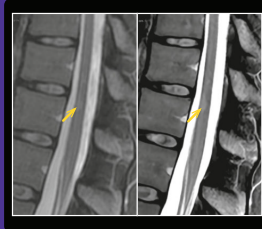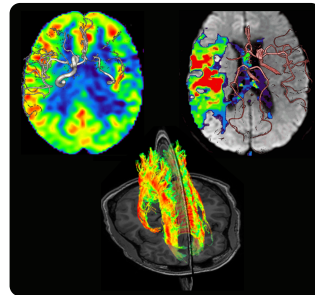# AI Deep Learning Technology AIR™ Recon DL

Say goodbye to grainy images and long exam times. SIGNA™ Hero introduces a new AI Deep Learning based reconstruction technique (**AIR™ Recon DL**) that removes unwanted signals from the MR-raw data. By doing so, we get sharper, clearer, and more accurate MR images at shorter scan times. This translates to easy and confident diagnosing for the radiologist and better patient experience. AIR™ Recon DL is available for all patients, exams, contrast, 2D-, 3D- and motion corrected imaging.
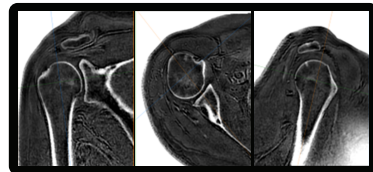

Neuro MR Imaging

MRI of the brain can be used to diagnose stroke, detect multiple sclerosis, and assess brain injury from trauma. With the new powerful 3T MRI, SIGNA™ Hero, AsiaMedic will be able to:

···→ use Artificial Intelligence software to improve image quality & diagnosis

···→ provide guidance on treatment for neurovascular disorders, including ischemic strokes, arteriovenous malformations (AVMs), and intracranial haemorrhage

···→ use technology to identify hard-to-detect microbleeds

···→ enable monitoring of cerebral microangiopathy and traumatic brain injury
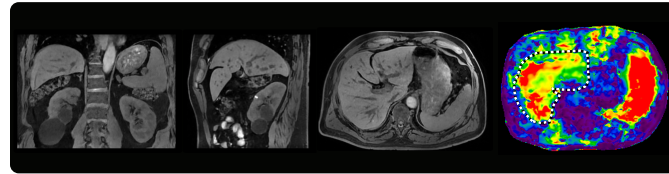
Musculoskeletal MR Imaging

Taking an MRI image of a patient's musculoskeletal anatomy is beneficial to evaluate soft tissue near and around bony anatomy. This can be particularly useful for patients with sports-related an work-related injuries.

···→ AI software specific to bony anatomy (e.g. oZTEO) to improve image quality and diagnosis

···→ blanket-like coils to improve the patient's comfort during the scan, for all patient sizes and body parts

···→ Deep Learning software to enable sharp images (e.g. PROPELLER DL) despite any patient movement during the scan

Abdominal and Liver MR Imaging

An MRI can assess disorders of the abdomen and liver such as hepatitis, haemochro-matosis, fatty liver disease, blood flow and tumour detection.
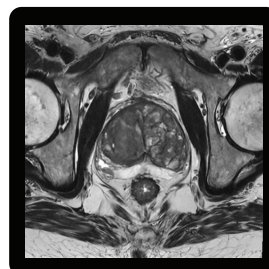
For abdominal imaging, the AI software and blanket-like coils allow for:

···→ improved patient comfort

···→ free breathing during the examination

···→ images that can quantify the liver's fat fraction and stiffness for possible detection of fibrosis or liver cirrhosis

Prostate MR Imaging

3T MRI is used for early detection of cancer in patients with elevated PSA and to stage and monitor prostate cancer.

Turn long scan times and invasive rectal MR-Coils into faster and more accurate prostate exam. A prostate exam at AsiaMedic will:

···→ guarantee patient comfort

···→ reduce scan times and will be completed in less than 15 minutes

···→ assure more accurate images

···→ improve diagnosis and staging with automated reporting with **PROView**

AsiaMedic Imaging Centre

Address:
350 Orchard Road #08-00
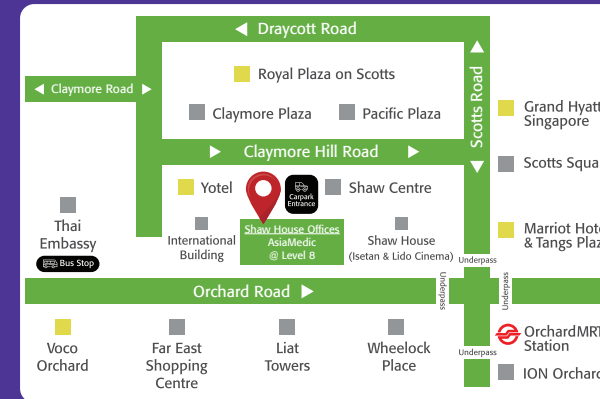Shaw House
Singapore 238868

Operating Hours:
Mon to Fri: 8.30am to 5.30pm
Sat: 8.30am to 12.30pm
Sun and PH: Closed

Office Tel: (65) 6789 8888

WhatsApp: (65) 9863 0032

Website: https://www.asiamedic.com.sg
Email: info@asiamedic.com.sg

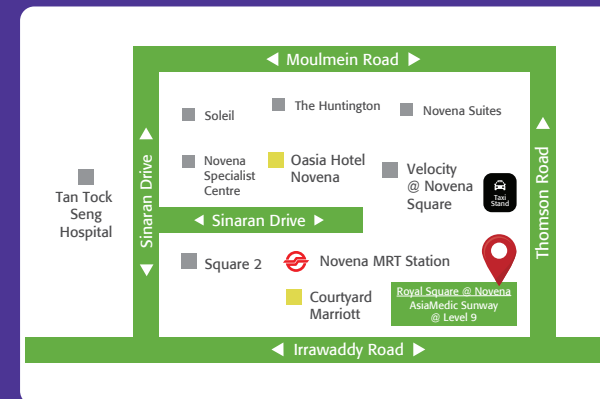## AsiaMedic Sunway Imaging

Address:
101 Irrawaddy Road #09-01
Royal Square Medical Centre
Singapore 329565

Operating Hours:
Mon to Fri: 8.30am to 5.30pm
Sat: 8.30am to 12.30pm
Sun and PH: Closed

Office Tel: (65) 6422 6688

WhatsApp: (65) 8339 9072

Email: info_novena@asiamedic.com.sg

ASIAMEDIC Imaging Centre   ASIAMEDIC SUNWAY IMAGING

Introducing our latest MRI machine

SIGNA™ Hero 3T

First in Asia Pacific

Powered by
AI Deep Learning &
Patient Comfort Technology

About AsiaMedic

Launched in 1997, AsiaMedic is the leading healthcare provider in Singapore. Patients come to AsiaMedic for One-Stop Health Screening and Advanced Medical Imaging services.

- **One-stop solution** for comprehensive health screening, equipped with evidence-based medical knowledge and advanced technology

- **Advanced diagnostic imaging** includes MRI, CT, bone densitometry (DEXA), ultrasound, mammography, and X-ray

- **Nuclear medicine (PET/CT),** used for cancer diagnosis and staging. We provide cancer imaging with one of the industry's most reliable scanners which incorporates a PET scanner with a multi-slice CT scanner

- Other services include an Aesthetic Clinic and International Family Clinic

What is Magnetic Resonance Imaging (MRI)?

MRI uses powerful magnetic and radio frequencies to produce detailed images of organs and tissues inside the body. MRI is a safe and non-invasive procedure and uses no ionising radiation, which is the radiation used in x-ray and CT. The imaging is created by using magnetic fields and radio frequencies to produce the necessary anatomical images for accurate diagnosis.

MRI is an advanced imaging technology that can be used to accurately view, diagnose, and monitor diseases and abnormalities in all regions of the body.
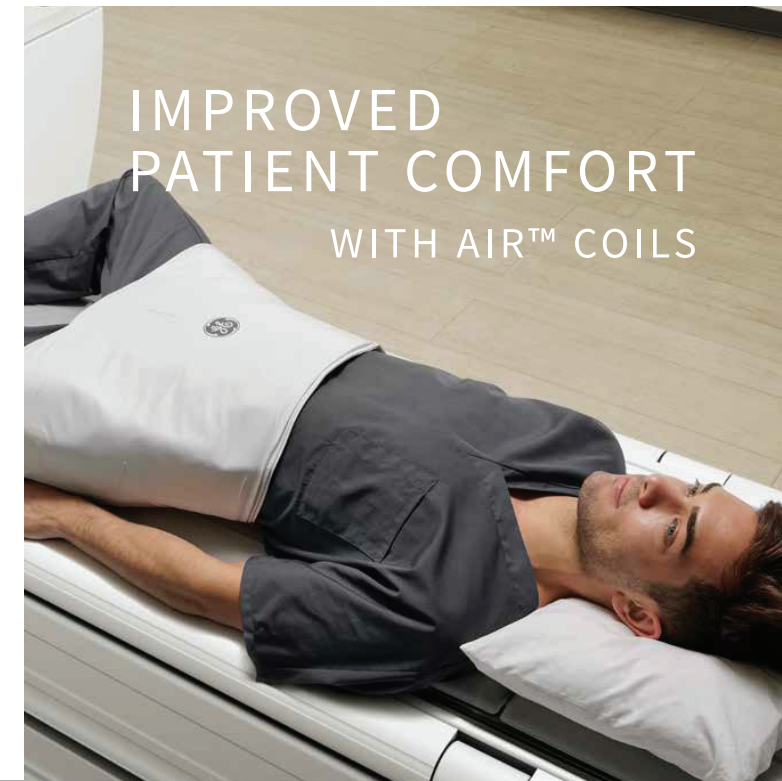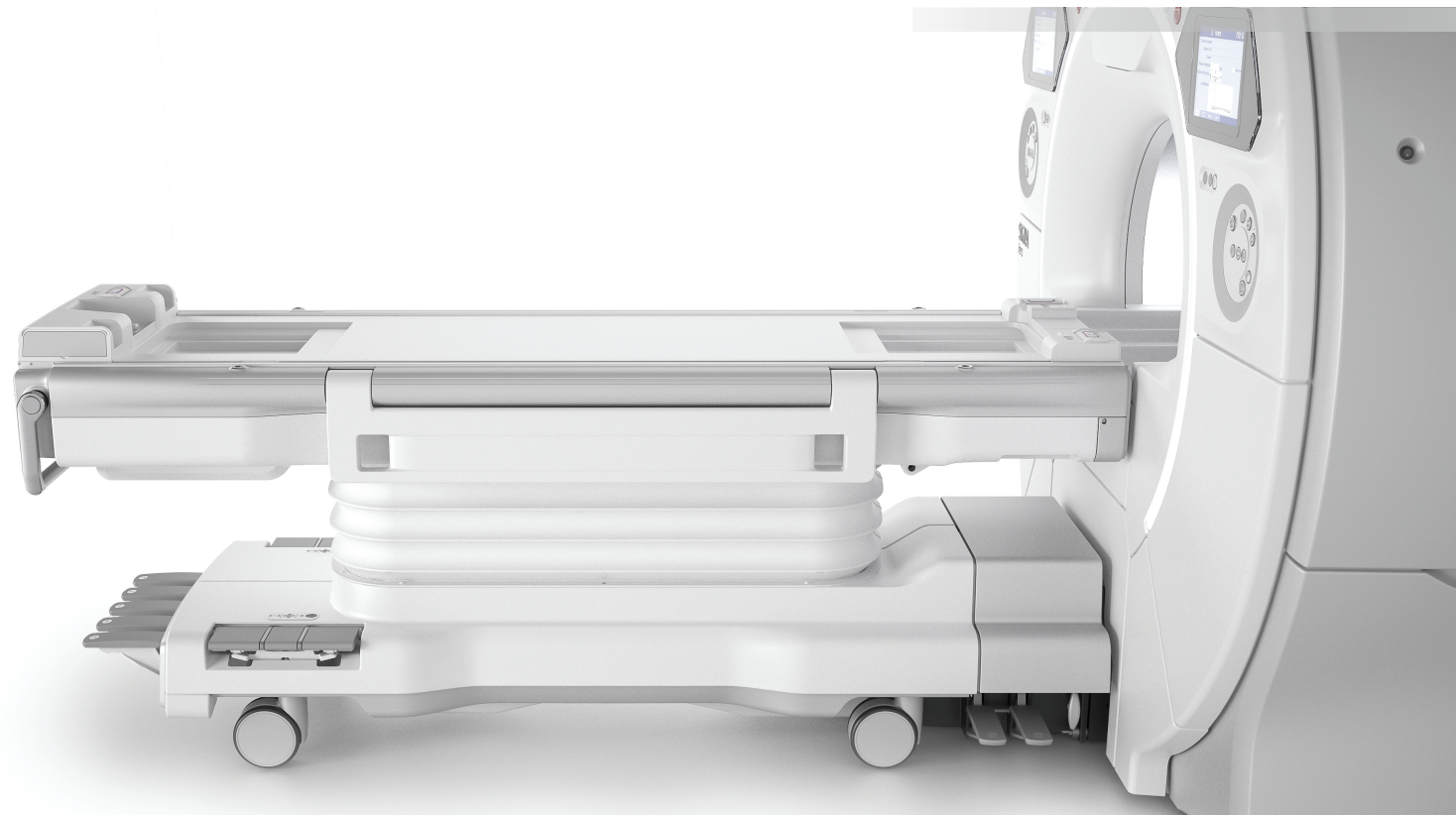
Benefits

AI Deep Learning & Image Quality

- **Improved image quality and diagnostic confidence** for all exams with sharper images enabled by powerful hardware and AI Deep Learning, **AIR™ Recon DL 2D & 3D**

- **Consistent high-quality results** with motion insensitive AI Deep Learning technology, **PROPELLER DL**

- **New diagnostic capabilities** with CT-like MR bone imaging enabled by new powerful hardware and advanced imaging techniques, **oZTEo**

- **Whole body needle free examinations,** with the non-contrast MR imaging package, **Inhance**

Patient comfort with wide bore and AIR™ Coils

- **More comfortable and calming patient experience** with wide bore magnet and relaxing examination room design

- **More adaptive patient positioning and comfort** with unique Patient Comfort Technology

- **Reduced patient time on the table** with AI Deep Learning scan time reductions

- **Pediatric with AIR™ Coil,** tailored to accommodate the diverse anatomy of children

IMPROVED PATIENT COMFORT
WITH AIR™ COILS

Patient Comfort Technology

During an MRI exam, MR-Coils are placed on the patient. SIGNA™ Hero introduces a new unique coil technology, AIR™ Coils which are designed to be ultralight and flexible, almost like a blanket. These **Multi-Purpose AIR MR-coils** can wrap around any anatomy and guarantee optimal patient comfort and image quality. The AIR™ Coils adapt to the patient, instead of having the patient adapt to the coil.