Musculoskeletal System
**SPECIAL FIELDS**
Minimally invasive spinal surgery, treatment of wear and tear symptoms of the spinal column, intra-vertebral surgery and prosthetics, kyphoplasty, cement-free kyphoplasty treatment of severe injuries, endoprosthetics of large joints (hip, also minimally invasive; knee; upper ankle joint). Arthroscopy (shoulder, knee, elbow, upper and lower ankle joint). Ligament plasty, axial adjustment, elbow and foot surgery, surgery of the diabetic foot, corrective surgery, paediatric traumatology, neuro- traumatology, all osteosynthesis procedures, intramedullary nailing, treatment of pseudarthrosis, geriatric traumatology, prosthetics of geriatric patients.

**EXPERT PROFILE**
Since January 2014 Prof. Dr. med. Georg Gradl is the Head of the Department for Trauma Surgery in Harlaching Hospital and Head of the Trauma Centre South in cooperation with Neuperlach Hospital. One of the main specialties in Harlaching Hospital is surgery of the spinal column. In an interdisciplinary team staffed by orthopaedic, trauma surgery and neurosurgery specialists, we treat patients with degenerative diseases of the spinal column, the intervertebral discs, inflammatory conditions and especially injury-related defects and tumors of the spinal column.

Another important focus lies on the care for patients with severe trauma in cooperation with Neuperlach Hospital.

Trauma surgery at Harlaching hospital is certified as supra-regional trauma centre and member of TraumaNetwork DGU® (German Society for Trauma Surgery). In cooperation with regional trauma centres it has an active role in caring for trauma patients and is also responsible for paediatric trauma surgery.

In orthopaedics the main specialties are arthroscopy and endoprosthetics. Implantation of artificial joints is applied in cases of degenerative and geriatric joint changes as well as for changes caused by injuries. These procedures include prosthetics of upper ankle and elbow prosthetics. Interdisciplinary surgical intervention of injuries of the skull, cerebral bleeding, injuries of the bone marrow and nerves are covered by the neurosurgery team.

Foot and hand surgery was established by Prof. Dr. med. Gradl. Here the emphasis lies on reconstructive forefoot surgery, backfoot surgery, prosthetics of the upper ankle joint and special bone reconstruction for diabetic osteoarthropathy of the foot.

Problem cases such as axial misplacement, delay in healing of fractures or bone infections complete the range of treatment.
**SPECIAL FIELDS**

Biologicals, immune suppressive and immuno-modulating therapies, immune-adsorption at therapy resistant and severe vasculitis and collagenosis, multimodal complex rheumatology treatment, osteology, osteoporosis therapy.

**EXPERT PROFILE**

Since 2006 Dr. Blanche Piper is Head of the Department for Rheumatology, Clinical Immunology and Osteology in Bogenhausen Hospital. Up to 2006 she held the position of Senior Physician in charge for many years. Her medical focus is on diagnostics and treatment of patients with inflammatory-rheumatic systemic diseases as well as degenerative diseases of the musculoskeletal system according to all up-to-date medical knowledge and standards.

Dr. Piper is member in the Professional Society of German Rheumatologists and the German Society for Internal Medicine Rheumatology Centre Munich. She is founding member of the Competence Network for Vasculitis Munich.

The Department for Rheumatology, Clinical Immunology and Osteology treats diseases such as collagenosis, e.g. systemic lupus erythematosus (SLE), Sjögren-syndrome, scleroderma/systemic sclerosis, polymyositis or mixed collagenosis, vasculitis (e.g. Morbus Wegener), rheumatoid arthritis (chronic polyarthritis), spondyl arthropathies (e.g. Morbus Bechterew and psoriasis-arthritis), soft-tissue rheumatism as well as osteoporosis, degenerative diseases of the skeleton, arthrosis, spinal column syndrome, fibromyalgia and chronic pain syndrome.

All modern diagnostic procedures are applied including joint- and soft-tissue sonography (ultrasound) as well as complete autoimmune diagnostics, modern immuno-suppressive and immunomodulating therapies including biological, immune-adsorption at therapy resistant severe vasculitis and collagenosis, diagnostic and therapeutic punctures of joints; bone marrow punctures and biopsies as well as differentiated pain therapy.

The special spectrum of the department also includes comprehensive, interdisciplinary therapy in a complex multimodal rheumatology treatment. This is to the great benefit of patients with inflammatory-rheumatic diseases and non-inflammatory pain syndrome (incl. fibromyalgia syndrome and high-grade osteoporosis).
**SPECIAL FIELDS**

Endoprosthetics, arthroscopic and minimally invasive surgery of all joints, shoulder orthopaedics, foot surgery, sport trauma surgery - and medicine, minimally invasive surgery of the spinal column, spinal- and geriatric traumatology, septic bone surgery, paediatric orthopaedics, polytrauma therapy.

**EXPERT PROFILE**

Dr. med. Ludwig Seebauer is the Head of the Department for Orthopaedics and Sport Orthopaedics since 2002 and the Head of the newly established Centre for Orthopaedics, Trauma Surgery and Sport Medicine at Bogenhausen Hospital.

One of the substantial medical specialties in his clinical and scientific work is shoulder orthopaedics. The department enjoys an exceptional national and international reputation and has a leading position in Germany with the number of implanted shoulder prostheses per year. Since 1995 Bogenhausen Hospital hosts the internationally renowned Shoulder Symposium.

Another specialty in the group of orthopaedic sub-disciplines is the intensive application of arthroscopic surgery of all joints with a case number of more than 1,000 per year. In the area of shoulder-, hip-, knee- and ankle joint we are in the position to apply state-of-the-art equipment and procedures to perform complex joint-saving arthroscopic surgery.

The Centre for Orthopaedics, Trauma Surgery and Sport Medicine performs more than 5,000 surgical interventions, i.e. 3,000 electively orthopaedic and approx. 2,000 in acute trauma surgery.

The Centre is certified as regional trauma centre. For polytrauma therapy all infrastructural and required related specialty departments are in the same location (neurosurgery, visceral- and thorax surgery, cardiovascular surgery).

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**Dr. med. Ludwig Seebauer**  
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By close cooperation and consultation with all high-quality internal departments and the Department for Anaesthesiology and Intensive Care it is possible to successfully perform complex and difficult surgical interventions at highest orthopaedic and trauma surgery level even for high-risk and geriatric patients. Close interdisciplinary cooperation with the Department for Rheumatology and Immunology, the Department for Physical Medicine and Rehabilitation and the Department for Plastic-, Reconstructive- and Hand-Surgery allows us to offer optimized patient oriented complete treatment of all diseases, injuries and trauma consequences of the whole musculoskeletal system within one hospital location.