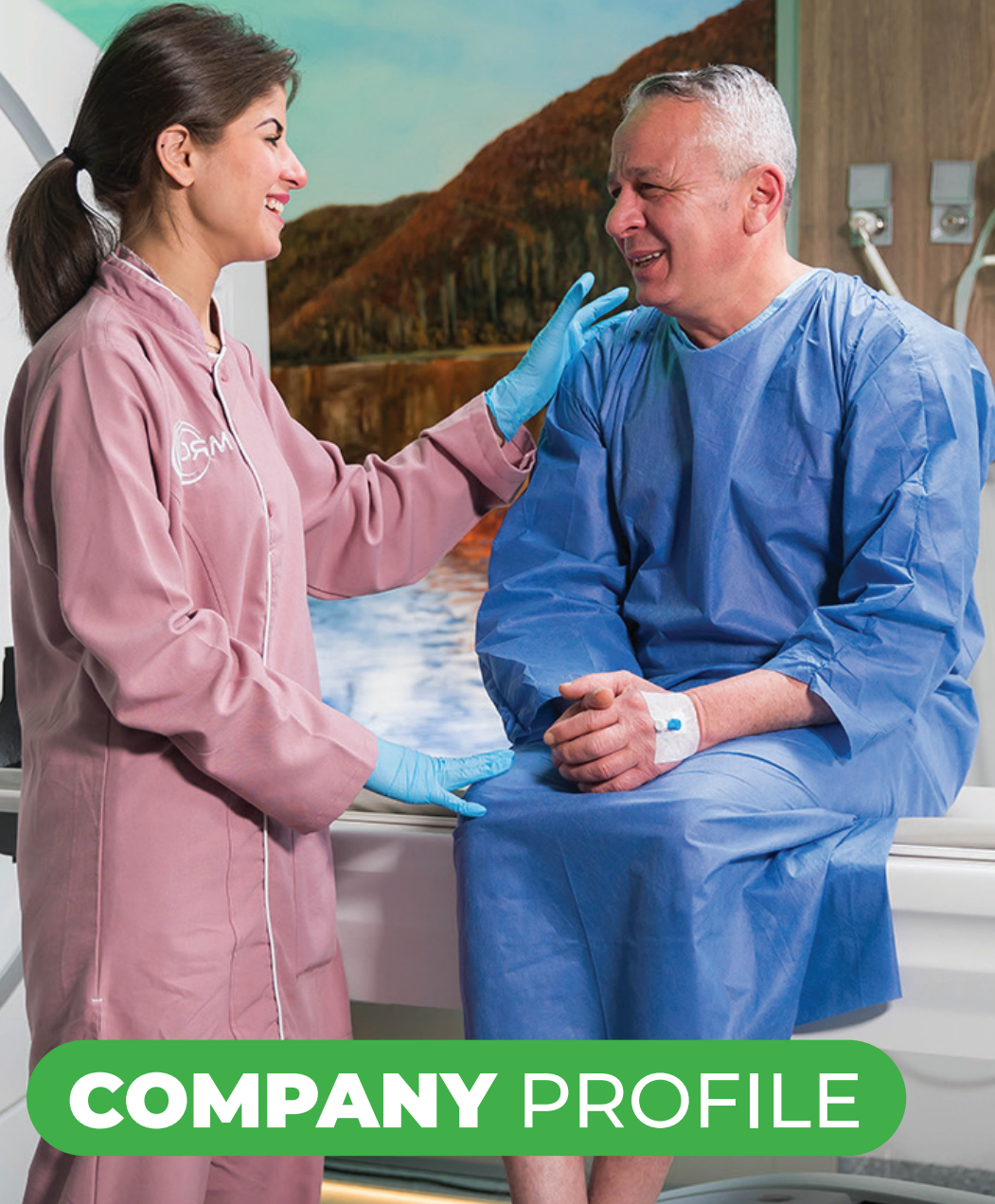


مركز مصر للأشعة
MISR RADIOLOGY
CENTER



COMPANY PROFILE

مركز مصر للأشعة
MISR RADIOLOGY CENTER



Misr Radiology Center has always been at the forefront of Radiodiagnosis, Nuclear Medicine and Interventional Radiology markets in Egypt, and has always been keen on introducing advanced techniques and state of the art technology from around the world to Egypt!

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A History of Healthcare

Misir Radiology Center was established in 1989 and is staffed by a renowned group of Professors of Radiology at the Faculty of Medicine, Ain Shams University, Armed Forces and other distinguished universities across Egypt.

MRC has always been the epitome of **unprecedented medical excellence for more than 30 years with its team of top-notch experts, advanced technology, and wide array of services** including but not limited to:

- MRI (1.5T/3T)
- PET/MRI
- Multislice CT
- PET/CT
- Angio-CT
- Interventional Radiology Unit
- Ultrasound or CT Guided Biopsies
- Isotope
- Ultrasound, 3D/4D US and Duplex
- Fibroscan
- Echocardiography
- ECG and Stress ECG
- Mammography
- X-ray and Fluoroscopy
- Panorama and CBCT
- DEXA and Body Composition
- EMG and NCV
- EEG
- Portable Services:
 - X-ray
 - US and Doppler
 - Echo and ECG
 - EMG, NCV and EEG

Our Mission:

To provide the highest standards of medical service in the field of radiodiagnosis, nuclear medicine and interventional radiology to patients through scientific excellence, advanced medical equipment and highest quality of medical consumables.

PET/MRI UNIT

3T PET/MRI

For the first time in Africa and the Middle East

PET/MRI combines the metabolic and molecular data of PET, with excellent anatomic details of MRI, using high end conventional MR protocols with all pertinent 3T sequences simultaneously in a one-stop-shop exam for better study:



Visualization



Quantification



Translational
Imaging



Efficiency



Limited Radiation

Available at **NEW CAIRO
BRANCH**



By doing so, it can more accurately detect and characterize a variety of diseases including:



Body:

- Major body cancers for full TNM Staging (i.e. breast, prostate, rectal, anal, liver, pancreatic, renal, NET, urinary bladder, gynecological)
- Myeloma and melanoma assessment



MSK:

- Bony and soft tissue tumors
- Pain localization studies/inflammatory conditions



Neurological:

- Epilepsy
- Primary or secondary brain tumors – for characterization and follow-up
- Astrocytomas brain tumor using FDOPA tracer
- Dementia/Neuro degenerative diseases
- Inflammatory lesions/demyelinating diseases including vessel wall imaging



Cardiovascular:

- Ischemic heart disease
- Cardiac masses, including infective endocarditis
- Cardiac sarcoidosis/amyloidosis



Head and Neck:

- Head & neck cancers

Utilizing the new tracers used globally to accurately detect certain diseases, including but not limited to:



FDG

for epilepsy and dementia



⁶⁸Gallium-PSMA

for prostate and brain tumors



⁶⁸Gallium-DOTATATE

for body and meningioma brain tumor



FDOPA

for brain parkinsonism and various brain tumors pre/post therapy or surgery

NUCLEAR IMAGING DEPARTMENT

➤ PET/CT - Elevating reporting quality

Misr Radiology Center is equipped with advanced PET/CT machines that provide:



Top image quality using ASiR-V



Reduction of CT dose by up to 82%



Lutetium based scintillator (LBS)



Powerful standalone 128-multislice diagnostic CT

➤ PET/CT - Ensuring better patient assessment

MRC was the first site in Egypt to offer ^{68}Ga Gallium PET/CT exams to assess tumors that are not detected accurately using normal FDG PET/CT exams, such as:

To Detect :

^{68}Ga Gallium PSMA

Which is **very sensitive and specific to prostate cancer and its metastasis all over the body** and is recommended by the European association of urology guidelines

^{68}Ga Gallium DOTATATE

Which is **highly sensitive for neuroendocrine tumors** and is the replacement of the old exam ^{111}In Indium-pentetreotide (OctreoScan-Gamma Camera) and is recommended by the NCCN guidelines

➤ THERANOSTICS

BREAKTHROUGH TECHNOLOGY MRC proudly introduces for **the first time in Egypt therapeutic radioactive doses of ^{177}Lu Lutetium** based on peptide receptor radionuclide therapy (PRRT) concept. It is used in:

To Destroy :

^{177}Lu Lutetium DOTATATE

Which is indicated by the guidelines in treatment of somatostatin receptor-positive gastro-entero-pancreatic **neuroendocrine tumors**. The results of NETTER-1 trial showed that ^{177}Lu -DOTATATE had a 79% reduction in risk of progression with an estimated progression free survival of 40 months, compared to 8.4 months for high-dose (60mg) octreotide therapy

^{177}Lu Lutetium PSMA

Which is used in men with metastatic castration resistant **prostate cancer** who have progressed after standard therapies. LuPSMA phase II trial showed high response rates with PSA decline > 50% in 64% of the patients with low toxicity and improved health-related quality of life

> Nuclear Imaging Procedures



Brain Scan

Cerebral perfusion - Tumor viability - CSF flow study.



Ventilation

Perfusion lung scan for diagnosis and follow up of pulmonary embolism.



Hepatosplenic Scintigraphy

Diagnosis of functional state and activity of chronic liver diseases.



Hepatobiliary Scintigraphy Fordiagnosis of Gallbladder

Ejection fraction - acute cholecystitis - biliary tract obstruction - biliary leakage.



Digestive System

Studies include esophageal swallowing- gastric emptying - GI/T bleeding studies for meckels diverticulum and other causes of intestinal bleeding.



Dacrosintigraphy and Salivary Scintigrphy



Nuclear Cardiology

Under supervision of nuclear cardiology consultants using Tc99m MIBI for myocardial \ perfusion and LV function - Thallium201 for viability study - Assessment of myocardium after MI, PCI and surgical intervetion.



Renal Scan Urodynamics

Postoperative follow up of obstructive uropathy, renal transplant evaluation, diagnosis and follow up of acute renal failure, assessment of potential donors for renal transplantation and those

candidates for liver transplantation.

Evaluation and follow up of renaltoxicity - reno - tvascular hypertension.



Lympho Scintigraphy

Diagnosis and follow up of cases with lymphangitis or obstructive lymphodema.



Endocrine Scintigraphy

Thyroid – Parathyroid – Adrenal Glands.



Bone Scan

Diagnosis of of bone pain - metastases - bone infection and inflammation - infection and loosening of prosthesis.



Ga67 Scintigraphy

Diagnosis of infected prosthesis and follow up of lymphoma.

INTERVENTIONAL RADIOLOGY DEPARTMENT

Angio - CT:

Misr Radiology Center is proud to offer the first Angio-CT in Egypt:

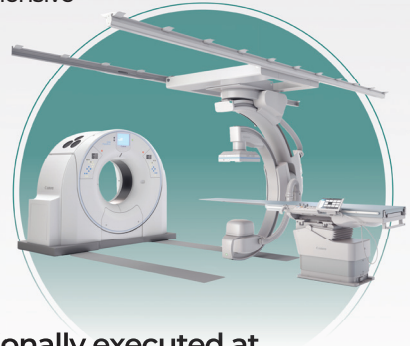
Our New Cairo branch tapped into the new era of combined imaging guidance with the most advanced 4D hybrid CT/Angiography machine, to perform numerous comprehensive diagnostic and therapeutic Interventional Radiology procedures:

1 Accurate Combined Imaging Guidance

3 Minimal Patient X-Ray Exposure

2 Excellent Anatomical & Functional Info

4 Optimum Image Quality



A wide array of IR procedures are professionally executed at MRC, including but not limited to:

US and CT guided biopsies from lung, bone, soft tissue lesions; as well as all parts of the body.

Assessment and treatment of the following:

- Thermal ablation of liver, lung, bone and renal tumors including RF and microwave ablation.
- RF ablation of benign thyroid nodules.
- Transarterial chemoembolization of hepatocellular carcinoma.
- Transarterial radioembolization of hepatocellular carcinoma.
- Percutaneous biliary drainages and stenting.
- Uterine artery embolization for uterine fibroids.
- Prostatic artery embolization for benign prostatic hyperplasia.
- Image guided percutaneous biopsies of solid organs and bone.
- Varicocele embolization.
- TIPS for Budd Chiari Syndrome.
- Splenic artery embolization for hypersplenism.
- Emergency angioembolization for GIT and genitourinary bleeding.
- Bronchial artery embolization for hemoptysis.
- Percutaneous nephrostomy and Double J stenting.
- Vertebroplasty and cementoplasty for bone tumors.

WOMEN'S IMAGING DEPARTMENT



➤ Digital 4D Mammography

Digital Contrast Enhanced Mammography

Our women's imaging unit is equipped with the most sensitive digital mammography with tomosynthesis, 3D reconstruction, as well as contrast enhanced spectral mammography.

It can detect minor lesions and fine micro-calcifications.



3D/4D Ultrasound

MRC is equipped with the most advanced ultrasound machines with the unique Elastography technology which:

- ✔ Assess the compressibility of breast lesions helping in differentiating benign and malignant lesions.
- ✔ Perform guided biopsies (FNAC and core biopsies) that are easily performed by the assistance of special adaptors in two dimensions simultaneously.


MRC provides all Ultrasound services under one roof.


Other generic advanced procedures include Doppler, Echocardiography, Musculoskeletal Ultrasound, and Ultrasound Elastography.




DEXA

High end precision DEXA machines provide precise and accurate data for comprehensive body composition analysis that includes bones, muscles and fat:

 The measurements are fast, easy, precise and straight forward.

 The data provides analysis for total body as well as regional sections such as trunk, arms, thighs and pelvic regions.

 Additionally, DEXA machines perform comprehensive bone density evaluation with precise risk calculation.



MRI DEPARTMENT

➤ MRI 1.5T



➤ MRI 3T

The MRI department at MRC offers High-End Tailored Multiparametric MR Techniques to solve difficult or advanced clinical problems in all specialties. To mention a few:

Cardiac



- Adult multiparametric cardiac studies including T1 and T2 tissue mapping
- Stress cardiac MRI studies
- Complex congenital cardiac MRI with shunt quantification
- Liver and heart iron overload quantification (**thalassemia protocol**)

Neuro



- Multiparametric MR for brain tumors
- High end MR epilepsy protocol
- High end multiple sclerosis protocol
- High end stroke protocol
- High end dementia/neuro degenerative protocol
- High end spectroscopy
- MR perfusion/tractography/functional (**paradigm and resting**)
- 3D Brain lab protocol
- Vessel wall imaging protocol
- High end shunt tube protocol + CSF volumetry measures
- MR neurography for brachial plexus
- MR neurography for lumbosacral plexus

Head & Neck



- Advanced head & neck oncology protocols
- Cochlear implant protocol
- Meniere's disease imaging protocol
- Cranial nerve imaging protocols
- Trigeminal Neuralgia Protocol
- MRI cisternography for CSF leak
- MRI sialography
- Dynamic MR angiography for vascular malformation

Body



- Multiparametric prostate
- Rectal cancer staging
- High end pancreatic protocol/liver protocol
- MR enterography
- Pelvic floor dysfunction
- Multiparametric renal
- Multiparametric urinary bladder
- MR adrenal protocol
- Hepatic iron with fibrosis and fat measures for diffused liver diseases

Breast & Pelvis



- Abbreviated breast MR screening protocol
- Tailored MR endometriosis protocol
- Functional MR imaging of the uterus
- High end MR protocol for characterization of adnexal lesions
- Tailored MR infertility protocol

MSK



- Direct MR arthrography
- MR cartiogram
- Dynamic (Kinematic) musculoskeletal MR exams
- Multiparametric MR for musculoskeletal masses
- MR neurography

Pediatric



- High end MR epilepsy protocol
- Resting functional MRI for cases of epilepsy, autism, ADHD, learning disabilities & delayed milestones
- High end multiparametric MR study for brain space occupying lesions
- MR neurography
- High end multiparametric MR study for characterization of any abdominal/pelvic/musculoskeletal mass lesions

X-RAY DEPARTMENT

➤ X-ray Digital Radiography with extra-long detector

(Whole Spine & Lower Limbs)

MRC is offering the latest X-ray technology at its newest branch that enables the measurement of:

Whole Spine



Dynamic Spine Imaging

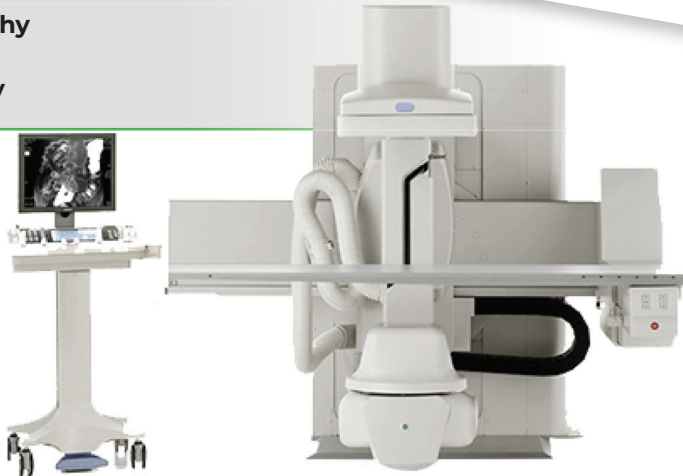


Scoliotic Angles



Alongside other specialty procedures conducted by our experienced staff of the X-ray department:

- ✓ **Barium Enema**
- ✓ **Barium Swallow or Barium Meal**
- ✓ **Barium Meal Follow Through**
- ✓ **Cystogram**
- ✓ **Hysterosalpingography**
- ✓ **IVP or IVU (Excretory urography)**
- ✓ **Fistulography**
- ✓ **Sialography**



CT DEPARTMENT

Misr Radiology Center is proud to offer latest high quality cardiac radiological imaging techniques through state-of-the-art PET/CT 128 Hybrid MDCT machine offering ideal resolution for all cardiac and coronary examinations, in addition to all other diagnostic procedures.



PET/CT 128 CT hybrid imaging system provides non-invasive, specific and sensitive evaluation of the whole body including:

- Tumor volume and burden assessment
- RECIST criteria follow up for tumor necrosis and treatment response
- Emphysema evaluation
- Virtual CT examination (virtual bronchoscopy, virtual gastroscopy and virtual colonoscopy)
- Pre and post-transplant CT protocols
- Perfusion evaluation for brain, lung and other body organs
- Arterial and venous CT angiography of both upper and lower limb



In addition to all dedicated cardiovascular examinations including:

- Low dose non-invasive coronary CT angiography for stenosis severity assessment
- Post coronary PCI and stenting assessment and follow-up
- Post CABG assessment and follow-up
- Calcium scoring assessment
- Cardiac function analysis
- Congenital heart cardiac CT imaging (low dose)
- Preoperative/Pre-catheterization assessment of cardiac valves including TAVI protocol
- One step exam «triple rule out/chest pain examination» to rule out all causes of chest pain including pulmonary embolism, dissection & coronary artery diseases



DENTAL IMAGING DEPARTMENT

Misr Radiology Center is equipped with advanced CBCT machines at New Cairo, El Khalifa El Maamoun and Nasr City branches and is proud to install the latest state-of-the-art dental imaging unit, Planmeca Viso C7 that uniquely offers:

- Ultra low dose imaging
- Large 25-30cm sensor
- Movement artefact correction
- Improved ProFace photo
- Live virtual FOV positioning
- 4D Option

➤ Dental Studies Available

3D Imaging

- Single tooth
- Single quadrant
- Single arch (mandible or maxilla)
- Both arches
- Full skull (FOV 30x30)
- Full face (FOV 14x16)
- Endo mode (voxel size 0.075 mm)
- ENT mode (Sinuses, nasopharynx and temporal bone)
- Cochlear implant protocol
- Complete TMJ analysis



2D Imaging

- Standard Panorama
- Panorama with bite-wing
- Lateral cephalometry
- P.A cephalometry
- Sinus view (Water's view)



Others

- Implant planning
- Cephalometric analysis
- Complete ortho panel
- Intra oral photography
- Extra oral photography
- 3D surgical guide design
- Full implant report
- Impression and model scan
- 3D photography
- 4D TMJ

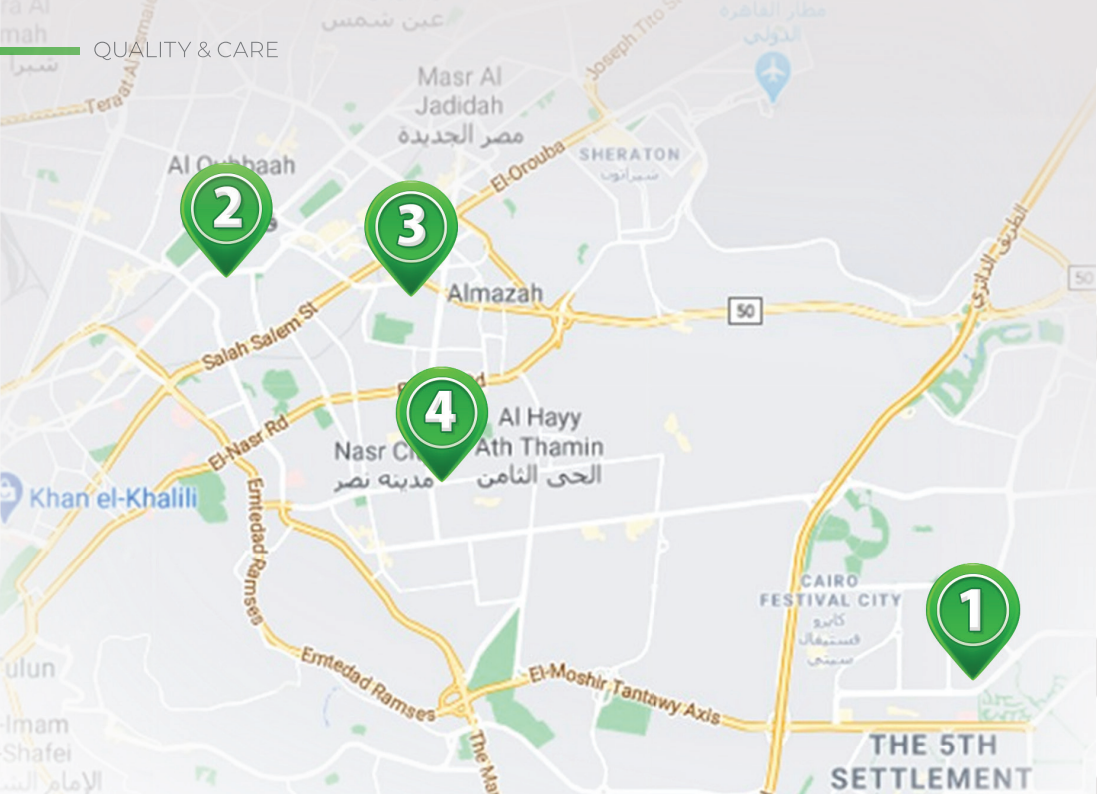


Book your home visit now!

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CALL: 19773





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