Orthopedics and Rehabilitation

Chair
• J. Lawrence Marsh

Faculty: https://medicine.uiowa.edu/orthopedics/leadership
Website: https://medicine.uiowa.edu/orthopedics/

The Department of Orthopedics and Rehabilitation offers training for residents.

Residency

The department offers a five-year integrated clinical program for postgraduate trainees, in which interns and residents participate simultaneously in inpatient and outpatient care, surgery, and sciences related to the neuromusculoskeletal system.

Trainees enter this program directly from medical school through the National Residency Matching Program.

During the first year, trainees gain experience not only in clinical orthopedics but also in surgical specialties, intensive care, radiology, and surgical skills.

During years two through five, residents gain experience in the diagnosis and management of adult and pediatric orthopedic disorders, including joint reconstruction; trauma, including multisystem trauma; surgery of the spine, including disk surgery, spinal trauma and deformities; hand and foot surgeries; athletic injuries and orthopedic rehabilitation; orthopedic oncology, including metastatic disease; and amputations as well as post-amputation care and nonoperative outpatient diagnosis and care, including all orthopedic anatomic areas.

Facilities

The Department of Orthopedics and Rehabilitation is housed in the John Pappajohn Pavilion of University of Iowa Hospitals and Clinics and has an active service in the Iowa City VA Health Care System. The department's facilities include 48 orthopedic beds, ten outpatient clinics, inpatient and outpatient operating rooms, a specialty library, a specialty radiology unit, and physical therapy and rehabilitation facilities. Its specialty clinics deal with virtually every orthopedic disorder known, including, but not limited to scoliosis, club feet, congenital dislocated hip, neuromuscular disease, metabolic disease, amputation, neoplasm, trauma, and neck, back, hip, foot, knee, and hand problems. Physicians in the outpatient clinic see approximately 280 patients per day, over 70,000 patients per year. Approximately 7,000 surgeries are performed each year.

The department's Institute for Orthopaedics, Sports Medicine, and Rehabilitation provides MRI, X-ray, and physical therapy services, and a full range of nonoperative orthopedic ambulatory care services.

Laboratories

The orthopedics laboratories deal with problems in these major subject areas.

Biochemistry: the biochemistry of proteoglycans, collagens, and matrix proteins, both normal and altered in musculoskeletal disorders

Biomechanics: problems of the upper extremity; biomechanics of the spine, hip, and gait; total joint replacements (in conjunction with the College of Engineering)

Cell and molecular biology: studies of normal bone, cartilage, tendon, muscle, and tissues altered by experiment and disease

Bone healing: research toward better ways to heal bones

Courses

Orthopedics and Rehabilitation

ORTH:8301 Clinical Orthopedics arr.
ORTH:8401 Advanced Clinical Orthopedics 2,4 s.h.
Requirements: fourth-year M.D. enrollment.
ORTH:8402 Musculoskeletal Trauma arr.
Requirements: fourth-year M.D. enrollment.
ORTH:8403 Subinternship in Orthopedics 4 s.h.
Opportunity to enhance clinical skills by taking intern-level responsibility for management of a limited number of orthopedic patients; proficiency in perioperative patient assessment and management, including assisting in procedures and using laboratory diagnosis and radiologic studies pertinent to one faculty member's clinical practice.
ORTH:8404 Introduction to Physical Medicine and Rehabilitation 2 s.h.
Management of a wide range of common acute and chronic neuro-musculoskeletal pain conditions (shoulder, back, knee pain) to more devastating neuromuscular injuries (spinal cord injuries, brain injury, strokes, amputations). Requirements: M.D. enrollment.
ORTH:8405 Advanced Physical Medicine and Rehabilitation 4 s.h.
Management of a wide range of common acute and chronic neuro-musculoskeletal pain conditions (shoulder, back, or knee pain) to more devastating neuromuscular injuries (spinal cord injuries, brain injury, strokes, amputations); students work-up individual patients in outpatient clinics and perform inpatient consultations at subintern level. Prerequisites: ORTH:8404. Requirements: M.D. enrollment.
ORTH:8498 Orthopedics On Campus arr.
Requirements: fourth-year M.D. enrollment.
ORTH:8499 Orthopedics Off Campus arr.
Requirements: fourth-year M.D. enrollment.