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

**ANNUAL RESEARCH**

Total research (Rochester):

- Mayo Clinic Radiology ranks in the Top 10 nationally for NIH funding among radiology departments
- More than $19 million, with 80 percent from extramural sources
- 32 NIH federal research awards
- 4 foundation research awards
- 37 federal sub awards
- 39 industry awards

Radiology research publications (Enterprise):

- 730 articles
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.

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 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 and/or certificate programs are offered in sonography, nuclear medicine and radiography. Current program offerings include:

- Echocardiography
- Medical Physics
- Nuclear Medicine Technology (NMT)
- Positron Emission Tomography (PET)
- Radiation Therapy (RT)
- Radiography
- Sonography (US)
- Vascular Interventional Radiography (VIR)