm. Foundation, December 2010-present.


PATENTS:


PRESENTATIONS, INTERNATIONAL AND NATIONAL:


Scherl, S.: Pediatric Trauma: Case Based Learning During Transport. Omaha Fire Department Paramedics, Omaha, NE, May 8, 2014.


• Femoral Component Coatings—A Solution for Allergic Patients?
• (Moderator) Triology of TKA Symposium. Category: General Topics/Implants and Biomaterials


• Orthopaedic Aspects of Child Abuse
• Common Lower Extremity Problems in Children
• Musculoskeletal Disorders and Childhood Obesity
• Pediatric Orthopaedic Trauma


• Supracondylar Humerus Fractures: Can I Fix These and Stay Out of Trouble?
• Pediatric Tibial Fractures
• Pediatric Case Presentation


• Highly Cross-linked Polyethylene
• Preventing Hospital Readmissions and Limiting the Complications Associated with THA
• Freehand Navigation in Total Knee Arthroplasty
• Prosthetic Joint Infection


• Presenter) Upper Extremity Surgical Treatment in Children with Osteogenesis Imperfecta
• (Moderator) Session 5: Surgical Treatments Axial Skeleton


• ICL 153: Challenges in the Management of Fractures in Adolescents: A Case Based Approach (moderator)
• ICL 307: Problems and Procedures in Pediatric Trauma: Case Based Learning (presenter)


• Complex Cases, ICL 334: Complex Primary Total Hip Arthroplasty: A Case Based Approach (presenter)
• (Presenter) Prevention and Management of Infection and Wound Complications, ICL 441: Preventing Hospital Readmissions and Limiting the Complications Associated with Total Hip Arthroplasty (moderator)
• (Presenter) The Anteversion is not What I Expected, AAOS Symposium: How Do I Get Out of this Jam? Dealing with Intraoperative and Early Postoperative Challenges in Primary THA
• (Presenter) Optimizing Wound Management to Prevent and Treat Infection, Symposium III, Hip Society Specialty Day
• (Presenter) Extensive Posterior Approach for All Revisions. AAOS Symposium: Hot Topics and Controversies in Revision Total Hip Arthroplasty


Continuing education and Grand Rounds

The following continuing education seminars and Grand Rounds presentations by department faculty, current residents and guest speakers are open to any interested participants. Please call the department at (402) 559-4533 to check on possible updates to this schedule. Orthopaedic Grand Rounds are held Mondays at 6:30 a.m. in Room 1005 of the Sorrell Center.

AUGUST 2014
4  “Revision ACL Reconstruction” (Greg Dammann, M.D., HO V)
11 “Elbow Arthroscopy” (Todd Gaddie, M.D., HO V)
18 “Pilon Fractures” (Lori Reed, M.D.)
25 “TBD” (Brent Hood, M.D., HO V)

SEPTEMBER 2014
1   No Grand Rounds – Holiday
8   “TBD” (Mark Dietrich, M.D.)
15  “TBD” (Justin Siebler, M.D.)
22  “TBD” (Andrew Taiber, M.D., HO V)
29  “MRI of the Ankle” (Kimberly Apker, M.D., Department of Radiology, UNMC)

OCTOBER 2014
6   “Morbidity and Mortality Summer Quarter”
13  “The Cavovarus Foot” (Kaitlin Neary, M.D., HO IV)
20  No Grand Rounds
27  “Central Cord Syndrome” (Scott Vincent, M.D., HO IV)
IN THIS ISSUE

ENTERPRISE, ORTHOPAEDICS JOIN AMERICAN JOINT REPLACEMENT REGISTRY......PAGE 1
Department is the first in Nebraska to contribute data to the registry, with the goal of tracking implant performance trends more quickly, thus enhancing patient safety.

DR. JUSTIN SIEBLER, TRAUMA SURGEON, JOINS DEPARTMENT FACULTY.............PAGE 4
Dr. Justin Siebler is a vital addition to our trauma team and played an integral role in the department’s recent transition to providing 24/7 trauma coverage.

THE PERRY INITIATIVE COMES TO OMAHA FOR THE FIRST TIME NOVEMBER 15......PAGE 7
Dr. Lori Reed is organizing the Perry Initiative’s first outreach program to come to Omaha; a non-profit that aims to inspire young women to pursue careers in orthopaedics and engineering.
BACKGROUND
Shoulder arthritis is a disabling condition in which the cartilage on the end of the humerus (ball) and the glenoid (socket) wears out. This leads to pain and restricted range of motion in patients who are affected.

Shoulder replacement surgery for arthritis was first described by Dr. Charles Neer in 1974. Dr. Neer described surgical replacement of the humeral head with a metallic prosthesis inserted into the humerus. Although patients had improved pain and function following this procedure, many patients continued to have pain secondary to the progression of arthritic changes on the glenoid (socket).

As a result, total shoulder arthroplasty was developed in order to diminish pain from the glenoid. In addition to replacing the humeral head, the glenoid was also resurfaced with a polyethylene implant, which was typically fixed into the glenoid with cement. As longer-term studies became available, it became apparent that the major long-term problem with total shoulder arthroplasty was wear and loosening of the glenoid component. As a result, many surgeons reserved resurfacing of the glenoid for older, less active patients.

Although many patients have excellent long-term results with humeral head replacement for shoulder osteoarthritis without the risk of glenoid component loosening, glenoid erosion and rotator cuff failure continue to be long-term failure mechanisms. In patients with isolated glenoid erosion and pain, revision to a total shoulder replacement with glenoid resurfacing may be possible.

A more difficult problem is when the rotator cuff also tears. The function of the rotator cuff is to center and stabilize the humeral head in the glenoid to allow the deltoid to efficiently elevate the arm. When the rotator cuff fails, the humeral head escapes from the glenoid due to the pull of the deltoid until it contacts the acromion above. This typically results in poor function and pain in the shoulder.

Historically, treatment options for revision shoulder replacement for rotator cuff failure were limited. In 2004, the FDA approved reverse shoulder replacement for the treatment of shoulder arthritis and rotator cuff tears.

Reverse shoulder replacement "reverses" the normal ball and socket relationship of the shoulder. A metal baseplate with screws is secured to the socket. A metal ball is then attached to the metal baseplate, turning the socket into a ball. The humeral head is then replaced with a metal stem that has a socket on it. This reversed configuration provides a more constrained design, which improves stability of the shoulder joint, allowing the deltoid muscle to work efficiently and elevate the arm. It also has the advantage in the revision setting of improved fixation to the glenoid with screws, compared to anatomic total shoulder arthroplasty, which requires adequate glenoid bone stock and fixation with cement.

Studies have shown promising short- and mid-term results utilizing reverse shoulder replacement for revision of shoulder arthroplasty. Frankle showed, at a minimum two-year follow-up, improvement in forward elevation from 50° to 130° and 91% satisfaction.2

The following case is an example of a long-term failure of a shoulder hemiarthroplasty, secondary to rotator cuff failure with severe glenoid wear, treated with reverse shoulder arthroplasty with glenoid bone grafting.

CASE EXAMPLE
The patient is a 74-year-old right hand dominant gentleman who underwent a right shoulder hemiarthroplasty in 1989 at the Mayo Clinic for right shoulder osteoarthritis. He did very well for many years and was able to finish his work career without any pain or dysfunction of his shoulder.

He slipped on the ice and fell on his right shoulder eight months prior to presentation to my clinic. Since that time he had noted increasing right shoulder pain and very limited function. He had difficulty with activities of daily living due to his shoulder pain and dysfunction. His

(continued on back)
exam revealed no swelling. He had severely restricted range of motion with 30° of forward elevation, 20° of abduction, 20° of external rotation at the side, and internal rotation to his greater trochanter.

Radiographs of his right shoulder revealed a hemiarthroplasty in place with no evidence of loosening. The humeral head was articulating with the acromion consistent with rotator cuff failure and there was also significant glenoid wear. (Figure A,B)

Given his pain and limited function in the setting of his failed hemiarthroplasty secondary to rotator cuff failure, he was therefore indicated for revision to a reverse shoulder arthroplasty with glenoid bone grafting. (Figure C)

He did well postoperatively and was discharged home. He remained in a sling immobilizer for six weeks postoperatively during which time he was allowed to do small pendulum exercises with his right shoulder and elbow, wrist and hand range of motion at the side. At six weeks his sling was discontinued and he was instructed to begin using his right shoulder for activities of daily living with no lifting more than two to three pounds. He was also instructed on a home stretching program. No formal physical therapy was prescribed.

He has continued to do well at three and six months postoperatively. He has no pain in his shoulder and is very pleased with his functional outcome. He has forward elevation of 140°, abduction of 120°, external rotation at the side of 40°, and internal rotation to L5. He is able to do all of his usual daily activities with minimal discomfort or difficulty. (Figure D,E,F)

References: