

MRACCESS INC.

MRI for the world

ACCESSIBLE MRI MARKET

OCTOBER 2022



aMRI SYSTEM MARKET POSITION

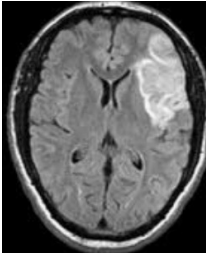

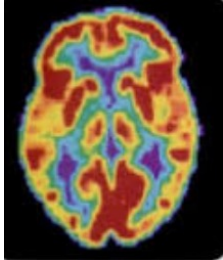


- The accessible MRI (*aMRI*) System will be well positioned in the clinical diagnostics imaging market by making MRI more accessible and more affordable than any alternative
 - aMRI scanners are powerful, small footprint, whole body MRIs that can image any part of the body, including head, trunk, limbs, breast and even bones and teeth
 - aMRI scanners, like all MR imaging devices, produce images from safe magnetic and radiofrequency fields, and not harmful ionizing radiation such as used in CT and X-Ray
- Semi-autonomous aMRI scanners are networked to acquire, archive and curate large image data repositories to strengthen machine learning and AI driven diagnostics managed remotely from centralized radiological service centers

MR ACCESS INC. networks our patented semi-autonomous scanners to our proprietary AI-assisted centralized radiology services, creating a low-cost total MR imaging solution currently without any direct competitor

MEDICAL DIAGNOSTIC IMAGING

- Diagnostic imaging allows medical examiners to noninvasively observe the anatomy and physiology of a patient to aid diagnoses and track therapies
- A number of imaging modalities allow radiologists and other health professionals to view the structures and function of the body in health, disease and therapeutic intervention
- Of these are basic x-ray radiography, computed (x-ray) tomography (CT), ultrasound, and magnet resonance imaging (MRI)
- It's difficult to imagine medical diagnostics today without diagnostic imaging

MEDICAL DIAGNOSTIC IMAGING MODALITIES

| | Magnetic Resonance Imaging (MRI) | Computed Tomography (CT) | Positron Emission Tomography (PET) | X-Ray | Ultrasound |
|-----------------------------|---|---|--|--|--|
| Description | MRI uses magnetic fields and radio waves, not ionizing radiation, to create detailed images from inside of the body | CT devices combine a series of x-ray projections from different angles to compute cross-sectional images of the anatomy. | PET Scans use radioactive contrast reagents (called tracers) and a scanning device to show how organs and tissues are functioning | X-ray uses ionizing radiation to make 2D projected images. X-rays have inherently low resolution | Ultrasound uses high frequency sound waves to produce images of organs and structures within the body. |
| Current Diagnostic Examples | <ul style="list-style-type: none"> • Aneurysms • Multiple Sclerosis • Stroke • Spinal cord disorders • Tumors • Blood vessel issues • Joint or tendon injuries | <ul style="list-style-type: none"> • Injuries from Trauma • Bone fractures • Tumors and cancers • Vascular disease • Heart disease • Infections | <ul style="list-style-type: none"> • Cancer • Heart disease • Coronary artery disease • Alzheimer's disease • Seizures • Epilepsy • Parkinson's disease | <ul style="list-style-type: none"> • Bone fractures • Arthritis • Osteoporosis • Infections • Digestive tract problems • Breast cancer screening (mammography) | <ul style="list-style-type: none"> • Gallbladder disease • Breast lumps • Genital/ prostate issues • Joint inflammation • Blood flow problems • Monitoring pregnancy |
| Issues and Risks | Currently very expensive to cool magnets, transport, install, maintain, and operate the devices. | Exposure to ionizing radiation. | Exposure to ionizing radiation. | Exposure to ionizing radiation and low image resolution. | Image resolution and field of view are limited. |
| Image Samples |  <p>Acute Stroke</p> |  <p>Abdomen</p> |  <p>Normal Brain</p> |  <p>Spine</p> |  <p>Fetus</p> |

MRI MARKET SEGMENTATION

- The quality of an MR image is directly proportional to the field strength of the MRI magnet.
- Most clinical MRI devices today use 1.5T magnets, considered to be the best compromise between cost and acceptable, diagnostic quality performance.
- Our 1.0T aMRI system is targeting the mid-field market for the most competitive cost-to-performance ratio. With new technology improvements included, the image quality of the aMRI system will match current clinical systems.

| MRI MARKET SEGMENTATION | |
|-------------------------|----------------|
| Tesla | Field Strength |
| < 0.1 | Ultra Low |
| 0.2 – 0.5 | Low |
| 1.0 -1.5 | Medium |
| 3.0 | High |
| 7+ | Ultrahigh |

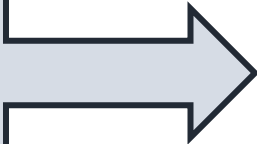
aMRI System scanners will offer diagnostic quality images from a much smaller footprint and at a much lower cost than the current installed base of clinical systems.

MRI MARKET

BEST & SAFEST MEDICAL DIAGNOSTIC IMAGING MODALITY

THE *aMRI SYSTEM* IS A BLUE-SKY MARKET OPPORTUNITY: OUR SYSTEM WILL INCREASE SHARE FOR MRI FROM OTHER MEDICAL IMAGING MODALITIES AND PIONEER NEW MARKETS FOR MRI

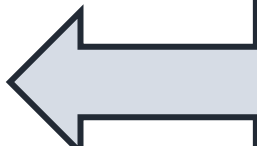
BETTER IMAGE
QUALITY THAN X-
RAY AND ULTRA-
SOUND



MR ACCESS INC. brings the power of MRI to two new markets:

- 1) More affordable and frequent MRI for more patients in existing markets, (e.g., doctors' offices and drug stores).*
- 2) MRI access for 70% of the world with no MRI.*

SAFER THAN X-RAY
AND CT

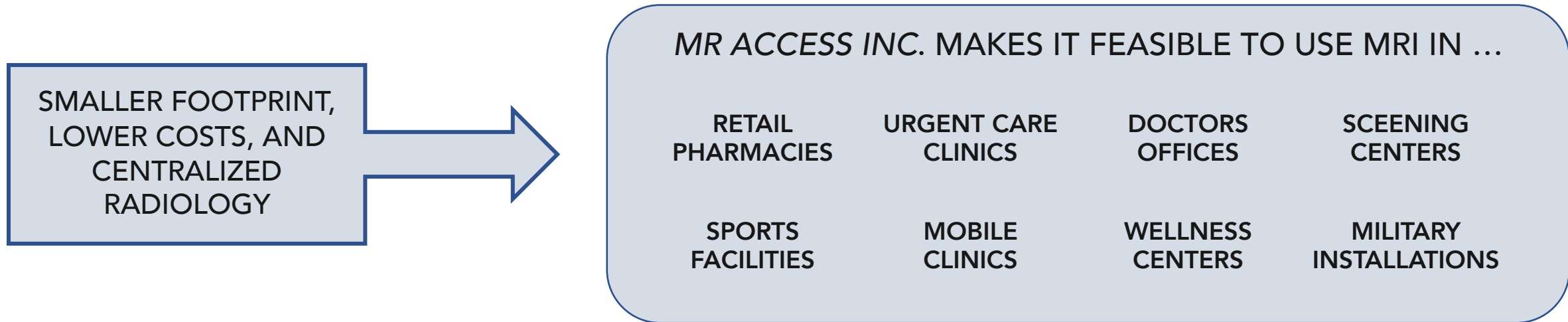


MRI MARKET

NEW APPLICATIONS FOR MRI

New Market Applications for MRI

- *aMRI System* scanners will be significantly smaller than clinical MRI devices in operation today, will cost much less to purchase and maintain, and will be networked to a centralized radiology resource center and proprietary AI diagnostics applications



SUPPLY MRI SCANNERS

ACCORDING TO THE WORLD HEALTH ORGANIZATION (WHO), TWO-THIRDS OF THE WORLD'S POPULATION DOES NOT HAVE ACCESS TO MRI FOR BIOMEDICAL SCIENCE AND DIAGNOSTICS.¹ THE WHO LISTS MRI ACCESSIBILITY AS A TOP GLOBAL HEALTH PRIORITY²

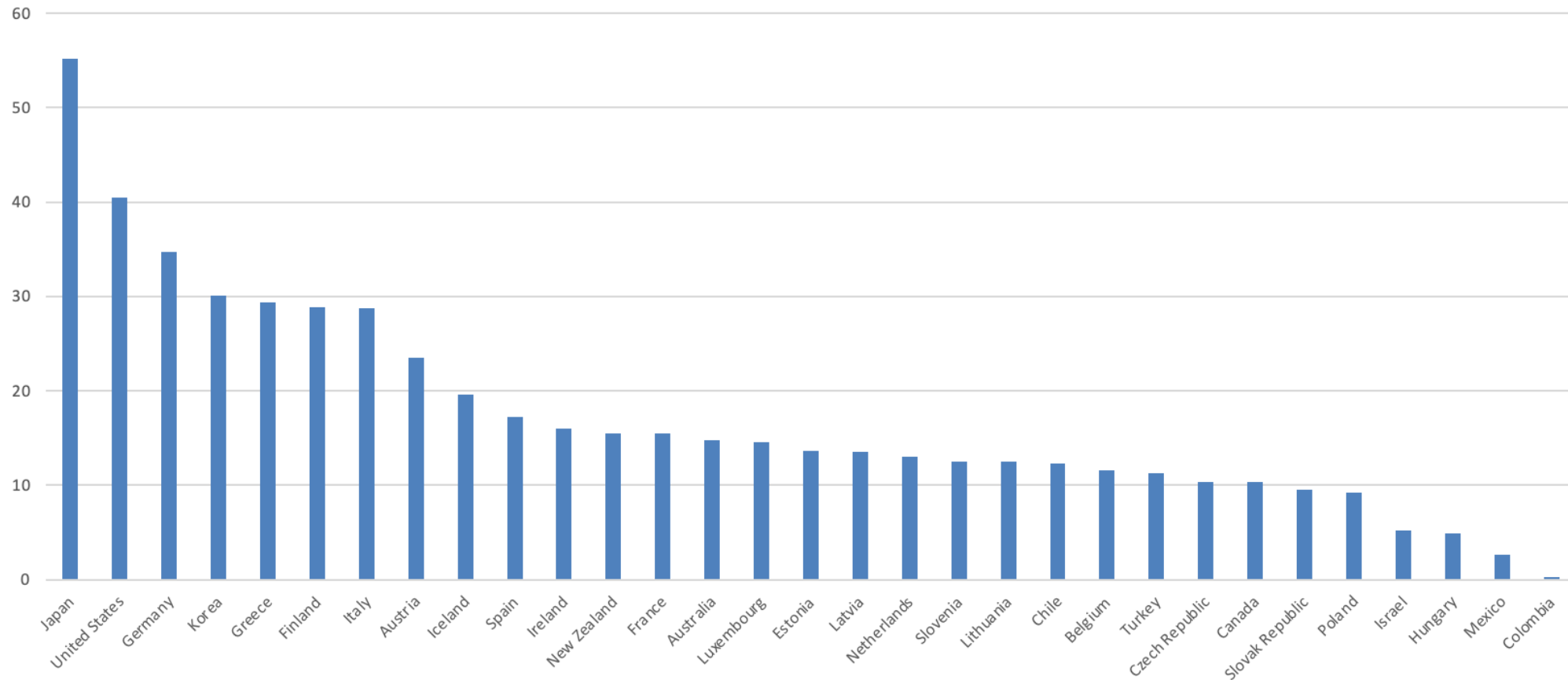
- As of 2017, there were approximately 36,000 MRI machines in service globally, most of which were in high-income countries. ²
- Approximately 2,500 new MRI machines are sold annually.
- Many MRI machines more than seven years old are often replaced or refitted.

(1) Defined primarily by geographic proximity; World Health Organization, 2017

(2) *Accessible Magnetic Resonance Imaging: A Review (Journal of Magnetic Resonance Imaging, 2019 Geethanath & Vaughan*

SUPPLY MRI SCANNER GLOBAL DISTRIBUTION

NUMBER OF MAGNETIC RESONANCE IMAGING (MRI) UNITS IN SELECTED COUNTRIES AS OF 2019 (per million population)

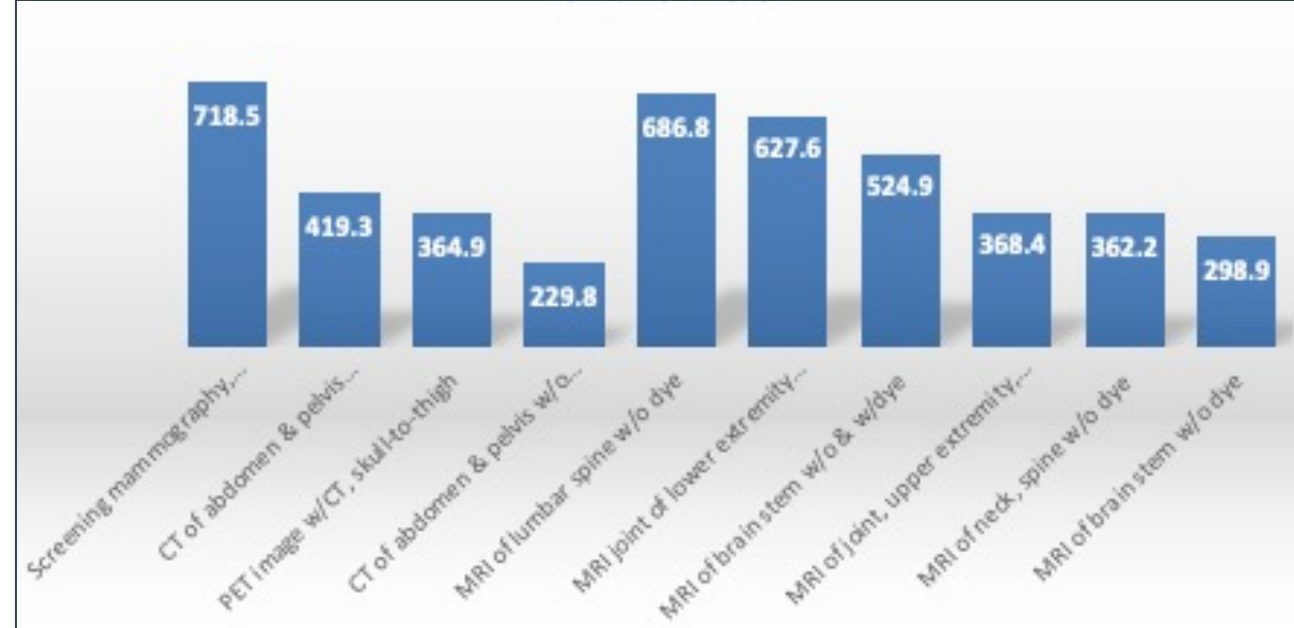


Source: OECD 2019

MARKET DEMAND FOR MEDICAL IMAGING

- The global market demand for medical imaging devices is estimated to reach \$44 billion by 2025, representing a CAGR of 4.6% from 2018-2025 ¹

MOST COMMON RADIOLOGY PROCEDURES AT IMAGING CENTERS IN THE U.S. IN 2018, BY TOTAL CHARGES



Statista estimates; Grand View Research; 2019

MARKET DEMAND FOR MRI

- Japan has an excellent healthcare system, and Japanese citizens have a longer life expectancy than any other country as a result. The system prioritizes preventative care instead of reactive care and offers free screening tests for certain illnesses₁
- If all other countries aimed to provide similar healthcare services as as Japan, an additional 400,000 MRI scanners would be needed throughout the world

Note: (1) Fortune Business Insights 2019

aMRI MARKET OPPORTUNITIES

- People are taking more control of their own health, resulting on increasing spending on wellness
- The “global wellness economy” is estimated to be \$4.4 trillion, including \$375 billion for prevention and personalized medicine

COVID-19

- Many long-term Covid-19 illnesses, especially brain disorders, can only be seen by MRI
- Other ailments, such as heart disease, will require frequent imaging; MRI is the only imaging modality safe enough for regular use and clinically useful



COVID-19 (coronavirus): Long-term effects

COVID-19 symptoms can sometimes persist for months. The virus can damage the lungs, heart and brain, which increases the risk of long-term health problems.

GLOBAL WELLNESS ECONOMY: \$4.4 trillion in 2020



Note: Numbers do not add to total due to overlap in sectors.
Source: Global Wellness Institute

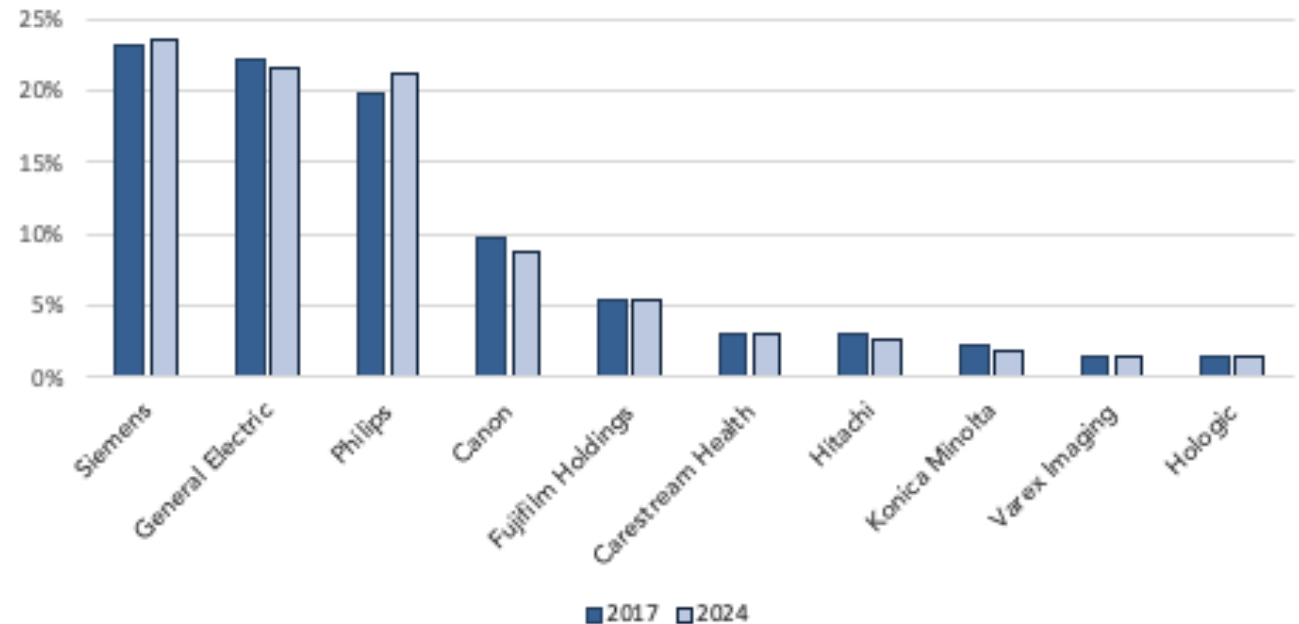


COMPETITION

AS GLOBAL DEMAND FOR MEDICAL IMAGING CONTINUES TO INCREASE, CAPITAL INVESTMENT INTO THIS MARKET SEGMENT IS ACCELERATING

- The global diagnostic imaging market is dominated by three companies which combine for approximately 66% market share.
- These three companies are German Siemens, U.S.-based General Electric Healthcare, and Philips from the Netherlands.
- GE and Siemens have historically been slow to innovate due to high profits generated from their MRI sales and maintenance contracts.

GLOBAL TOP 10 COMPANIES BASED ON DIAGNOSTIC IMAGING MARKET SHARE IN 2017 AND 2024



COMPETITION (Continued)

- Siemens and GE offer new 0.5T MRI systems in an effort to trim system costs and footprint. Their approach however is still conventional with liquid Helium cooled magnets and dependency on modern, reliable infrastructure and on-site expertise to use and maintain these systems. By these factors, competition from these major vendor systems is minimal.
- Minor vendors include Time Medical, a Hong-Kong based company that has been in business since 2006 but has yet to establish a viable market share using more conventional technologies to pursue a few niche applications. A newcomer, Hyperfine has generated a lot of press for their significant start-up fund raising and their portable, bedside, head-only magnet. But with a .06T magnet, it's imagined clinical utility will be significantly limited compared to magnets in use in hospitals today. By physics alone, in terms of signal-to-noise (image quality) the aMRI system will be 16.67 times more powerful.

aMRI SYSTEM COMPARISON WITH OTHER LOWER COST, SMALLER FOOTPRINT MRI DEVICES

MEANS OF COST & SIZE REDUCTIONS


| Lower Cost, Smaller Footprint MRI Devices | Functionality/ Field Strength ₁ | Reduced Field Strength (Lower Image Quality) | New Magnet Technology | Cloud Integration and AI Assisted Diagnostics | Centralized Radiology Resources |
|---|--|--|-----------------------|---|---------------------------------|
| aMRI System | Full Body 1.0T | | X | X | X |
| Hyperfine | Full Body 0.06T | X | X | | |
| Siemens Free Max | Full Body 0.5T | X | | | |
| Esaote C-Scan | 0.2T Extremities Only | X | | | |
| GE | 0.5T | X | | | |
| University Hospital Leiden Open Source | 0.05T | X | | | |
| Deep Spin | Head and Knee Only | X | NA | X | |

Uniquely, the aMRI System integrates patented novel MR image creation & reconstruction technology and connects networked devices to our proprietary cloud-based AI analytics programs to produce full body and diagnostic quality clinical images

MR ACCESS INC. CO-FOUNDERS' PUBLICATION

- MR Access Inc. co-founders, Sairam Geethanath and J. Thomas Vaughan published a well-cited paper which defines "accessible MRI" for the industry and demonstrates the need for accessible MRI throughout the world

Accessible Magnetic Resonance Imaging: A Review

Sairam Geethanath, PhD,*  and John Thomas Vaughan Jr. PhD

Published by the *International Society for Magnetic Resonance in Medicine*, 2019

A full copy of this article can be downloaded at the following link:

https://www.dropbox.com/s/v1fveqw6roydggs/SG_JMRI_2019.pdf?dl=0