The residency program at the University of Minnesota Department of Orthopaedic Surgery provides a comprehensive educational experience in the management of diseases and injuries of the musculoskeletal system for the physician seeking accreditation as an orthopaedic surgeon. The goal of this program is to train ethical, competent orthopaedic surgeons as leaders with a commitment to life-long learning, and advancing our profession with service to all people.
Welcome to the University of Minnesota Medical School Department of Orthopaedic Surgery Residency Program

Thank you for taking the time to review this booklet summarizing the educational offerings within the University of Minnesota Department of Orthopaedic Surgery Residency Program. Our residency program is truly outstanding. Our department has a long tradition of prioritizing education through teaching, superb patient care, and commitment to advancing orthopaedics through innovation and research.

The strengths of our program lie in our absolute commitment to resident education, as well as in the talent and energy of our faculty. Across the six institutions which you will rotate at, you will be exposed to faculty who are exceptional individuals and distinguished physicians. They will teach and guide you in acquiring the knowledge necessary to become an outstanding, ethical and compassionate orthopaedic surgeon. Many of our 66 faculty members have national academic reputations. They have a steadfast commitment to education, patient care, scholarly activity, and innovation.

Our residency program is highly competitive and will provide you with the opportunities to excel in the career path of your choice. Our goal is to make sure our graduates are superbly prepared to practice as general orthopedists, compete for orthopaedic subspecialty fellowships, and/or excel at careers in academic orthopaedics.

Denis R. Clohisy, MD
Professor and Chair, Department of Orthopaedic Surgery
Endowed Chair, Roby C. Thompson Endowment in Musculoskeletal Oncology
University of Minnesota

Thank you for your interest in the University of Minnesota Orthopaedic Surgery Residency Program. Our program has eight positions available for each class. Each resident works at six participating medical centers in the Twin Cities, offering one of the broadest, most comprehensive, and top-rated orthopaedic surgery training programs in this country. Your education will include:

• Training with national leaders in traumatology at two Level I trauma centers, Hennepin County Medical Center and Regions Hospital.
• Instruction from board certified, pediatric specialists and subspecialists at Gillette Children’s Specialty Care, a renowned center for care of children with disabilities.
• Hands-on experience at the VA Medical Center—Twin Cities which performs more joint arthroplasties than any other VA in the country.
• Instruction at our flagship University of Minnesota Medical Center with over 20 subspecialists who are academic leaders in their specialty fields and care for complex and challenging orthopaedic patients.
• Training with our sports medicine doctors who care for recreational, high school, college, and professional athletes at TRIA Orthopaedic Center, our state-of-the-art outpatient orthopaedic facility.

We look forward to your application to the University of Minnesota Medical School, Department of Orthopaedic Surgery Residency Program. We are a nationally recognized and highly competitive program which will provide an education that is an excellent basis for your career as an orthopaedic leader in general orthopedics, an orthopaedic subspecialty, or in academic orthopaedics.

Ann Van Heest, MD
Residency Program Director
Professor and Vice Chair of Education
Department of Orthopaedic Surgery
University of Minnesota
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Program Highlights

- Embraces the Twin Cities metro area, providing training at six key institutions.
- Work with a faculty of more than 60 regionally and nationally distinguished orthopaedic surgeons.
- Supportive environment that embraces diversity.
- Leadership that values the contributions of women in academics, leadership, and clinical practice. Nationally, 14 percent of orthopaedic surgery residents are female, while our program has graduated 25 percent females over the last 10 years.
- Training at the University of Minnesota Medical Center, with exposure to over 20 subspecialists who are academic leaders in their specialty fields and care for complex and challenging cases.
- Robust research opportunities that allow residents to complete at least one original research project during residency training in conjunction with mentorship and support from our professional research staff.
- Opportunities to collaborate with researchers in multiple specialties, including engineering and veterinary science.
- Access to resources and facilities including the Orthopaedic Biomechanics Laboratory, the Musculoskeletal Research Training Program, Masonic Cancer Center, Department of Biomedical Engineering, Excelen Center for Bone & Joint Research and Education, Center for Gait Motion and Analysis, and TRIA Orthopaedic Center.
CAREER ROTATION
Senior residents are given the opportunity to balance clinical practice and senior leadership roles while observing high level leadership in the hospital system. They will have a chance to discuss the hospital revenue cycle (i.e. billing, coding, service) and patient care pathway models, and are provided exposure to phases of project execution including collaboration, delegation, and oversight. During this time, our residents develop keen listening skills, which promotes independence of direct reports and encourages all to work to the top of their skill level and capacity.

RESIDENTS AS TEACHERS PROGRAM
The Residents as Teachers (RaT) Program is designed to provide basic preparation in teaching methods for all levels of orthopaedic surgery residents. All orthopaedic surgery residents are expected to demonstrate competency in teaching, as they will be teaching their peer residents and near peers, medical students, patients, and members of our inter-professional healthcare team. The curriculum has been developed and is reviewed by the department’s resident research director and education manager. Resident volunteers from each resident class will teach the 90 minute core curriculum lessons, which are hands-on, interactive sessions that teach two practical skills.

LONGITUDINAL RESEARCH CURRICULUM
Residents participate longitudinally through program and department-sponsored research activities as a way to develop life-long skills. Activities include dedicated research time allowed through the PGY-1 through -3 years, with a minimum of one required research manuscript submission by June 1 of the PGY-5 year. Residents are encouraged to complete at least one research project by the end of their PGY-3 year to position themselves competitively for fellowship applications.

RAMON GUSTILO RESEARCH SOCIETY
The Ramon Gustilo Research Society is dedicated to the promotion and support of resident research and sponsors two awards each year. The recipients of the Ramon Gustilo Award for the best senior resident research paper and best resident effort become members of the Gustilo Society. The Gustilo Society meets annually as part of the alumni day at the time of resident graduation. Dr. Gustilo has been a pillar of the University of Minnesota faculty through his work at Hennepin County Medical Center. He is an internationally renowned orthopaedic surgeon famous for his research in trauma and joint replacement.

INTERNATIONAL TRAVEL STUDY
The Department of Orthopaedic Surgery has a Minnesota Medical Foundation Scholarship for International Travel. The award is based on resident performance and compatibility with the available travel programs. Residents have traveled to Ecuador, Kenya, Nepal, and Peru utilizing this scholarship. This is an exciting opportunity available through the residency program, as it grants a pathway to provide patient care those with limited access while developing skills in compassion, empathy, and professionalism.
Who are our residents?

At the University of Minnesota Department of Orthopaedic Surgery, we value diversity, inclusion, and progressive leadership to drive better patient outcomes.

**Class of 2022**
7 men • 2 women
4 - University of Minnesota Medical School
1 - New York University School of Medicine
1 - Southern Illinois University School of Medicine
1 - University of Michigan Medical School
1 - University of Texas Medical Branch School of Medicine

**Class of 2021**
7 men • 1 women
3 - University of Minnesota Medical School
1 - University of North Dakota School of Medicine
2 - Stritch School of Medicine, Loyola University of Chicago
1 - Penn State University College of Medicine
1 - Georgetown University School of Medicine

**Class of 2020**
3 men • 5 women
3 - University of Minnesota Medical School
1 - Case Western Reserve University School of Medicine
1 - Eastern Virginia Medical School
1 - University of Michigan Medical School
1 - University of Washington School of Medicine
1 - Yale University School of Medicine

**CLASS OF 2019**
5 men • 2 women
2 - University of Minnesota Medical School
2 - Creighton University School of Medicine
1 - Mount Sinai School of Medicine
1 - Ohio State University College of Medicine
1 - University of Iowa Carver College of Medicine
1 - University of New Mexico School of Medicine

**Class of 2018**
7 men • 1 woman
3 - University of Minnesota Medical School
1 - University of Colorado School of Medicine
1 - University of Colorado School of Medicine
1 - University of Virginia School of Medicine
2 - University of Iowa Carver College of Medicine
1 - Dartmouth Medical School

Nationally, 14 percent of orthopaedic surgery residents are female, the lowest of any surgical subspecialty. Our program has graduated 25 percent females over the last 10 years.
### Where do our residents go?

<table>
<thead>
<tr>
<th>Fellowship Type</th>
<th>Percentage</th>
<th>Institutions</th>
</tr>
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<tbody>
<tr>
<td>Have been accepted in a Hand Surgery Fellowship</td>
<td>18%</td>
<td>- Baylor College of Medicine, TX</td>
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<td>- HealthPartners Institute for Medical Education, MN</td>
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<td></td>
<td></td>
<td>- Oregon Health &amp; Science University, OR</td>
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<td>- University of Iowa, IA</td>
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<td>- University of New Mexico, NM</td>
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<tr>
<td>Have been accepted in a Sports Medicine Fellowship</td>
<td>16%</td>
<td>- Santa Monica Orthopaedic and Sports Medicine Group, CA</td>
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<td>- Steadman Hawkins Clinic, CO</td>
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<td>- University of Pittsburgh, PA</td>
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<td>- TRIA Orthopaedic Center, MN</td>
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<td></td>
<td></td>
<td>- University of Colorado, CO</td>
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<td></td>
<td>- University of Utah-Salt Lake City, UT</td>
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<tr>
<td></td>
<td></td>
<td>- University of Wisconsin-Madison, WI</td>
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<tr>
<td>Have been accepted in an Adult Reconstruction Fellowship</td>
<td>11%</td>
<td>- Flinders Medical Center, Australia</td>
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<td>- Joint Replacement Institute-Los Angeles, CA</td>
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<td></td>
<td>- New York Langone Medical Center, NY</td>
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<td></td>
<td></td>
<td>- University of Utah, Salt Lake City, UT</td>
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<td></td>
<td></td>
<td>- Washington University-Saint Louis, MO</td>
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<tr>
<td></td>
<td></td>
<td>- Arthroplasty Fellowship at University of California-San Francisco</td>
</tr>
<tr>
<td>Have gone directly into private practice</td>
<td>18%</td>
<td>- Dallas, TX</td>
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<tr>
<td></td>
<td></td>
<td>- Detroit, MI</td>
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<td>- Minneapolis, MN</td>
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<td>- Stillwater, MN</td>
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<td>- Red Wing, MN</td>
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<td>- Dubuque, IA</td>
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<td>- New Ulm, MN</td>
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<td></td>
<td>- Bemidji, MN</td>
</tr>
<tr>
<td>Have been accepted in a Trauma Fellowship</td>
<td>13%</td>
<td>- Hennepin County Medical Center, MN</td>
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<tr>
<td></td>
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<td>- Sonoran Orthopaedic Trauma Surgeons-, Scottsdale, AZ</td>
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<td>- Stanford University, CA</td>
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<tr>
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<td></td>
<td>- University of California-San Francisco</td>
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<tr>
<td>Have been accepted in a Pediatric Orthopaedic Fellowship</td>
<td>5%</td>
<td>- Children’s Healthcare of Atlanta</td>
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<td>- Scottish Rite, GA</td>
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<td></td>
<td></td>
<td>- Lucile Packard’s Children’s Hospital, Stanford, CA</td>
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<tr>
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<td></td>
<td>- University of California, Davis School of Medicine and Shriners Hospitals for Children, Sacramento, CA</td>
</tr>
<tr>
<td>Have been accepted in a Shoulder and Elbow Fellowship</td>
<td>7%</td>
<td>- Mount Sinai School of Medicine, NY</td>
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<tr>
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<td></td>
<td>- Penn Presbyterian Medical Center, PA</td>
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<td>- Shoulder and Upper Extremity Fellowship at the Center for Shoulder, Elbow, and Sports Medicine at Columbia University Medical Center, NY</td>
</tr>
<tr>
<td>Have been accepted in a Spine Fellowship</td>
<td>5%</td>
<td>- Norton Leatherman Spine Center-Louisville, KY</td>
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<td></td>
<td>- Orthopaedic Associates of Michigan</td>
</tr>
<tr>
<td>Have been accepted in a Foot and Ankle Fellowship</td>
<td>5%</td>
<td>- University of Alabama-Birmingham, AL</td>
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<tr>
<td></td>
<td></td>
<td>- University of Colorado, Denver, CO</td>
</tr>
<tr>
<td>Have been accepted into Military Service</td>
<td>2%</td>
<td>- US Air Force</td>
</tr>
</tbody>
</table>
1.) The University of Minnesota pays trainees as stated in the Residency/Fellowship Agreement and the program's policy manual, which you will receive upon acceptance into the program. You will be compensated biweekly, and residents are encouraged to enroll in direct deposit.

2.) Residents are eligible to enroll in the University of Minnesota’s comprehensive and competitive medical insurance program. The University’s Office of Student Health Benefits coordinates benefits and enrollment for health, dental, disability, and life insurance. Open enrollment for medical and dental plans is from May 1st-June 15th.

3.) All PGY years 1-5 are allocated 15 days of personal time off per year. For a comprehensive explanation of PTO benefits and conditions, refer to the department’s policy manual.

4.) Residents receive an annual stipend of $1,000 from the department’s book and education fund, which can be used for travel, resident development, courses, and fees.

5.) The department provides an iPad to each resident to ensure convenient, consistent communication during rotations.

6.) The department provides each resident with a pair of surgical loupes used in the operating room.
Orthopaedic physicians at the University of Minnesota continually seek better ways to perform their work and improve patients' lives. In collaboration with preeminent scientists and researchers, they use cutting-edge technology to promote disease prevention and uncover life-changing treatments. If there is a better way, our orthopaedic surgeons will find it.

Discoveries by U of M orthopaedic surgeons:

**Imaging**
Our major breakthrough in assessing cartilage quality earlier and evaluating joint health throughout the patient's life helps prevent arthritis.

**Veterinary Science**
Our discovery of the similarity between porcine and human cartilage has improved injury prognosis and treatment and helps prevent disease.

**Medical Devices**
Our use of 3-D modeling and virtual reality helps our doctors plan complex surgeries and enhances surgical skill assessment in education.

**Genomics**
Our collaborations with the U's Supercomputing Institute to analyze vast amounts of genetic data advance the prevention and treatment of numerous diseases.

**Biomechanics**
Our use of novel biomaterials leads to better treatments and improves the durability of orthopaedic devices.

**Stem Cell**
Our use of the body's own cells to repair and renew diseased tissues accelerates the healing process.
Laboratory & Research Centers

ORTHOPAEDIC BIOMECHANICS LABORATORY
- Examines musculoskeletal biology and disease
- Mechanisms of musculoskeletal disease in animal models
- Outcomes-based research of standard clinical treatments

MUSCULOSKELETAL RESEARCH TRAINING PROGRAM
- Shoulder in vivo biomechanics
- Understanding spinal biomechanics
- Improved techniques in trauma fixation of fractures

MASONIC CANCER CENTER
- Tumor biology and progression research
- Development of clinician scientists
- Study of mechanism driving bone cancer pain
- Development of experimental models of bone cancer

COLLEGE OF SCIENCE AND ENGINEERING-DEPARTMENT OF BIOMEDICAL ENGINEERING
- Biomechanics of osteoarthritis, fracture stabilization, and joint replacement
- Musculoskeletal biomechanics, orthopaedic engineering
- Musculoskeletal injury and rehabilitation
- Gait analysis
- Spinal mechanics, pediatric neck injury care, therapeutic strategies for low back pain resolution

EXCELEN
- Excelen is a private, non-profit, and independent research and education organization that specializes in orthopaedic research
- Orthopaedic trauma, total joint replacement, orthopaedic infections, spine
- Discovery of novel bone cancer therapies

TRIA ORTHOPAEDIC CENTER
- BioSkills Lab, a 2,400 square foot simulated operating room environment with staging and processing areas, designed to meet the need for a cutting edge training facility for surgeons, physicians, and healthcare professionals.
- Outcome studies that collect and measure patient outcomes in order to improve patient care

GILLETTE CHILDREN'S SPECIALTY HEALTHCARE
- Busiest clinical center for motion analysis in the nation, over 500 tests are performed each year
- Biomechanics research including planar pressure testing
- Diagnosis and treatment planning
- Treatment outcomes

CENTER FOR MAGNETIC RESONANCE RESEARCH
- Focuses on development of unique magnetic resonance imaging and spectroscopy methodologies and instrumentation for the acquisition of structural, functional, and biomechanical information non-invasively in humans, and utilizes this capability to investigate organ function in health and disease.
Department Chair:
Denis Clohisy

Department Vice Chair:
Elizabeth Arendt, MD

Education Site Director:
Christian Ogilvie, MD

Faculty Appointments:
Joan Bechtold, PhD
Jonathan Braman, MD
Edward Cheng, MD
Aaron Corfield, DPM
Mark Dahl, MD
Michael Forseth, MD
Alicia Harrison, MD
Patrick Horst, MD
Jeffrey Macalena, MD
Christopher Martin, MD
Patrick Morgan, MD
Bradley Nelson, MD
Christian Ogilvie, MD
Fernando Peña, MD
David W Polly Jr., MD
Joseph Schuster, DPM
Jonathan Sembrano, MD
Marc Tompkins, MD
Ann Van Heest, MD
Ariel Williams, MD

Elizabeth Arendt, MD
Department Vice Chair
• University of Rochester, NY, BA, MD
• University of Rochester, General Surgery Residency, NY
• University of Minnesota, Sports Medicine Fellowship, MN

Joan Bechtold, PhD
Vice Chair of Research
• University of Minnesota, MS in Mechanical Engineering, MN
• University of Minnesota, PhD in Mechanical Engineering, MN

Jonathan Braman, MD
• University of Washington School of Medicine, WA, MD
• University of Washington Affiliated Hospitals, Orthopaedic Surgery Residency, WA
• Mt. Sinai Hospital, Shoulder Surgery Fellowship, NY
University of Minnesota Medical Center, Fairview

Edward Cheng, MD
• Northwestern University Medical School, IL, MD
• Harvard Combined Orthopaedic Surgery Residency Program, MA
• Massachusetts General Hospital, Orthopaedic Oncology Research Fellowship, MA

Denis Clohisy, MD
Department Chair
• Northwestern University Medical School, IL, MD
• University of Minnesota, Orthopaedic Surgery Residency, MN
• Washington University, Postdoctoral Research Fellow, MO
• Massachusetts General Hospital, Pathology Fellowship, MA
• Harvard Medical School, Musculoskeletal Oncology Fellowship, MA

Alicia Harrison, MD
• University of Kansas School of Medicine, KS, MD
• University of Minnesota Medical School, Orthopaedic Surgery Residency, MN
• Mount Sinai School of Medicine, Shoulder and Elbow Surgery Fellowship, NY

Aaron Corfield, DPM
• Temple University of Podiatric Medicine, PA
• Roxborough Memorial Hospital, PA

Mark Dahl, MD
• Mayo Medical School, MN, MD
• University of Minnesota Medical School/VA Affiliated Residency, MN

Michael Forseth, MD
• University of South Dakota School of Medicine, SD, MD
• Loyola University, Orthopaedic Surgery Residency, IL
• University of Cincinnati, Hand and Upper Extremity Surgery Fellowship, OH

Edward Cheng, MD
• Northwestern University Medical School, IL, MD
• Harvard Combined Orthopaedic Surgery Residency Program, MA
• Massachusetts General Hospital, Orthopaedic Oncology Research Fellowship, MA

Denis Clohisy, MD
Department Chair
• Northwestern University Medical School, IL, MD
• University of Minnesota, Orthopaedic Surgery Residency, MN
• Washington University, Postdoctoral Research Fellow, MO
• Massachusetts General Hospital, Pathology Fellowship, MA
• Harvard Medical School, Musculoskeletal Oncology Fellowship, MA

Alicia Harrison, MD
• University of Kansas School of Medicine, KS, MD
• University of Minnesota Medical School, Orthopaedic Surgery Residency, MN
• Mount Sinai School of Medicine, Shoulder and Elbow Surgery Fellowship, NY

Aaron Corfield, DPM
• Temple University of Podiatric Medicine, PA
• Roxborough Memorial Hospital, PA

Mark Dahl, MD
• Mayo Medical School, MN, MD
• University of Minnesota Medical School/VA Affiliated Residency, MN

Michael Forseth, MD
• University of South Dakota School of Medicine, SD, MD
• Loyola University, Orthopaedic Surgery Residency, IL
• University of Cincinnati, Hand and Upper Extremity Surgery Fellowship, OH
Patrick Horst, MD
- University of Minnesota Medical School, MN, MD
- University of California, Orthopaedic Surgery Residency, CA
- Stanford University School of Medicine, Adult Reconstruction Fellowship, CA

Jeffrey Macalena, MD
- Creighton University School of Medicine, NE, MD
- University of Minnesota, Department of Orthopaedic Surgery Residency, MN
- University of Pittsburgh, Orthopaedic Surgery Sports Medicine Fellowship, PA

Christopher Martin, MD
- Johns Hopkins University School of Medicine, MD, MD
- University of Iowa, Orthopaedic Surgery Residency, IA
- Emory University, Spine Fellowship, GA

Patrick Morgan, MD
- University of Minnesota Medical School, MN, MD
- University of Minnesota, Department of Orthopaedic Surgery Residency, MN
- Washington University School of Medicine, Joint Preservation, Resurfacing, and Replacement Fellowship, WA

Bradley Nelson, MD
- University of Minnesota Medical School, MN, MD
- University of Colorado, Orthopaedic Surgery Residency, CO
- Keller Army Community Hospital, John A. Feagin Sports Medicine Fellowship, NY

Christian Ogilvie, MD
Education Site Director
- University of Minnesota Medical School, MN, MD
- University of California San Francisco, Orthopaedic Surgery Residency, CA
- University of Toronto, Mount Sinai Hospital, Musculoskeletal Tumor Surgery Fellowship, Canada
The University of Minnesota Medical Center / MHealth (UMMC) offers specialty service rotations in spine, sports, tumor, foot and ankle, hand, and joint restoration. This is the flagship hospital for the residency program and is the site for weekly program-wide grand rounds and core curriculum lectures. PGY1, 4 & 5 residents rotate at this site.
The residents and staff form a tight knit community and carry on the legacy of Minnesota orthopaedics every day. Each rotation hits the perfect balance of professionalism and fun. Our early foundation in joint reconstruction and trauma is also spattered with subspecialties like hand, sports, foot, and ankle. Really I see this program as a five year fellowship in general orthopaedics, with the resources and training to launch us into any high powered subspecialty.

-PGY-5
Veterans Affairs Medical Center

Orthopaedics Chief and Education Site Director:
V. Franklin Sechriest II, MD

Associate Orthopaedics Chief and Education Site Director:
Patrick Yoon, MD

Faculty Appointments:
Caitlin Chambers, MD
Jeffrey Luna, MD

Other Faculty:
Adam Bakker, MD
Brian Bjerke, MD
Abigail Hamilton, MD
Jason Holm, MD
Allan Hunt, MD
Thomas Lange, MD
Randall Lewis, MD
Daniel Marek, MD
Charles H. Moser, MD
Loren Vorlicky, MD

Caitlin Chambers, MD
• Wayne State University School of Medicine, MI, MD
• Northwestern Memorial Hospital, Orthopaedic Surgery Residency, IL
• University of California-San Francisco, Orthopaedic Surgery Sports Medicine Fellowship, CA

Jeffrey Luna, MD
• University of Santo Tomas, College of Medicine and Surgery, Manila, Philippines, MD
• University of the Philippines, Department of Orthopedics Residency
• University of Minnesota, Department of Orthopaedic Surgery, Adult Joint Reconstruction Fellowship, MN

V. Franklin Sechriest II, MD
Orthopaedics Chief and Education Site Director
• University of Alabama School of Medicine, AL, MD
• University of Minnesota, Department of Orthopaedic Surgery Residency, MN
• Insall Scott Kelly Institute for Orthopaedics and Sports Medicine, NY
The Veterans Affairs Medical Center is the primary location for the adult reconstruction rotations. The Minneapolis VA Medical Center does more total joints than any other VA in the country. This provides a well supervised experience for residents to learn primary and revision total joint arthroplasties and general adult orthopaedics. PGY-1, 3, and 5 residents rotate at this site.

I’ve really enjoyed my recent trauma rotation. I’ve had the chance to do my own cases, yet feel appropriately supervised at all times. The residents’ significant others have been able to really form a support community for each other and have a lot of chances to get to know each other well.

-PGY-3
Orthopaedics Chief:
Andrew Schmidt, MD

Education Site Director:
Thomas Varecka, MD

Faculty Appointments:
Jessica Downes, MD
Jacqueline Geissler, MD
Richard F. Kyle, MD
David Templeman, MD
Emily Wagstrom, MD

Other Faculty:
Nancy Luger, MD
Gudrun Mirick, MD
Richard C. Reut, DO

Jessica Downes, MD
• Creighton School of Medicine, NE, MD
• University of Minnesota, Department of Orthopaedic Surgery Residency, MN
• University of Alabama, Foot and Ankle Surgery Fellowship, AL

Jacqueline Geissler, MD
• University of Wisconsin School of Medicine and Public Health, WI, MD
• University of Minnesota, Department of Orthopaedic Surgery Residency, MN
• University of Southern California, Joseph H. Boyes Hand Fellowship, CA

Richard Kyle, MD
• Loyola University School of Medicine, IL, MD
• Veterans Administration, Orthopaedic Residency, MN
• Hospital for Special Surgery, Biomechanics Fellowship, NY
The program’s trauma rotations take place at Hennepin County Medical Center. It is a level 1 trauma center with a faculty of nationally distinguished traumatologists. A wide range of multi-system trauma is treated with over 2,500 operative cases and 17,000 orthopaedic visits annually. PGY-3 and 5 residents rotate here.
Gillette Children's Specialty Healthcare

**Medical Director:**
Steven Koop, MD

**Education Site Director:**
Deborah Quanbeck, MD

**Faculty Appointments:**
- Deb Bohn, MD
- Mark Dahl, MD
- Michael Healy, MD
- Jennifer Laine, MD
- Tom Novacheck, MD
- Alison Schiffern, MD
- Stephen Sundberg, MD
- Walter Truong, MD
- Ann Van Heest, MD
- Kevin Walker, MD

**Other Faculty:**
- Bruce Bartie, MD
- Eduardo Beauchamp, MD
- Trenton Cooper, DO
- Stephen England, MD
- Tenner Guillaume, MD
- Benjamin Novak, MD
- Joseph Perra, MD

**Deb Bohn, MD**
- University of Minnesota Medical School, MN, MD
- University of Minnesota, Orthopaedic Surgery Residency, MN
- University of Minnesota Hand and Upper Extremity Fellowship, MN

**Mark Dahl, MD**
- Mayo Medical School, MN, MD
- University of Minnesota Medical School/VA Affiliated Residency, MN

**Michael Healy, MD**
- University of Minnesota Medical School, MN, MD
- University of Connecticut, Orthopaedic Surgery Residency, CT
- University of Minnesota Gillette Children’s Specialty Healthcare, Pediatric Orthopaedic Surgery Fellowship, MN
Jennifer Laine, MD
- Columbia College of Physicians and Surgeons, NY, MD
- University of California-San Francisco, Orthopaedic Surgery Residency, CA
- Texas Scottish Rite Hospital, Pediatric Orthopaedics Fellowship, TX

Steven Koop, MD
- Medical Director
- University of Minnesota Medical School, MN, MD
- Veterans Affairs Medical Center/University of Minnesota Residency, MN
- Newington Children’s Hospital, Pediatric Orthopaedic Fellowship, CT

Tom Novacheck, MD
- University of Wisconsin, WI, MD
- Penn State University, Orthopaedic Surgery Residency, PA
- Newington Children’s Hospital, Pediatric Orthopaedic Surgery Fellowship, CT

Deborah Quanbeck, MD
- Education Director
- University of Minnesota Medical School, MN, MD
- University of Minnesota, Department of Orthopaedic Surgery Residency, MN
- Newington Children’s Hospital, Pediatric Orthopaedic Fellowship, CT

Alison Schiffern, MD
- University of Utah School of Medicine, UT, MD
- University of Utah, Orthopaedic Surgery Residency, UT
- University of Utah, Pediatric Orthopaedic Surgery Fellowship, UT

Stephen Sundberg, MD
- University of Minnesota Medical School, MN, MD
- Mayo Clinic, Orthopaedic Surgery Residency, MN
- Adelaide Children’s Hospital, Pediatric Orthopaedic Surgery Fellowship, Australia
Kevin Walker, MD
- University of Minnesota Medical School, MN, MD
- University of Minnesota, Department of Orthopaedic Surgery Residency, MN
- University of Toronto, Hospital for Sick Children, Pediatric Orthopaedic Surgery Fellowship, Canada

Gillette Specialty Children’s Healthcare provides pediatric orthopaedic rotations for the residency program with a faculty of ten fellowship trained pediatric orthopaedic surgeons. PGY-2 and 4 residents rotate at this site, while PGY-4 residents also take call at the Children's Hospital and Clinics of Minnesota.
Regions Hospital

Orthopaedics Chief:
Peter Cole, MD

Education Site Director:
Sarah Anderson, MD

Faculty Appointments:
Patrick Horrigan, MD
Paul Lafferty, MD
Scott Marston, MD
Chad Myeroff, MD
Christian Ogilvie, MD
David Solfelt, MD
Julie Switzer, MD
Christina Ward, MD

Sarah Anderson, MD
Education Site Director
•University of Minnesota Medical School, MN, MD
•University of Massachusetts, Orthopaedic Surgery Residency, MA
•Washington University, Foot and Ankle Fellowship, MO

Peter Cole, MD, FAOA
Orthopaedics Chief
•University of Miami Medical School, FL, MD
•Brown University, Orthopaedic Surgery Residency, RI
•Harborview Medical Center, Orthopaedic Trauma Fellowship, WA

Patrick Horrigan, MD
•Creighton University, NE, MD
•University of Minnesota General Surgery Residency, MN
•University of Minnesota, Department of Orthopaedic Surgery Residency, MN
•Stanford University Medical School, Orthopaedic Trauma Fellowship, CA
Regions Hospital

Paul Lafferty, MD
Education Site Director
• University of Medicine and Dentistry of New Jersey, NJ, MD
• New York University Hospital for Joint Diseases, Orthopaedic Institute Residency, NY
• University of Minnesota Regions Hospital Orthopaedic Trauma Fellowship, MN

Scott Marston, MD
• University of Minnesota Medical School, MN, MD
• University of Minnesota, Department of Orthopaedic Surgery Residency, MN
• Hennepin County Medical Center Total Joint Fellowship, MN

Christian Ogilvie, MD
• University of Minnesota Medical School, MN, MD
• University of California-San Francisco, Orthopaedic Surgery Residency, CA
• University of Toronto, Mount Sinai Hospital Musculoskeletal Tumor Surgery Fellowship, Canada

Chad Myeroff, MD
• University of Cincinnati, OH, MD
• University of Minnesota, Orthopaedic Surgery Residency, MN
• University of Pennsylvania, Shoulder and Elbow Surgery Fellowship, PA
• University of Arizona, Upper Extremity Trauma and Reconstruction Fellowship, AZ

Regions Hospital, located in St. Paul, MN, provides a unique level 1 trauma experience in a privately owned hospital with exposure to all areas of orthopaedic trauma. Additionally, residents are exposed to adult reconstruction, shoulder, hand, foot, and ankle surgery. PGY-1, 2 and 5 residents rotate at this site.
Regions Hospital

David Solfelt, MD
• University of Minnesota Medical School, MN, MD
• University of Minnesota, Department of Orthopaedic Surgery Residency, MN
• Regions Hospital Orthopaedic Trauma Fellowship, MN

Julie Switzer, MD
• Stanford University School of Medicine, CA, MD
• University of Washington, Department of Orthopaedics Residency, WA
• Vail Orthopaedics and Sports Medicine, Orthopaedic Sports Fellowship, CO

Christina Ward, MD
• Washington University School of Medicine, MO, MD
• University of Iowa, Department of Orthopaedics Residency, IA
• University of Iowa Department of Orthopaedics, Hand Surgery Fellowship, IA

The University of Minnesota provides an opportunity to work with multiple staff within the same subspecialty so you see more than one way to do things and get to decide which works best for you. The staff are approachable and exceptional teachers. The program is very family friendly and the twin cities are great. All around I couldn’t be happier with my decision to come to the U!

-PGY-5
TRIA Orthopaedic Center

Medical Director:
Edward Craig, MD, MPH

Education Site Director:
Bradley Nelson, MD

Faculty Appointments:
Kirk Aadalen, MD
Elizabeth Arendt, MD
Deb Bohn, MD
Joel Boyd, MD
Jonathan Braman, MD
Brian Cunningham, MD
Mark Dahl, MD
Gary Fetzer, MD
Patrick Horst, MD
Jeffrey Husband, MD
James Mazzuca, DPM
Patrick Morgan, MD
Fernando Peña, MD
John Steubs, MD
Marc Swiontkowski, MD
Marc Tompkins, MD
Thomas Varecka, MD

Kirk Aadalen, MD
• University of Minnesota Medical School, MN, MD
• Northwestern University Medical Center Residency, IL
• Rush-Presbyterian-St. Luke’s Medical Center, Sports Medicine Fellowship, IL

Elizabeth Arendt, MD
Department Vice Chair
• University of Rochester, NY, BA, MD
• University of Rochester General Surgery Residency, NY
• University of Minnesota Sports Medicine Fellowship, MN

Deb Bohn, MD
• University of Medical School, MN, MD
• University of Minnesota Orthopaedic Surgery Residency, MN
• University of Minnesota Hand and Upper Extremity Fellowship, MN
Joel Boyd, MD
• Temple University School of Medicine, PA, MD
• Cleveland Clinic Foundation, Orthopaedic Surgery Residency, OH
• University of Western Ontario, Orthopaedic Sports Medicine Fellowship, Canada

Jonathan Braman, MD
• University of Washington School of Medicine, WA, MD
• University of Washington Affiliated Hospitals, Orthopaedic Surgery Residency, WA
• Mt. Sinai Hospital Shoulder Surgery Fellowship, NY

Edward Craig, MD, MPH
CEO and Medical Director
• Columbia University College of Physicians and Surgeons, NY, MD
• Columbia University, MPH, Health Policy and Management, NY
• Roosevelt Hospital Residency, NY
• New York Orthopaedic Hospital Residency, NY

Brian Cunningham, MD
• University of Washington School of Medicine, MD
• Banner Good Samaritan Medical Center, Orthopaedic Surgery Residency, AZ
• University of California Medical Center, Trauma Fellowship, CA

Mark Dahl, MD
• Mayo Medical School, MN, MD
• University of Minnesota Medical School/VA Affiliated Program Residency, MN

Gary Fetzer, MD
• University of Iowa, College of Medicine, IA, MD
• Washington University at St. Louis/Barnes Jewish Hospital, Orthopaedic Surgery Residency, MO
• TRIA Orthopaedic Center, Sports Medicine Fellowship, MN
Patrick Horst, MD
• University of Minnesota Medical School, MN, MD
• University of California-San Francisco Residency, CA
• Stanford University School of Medicine, Adult Reconstruction Fellowship, CA

Jeffrey Husband, MD
• University of Manitoba, Canada, MD
• University of Manitoba, Orthopaedic Surgery Residency, Canada
• Indiana Hand Center, Surgery of the Hand and Upper Extremity Fellowship, IN

James Mazzuca, DPM
• Dr. William M. Scholl College of Podiatric Medicine, IL, DPM
• University of Chicago Medical Center Residency, IL
• Malmo General Hospital Department of Orthopaedics Externship, Sweden

Patrick Morgan, MD
• University of Minnesota Medical School, MN, MD
• University of Minnesota, Department of Orthopaedic Surgery Residency, MN
• Washington University School of Medicine, Fellowship in Joint Preservation, Resurfacing, and Replacement, MO

Bradley Nelson, MD
• University of Minnesota Medical School, MD
• University of Colorado Residency, CO
• Keller Army Community Hospital John A. Feagin Sports Medicine Fellowship, NY

Fernando Peña, MD
• Universidad Complutense, Madrid, Spain, MD
• University of Minnesota, Department of Orthopaedic Surgery Residency, MN
• Fowler-Kennedy 3M Sports Medicine Clinic, University of Western Ontario, Sports Medicine Fellowship, Canada
TRIA Orthopaedic Center is a state-of-the-art outpatient orthopaedic center that includes a surgery center, general and subspecialty clinics, rehabilitation services, and an education research facility. TRIA Orthopaedic Center includes a hands-on surgical skills lab for resident training as well as rotations in sports, foot, and ankle. This facility is a partnership between Park Nicollet Health Services and University of Minnesota Physicians. PGY-2, 3, and 5 residents rotate here.
University of Minnesota Medical Center / MHealth (UMMC) offers specialty service rotations in spine, sports, tumor, foot and ankle, hand, and joint restoration. This is the flagship hospital for the residency program and is the site for weekly program-wide grand rounds and core curriculum lectures. PGY1, 4 & 5 residents rotate at this site.

Hennepin County Medical Center (HCMC) provides trauma rotations for the residency program. It is a Level 1 trauma center with a faculty of 8 fellowship trained traumatologists. A wide range of multi-system trauma is treated with over 2,500 operative cases and 17,000 orthopaedic visits annually. PGY3 and 5 residents rotate here.

Gillette Children’s Specialty Healthcare (GCSH) provides pediatric orthopaedic rotations for the residency program with a full-time faculty of 7 fellowship-trained pediatric orthopaedic surgeons. PGY2 and 4 residents rotate at this site. PGY4 residents also take call at Children’s Hospital and Clinics of Minnesota.

Veterans Affairs Medical Center (VAMC) is the primary location for the adult reconstruction rotations. The Minneapolis VA Medical Center does more total joints than any other VA Medical Center in the country. This provides a well supervised experience for the resident to learn primary and revision total joint arthroplasties and general adult orthopaedics. PGY1, 3 and 5 residents rotate here.

Regions Hospital (RGHP) provides both a Level 1 trauma rotation, as well as a private hospital environment. PGY1, 2 and 5 residents rotate at this site.

TRIA Orthopaedic Center is a specialty orthopaedic hospital. This center includes rotations in sports, hand, and foot and ankle. PGY 2, 4 and 5 residents rotate here.
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<tr>
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History of the Department of Orthopaedic Surgery

Orthopaedic surgery has a rich heritage at the University of Minnesota, dating back to the founding of the Medical School in 1888. In 1897, Arthur Gillette assumed his duties as the first clinical professor of Orthopaedic Surgery at the University of Minnesota. Gillette also established the first State Crippled Children’s Hospital in 1897, which after his death became Gillette Children’s Hospital – an ongoing and vital part of orthopaedic education and patient care for 115 years. Emil Geist succeeded Arthur Gillette as director of the Orthopaedic Surgery Division in 1921. After Geist’s death in 1933, Wallace Cole became the lead figure in Orthopaedic Surgery for the next 25 years. Although Cole was made full professor in 1935, Orthopaedic Surgery continued as a Division of the Department of General Surgery, headed by Owen Wangensteen, who tightly controlled the budget and most surgical activities.

Dr. Cole retired in 1956, at the mandatory age of 68, but continued to be active in educational activities at Gillette, Shrine, and VA Hospitals until his death in 1973. John Moe was appointed a clinical professor and head of the division in 1957. There was significant growth of the division under Moe, with advancement to a full department.

The appointment of Roby Thompson, Jr., MD, as professor and department chair in 1974 was a major turning point because of his skills in every area. He brought not only good organizational skills for our educational endeavor, but also experience and interest in orthopaedic research that added immensely to the academic stature of what was already a strong clinical training program. Thompson was well received by the full-time and clinical faculty of both communities, and through his leadership and with cooperation of Dr. Robert Premer at the Minneapolis VA Medical Center, the VA and University programs were integrated by the early 80’s with strong faculty leadership at all of the affiliated hospitals, assuring a balanced and broad educational experience for all residents. Dr. Thompson was also a strong advocate for women in the profession. This tradition has continued; for the past ten years, 20% of University of MN graduates are female.

In 1997, Dr. Marc Swiontkowski was appointed as professor and chairman of the Department of Orthopaedic Surgery. He continued the long traditions of Drs. Gillette, Geist, Cole, Moe, and Thompson in leading the department to national excellence in patient care, research, and education. He served for 10 years and founded TRIA Orthopaedic Center.

From 2007 to present, Dr. Denis Clohisy has been the Chair of the Department of Orthopaedic Surgery. He is also the Roby C. Thompson, Jr. M.D. Endowed Chair in Musculoskeletal Oncology. This academic appointment reflects the tradition and the continuance of the department’s excellent commitment to scholarship, leadership, and education. He has prioritized excellence in clinical care with development of partnerships with Fairview, Health Partners, and Gillette Children’s, as well as ongoing research and education initiatives.
DEPARTMENT OF
ORTHOPAEDIC SURGERY
Creating great days for every life we touch:
today, tomorrow, and in the future.

Mailing Address:
2450 Riverside Ave S R200
Minneapolis, MN 55454

Administrative Office Address:
2512 South 7th Street, 2nd Floor
Minneapolis, MN 55454

612-273-8043
orthoed@umn.edu
www.ortho.umn.edu