Information for patients

ASSOCIATE PRACTICE AT KÖNIGSALLEE
Center for Molecular Orthopaedics
Natural, gentle and with minimal side effects: these are just some of the arguments in favour of molecular orthopaedics, which is the biological treatment of joint and spinal disorders. The scientifically well-documented efficacy coupled with our consultants’ years of experience are the guarantors of the great success of this cutting-edge form of therapy with no significant side effects. These innovative biological treatment methods, developed from the latest medical findings, are used successfully to combat complaints arising from degenerative joint and spinal disorders.

Medical science is continually progressing and you can benefit from that progress. We use biotechnologically produced analogous proteins and autologous conditioned serum from patients’ own blood to provide you with a range of biologically effective therapies. After a personal consultation and individual diagnostics we devise a therapeutic regime precisely tailored to your needs, using either endogenous (i.e. the body’s own) or recombinantly produced neurotransmitters (proteins). If you have any questions please contact us at any time.

www.neue-orthopaedie.de
Our greatest concern is your satisfaction and well-being, so that you can enjoy an active, pain-free life. We are dedicated to ensuring that you recover as quickly and as fully as possible. Good health is your most treasured possession, to be protected at all costs, and to safeguard it we can draw on a highly specialised, internationally trained team of doctors with a high level of core expertise in all matters relating to disorders of the musculoskeletal system, joints and spinal column.

We tackle your complaints sympathetically, expertly and individually, using the latest cutting-edge diagnostics to offer you a personally tailored therapy recommendation within one day. In the process we focus strongly on providing the gentlest possible, minimally invasive treatment, whether surgical or non-surgical in nature.

We offer the entire spectrum of conventional orthopaedics, neurosurgery and radiology, but our practice specialises in molecular orthopaedics, which is the biological treatment of joint and spinal disorders. Using endogenous substances has revolutionised the treatment of orthopaedic disorders. These gentle, innovative biological methods guarantee the long-term eradication of your symptoms so that you can enjoy a healthy, active life.

Dr Markus Granrath
Orthopaedics specialist
- specialises in the shoulder and knee joints and sports traumatology, joint replacement/endoprosthetics, arthroscopy, biological joint reconstruction and cartilage transplantation

Dr Axel Baltzer
Orthopaedics specialist
- emphasis on joint disorders of the hip, knee and foot, arthroscopy, biological joint reconstruction, cartilage transplantation and joint replacement/endoprosthetics

Professor Wilhelm Klein
Orthopaedics, rheumatology and sports medicine specialist; emphasis on joint disorders and arthroscopy

Dr Daniel Stosch
General surgery specialist
- emphasis on hand surgery, foot surgery, traumatology and osteoporotic spine fractures

Dr Florian Seidel
Orthopaedic, accident surgery and general surgery specialist, emphasis on acupuncture, chirotherapy and kinesiology

Dr Astrid Bachus
Orthopaedics and chirotherapy specialist; emphasis on sports medicine and acupuncture

About us
At our contemporary, attractive premises, an experienced team specialised in orthopaedics, neurosurgery, general surgery and radiology offers diagnostics and therapy under one roof. The centre includes a modern radiology department offering magnetic resonance imaging (MRI), computer tomography (CT) and digital radiology. Our equipment is among the most modern and efficient of its kind anywhere in the world.

Based on swift, thorough diagnostics, a wide array of surgical and non-surgical therapies is available for the optimum individual treatment of your disorder, while we also use proven, ultramodern biological agents to halt inflammation, regenerate joint cartilage and promote accelerated healing of broken bones.

The aim of our highly specialised international team is to restore you to good health as quickly as possible so that you can resume an active, pain-free lifestyle.

Diagnostics and therapy under one roof

Dr Gregor Godde – Neurosurgery specialist; emphasis on spinal disorders, pain therapy, headaches and spinal surgery

Dr Jens Peter Regel – Neurosurgery specialist; emphasis on spinal surgery, intervertebral disc prosthesis, spinal disorders, pain therapy, headaches and acupuncture

Dr Stephan Dammert – Diagnostic radiology specialist; emphasis on neuroradiology

Dr Martin Kohlmeyer – Radiological diagnostics specialist; emphasis on vascular and abdominal ultrasound

Dr Athour Gevargez – General medicine specialist; emphasis on interventional pain therapy and chirotherapy
When your joints suffer

Joints bear the burden of our entire body weight. When they draw attention to themselves by becoming painful, the symptoms may be due to wear and tear (arthrosis), inflammatory disorders, such as rheumatism, or simply an injury.

The most common disorder is arthrosis, or cartilage loss, as the smooth cartilage layer progressively deteriorates. The Centre for Molecular Orthopaedics uses the full range of modern orthopaedic and biotechnological treatment methods to keep your joints healthy for as long as possible. If a joint disorder has reached a point where arthroscopic or cartilage repair surgery is no longer sufficient, implantation of an artificial joint may be necessary. Our highly experienced team of surgeons will perform any such surgical intervention for you.

When your back hurts

Treating back pain is a highly individual matter, because the personal experience of pain varies greatly and the pain may have many different causes. Back pain ranges from slight aches to acute pain attacks to chronic pain conditions. Back pain is often triggered by muscular tension, persistent poor posture, excessive physical stress and trapped nerves, due for instance to a slipped disc. Age-related changes to the spinal column and dissatisfaction with one’s life are also conducive to back pain.

The Centre for Molecular Orthopaedics uses modern orthopaedic, neurosurgical and biological treatment methods to break through the vicious circle of back pain and prevent the suffering from becoming chronic.
Our examinations

To determine the cause of your symptoms we conduct various diagnostic tests. The first step in our diagnostic process is a personal consultation with one of our specialists, during which you describe your symptoms and undergo a physical examination. A radiological examination of the joint or spinal column, laboratory research, gene tests, muscle measurements, 3D study of skeletal statics, gait analysis and neurophysiological measurements provide further important data.

MRI scans provide imaging of near microscopic accuracy of the various structures of the joint or spinal column, including the capsules, ligaments, muscles, cartilage and bone. Working together with your doctor, the radiologist can use these images to determine precisely the degree of cartilage degeneration or diagnose a slipped disc or other degenerative damage.

Special orthopaedic laboratory examinations are conducted either in our own practice laboratory or by our strategic partners in order to rule out infectious diseases which could cause joint or back pain. We use gene tests to determine your genetic predisposition to joint disorders and your individual risk of thrombosis.

Magnetic resonance imaging (MRI) uses a strong magnetic field to create precise, cross-sectional images of the body rapidly. Also known as nuclear magnetic resonance imaging, the technique does not use x-rays, making it particularly non-invasive.

Imaging techniques such as MRI are particularly useful in ruling out slipped discs, inflammation and tumours, and are also vital for such tasks as precise orthopaedic diagnostics and planning our operations. Other procedures such as computer tomography, digital radiology and sonography round off the spectrum of modern radiological diagnostics.
Joint injections

In the treatment of acute joint pain, relieving the pain and restoring mobility are the main priorities. Since the blood circulation to the joints is very much reduced, joint injections are the most effective means of delivering medication to the affected joint. We use both endogenous proteins and recombinant (i.e., pharmaceutically synthesised) proteins to treat arthrosis. Joint injections are routine orthopaedic treatments which are often less taxing on the body than taking pain medication.

Microtherapy, injection therapy

Slipped discs and nerve irritation can often be effectively treated by injection therapy or microtherapy. This involves injecting medication or anti-inflammatory proteins in the vicinity of the affected nerve roots or intervertebral joints. The proteins used are either endogenous or recombinantly synthesized neurotransmitters. Injections into the spinal area are a routine treatment.

Interventional radiology

Interventional radiology is a treatment method whereby a CT scanner is used for the targeted local administration of the required treatment.

CT-guided injections

We carry out CT-guided injections in particular on the spine and joints where access is difficult. The technique involves using a CT scanner to ensure that the injection needle is in the right position to administer the medication.

Intervertebral disc injection

Intervertebral disc injection is a method of conveying medication to the discs. This therapy can be used to combat back pain emanating from intervertebral discs and forms the basis for new biotechnological treatment methods of preserving discs.

Treatment of small vertebrae

Changes to small intervertebral joints can cause back pain. Computer tomography assists in the targeted injection of pain medication or anti-inflammatory proteins into the small vertebrae.
We offer a broad spectrum of minimally invasive and open joint operations. We specialise in operations to support and restore cartilage and in restorative joint surgery. We personally perform both outpatient procedures and inpatient operations at affiliated hospitals. In acute cases we can arrange operations at short notice.

Our various specialists cover the entire range of orthopaedic and neurosurgical operations. With joint operations we recommend combined treatment using biological substances to accelerate the healing process and improve the joint structure.

Our consultants are experienced surgeons each of whom is a specialist in specific joints. We believe in highly individual, personal care and minimally invasive surgical interventions so that you can resume your customary lifestyle as soon as possible after the operation.

Kyphoplasty
Vertebral fractures can have many different causes, for instance osteoporosis or tumours. These fractures can be treated in a particularly gentle fashion using minimally invasive, CT-guided techniques such as kyphoplasty. Kyphoplasty represents a sophisticated alternative to classical treatment methods such as bed rest or back braces.

Sclerotherapy of facet joints using electric current or alcohol
This is a simple technique involving minimal risk which provides effective treatment of pain in the cervical or lumbar vertebrae caused by facet joint degeneration. As a rule sclerotherapy of the pain-inducing facet joint nerves leads to long-term freedom from pain, often lasting years, enabling patients to resume their normal lifestyles.

Musculoskeletal system surgery
We offer a broad spectrum of minimally invasive and open joint operations. We specialise in operations to support and restore cartilage and in restorative joint surgery. We personally perform both outpatient procedures and inpatient operations at affiliated hospitals. In acute cases we can arrange operations at short notice.

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If a mechanical problem is at the root of the spinal disorder, and the symptoms persist for a long period, it is time to consider a surgical option. Particularly in the case of acute neurological conditions involving paralysis or bladder or rectal dysfunction, surgery becomes a necessity. Our experienced team of doctors offers a wide range of minimally invasive open operations on the spine and intervertebral discs.

We also work on the development and introduction of new surgical techniques on the spine such as the treatment of spinal canal stenosis. We combine modern surgical methods with biotechnological treatment to support the healing process. Another focus of our work is the development of disc transplantation techniques.

Our spinal surgery

- Minimally invasive disc and stenosis surgery
- Microsurgical spinal canal decompression
- Cervical and lumbar intervertebral disc prostheses
- Spondylodesis to immobilise vertebrae using modern implants and minimally invasive access methods
- Disc stem cell transplantation
- Cervical and lumbar vertebrae facet coagulation
- Kyphoplasty
Sports orthopaedics

Athletes subject their joints and spine to immense strain, which is why their musculoskeletal systems require individual orthopaedic care geared to their specific sports. A precise analysis of the spine’s static state and movement patterns can contribute to the prevention of sports injuries. The aim of the sports orthopaedics practised at the Centre for Molecular Orthopaedics is to prevent injury and to provide expert treatment of sports injuries and disorders when they do occur. As active athletes ourselves we can provide guidance for patients doing both recreational and high-performance sports.

At the Centre for Molecular Orthopaedics, our sports orthopaedics can draw on many years of experience in the surgical and non-surgical treatment of sports injuries. Supplementary biological treatment methods can accelerate the healing process and protect joints from arthrosis.
Our range of services

- **Diagnostics**
  - Magnetic resonance imaging (MRI) · Computer tomography (CT) · Digital radiography
  - Static analysis · Gait analysis · Neurophysiology · Laboratory analysis

- **Therapy**
  - Treatment of joint and spine disorders · Headache
  - Sports injuries · Interventional radiology

- **Inpatient and outpatient surgery**
  - Joint surgery · Joint replacement · Spinal surgery

- **Biotechnological treatment**
  - Endogenous proteins · Recombinant proteins · Cartilage transplantation

Contact

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