

# SIGNA™ Premier *Evo*

## Open up



GE HealthCare



# Enhance patient experience

Transform your legacy MR system to enhance patient satisfaction.

- Enhance patient satisfaction and comfort by upgrading from a **60 cm bore to a wider 70 cm** bore
- **Feet-first** scanning helps **reduce claustrophobia** by **90%\***
- Unique lightweight, flexible **blanket-like AIR™ Coils** are **50% lighter** than conventional coil technology, helping patients **feel more comfortable**

\*Claustrophobia rate comparison head first/feet first.



# From Legacy 60 cm ... to Wide Bore SIGNA™ Premier Evo

60 cm Narrow-Bore Magnet      **70 cm Wide-Bore Aperture, *Same Magnet***

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**AIR™ Recon DL**  
bilateral IRDs

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48 x 48 x 48 Field of View      **50 x 50 x 50** Field of View  
23-40 mT/m, 80/150 T/m/s Gradient      Gradient up to **80 mT/m, 200 T/m/s**  
8, 16 or 32 RF Channels      **146 Channel** Digital RF Architecture

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350 lbs–159 Kg Max Patient Weight      Max Patient weight **550lbs.–250Kg**  
Detachable Table      **eXpress™** Detachable Table with  
**60ch AIR Posterior Array**

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48ch Head, 30ch AA, 20ch M and 21ch L MP **AIR™ Coils**  
**Head-to-Toe** Whole-Body Imaging & **Feet-First Scanning**



# Transform your legacy MR system to enhance patient satisfaction

## Effortless Workflow with AIR™ Coils

### From **legacy coils**

Almost each anatomy requires large and bulky coils



### To AIR™ Coils



Light weight AIR™ Coils

**Improved patient comfort**

Flexible AIR™ Coils design

**Increased adaptability**

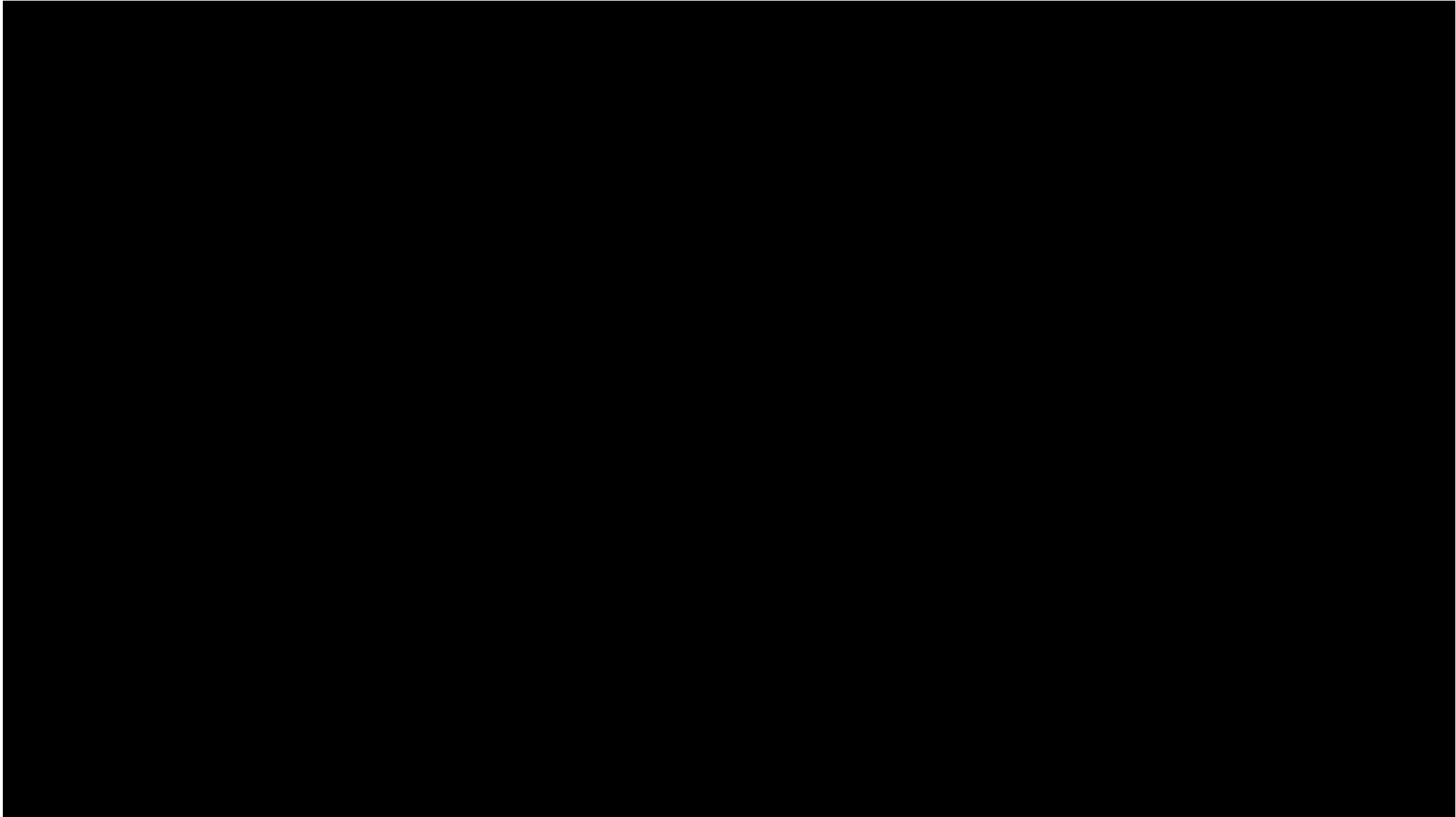
Higher channel count in FOV enables more acceleration for

**Faster throughput**

No overlap-constraints allow consistently

**High image quality**

# From Legacy 60 cm ... To Wide Bore SIGNA™ Premier Evo



# Expand clinical capabilities

Same magnet, wider bore, broader possibilities.

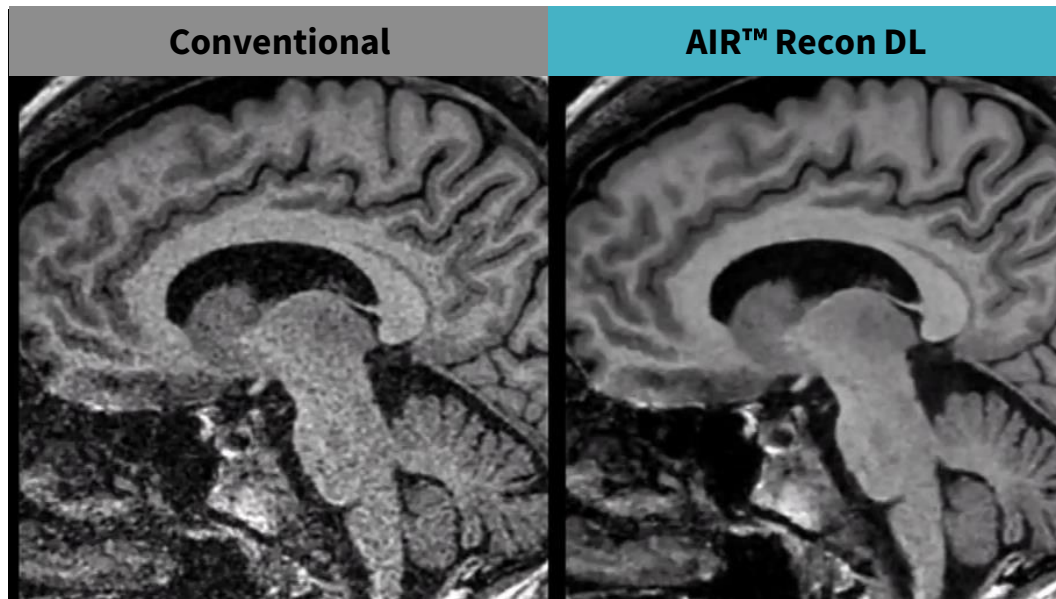
- **Improve clinical translation** with SIGNA™ Premier Evo, which **enhances** your **clinical service** and **advanced research** options so you can help more patients
- **AIR™ Recon DL** has been proven to improve signal-to-noise ratio (SNR), which in turn reduces scan time by up to 50%
- SIGNA™ Premier Evo has **up to 146 RF channels**, designed for higher SNR and uniformity, and as much as **3.4 times more power** with the **SuperG gradient** coil



# Effortless Workflow with AIR™ Recon DL

## AIR™ Recon DL | How does it work?

- A pioneering, deep-learning based reconstruction algorithm.
- Leveraging MR raw data to **remove image noise and ringing.**
- It **improves SNR and image sharpness, enabling shorter scan times.**
- Achieve **up to 50% scan time reduction.**



\* As of October 31, 2023

\*\*calculated by IB data with estimation 20 scans per day, 5.5 working day in a week, fully start using AIR™ Recon DL 4 weeks after delivery. (as of October 31, 2023)

**>2,800** global installations

**> 16M** estimated patients scanned with AIR™ Recon DL\*\*

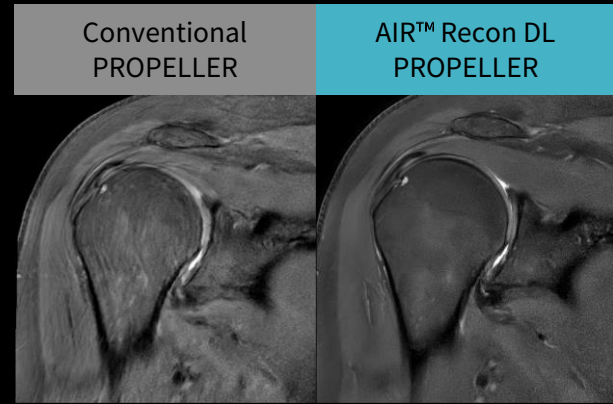
**≥ 32** published journal articles

**90%** clinical application coverage

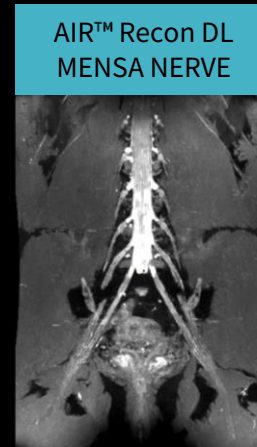
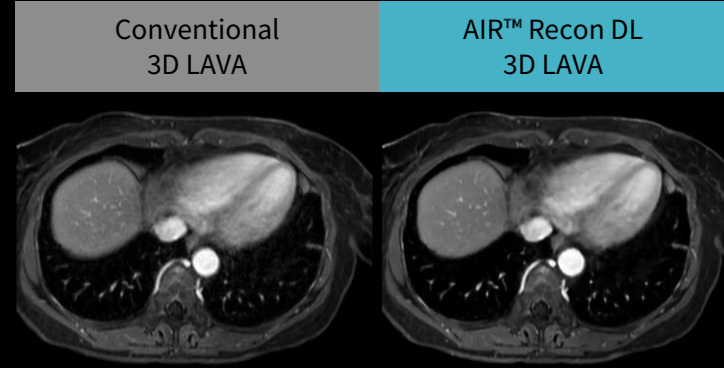
**99%** of MRI exams benefit from AIR™ Recon DL

# AIR™ Recon DL | This is just the beginning...

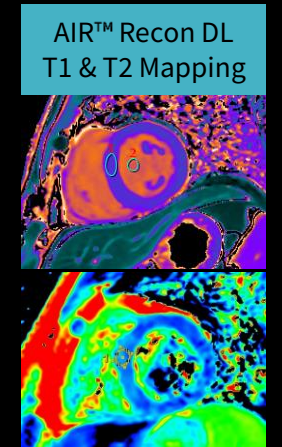
## 2D & PROPELLER



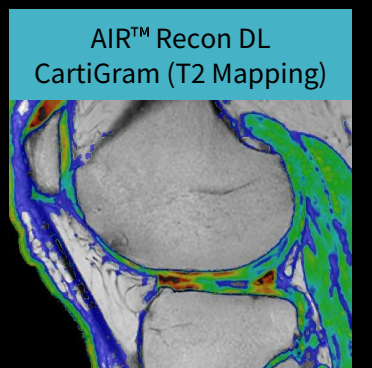
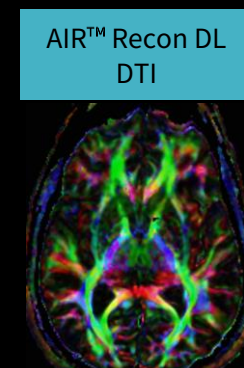
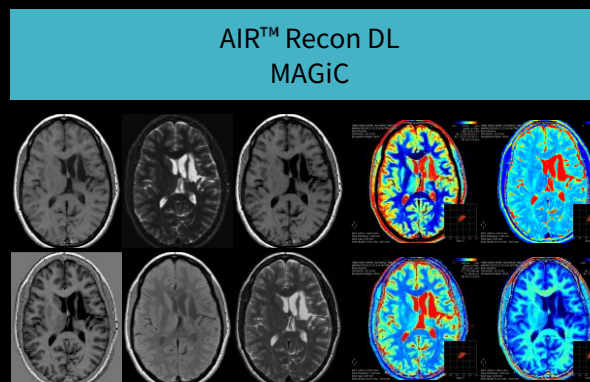
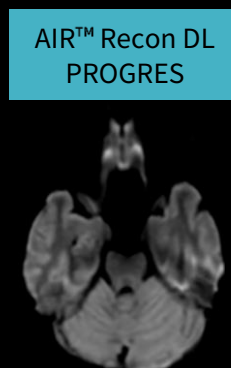
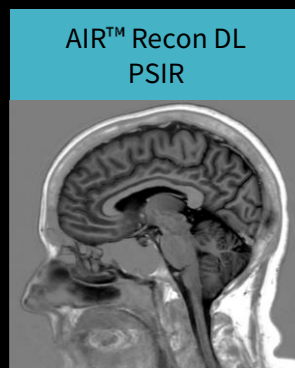
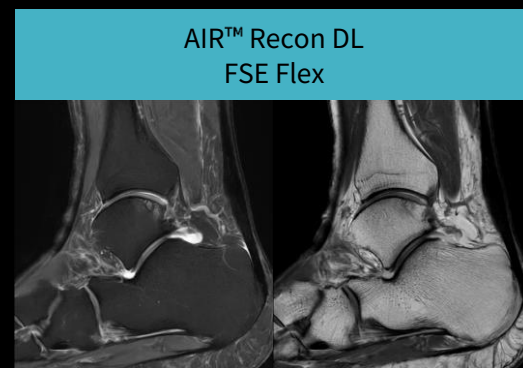
## 3D



## Cardiac



## More



# Neuro with HyperSpeed

Enabled with AIR™ Recon DL  
Total Exam Time  
248 seconds



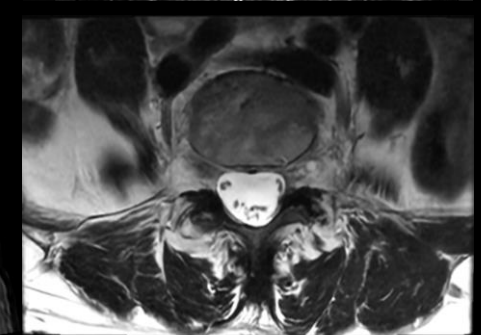
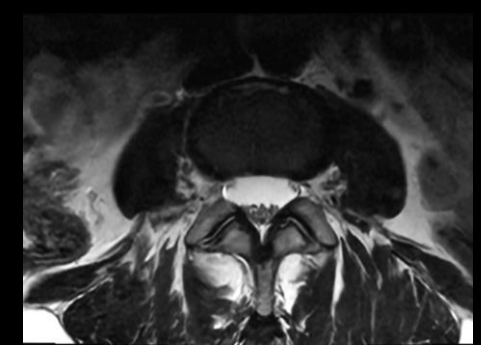
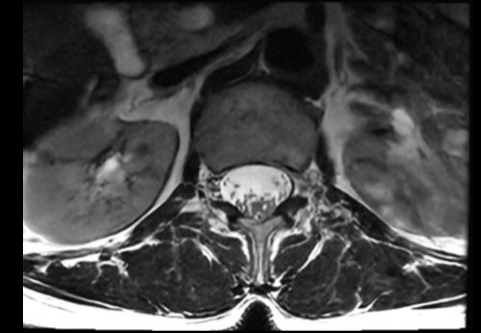
**Sagittal T2 FSE**  
0.6 x 0.9 x 3.5 mm  
50 sec.



**Sagittal T1 FSE**  
0.8 x 1 x 3.5 mm  
1:08 min.



**Sagittal T2 STIR**  
0.7 x 1 x 3.5  
1:38 min.



**Axial T2 FSE**  
0.7 x 0.9 x 4 mm  
40 sec.

# Ortho

## AIR™ Recon DL – Super High Resolution - Thumb

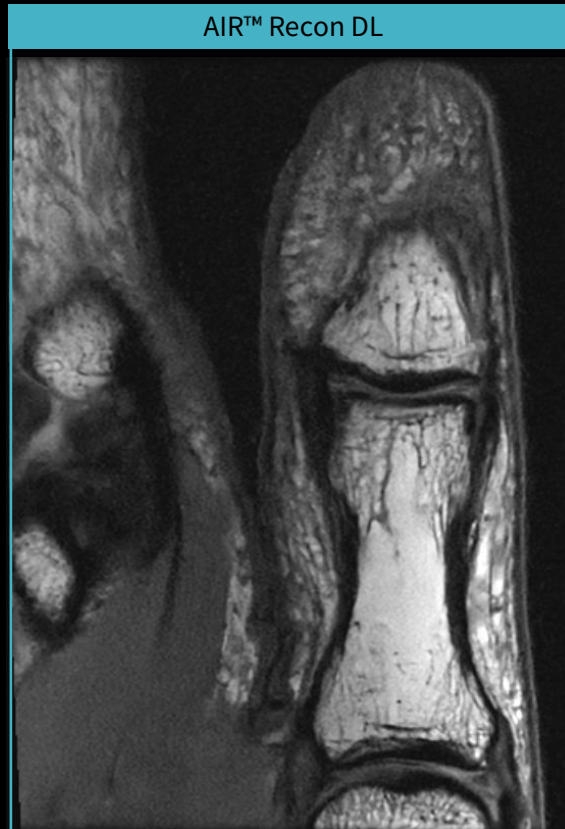


**Sagittal PD FSE**

136 $\mu$ m x 198 $\mu$ m x 1.2 mm  
3:19 min./ 21 Slices



Conventional



AIR™ Recon DL

**Coronal PD FSE**

136 $\mu$ m x 182 $\mu$ m x 1.2 mm  
3:16 min./ 18 Slices



AIR™ Recon DL

**Axial PD FSE**

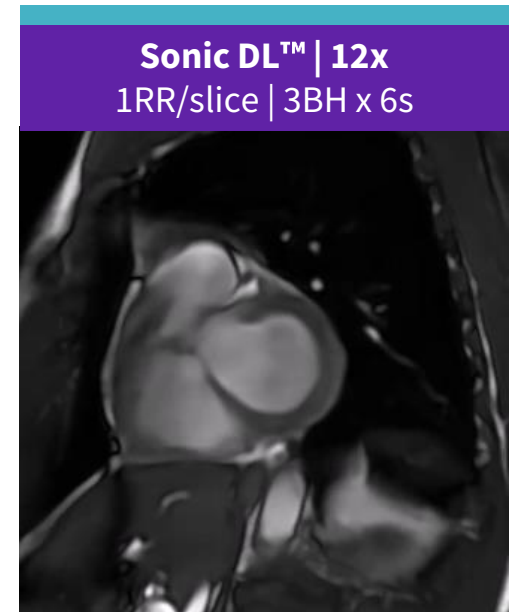
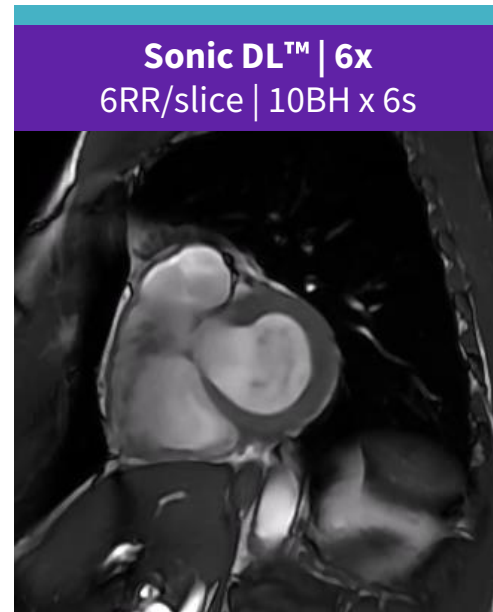
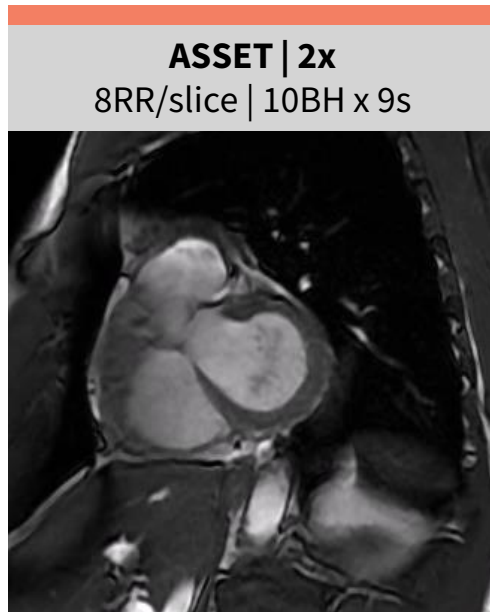
136 $\mu$ m x 182 $\mu$ m x 2.0 mm  
3:34 min./ 25 Slices

# Sonic DL™ | life-speed imaging

Deep learning-based acceleration technique to scan faster, without sacrificing IQ, started compatible with Cardiac Cine.

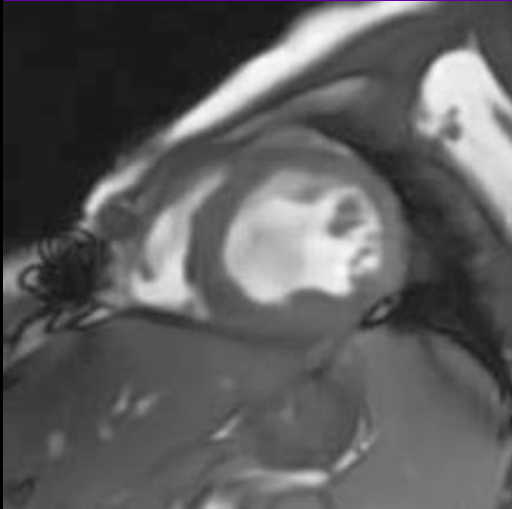
- Increase acceleration up to 12x with Sonic DL™ Cine
- Up to an 83% reduction in scan time vs fully sampled Cine acquisition
- Fast enough for sick and uncooperative patients

- Reduce scan time while preserving image quality
- Free breathing or breath-hold
- Retrospective cardiac triggering
- Up to 12x acceleration
- As fast as 1 heart-beat per slice



# Sonic DL™ | Cardiac Cine protocols

Cannot hold breath?



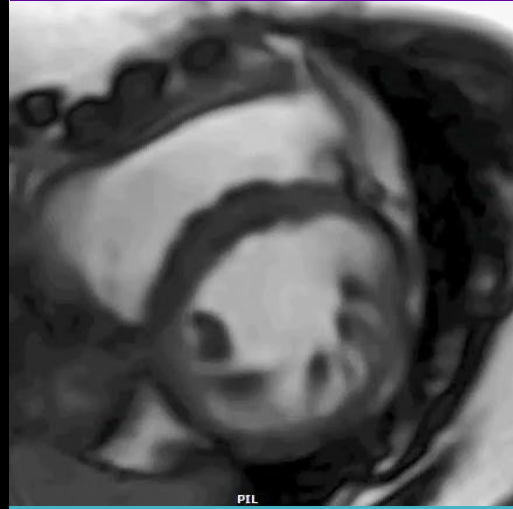
Sonic DL™ | 12x



**Free breathing** | 1 beat/slice  
18sec Short Ax whole heart coverage  
Heart rate ~117bpm

Courtesy of Dr. Shreyas Vasanawala,  
Stanford University,  
Discovery™ MR750 3.0T

Arrhythmic heart beat?



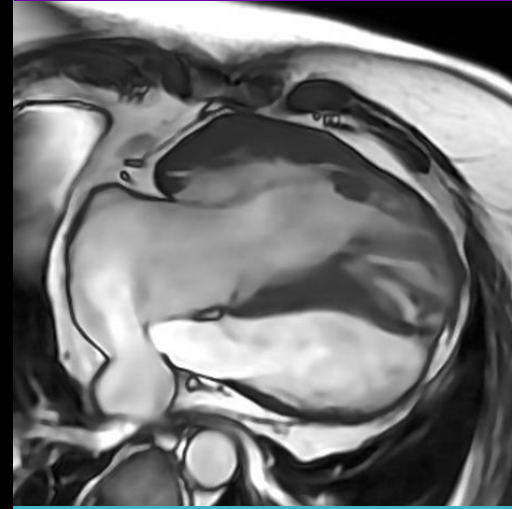
Sonic DL™ | 12x



Breath-Hold | 1 beat/slice

Courtesy of Dr. Melany Atkins,  
Fairfax Radiology Consultants,  
SIGNA™ Artist 1.5T

High resolution?



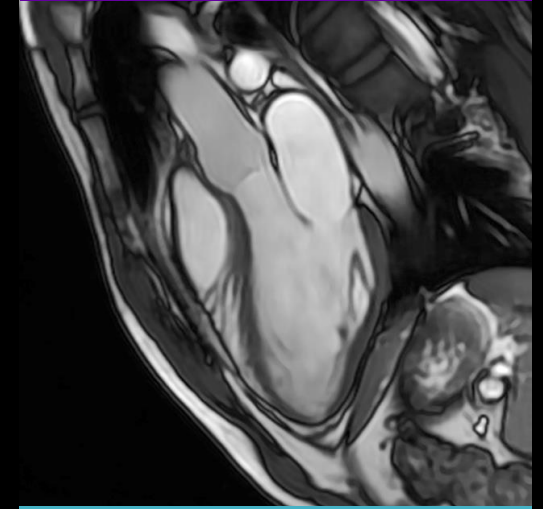
Sonic DL™ | 6x



Breath-Hold | 7s/slice  
Res. 1.4 x 1.4 x 8mm 23ms

Courtesy of Dr. Frandics Chan,  
Stanford University,  
SIGNA™ HD 1.5T

Standard scan



Sonic DL™ | 8x

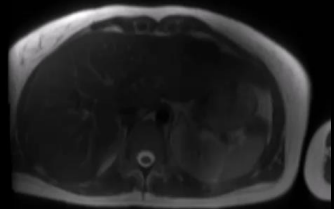


Breath-Hold | 4s/slice

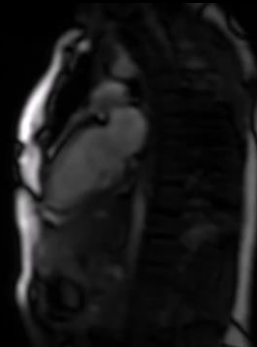
SIGNA™ Voyager 1.5T

# Sonic DL™ Cardiac Cine with AIR™ Multi Purpose Coil Medium

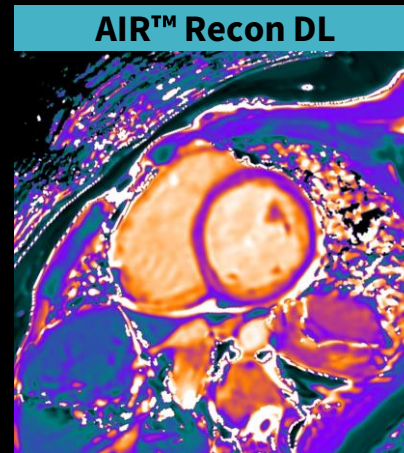
Complete cardiac exam in < 15 minutes



**Three Plane Localizer**  
Axial, Sagittal and Coronal  
**18 seconds**



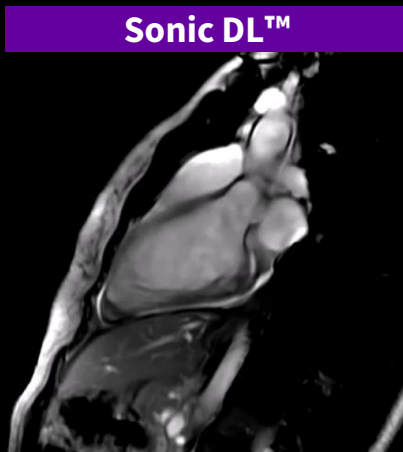
**iDrive Localizer**  
30 seconds



**Short Axis T1 Map (MOLLI)**  
with AIR™ Recon DL  
2.4 x 2.9 x 8 mm  
6 slices | 35 sec



**Short Axis Perfusion - MoCo**  
with AIR™ Recon DL  
80 phases | 3 slice locations  
2.4 x 2.4 x 8 mm | 1:17 min



**Three Planes of Sonic DL™ Cine**  
1.6 x 1.1 x 8 mm | 30 phases  
**19 slice locations total**  
45 sec | 21 sec | 18 sec  
All functional sequences = 1:24 seconds



**Three Planes of SS PSMDE**  
with AIR™ Recon DL  
2.9 x 2.9 x 8 mm  
18 slices | 57 sec total

# Extend your investment

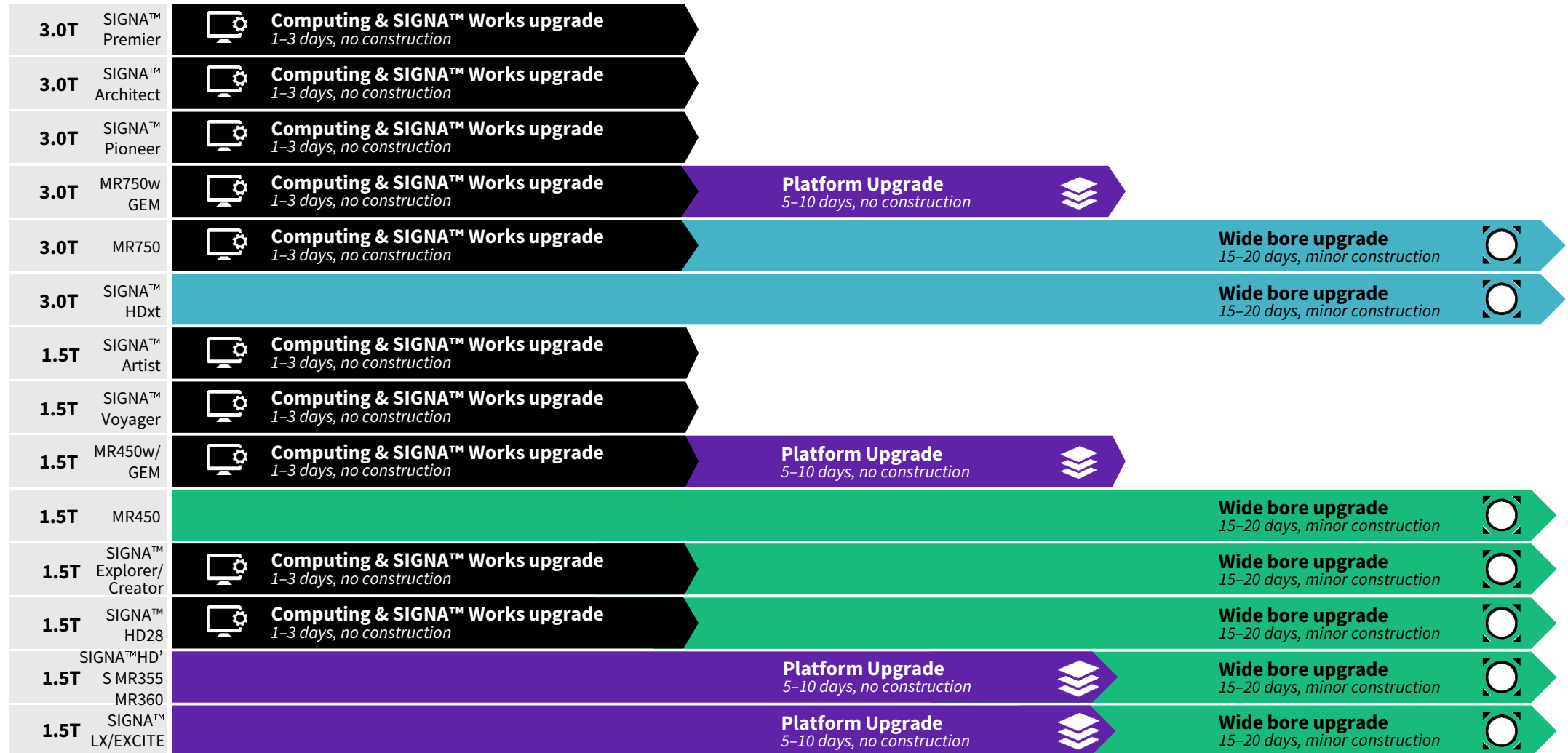
Revitalize your legacy MR system with an Evo transformation.

- **Minimize site disruption** by transforming – not replacing – your legacy MR system
- **Break even up to 40% faster** with a SIGNA™ Premier Evo transformation, instead of replacing your legacy MR system\*
- With **no magnet waste, lower helium usage** and **lower reconstruction costs**, transforming your legacy MR system is the **sustainable option**

\*Based on historical ROI of full system upgrades vs full replacement and ROI simulation tools.



# SIGNA™ MR Upgrade Paths



Small upgrade

Medium upgrade

Large 3.0T upgrade

Large 1.5T upgrade

# Key enablers



## High Homogeneity Magnet

- Best in class homogeneity
- Protected by Superconductive “Force Field” for all its life
- Has no moving parts



All-hollow conductor design with independent cooling circuits to enable long duty cycles

## All Hollow Gradient Conductor

- Create space to go from 60 cm to 70cm
- Equipment Room — Keep the same footprint and Support Remote Equipment Room
- Scan Room — Keep the same footprint as Premier
- Fit in G3 and 3TLC Legacy magnets

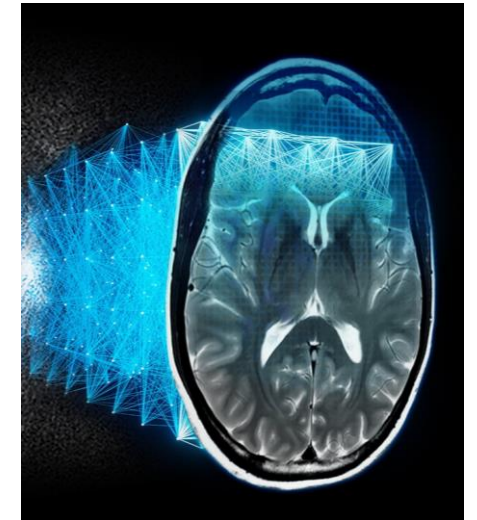
## AIR™ Coil

- Lightweight & Versatile
- Facilitates Extended Acceleration



## AIR™ Recon DL

- Proven outcomes, over 2M patients scanned to date
- Deep Learning, On Device Reconstruction Technology
- Notably Reduces Noise
- Eliminates Gibbs Ringing Artifact



# Summary

## Enhance Patient Comfort

A 70 cm bore and lightweight, blanket-like AIR™ Coils help improve patient comfort and accessibility

## Expand Clinical Capabilities

Achieve pin-sharp image quality, undeniable speed, and consistency with our pioneering Deep Learning-based reconstruction algorithm AIR™ Recon DL

## Extend Investments

Gain a 40% faster ROI vs a replacement with a SIGNA™ Premier EVO transformation\* and reduce your carbon footprint by keeping your current advanced GE HealthCare MR magnet

\*Based on historical ROI of full system upgrades vs full replacement and ROI simulation tools.



# SIGNA™ Premier *Evo*

## Innovative Technology

- **SuperG 80 mT/m at 200 T/m/s** with superb stability
- **146ch Total Digital Imaging (TDI)** receive chain
- **Uncompromised 60cm performance** in a 70cm bore

## Clinical confidence

- **AI-based applications** powered by Edison
- Full suite of **quantitative applications**
- An elevated MR experience with **Effortless Recon DL**

## Elevated patient experience

- AIR™ delivers clinical versatility and comfort
- **70cm bore and feet-first for all examinations**
- **Effortless Workflow with AIR™ family** of products sets a new standard for MR Imaging

## Operational Excellence

- Orchestra, **GE HealthCare's Collaboration Portal** and **user groups for research development and clinical translation**
- **Dockable eXpress Patient Table**
- **Flexible system siting** offerings with the Premier **65/200 configuration**



Overview

# MR services

# Unlock Remote MR Scanning with Digital Expert

## Remote Scanning for SIGNA™ MR with Digital Expert\* enables new Effortless Workflows

Collaborate across systems and sites

Operational efficiency and consistency that drives improved clinical outcomes

Optimize staff utilization

Expand care access and capacity



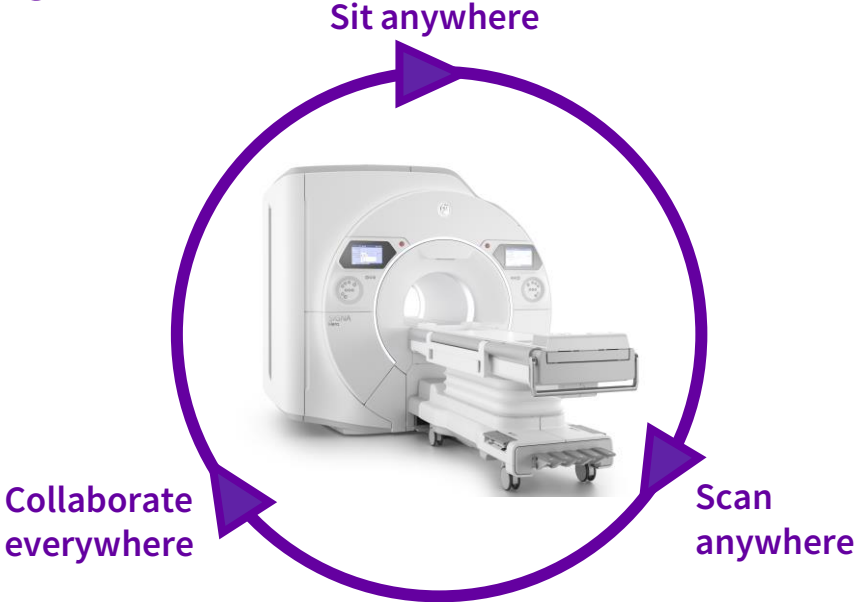
Digital Expert Remote Scanning available across wide variety of SIGNA™ MR systems

### 3.0T

- SIGNA™ Premier (incl XT)
- SIGNA™ Premier Lift & Evo
- SIGNA™ Architect
- SIGNA™ Architect T
- SIGNA™ Architect Lift
- SIGNA™ Hero
- SIGNA™ Pioneer
- Discovery™ MR750w GEM
- Discovery™ MR750

### 1.5T

- SIGNA™ Artist
- SIGNA™ Artist Lift & Evo
- SIGNA™ Artist T
- SIGNA™ Voyager
- SIGNA™ Explorer
- SIGNA™ Creator
- Optima™ MR450w
- 1.5T SIGNA™ HDxt
- Brivo™ 355
- Optima™ 360



\*Remote scanning is supported on MR 30.1 for SIGNA™ software and above. May not be available in all regions.

## Expertise

8,500+

Service  
engineers<sup>1</sup>

1,400

Applications  
specialists<sup>1</sup>

6,000+

Spare parts  
shipped daily<sup>1</sup>

Confidently rely on highly trained experts that can provide 24-hour troubleshooting and repair, with access to a strategic global network of parts warehouses

## Digital Solutions

~28h

Average unplanned  
downtime saved<sup>2</sup>

Data-driven insights from Next Gen OnWatch™ Predict to help increase asset availability, expedite repairs, ensure compliance, optimize utilization and reduce operating costs

Delivering  
peace of  
mind

## Lifecycle Management

30-50% Investment  
savings<sup>3</sup>

Continuity™ helps keep your systems current with ongoing upgrades already budgeted in your contract

## Education & Training

650+ Accredited continuing  
education programs<sup>1</sup>

Customizable clinical applications training and continuing education programs (on-site, remote, and online)

1. These results may not be typical for all customers and are not guaranteed. This statistic is derived from GE HealthCare Internal Data.  
2. Average unplanned downtime saved calculated based on 24x7, between the break & fix population and the OnWatch Predict population.  
3. These figures are derived from an average; from potential examples of how having a Continuity Agreement could impact ownership of certain GE HealthCare equipment. Nothing in this document is a guarantee of future releases or pricing for this product or any other GE HealthCare products.

# The GE HealthCare Imaging application

Coming in 2024

## Get the latest from GE HealthCare

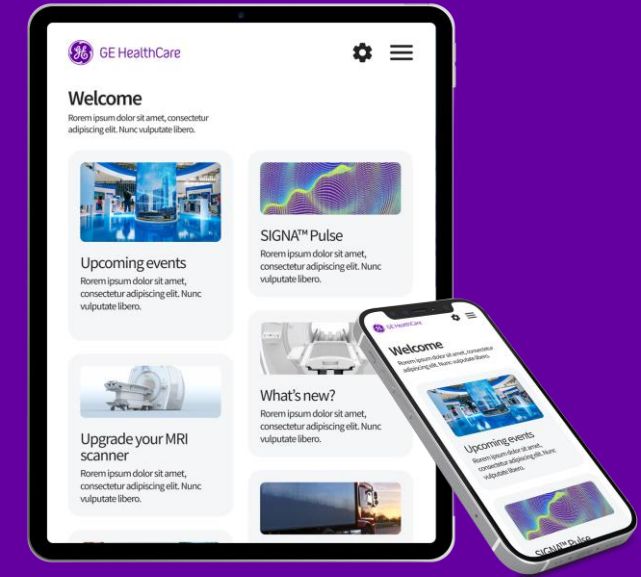
- Stay up to date on the most recent releases, technologies, products and software.
- Get access to a plethora of useful resources including cases, articles, imaging protocols, news and more.

## Unlock your upgrade options

- Whether it's a system lift or new software, discover what your upgrades options are with a few simple clicks, right from your phone.

## Explore unique clinical cases

- Sift through a wide selection of noteworthy clinical cases and dive deep with the all new in-app DICOM viewer.



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