

## The Stand-Up MRI™

- The Ultimate in Openness, Quiet and Comfort
- 0.6 Tesla Performance:  
Short Scans, High Resolution
- Scan Patients in Positions of Symptoms or Pain
- Weight-Bearing MRI With Patients Sitting or Standing
- Scan Patients in Flexion and Extension
- Scan Patients Recumbent
- Full Range of Whole-Body MRI Applications

The Stand-Up MRI™ is the only whole-body MRI with the ability to perform Position Imaging™ (pMRI™). Patients can be scanned in a multitude of positions, including standing, sitting, flexion, extension, rotation, and lateral bending, as well as the usual recumbent positions used in conventional “lie-down” MRI scanning. For the first time, patients can be scanned in weight-bearing positions and in their positions of symptoms or pain.

The Stand-Up MRI™ is the ultimate in openness, the most non-claustrophobic whole-body MRI scanner in the industry. Patients can walk into the scanner, have their scans done, and walk out. There is nothing directly in front of their faces or over their heads that can cause them to experience a “closed-in” feeling. Highly claustrophobic patients who were unable to tolerate other MRI scanners, some described as “Open” MRIs, have traveled hundreds of miles to be scanned in a Stand-Up MRI™. These patients were greatly relieved to have finally successfully completed an

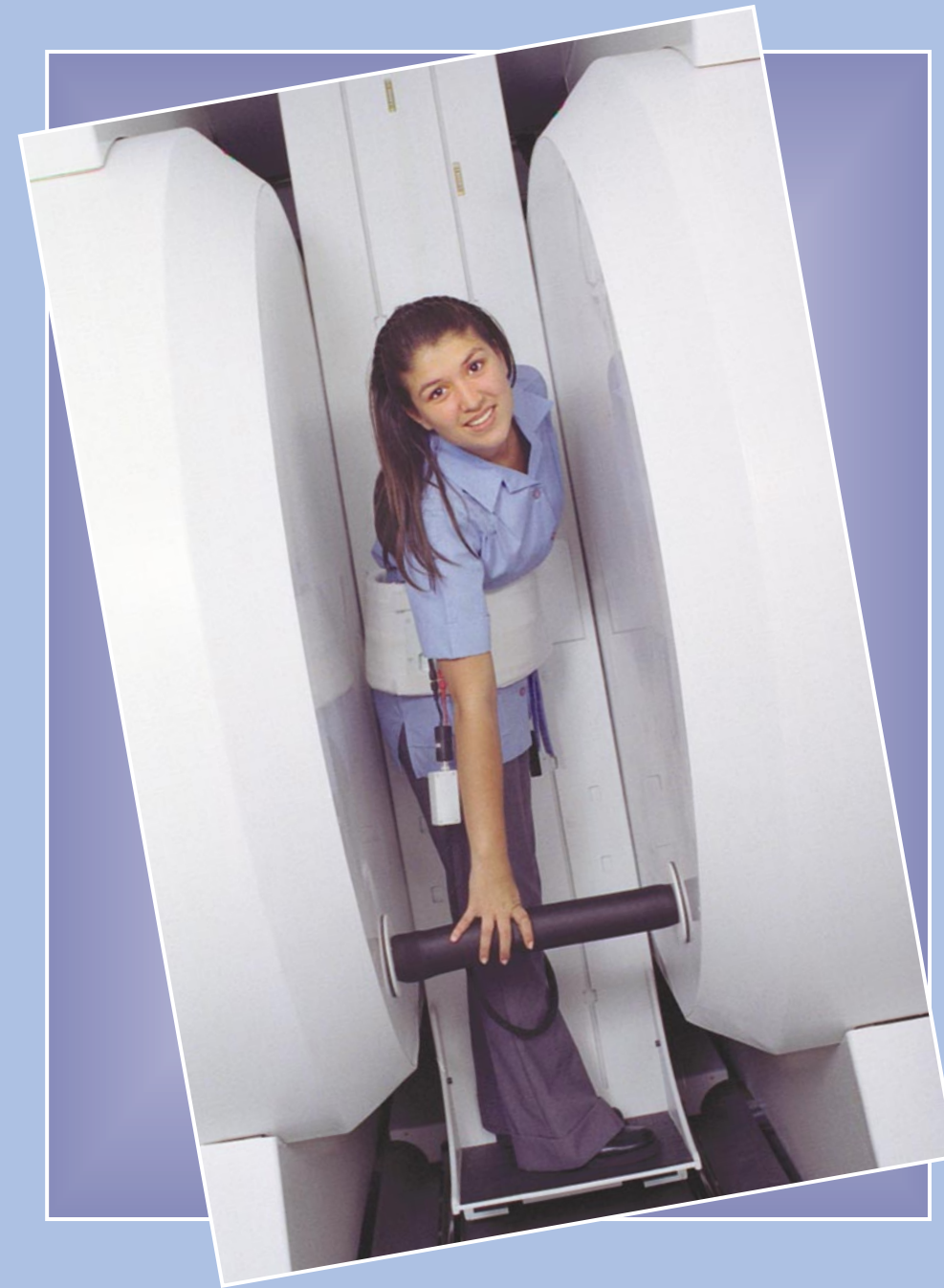


MRI examination. In addition to its extraordinary openness, the Stand-Up MRI™ is unusually quiet. Patients can comfortably sit and watch a favorite program on a TV monitor mounted on the scanner room wall.

The Stand-Up MRI™ features an MRI-compatible, motorized, three-dimensional patient positioning system engineered to

be fully functional inside the scanner's magnetic field. Patients can be positioned horizontally, just as they would be in any conventional MRI scanner, or upright, either standing or sitting. An elevator mechanism raises or lowers the patient as is necessary to position the region of interest precisely at the center of the magnet; the ceiling and floor are recessed to accommodate the system's full range of travel. For the first time, the entire length of the spine can be imaged in its normal weight-bearing posture, even with patients touching their toes in full flexion of the lumbar spine. The patient positioning system is tilted back slightly (approximately five degrees) in order to stabilize the patient and avoid body motion. The precise position of the patient is read back through the computer user interface, enabling the scanner's software to automatically account for the orientation of the patient. Patients can be positioned facing one of the poles, which enables lateral positioning of the arms, legs and lumbar spine.

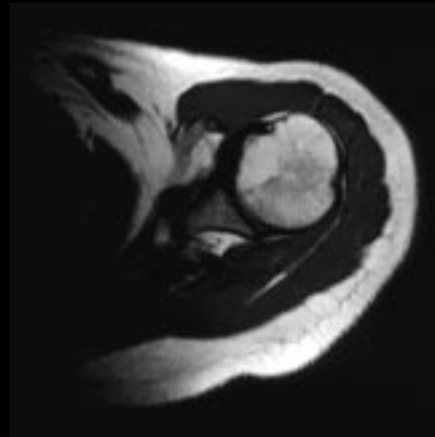
The Stand-Up MRI™ employs 0.6 Tesla technology, a proven platform for exceptional scanning speed and high-resolution imaging. Its patented Iron-Circuit™ magnet, which accounts for the generous patient gap, strictly confines the fringe field, increasing patient safety and eliminating the need for costly magnetic shielding. The Stand-Up MRI™ features a transaxial magnetic field, i.e. the direction of the magnetic flux is perpendicular to the orientation of the patient's body. The combination of a transaxial magnetic field and any of its full complement of wraparound RF receiver coils is one of the key reasons the Stand-Up MRI™ produces images of outstanding quality. Further, its full array of software features and state-of-the-art pulse sequences account for the Stand-Up MRI's remarkable diagnostic precision.



# Stand-Up MRI™

**FONAR**

# Stand-Up MRI™ ...



TE = 25  
TR = 560  
4.0 mm slice  
FOV = 20.0 cm  
NEX = 2  
Scan Time = 3:37



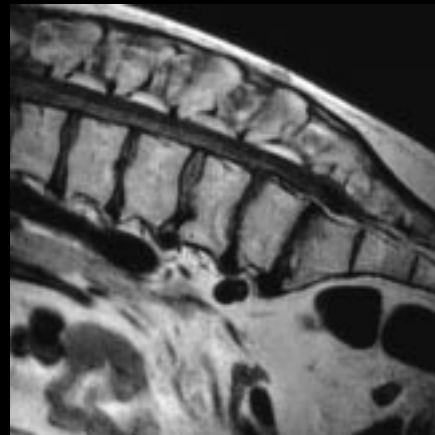
FSE (ETL = 13)  
TE = 140  
TR = 3262  
4.0 mm slice  
FOV = 30.0 cm  
NEX = 2  
Scan Time = 3:13



TE = 30  
TR = 520  
3.5 mm slice  
FOV = 16.0 cm  
NEX = 1  
Scan Time = 3:27



FSE (ETL = 13)  
TE = 140  
TR = 4000  
5.0 mm slice  
FOV = 30.0 cm  
NEX = 2  
Scan Time = 3:56



FSE (ETL = 3)  
TE = 35  
TR = 748  
4.0 mm slice  
FOV = 28.0 cm  
NEX = 4  
Scan Time = 5:34



FSE (ETL = 3)  
TE = 17  
TR = 672  
5.0 mm slice  
FOV = 30.0 cm  
NEX = 2  
Scan Time = 2:22



FSE (ETL = 15)  
TE = 160  
TR = 4225  
4.0 mm slice  
FOV = 16.0 cm  
NEX = 2  
Scan Time = 4:07



FSE (ETL = 15)  
TE = 160  
TR = 4000  
4.0 mm slice  
FOV = 24.0 cm  
NEX = 2  
Scan Time = 3:41



FSE (ETL = 13)  
TE = 140  
TR = 4000  
5.0 mm slice  
FOV = 28.0 cm  
NEX = 2  
Scan Time = 4:13

## ...An MRI Breakthrough