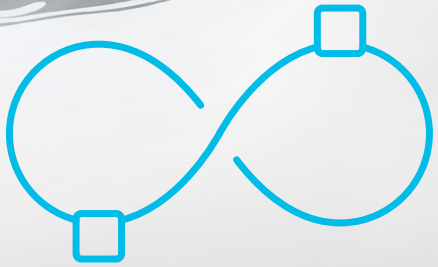


TOMORROW TODAY



AIR™

Simply better

[gehealthcare.com/mr](http://gehealthcare.com/mr)







# Simply better

It's time for a simply better MR experience. An experience that embraces the clinical power of MR with a more ubiquitous design. For us, this is AIR™.

AIR™ is more than a name. It's a way of thinking. A symbol for how we approach both the form and the function of MR. From coils to workflow to image quality, we deconstruct everything down to its most fundamental, simplified version. And improve it. Each new innovation builds off of this core philosophy, increasing the value of the greater AIR™ ecosystem.

Holistically, AIR™ is MR. Simply better.

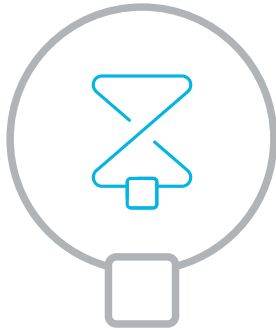




# Welcome to the AIR™ family

The AIR™ family of products delivers clinical versatility and comfort, intelligent productivity improvements and consistently superior image quality.

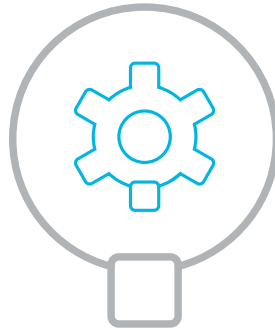




## AIR™ Coils

It started with an engineering breakthrough that led to the industry's first truly lightweight coil design. A design that conforms to the human body like a comforting blanket completely changing the patient experience. But this was just the start.

■ Clinical versatility and comfort



## AIR™ Workflow

The technology at the core of this new coil design laid the groundwork for intelligent applications that automate and personalize fundamental steps in the MR workflow, so you can expect consistent image quality in predictable scan times from any technologist.

■ Intelligent productivity improvements



## AIR™ Image Quality

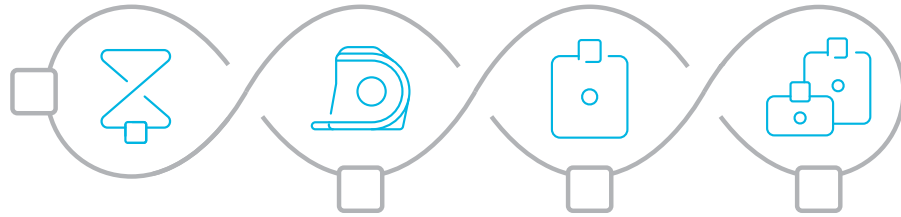
Now, we're adding reconstruction software that reduces background noise and out-of-FOV artifacts to foundationally improve the quality of your MR images.

■ Consistently superior image quality



**AuntMinnie.com**  
THE BEST OF RADIOLOGY  
WINNER





# AIR™ Coils

## Clinical versatility and comfort

Awarded Best New Radiology Device of 2019, AIR™ Coils are the foundation of a simply better MR experience. The engineering breakthrough at the heart of our AIR™ Coils allowed us to create a revolutionary coil design that is lighter, offers more flexibility and provides greater coverage, laying the groundwork for greater positioning freedom and a comfortable patient experience.

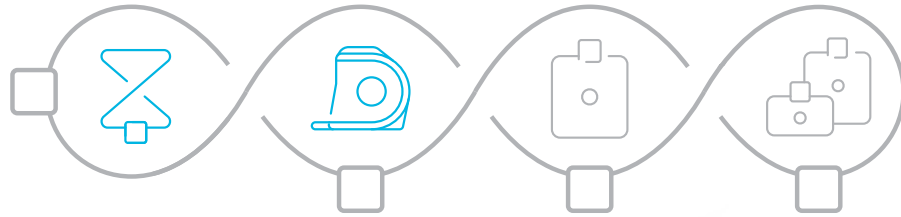


Lightweight and bendable, this series of linked resonators replaces what used to be rigid circuit boards and lumped components. It's the flexible core of our form-fitting coil design.



Brachial Plexus  
0.7 x 0.7 x 3 mm  
3:30 min





## AIR™ 48ch Head Coil

Designed in collaboration with the NFL\* for high-performance brain imaging.

- Adjustable to fit 99.99 percent of patients
- Fit-adaptable, comfort tilt design
- Improved parallel imaging

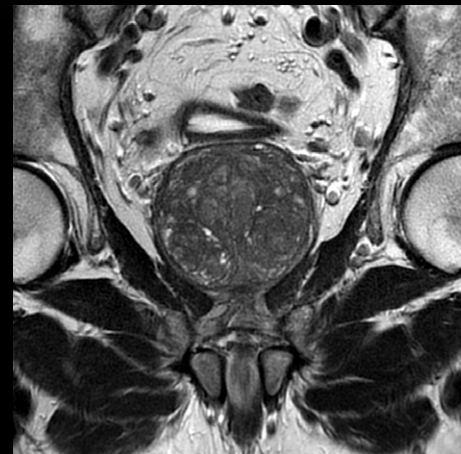


\* In 2013, GE and the National Football League (NFL) teamed up to launch the Head Health Initiative, a collaboration to accelerate diagnosis and improve treatment for traumatic brain injury.

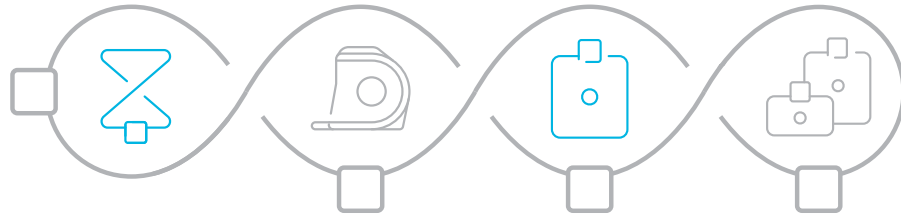


Automatic coil element  
selection for the prostate  
with AIR Touch™

Axial T2 FSE  
0.7 x 0.7 x 2.5 mm







## AIR™ Anterior Array Coil

Scan the chest, abdomen and pelvis without repositioning the coil.

- 65 cm of coverage
- 30-channel design
- Weighs less than 0.35 grams per cm<sup>2</sup>



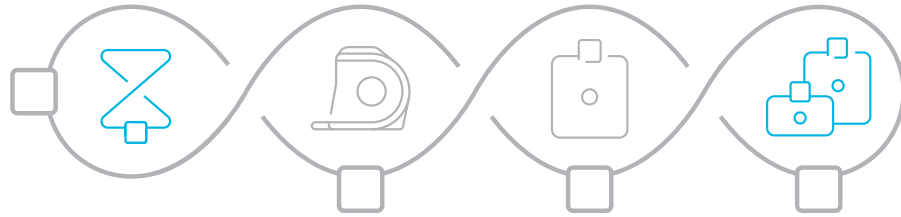


0 mm  
00:00  
Patient Name: See Jiro  
Patient ID: 123-45-6789  
Exam Number: 1234  
Patient Weight: 150 lbs  
Patient Position: Supine  
Landmark



360 degrees of coverage  
for large feet/ankles  
Sagittal PD FSE  
0.3 x 0.4 x 3 mm





## AIR™ Multi-Purpose Coils\*

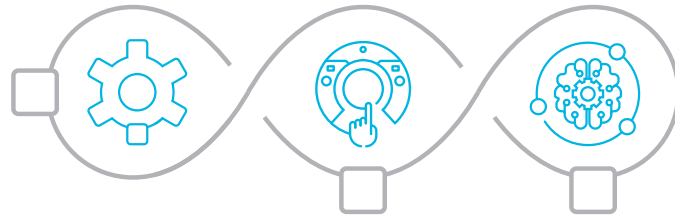
Easy ortho, body and cardiac scans with medium and large sizes.

- 360 degrees of coverage
- 20 and 21-channel designs
- As much as 35 percent lighter per channel\*\*



\* Not yet CE marked. Not available for sale in all regions.

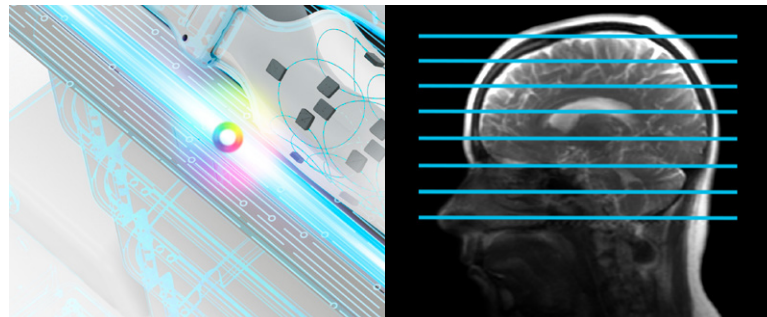
\*\* Compared to previous generations of conventional coil technology.



# AIR™ Workflow

## Intelligent productivity improvements

Enhance your MR productivity with intelligent workflow applications developed to optimize your scans with accelerated scan times, increase diagnostic confidence across skill levels and consistently deliver accurate results. Automated applications, AIR Touch™ and AIR x™, make a clinically impactful difference for a simply better workflow.







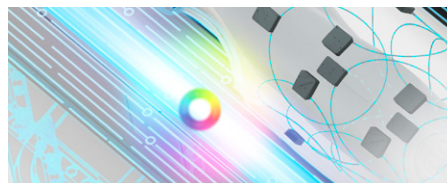




## AIR Touch™

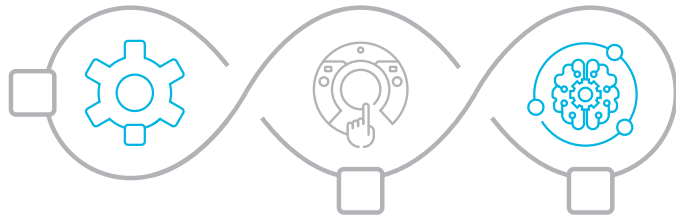
Smart coil element selection automatically knows the best combination for every patient.

- Simplifies scan setup with customized parameters
- Optimizes uniformity and SNR
- Automatically selects which coils and elements to use



AIR Touch™ acts as the bridge between the coils and the system, allowing you to landmark your patient with a single touch.

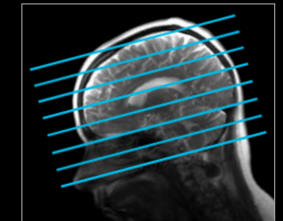
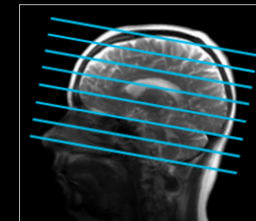
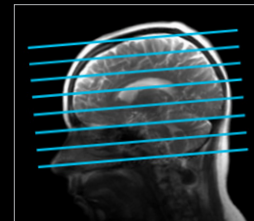
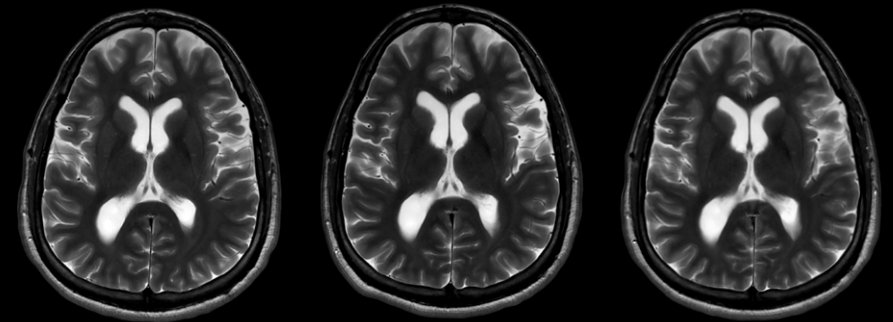




## AIR x™

Intelligent MR slice prescription for routine and challenging neurological exams.

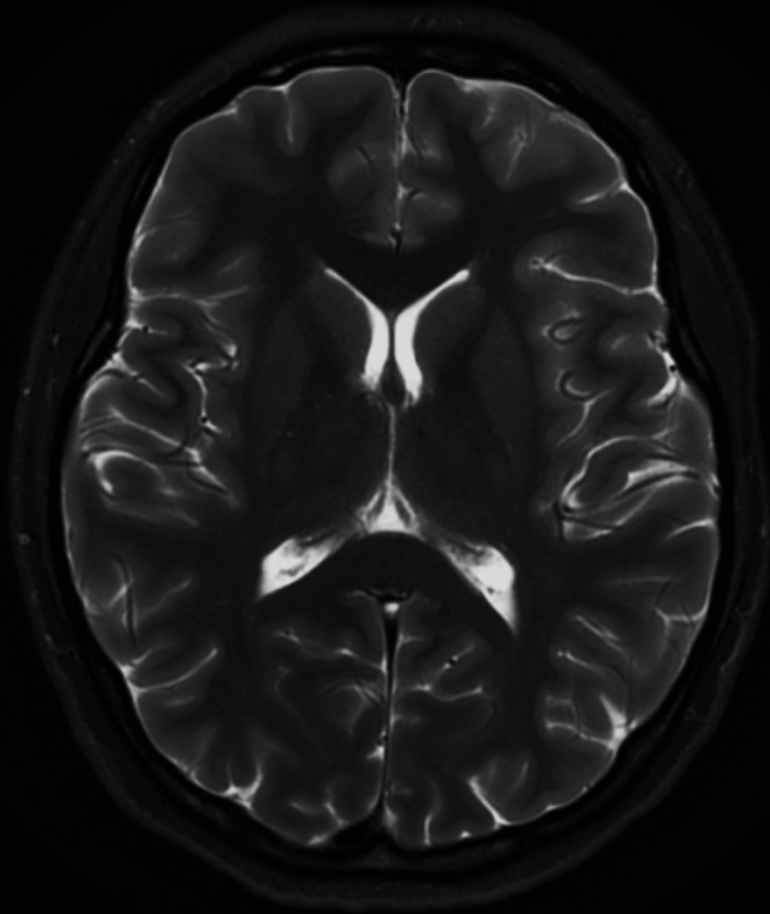
- Powered by a deep learning algorithm created from a database of 36,000 images
- Automatically detects anatomy and prescribes slices in the brain
- Delivers consistent and quantifiable results
- Helps eliminate rescans and scanning inefficiencies



Time point one

Time point two

Time point three



# AIR™ Image Quality

Consistently superior image quality

AIR™ Image Quality completes the AIR™ family of products with image reconstruction software that reduces background noise and out-of-FOV artifacts. It helps improve signal-to-noise in every image without having to overcompensate in your scanning protocol.



## AIR™ Recon

Makes exceptional image quality in faster scan times the new standard for MR imaging.

- Available on the majority of routine clinical scans
- Seamless to use and always on
- Reduces background noise and out-of-FOV artifacts
- Improves signal-to-noise ratio without having to overcompensate in your protocols



Conventional



AIR™ Recon



# Clearly consistent images with AIR™ Recon



Conventional



AIR™ Recon

AIR™ 48ch Head Coil  
0.5 x 0.5 x 2.5 mm  
3:56 min

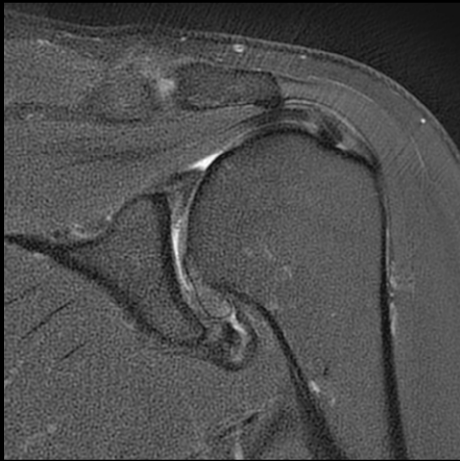


Conventional

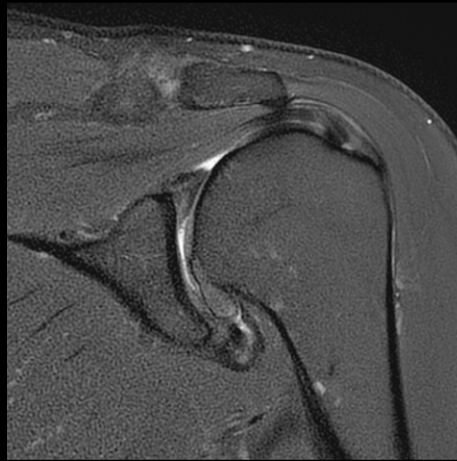


AIR™ Recon

AIR™ Anterior Array Coil  
0.5 x 0.5 x 3 mm  
5:02 min

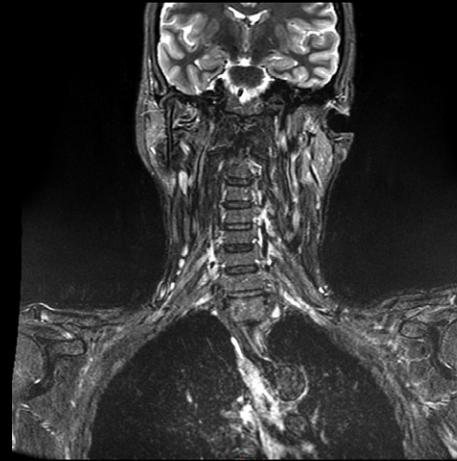


Conventional



AIR™ Recon

AIR™ Multi-Purpose Coil\* (large)  
0.4 x 0.4 x 3 mm  
3:34 min



Conventional



AIR™ Recon

AIR™ 48ch Head Coil  
and AIR™ Multi-Purpose Coil\* (large)  
0.7 x 0.7 x 3 mm  
3:30 min





# Get closer to what you need to see

AIR™ combined with the advanced applications of SIGNA™Works enables diagnostic confidence in every scan through industry-leading image quality and imaging capabilities.

## AIR™ Anterior Array Coil



Two-station chest/abdomen/pelvis  
acquired without moving the coil  
or subject



Axial T2 PROPELLER MB  
0.7 x 0.7 x 3.5 mm



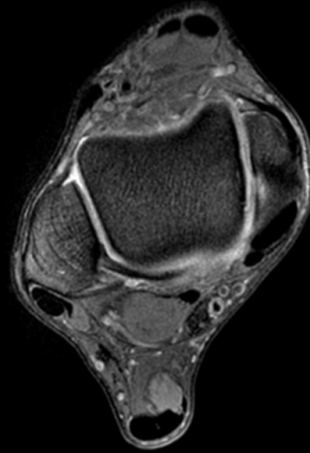
Axial Inhance IFIR  
Non-contrast  
0.8 x 1.3 x 1.6 mm



# AIR™ Multi-Purpose Coils\*



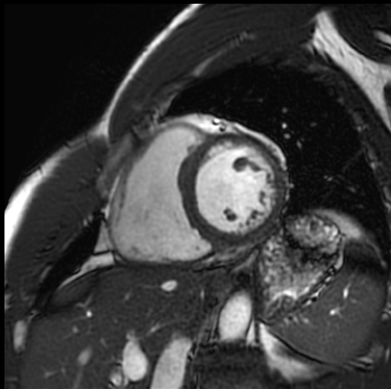
Coronal T1 FSE  
0.3 x 0.5 x 3 mm



Axial MERGE  
0.3 x 0.4 x 2.5 mm



Coronal PD FSE  
0.2 x 0.3 x 2.5 mm



FIESTA Cine Short Axis  
1.6 x 1.6 x 6 mm

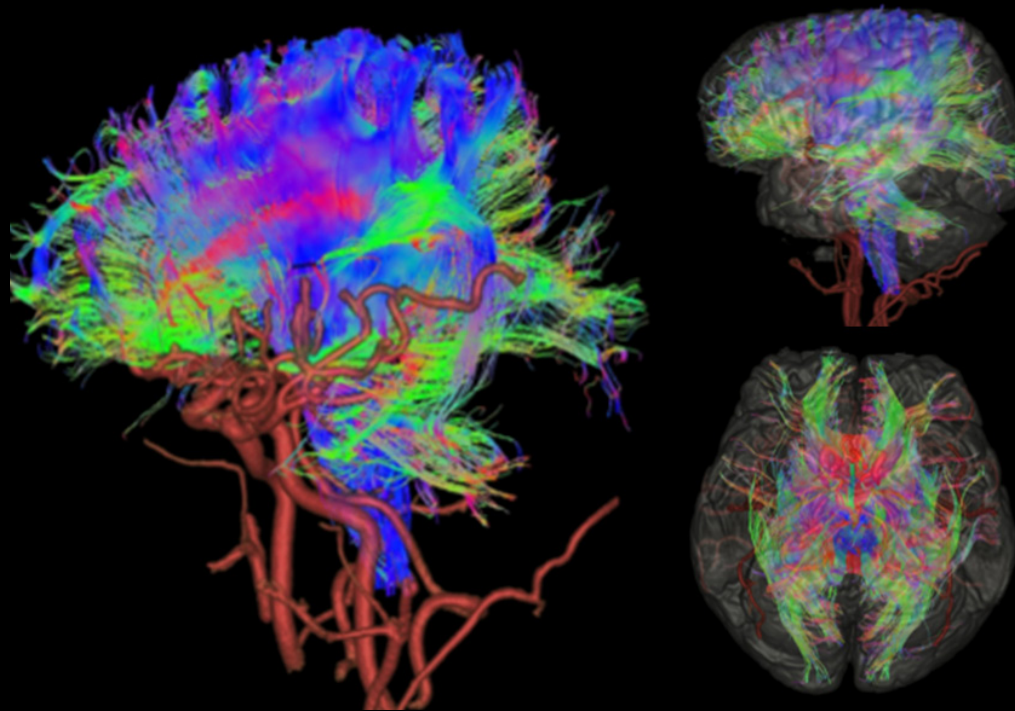


Sagittal PD FSE  
0.3 x 0.4 x 2.5 mm

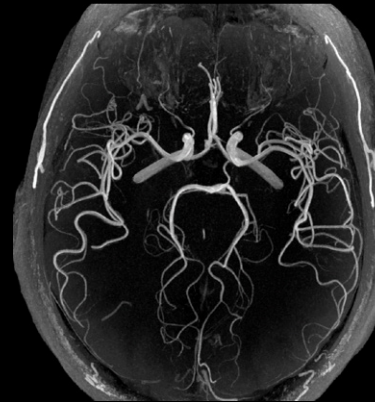


Coronal PD FSE  
0.4 x 0.5 x 3 mm

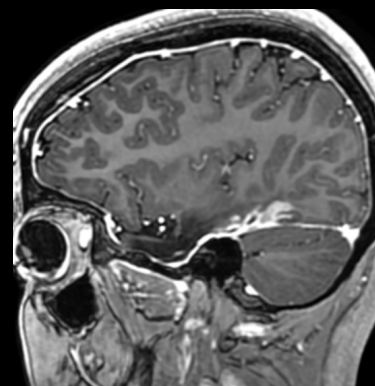
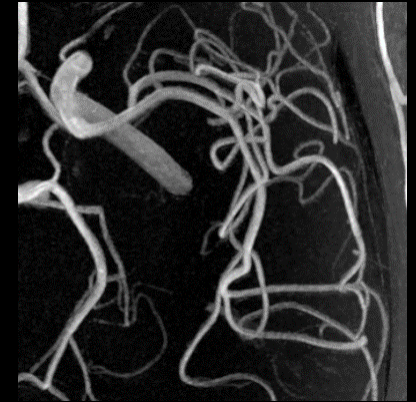
# AIR™ 48ch Head Coil



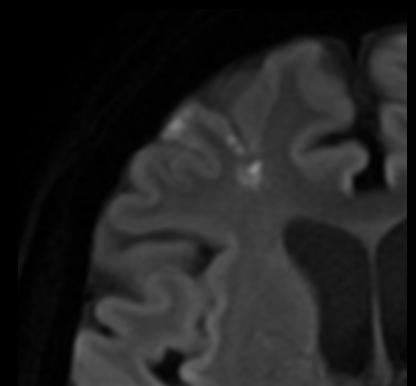
Volume rendering  
HyperBand DTI FiberTrak fused with HyperSense 3D TOF



HyperSense  
3D TOF  
0.3 x 0.3 x 0.5 mm



3D BRAVO  
1 x 1 x 1 mm



MUSE DWI  
b1000  
0.9 x 0.8 x 5 mm





# Coil combinations with AIR Touch™

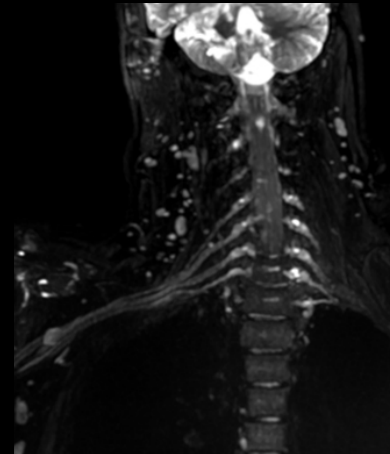
AIR Touch™ automatically selects the best coil combination and utilizes anatomical-based protocol optimization to personalize care and improve exam times by 53 percent.\*\*



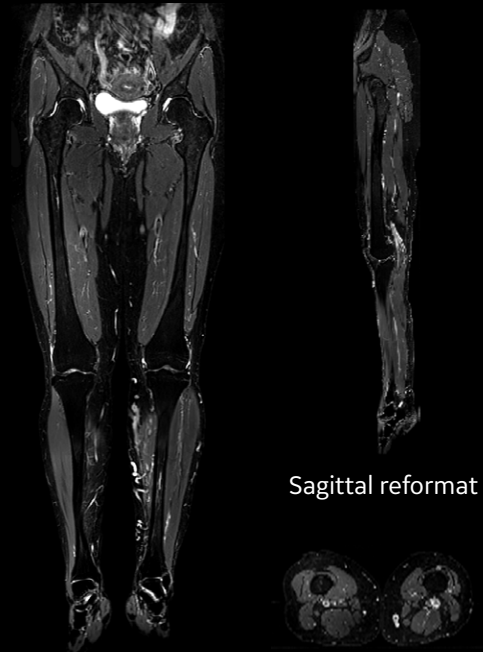
AIR™ 48ch Head Coil +  
AIR™ Anterior Array Coil +  
Posterior Array  
Sagittal T2 frFSE  
0.6 x 0.9 x 3 mm



AIR™ Multi-Purpose Coil\* +  
Posterior Array  
Coronal T2 FSE  
0.6 x 0.7 x 3 mm

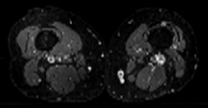


AIR™ 48ch Head Coil +  
AIR™ Anterior Array Coil +  
Posterior Array  
Coronal T2 STIR with  
HyperCube and HyperSense  
1.25 x 1.25 x 1.6 mm



Curved reformat

Sagittal reformat



Axial reformat

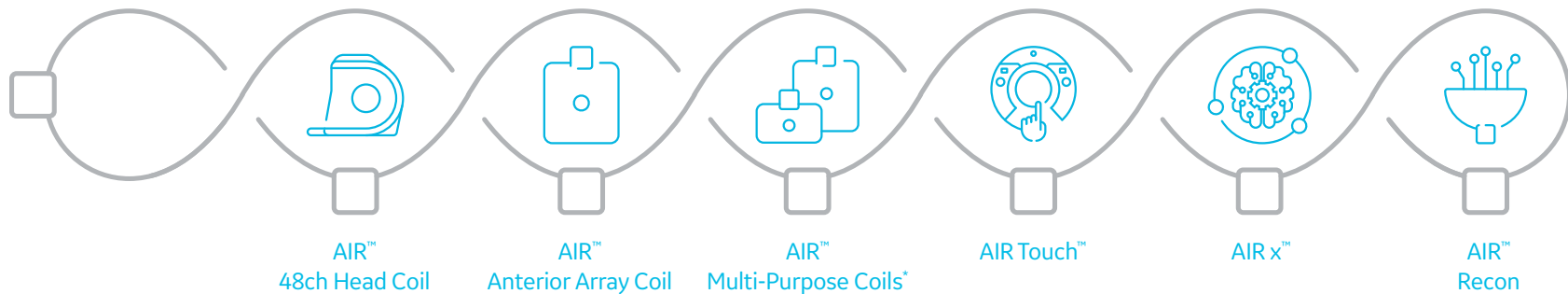
Two AIR™ Anterior Array Coils +  
Posterior Array  
Coronal STIR FSE  
1 x 1.8 x 2.5 mm

\* Not yet CE marked. Not available for sale in all regions.

\*\*Compared to previous workflows without AIR Touch™.

# It all links up to a simply better MR experience

What really sets our AIR™ family of products apart is the way they all work together. It started with an engineering breakthrough that led to the industry's first truly lightweight coil design and laid the groundwork for intelligent workflow applications and an all-new reconstruction algorithm. Each one builds off of the potential of the rest of the family, creating a chain of innovation that all links together to transform the entire MR experience.





**AIR**<sup>TM</sup>  
Simply better





For more information, visit [gehealthcare.com/AIR](http://gehealthcare.com/AIR)  
or contact your GE Healthcare Sales Representative.

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## Imagination at work

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