

Our services in detail

At the MCB, we offer a range of services in nuclear medicine and radiological imaging. Here, we have specialized particularly in the field of oncology. We can also provide further expertise in neurology - especially in the early detection of degenerative diseases to include endocrinology, cardiology, thyroid examination and the diagnosis of osteoporosis. Below, you will find a detailed overview of our services.

Positron Emission Tomography (PET/CT)

PET/CT with FDG

- Oncological issues
- Search for infections, e.g. endocarditis

PET/CT with PSMA and/or choline

- Prostate examinations
- Bladder cancer

PET/CT with florbetaben

- Alzheimer diagnostics

PET/CT with F-18 fluoro-L-DOPA

- Early diagnosis of Parkinson's disease

Dual Photon X-Ray (DPX)

- Bone Density Measurement

Single photon emission computed tomography (SPECT/CT)

Skeletal scintigraphy (2-phase, 3-phase, whole body possibly as SPECT/CT)

- 2-phases:
 - Polyarthrosis
 - Pain of unknown cause
- 3-phases
 - Checking the fit of artificial joints
 - Whole body metastasis search

Renal clearance

- Renal failure
- Side separated kidney function
- Urinary flow disorders

Parathyroid scintigraphy

- NSD Adenoma
- Hyperparathyroidism

Thyroid scintigraphy with MIBI

- Cold SD nodes
- Suspicion of malignancy

Myocardial scintigraphy

- Suspicion of coronary artery disease
- Completion cardiac catheter examination

Tektrotyd scintigraphy

- Suspicion of neuroendocrine tumors

Brain Scintigraphy / DaTSCAN

- Suspicion of Parkinson's disease

Thyroid camera (gamma camera)

- Thyroid scintigraphy
- Thyroid scintigraphy with MIBI

Sonography nuclear medicine (ultrasound)

- Ultrasound examination of the thyroid gland

Sonography radiology (ultrasound)

- Sono abdomen
- Sono chest
- Sono neck
- Sono pelvis

Magnetic Resonance Tomography (MRI)

MRI skull

- Tumor diagnostics
- Suspected metastases
- Clarification headache and dizziness
- Multiple sclerosis
- Suspicion of an inflammatory process (e.g. meningitis, abscess)
- Suspicion of circulatory disorders
- Clarification of tinnitus, hearing loss
- Changes in the pituitary gland
- Dementia, Alzheimer's disease
- Depression

MRI facial skull / neck

- Eye socket, Graves' disease
- Sinuses, polyps, inflammation
- Suspicion of tumor or tumor staging
- Lymph node staging

- Suspicion of inflammatory tumor or abscess
- Vascular processes
- Suspected facial nerve disorders, trigeminal neuralgia
- Lymph node enlargements
- Inflammatory swelling or abscess

MRI abdomen

- Bile duct and pancreatic duct diagnostics
- Upper abdominal diagnostics
- Differentiation of unclear liver lesions, suspicion of liver tumor in liver cirrhosis
- Kidney diagnostics
- All soft tissue questions
- Unclear tumor in the pelvis
- Clarification of uterus, ovaries
- Lower abdominal pain in young patients
- Special examination of the small intestine (MRT-Sellink)
- Vascular imaging with MR angiography (carotid arteries, abdominal cavity, pelvic and leg vessels)

MRI prostate

- Multiparametric MRI
- Early detection or exclusion of cancer
- Biopsy planning
- Staging and treatment planning
- Recurrence search and re-staging

MRI mamma

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MRI spine and spinal cord

- Suspicion of spinal canal stenosis
- Suspicion of spinal neoplasm
- Spinal cord diseases
- Multiple Sclerosis
- Postoperative diagnostics after disc surgery
- Suspicion of vertebral fractures
- Inflammatory diseases (vertebral joint diseases, infections)
- Intervertebral disc diagnostics
- Spinal degeneration

MRI bones and joints

- Suspected metastasis on bone scintigram
- Bone tumors
- Bone marrow processes
- Osteomyelitis
- Joint diseases
- Wear and tear, sports injuries, inflammation, meniscus, ligaments, cartilage

MRI vessels

- Body trunk
- Chest and abdominal artery
- Cerebral vessels
- Neck vessels (carotid / vertebral)
- Pelvic / leg vessels

Computed Tomography (CT)

CT head and facial skull

- Accident, fractures
- Unconsciousness
- Cerebral circulatory disorders
- Acute hemorrhage
- Bony skull base, petrous bone
- Sinuses, eye sockets, tooth-jaw
- Suspicion of salivary stone
- Inflammations and tumor diseases

CT neck

- Inflammatory processes and tumors

CT chest cavity (thorax)

- Lung tissue, tumor, inflammation
- Clarification and course of round
- Clarification of vessels (aneurysm, dissection, pulmonary embolism)
- Search / exclusion of metastases
- Lymph node assessment
- Thoracic wall process

CT abdomen / pelvis

- Unclear abdominal complaints
- Primary upper abdominal diagnostics (liver, pancreas, spleen)
- Kidney stone diagnostics
- Tumor search
- Tumor staging, tumor follow-up
- Lymphoma and search for lymph node metastases
- Acute abdominal disorders, intestinal obstruction, perforation and abscess
- Pelvic skeleton, fractures
- Pelvis/leg

CT spine/skeletal system

- Vertebral fracture
- Narrowing of the spinal canal
- Bony wear of the vertebrae and joints
- With limitation intervertebral discs
- Fractures in general, fracture healing control
- Degeneration sacroiliac joints

CT joints

CT extremities