RADIOLOGY
Innovative, Comprehensive, & Patient Focused

Each year, Mayo Clinic takes care of more than 1 million patients—from all 50 states and 143 countries—many with complex health care needs. About 80 percent of patients require radiology care. That adds up to 2.1 million exams per year. Patients benefit from the breadth and depth of our care, practice-changing research and continuous innovation.

SPECIALTY / SUBSPECIALTY EXPERTISE
- Abdominal Radiology
- Breast Imaging and Interventional Radiology
- Cardiovascular Radiology
- Hospital and Emergency Radiology
- Musculoskeletal Radiology
- Neurologic Radiology
- Nuclear Medicine
- Pediatric Radiology
- Thoracic Radiology
- 3-D Anatomic Modeling
- Ultrasound Imaging and Intervention
- Vascular and Interventional Radiology

RESEARCH EXPANDS THE REACH OF RADIOLOGY
Researchers are recognized nationally and internationally for groundbreaking work on:
- High-detail imaging of the brain for Alzheimer’s disease
- Radiation dose reduction
- PET/MR for improved characterization of cancer response
- Machine Learning for identifying genomic properties of cancer
- MR-guided focused ultrasound ablation applications
- MR elastography to characterize liver disease

A TYPICAL DAY
Number of exams typically conducted across Mayo Clinic:

<table>
<thead>
<tr>
<th>Specialty</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breast Imaging</td>
<td>760</td>
</tr>
<tr>
<td>CT</td>
<td>1,545</td>
</tr>
<tr>
<td>Diagnostic Radiography</td>
<td>3,360</td>
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<tr>
<td>Interventional</td>
<td>290</td>
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<tr>
<td>MR</td>
<td>715</td>
</tr>
<tr>
<td>Nuclear Medicine</td>
<td>340</td>
</tr>
<tr>
<td>Ultrasound</td>
<td>835</td>
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ANNUAL RESEARCH
Total research (Rochester):
- Mayo Clinic Radiology ranks in the Top 8 nationally for NIH funding among radiology departments
- More than $23 million, with 74 percent from extramural sources
- 41 NIH federal research awards
- 2 foundation research awards
- 43 federal sub awards
- 49 industry awards

Radiology research publications (Enterprise):
- 963 articles
STAFF

RADIOLGOISTS 312
PHYSICISTS 29
SCIENTISTS 18 research scientists, 63 additional staff clinicians engaged in research
ALLIED HEALTH STAFF 2,126

EQUIPMENT

BREAST IMAGING SYSTEMS 58
CT SCANNERS 54
GENERAL RADIOGRAPHY SYSTEMS 422
MOLECULAR BREAST IMAGING SYSTEMS 3
MRI SCANNERS 59
NUCLEAR MEDICINE/CARDIOLOGY SYSTEMS 38
PET/CT SCANNERS 10
PET/MRI SCANNER 2
ULTRASOUND SCANNERS 187
VASCULAR INTERVENTIONAL/SPECIAL PROCEDURE SUITES 33

IMAGING INNOVATIONS ADVANCE PATIENT CARE

Mayo Clinic has a history of seeking out—or developing—imaging innovations that advance patient care. More than 40 years ago, Mayo Clinic was the first in North America to offer CT exams. Other innovations include the first 64-slice CT scanner, first dual-source CT scanner, magnetic resonance elastography and molecular breast imaging, just to name a few.

Innovations continue today:

3-D ANATOMIC MODELING Image data from patient CT or MR scans are used to build high-quality 3-D models of specific anatomical areas to guide surgical planning.

7-TELSA MRI SCANNER Mayo Clinic had the first 7T MRI scanner in North America for clinical imaging of the head and knee. This new system has the strongest magnetic field available for clinical use, which produces higher-resolution imaging.

C-11 CHOLINE PET/CT Mayo Clinic was the first U.S. institution approved to manufacture and administer C-11 choline injections to perform choline PET/CT, which can help identify recurrent prostate cancer.

COMPACT 3T MRI SCANNER Mayo Clinic is home to the world’s first Compact 3T MRI scanner. Its novel technology has the promise to expand patient access to much-needed MRI exams around the world.

MOLECULAR BREAST IMAGING Mayo Clinic developed and is among the first to offer patients functional imaging for breast cancer using a specially designed gamma camera.

ONCOLOGIC ABLATION Spine Ablation and MR-guided Focused Ultrasound Ablation are two of the many specialized ablation procedures offered by Mayo Clinic radiologists in the treatment of tumors.

PET/MRI Mayo Clinic was one of the first institutions to install a PET/MRI scanner with new PET detector technology. PET/MRI will enhance diagnostic capability for select clinical indications.

EDUCATION INTEGRATED INTO PRACTICE

Each year, Mayo Clinic School of Graduate Medical Education offers 21 residency positions and 31 fellowship positions in nine radiology specialty areas. The positions are highly sought after because of the high case volume, diverse case pathology and a consulting staff that embraces education.

Bachelor’s, Associate and certificate allied health education program offerings include:

> Nuclear Medicine Technology (NMT)
> Radiography
> Sonography (US)
> Vascular Interventional Radiography (VIR)

Online professional enhancement courses are available for the following:

> Computed Tomography (CT)
> Magnetic Resonance Imaging (MRI)
> Positron Emission Tomography (PET)

FOR MORE INFORMATION ON RADIOLGOY AT MAYO CLINIC

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ROCHESTER 507-284-0887
mayoclinic.org/departments-centers/radiology/overview

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