

## MAGNETOM Aera

**Image Gallery** 

## Clinical excellence, consistently. With Tim+Dot.

#### Tim 4G (Total imaging matrix) Technology

Tim® 4G is Siemens ultimate innovation technology that unlocks imaging power like never before.

#### 4G Flexibility

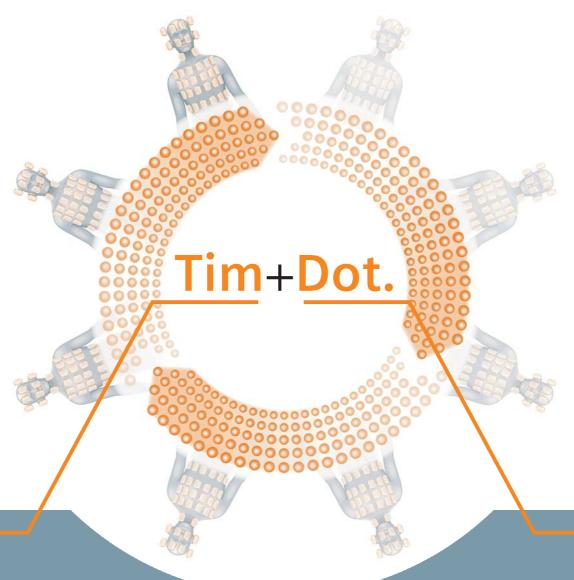
- Up to [204x64]. Ultra high-density coil array for high resolution and an imaging distance up to 205 cm with no coil repositioning
- Excellent flexibility of any coverage up to whole body
- Up to 204 coil elements combined with up to 64 channels for flexible Parallel Imaging

#### **4G** Accuracy

- DirectRF™. Tim's new all digital-in/digital-out design for true signal purity
- From meters to microns. High resolution imaging even when zooming in on multistation images
- TrueForm® Magnet and Gradient design. Cylindrically optimized Homogeneity volume that matches the true form of the human body

#### 4G Speed

- Faster and simpler exam set-up and improved SNR with DirectConnect™ coils
- Tim 4G processing speed
- iPAT<sup>2</sup> technology. Parallel acquisition in two directions for fast 3D data



#### Dot (Day optimizing throughput) Engine

Dot™ offers a customizable framework to help optimize every part of your MR workflow.

#### Dot is personalized

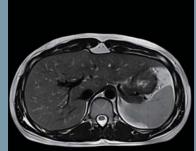
- Optimized exam strategies. Your customized protocols are proposed based on the patient's condition or clinical indication
- Consistent, high quality exams even when conditions change
- Dot speaks your clinical language. Customize Dot to create strategies tailored to your clinical practice

#### Dot is guided

- Real-time on-board guidance. Dot guides you, intuitively, even through complicated exams
- Integrated decision points. The user can add or eliminate protocols or groups of protocols with the click of a button
- Customizable to your standards, to follow your standards of care

#### Dot is automated

- Intelligent, workflows. Dot Engines can be tailored to your clinical needs
- Effortless set-up. Dot links your protocols and procedures
- Timing is synchronized. Dot integrates AutoVoiceCommands ensuring the synchronized timing of breathing, scanning. In addition, contrast timing is more accurate due to AutoBolus Detection.



High image quality with Tim's new 4G technology

Image consistency and diagnostic confidence with Siemens unique Dot Engines



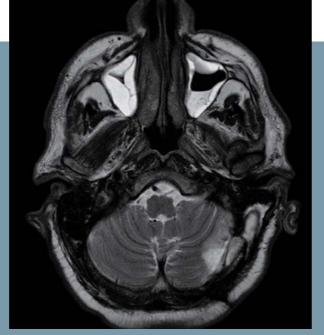
Tim+Dot. Together, they redefine productivity.

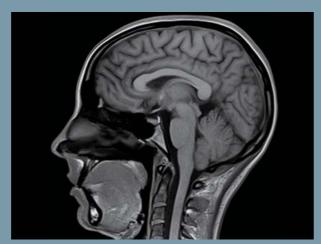
## Brain

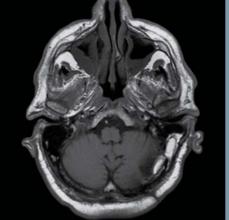
#### Head/Neck 20

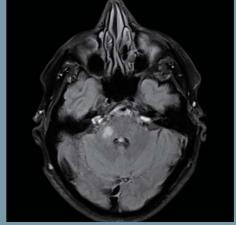
Tim 4G offers a 20-channel Head/Neck coil designed to accommodate a wide variety of patients while offering a superb signal-to-noise ratio (SNR) for both clinical and research imaging. The unique Dual-Density Signal Transfer architecture enables a DirectConnect design eliminating cables to reduce set-up time. The open coil design increases patient comfort further.



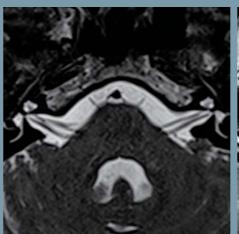


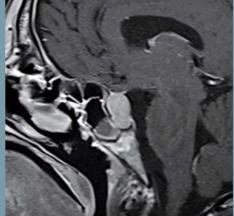


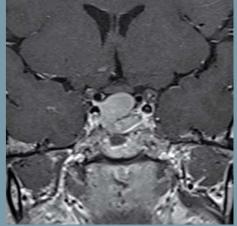












Tim coil activation:

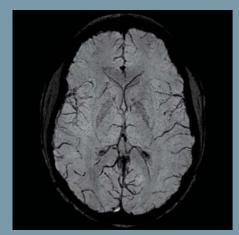
Peripheral Angio 36

Body 18

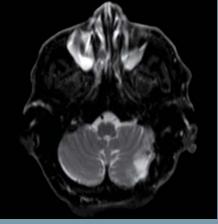
Body 18

Head/Neck 20

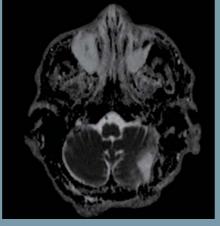
Spine 32



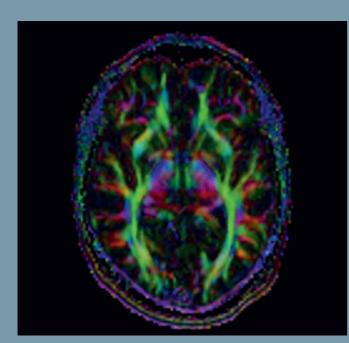
3D SWI, minIP, GRAPPA 2, 320 matrix, SL 1.8 mm, TR 49, TE 40, TA 5:50 min Northwestern Memorial Hospital, Chicago, USA



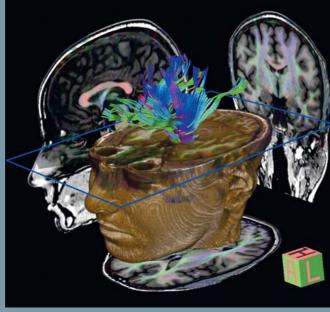
EPI Diffusion, b-value 0, GRAPPA 2, 192 matrix, SL 5 mm, TR 8100, TE 89, TA 0.06 s/slice



EPI Diffusion, ADC map, GRAPPA 2, 192 matrix, SL 5 mm, TR 8100, TE 89, TA 0.06 s/slice Northwestern Memorial Hospital. Chicago. USA



EPI Diffusion, FA map, 20 directions, GRAPPA 2, 128 matrix, SL 5 mm, TR 3500, TE 83, TA 0.03 s/slice

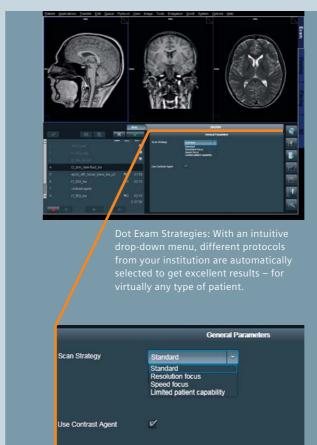


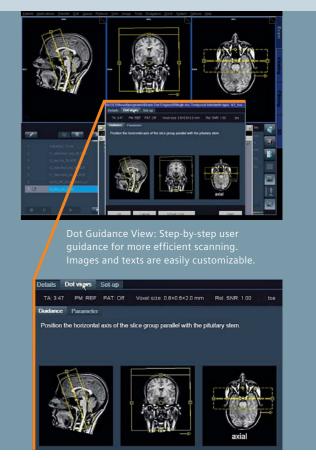
DTI Fibertracking, 20 directions, GRAPPA 2, 128 matrix, SL 5 mm, TR 3500, TE 83, TA 0.03 s/lsice

Tim coil activation: Peripheral Angio 36 Body 18 Body 18 Head/Neck 20
Spine 32

## **Brain Dot Engine**

The Brain Dot Engine simplifies general brain examinations with guided and automated workflows customized to your standards of care. It supports the user in achieving reproducible image quality with increased ease of use and time efficient exams. One can choose between different exam strategies depending on the patient condition or clinical indication. With syngo BLADE, the Brain Dot Engine improves image quality by correcting for the effects of motion during an MR acquisition. With Inline Technology automatic calculation of trace-weighted images and ADC maps are available, i.e. Inline Diffusion. The Brain Dot Engine has been shown to reduce exam times by 20% and significantly reduce the need for manual parameter adjustments.\*





\*Data on file; results may vary. – Results: Prof. Forsting, Prof. Antoch, Department of Diagnostic and Interventional Radiology and Neuroradiology, University Hospital Essen, Germany

## Neurovascular

#### Head/Neck 20, Body 18 and Spine 32

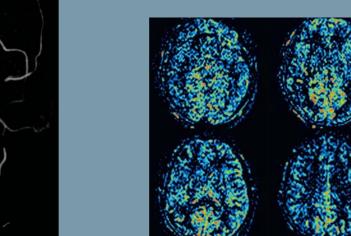
The flexibility of Tim 4G allows you to easily create your own neurovascular array. The combination of Tim's Head/Neck 20, Body 18, and Spine 32 coils enables a seamless imaging field of view from the heart to the top of the head to ease examinations such as the carotid arteries or brachial plexus.



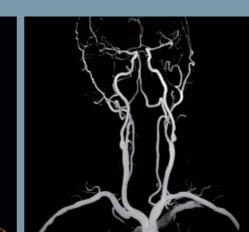




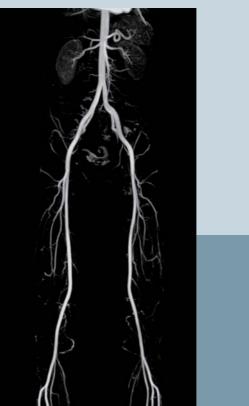
3D FLASH ce-MRA, MIP, GRAPPA 2, 448 matrix, SL 0.7 mm.







## TimCT Angio Dot Engine



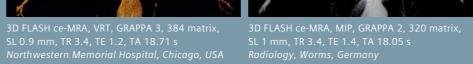
TimCT Angio Dot Engine\* employs the revolutionary TimCT (Continuous Table move) technology for large field of view angiographies with smooth workflow and homogeneous image quality. No time is lost due to inter station table move, and there is no need to compose images. Thanks to the streamlined and automated workflow and the fast acquisition time with TimCT Angio Dot Engine, a complete peripheral vessel runoff exam can be performed in less than 15 minutes\*\* with exceptional homogeneous image quality.

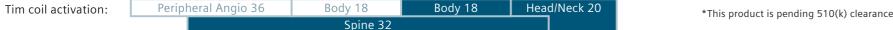
TimCT Angio Dot Engine offers optimized protocols for peripheral vessel runoff exams. It allows CT-like scanning with MR: Just define the start and end of the scan range. There is no need to plan multiple











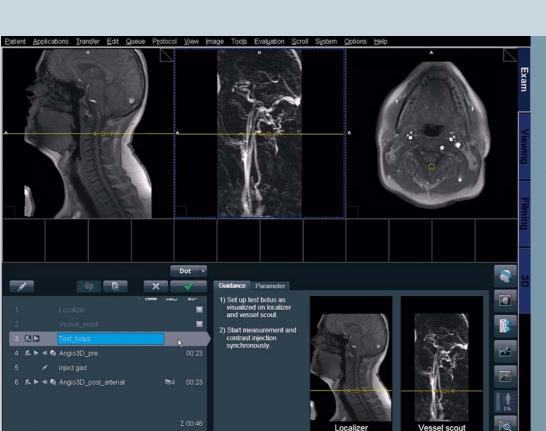
\*This product is pending 510(k) clearance and is not commercially available in the US.

<sup>\*</sup>CAUTION: Investigational Device. Limited by U.S. Federal Law to Investigational Use.

<sup>\*\*</sup>Data on file; results may vary.

## Angio Dot Engine

The Angio Dot Engine\* helps take the complexity out of MR angiography examinations. It enables the user to perform high spatial resolution, contrast-enhanced MR angiography with optimized contrast to noise ratio.



After a simple click, the localizer and vessel scout are acquired and loaded into the Graphical Slice Positioning (GSP). The next workflow step opens a customizable Guidance View that visually explains how to set up the test bolus measurement correctly. According to the instructions, you adjust the test bolus slice in the GSP. The planning of the test bolus step is completed by simply clicking on apply.

## Spine cervical/ Neck imaging

#### Head/Neck 20 and Spine 32

The neck portion of the Head/Neck 20 coil enables excellent cervical spine imaging through a combination of high SNR and an open design to accommodate a wide variety of patient shapes and sizes. The Head/Neck 20 coil can be combined with the Spine 32 coil to image further down the spine at any time during the exam and without patient repositioning.

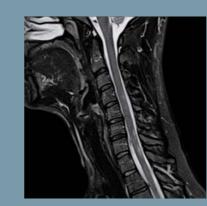




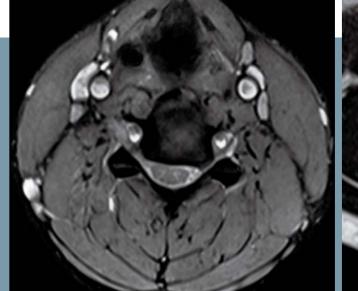
T1 TSE, 256 matrix, SL 3 mn TR 543, TA 9.6, TA 2:46 min



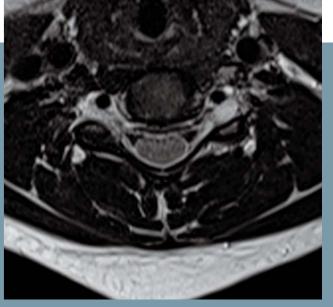
T2 TSE Restore, 384 matrix, SL 3 mm, TR 3500, TE 104, TA 3:36 min



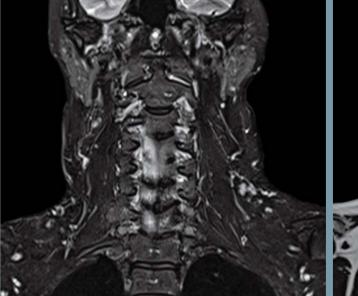
T2 TIRM, 256 matrix, SL 3 mm,
TR 4530, TE 77, TI 150, TA 4:09 min
Northwestern Memorial Hospital, Chicago,



T2 MEDIC, 256 matrix, SL 3 mm, TR 580, TE 24, TA 5:02 min Northwestern Memorial Hospital, Chicago, USA



T2 TSE Restore, 256 matrix, SL 3 mm, TR 4200, TE 84, TA 3:42 min







'2 TSE Restore, DIXON fat image, 256 matrix, SL 3 mm, 'R 5420, TE 87, TA 4:32 min

Tim coil activation: Peripheral Angio 36 Body 18 Body 18 Head/Neck 20
Spine 32

<sup>\*</sup>This product is pending 510(k) clearance and is not commercially available in the US.

## Spine thoracic lumbar

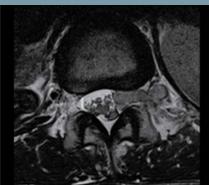
#### Spine 32

With a high density of elements, Tim 4G's Spine 32 coil offers a flexible solution that accommodates a wide variety of lumbar spine patients. The extensive coverage of the coil makes patient positioning easier and each row of elements can be switched on or off from the user console to maximize speed and SNR. A total of 12 elements would normally be selected for routine lumbar exams enabling iPAT to reduce exam times.





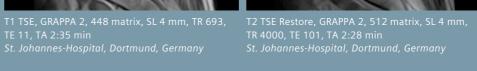




T2 TSE, 384 matrix, SL 4 mm,TR 3450,

Head/Neck 20







Tim coil activation: Peripheral Angio 36 Body 18 Body 18 Spine 32

## Whole Spine

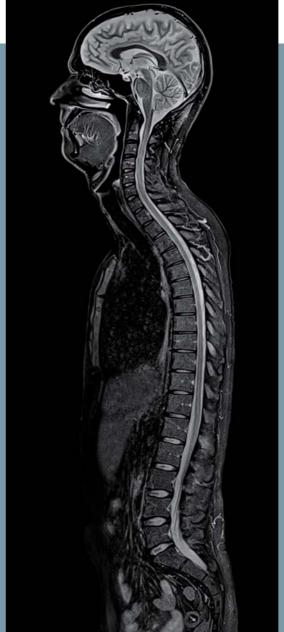
#### Head/Neck 20 and Spine 32

Whole spine imaging in two or three steps without the need for patient repositioning is easily achieved with the Spine 32 coil and the Head/Neck 20 coil. In addition, the *syngo* user interface allows you to quickly move back and forth between spinal regions if exams call for images before and after contrast agents. *syngo* Composing makes it possible to view the entire spine as one, seamless image for a comprehensive evaluation.





T2 TSE, GRAPPA 2, 4 steps, 512 matrix, SL 4 mm, TR 3500. TE 83. TA 4x2:51 min



T2 TIRM, GRAPPA 2, 4 steps, 384 matrix, SL 4 mm. TR 3500. TE 34. Tl 160. TA 4x3:47 min



T2 TSE Restore, GRAPPA 2, 2 steps, 512 matrix, wwSL 4 mm, TR 4000, TE 101, TA 2x2:28 min St. Franziskus Hospital, Muenster, Germany

15

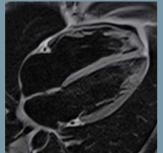
Tim coil activation: Peripheral Angio 36 Body 18 Body 18 Head/Neck 20
Spine 32

## Chest & Heart

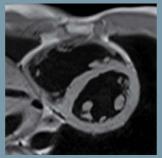
#### **Body 18 and Spine 32**

Imaging of the chest and heart is challenging due to the complexity of respiratory and cardiac motion. The Body 18 coil combines with the Spine 32 coil to offer up to 30 elements in a single field of view for chest or cardiac exams. This high density of elements enables high SNR and increased parallel imaging factors in any direction to achieve ultra-fast acquisition times. In addition, *syngo* PACE offers software based triggering and gating resulting in superb thoracic and abdominal image quality.

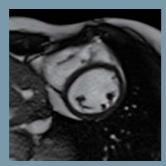




T2 TSE Dark Blood, GRAPPA 3, 256 matrix, SL 5 mm, TR 2033.8 TE 60, TA 8.2 s



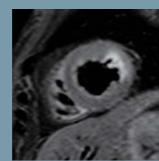
T1 TSE Dark Blood, GRAPPA 2, 256 matrix, SL 5 mm, TR 2064.6, TE 28. TA 12.42 s



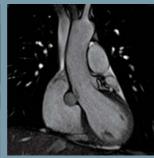
TrueFISP cine retro, GRAPPA 4, 192 matrix, SL 6 mm, TR 49.7, TE 1.2, TA 4.53 s



GRAPPA 3, respiration-triggered, 320 matrix, SL 4 mm, TR 4044.4, TE 102, TI 180, TA 4:10 min



TIRM Dark Blood, 256 matrix, TrueFISP cine
SL 6 mm, TR 1825.5, TE 56, 320 matrix, ST 170, TA 9.2 s TA 1.3, TA 9.
Centre Cardio Thoracique de Monaco, Monaco



TrueFISP cine, GRAPPA 2, 320 matrix, SL 4.5 mm, TR 56.7 TA 1.3, TA 9.83 s

Cardiac Dot Engine

Cardiac imaging is widely regarded as one of the most complex exams in MRI. To help make cardiac MRI routine, the Cardiac Dot Engine guides you through the examination to achieve excellent results, consistently. Clinical testing of the Cardiac Dot Engine showed a significant increase in cardiac MR patient throughput by 50%.\*



Close Guidance to switch to Parameter Card or

Cardiac exams are easier and more consistent with the Cardiac Dot Engine. Five simple guidance steps assist the user in acquiring the basic cardiac views. The intuitive text and image examples provide support throughout the exam.

17

Tim coil activation: Peripheral Angio 36 Body 18 Body 18 Head/Neck 20
Spine 32

\*Data on file; results may vary. - Results: Dr. Russell Bull, Royal Bournemouth Hospital, U.K.

## Abdomen

(1 Body 18 coil)

#### Body 18 and Spine 32

The all new Body 18 coil advances abdominal imaging with an ultra-high density array of elements and extended coverage in a light and flexible design. Combining the Body 18 coil with the Spine 32 coil enables 30 channel imaging. The Body 18 coil can also be rotated 90 degrees to extend the z-direction coverage.



T2 HASTE SPAIR, GRAPPA 2, 256 matrix,





T2 TSE Restore SPAIR, GRAPPA 2, with BLADE, respiration-triggered, 320 matrix, SL 6 mm, TR 2899.7, TE 93, TA 3:46 min



## Abdomen

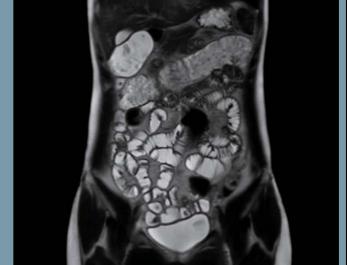
(2 Body 18 coils)







T2 TSE, GRAPPA 2, respiration-triggered, 512 matrix, SL 6 mm, TR 3507.6, TE 102, TA 04:50





Body 18 Body 18 Head/Neck 20 Tim coil activation: Peripheral Angio 36 Spine 32

Tim coil activation:

Peripheral Angio 36

Body 18

Spine 32

## Abdomen Dot Engine

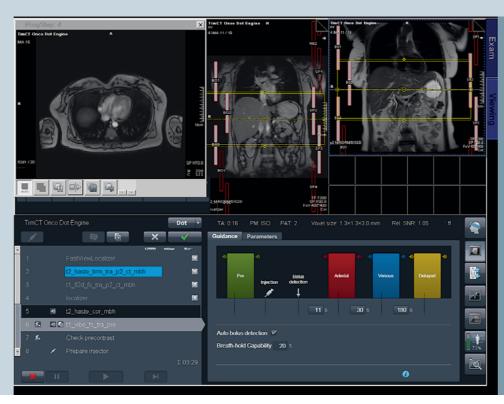
One of the most complex MR exams is an exam of the liver. Today, the challenge is the calculation of the timing. The Abdomen Dot Engine gives unique guidance through the examination and assists the user in important workflow steps to achieve excellent results, consistently. Clinical testing of the Abdomen Dot Engine showed a 28% increase in timing accuracy for enhanced liver examinations.\*



Dot's Guidance View intuitively lisplays the different phases of the ver dynamics. On this timeline, he user can easily plan the liver ne user has input the settings and tarted the scan, the liver dynamic scans run without any further user nteraction. The same timeline is area while the liver dynamic examination is performed. This makes it easy to keep an eye on the phase is already measured and hat phase comes next.

## TimCT Onco Dot Engine

TimCT Onco Dot Engine employs the revolutionary TimCT (Continuous Table move) technology for large field of view exams, even up to whole body. Combined with our unique Dot technology providing additional workflow benefits such as AutoBolusDetection, Timeline, AutoFOV, TimCT helps users achieve a smooth workflow and homogeneous image quality. There is no time lost in examinations due to inter-station table move and no need to compose images. Thanks to the streamlined and automated workflow and the fast acquisition time with TimCT Onco Dot Engine, a comprehensive and complete whole body scan i.e., for staging of advanced tumors, can be performed in less than 30 min total exam time.\*

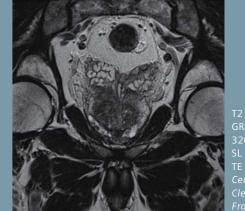


mCT Onco Dot Engine includes I sequences required for a omprehensive and fast assessmen of pathologies: axial 2D multi-slice FLASH and T2-weighted TSE maging. The TSE variant can also be combined with syngo BLADE for motion insensitivity. The FLASH variant can also be combined with DIXON to acquire inphase, opposed phase, water and fat images in one measurement. And for assessment technologies for easy and patient ilored dynamic scans are fully ntegrated. No need to plan in

## Pelvis

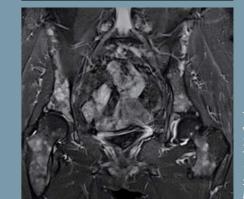
#### Body 18 and Spine 32

MR exams of the pelvis can now be acquired routinely with up to 30 channels for outstanding SNR and parallel imaging performance. The extended coverage of the Body 18 coil makes it possible to cover the entire pelvis and is combined with the Spine 32 coil to improve SNR.





2 TSE, DIXON water ΓΕ 86, TA 3:26 min



2 TIRM GRAPPA 2 0 TA 3·46 min



\*Data on file; results may vary. - Results: D.R. Martin, Emory University, Atlanta, Georgia, United States

\*Data on file; results may vary.

Tim coil activation:

Peripheral Angio 36

Body 18

Body 18 Head/Neck 20

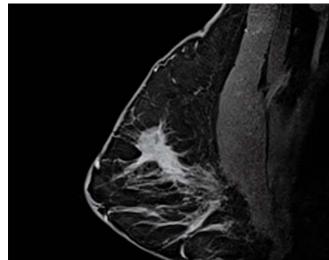
Spine 32

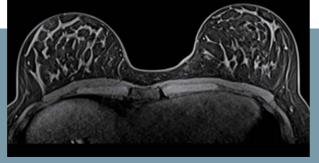
## **Breast**

#### **Breast coils**

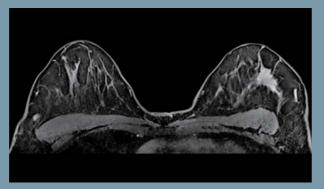
A variety of breast coils are enabled by the Tim Coil Interface resulting in flexible breast imaging options to meet a variety of needs. From clinical imaging to biopsy guidance, the MAGNETOM Aera offers a wide selection of breast coils and enables outstanding image quality. Additionally, the 70 cm Open Bore of MAGNETOM Aera makes it possible to comfortably accommodate more patients.



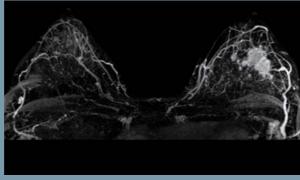




D dynVIEWS SPAIR. GRAPPA 3, 384 matrix, SL 1.6 mm, R 4.7, TE 1.8, TA 1:28 min



3D dynVIEWS, GRAPPA 3, 448 matrix, SL 1.5 mm, TR 5.3, TE 2.6, TA 1:31 min Imagerie Paris Centre, Paris, France



3D dynVIEWS subtraction, MIP, GRAPPA 3, 448 matrix, SL 1.5 mm, TR 5.3, TE 2.6, TA 1:31 min Imagerie Paris Centre, Paris, France

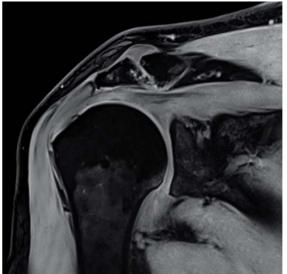
3D dynVIEWS, GRAPPA 3, 448 matrix, SL 2 mm, TR 5.3, TE 2.6, TA 1:33 min Imagerie Paris Centre, Paris, France

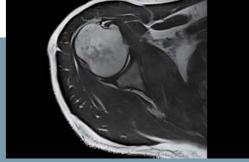
## Shoulder

#### **Shoulder 16**

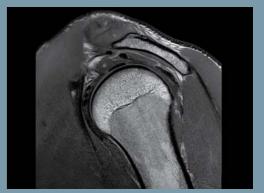
The Shoulder 16 coil currently offers the industry's highest number of elements for shoulder imaging. This high density of elements can be used to achieve excellent shoulder exams with outstanding speed. The Shoulder 16 coil is delivered in both small and large versions to accommodate more patient sizes and shapes.



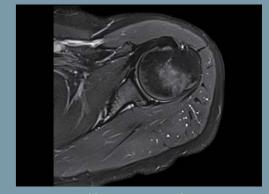




T2 TSE, with BLADE, 256 matrix, SL 3 mm, TR 4000, TE 81, TA 2:40 mi



T1 TSE, GRAPPA 2, 384 matrix, SL 3 mm, TR 736, TE 12, TA 4:22 min Northwestern Memorial Hospital, Chicago, US,



T2 TSE SPAIR, with BLADE, 256 matrix, SL 4 mm, TR 3000, TE 81, TA 3:30 min

3D T1 VIBE water excitation, 320 matrix, SL 1.5 mm, TR 16, TE 7.1, TA 4:31 min

## **Elbow**

### Flex Small 4 and Flex Large 4

Examinations of the elbow require a highly flexible coil solution. The small and large Flex coils offer 4 channels in a design that easily fits the shape of the elbow. And with the access provided by MAGNETOM Aera's 70 cm Open Bore, it's possible to perform most elbow exams with the patients arm at their side.

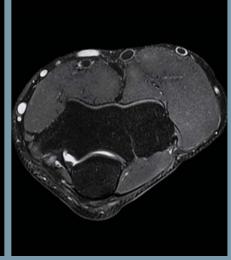




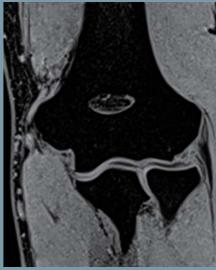
PD TSE, 384 matrix, SL 3 mm, TR 3000, TE 37, TA 3:21 min



PD TSE, 384 matrix, SL 3 mm, TR 3000, TE 37 TA 3:21 min



PD TSE FatSat, 320 matrix, SL 3 mm, TR 3000, TE 37, TA 2:57 min



3D T1 VIBE water excitation, 256 matrix, SL 0.5 mm, TR 16, TE 6.5, TA 5:36 min

## Hand/Wrist

#### Hand/Wrist 16

The Hand/Wrist 16 coil concentrates 16 channels over the hand and wrist area to enable superb imaging. The coil is large enough to accommodate a wide variety of patients while still providing excellent SNR. The rigid design reduces involuntary patient motion for superb image quality.

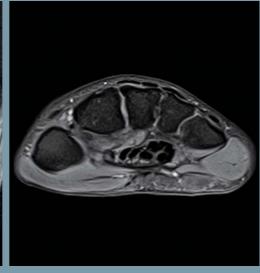




PD TSE FatSat, GRAPPA 2, 512 matrix, SL 3 mm, TR 3000, TE 34. TA 1:57 min



T1 TSE, GRAPPA 2, 256 matrix, SL 3 mm, TR 550, TE 13, TA 1:13 min



T1 TSE FatSat, 256 matrix, SL 3 mm, TR 745, TE 15. TA 3:10 min



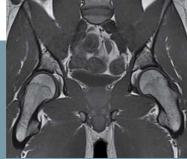
3D DESS water excitation, 384 matrix, SL 1.5 mm, TR 18.8, TE 7.2, TA 4:02 min St. Franziskus Hospital, Muenster, Germany

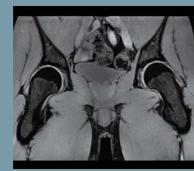
## Hip

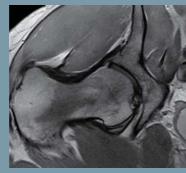
#### **Body 18 and Spine 32**

The Body 18 coil combines a high-density array with large or small field of view coverage for hip imaging. Hip exams with high SNR and high resolution are easily achieved. The coil is generally large enough to cover both hips for bilateral imaging or can be wrapped around one side to increase the element density when examining unilaterally.

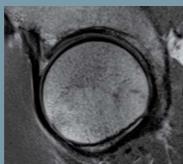








PD TSE Restore, 3

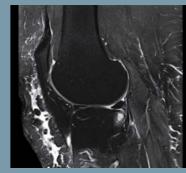


## Knee

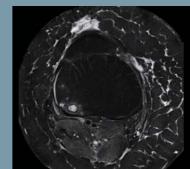
#### Tx/Rx 15-Channel Knee Coil

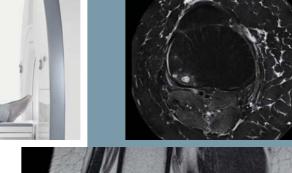
The Tx/Rx 15-Channel Knee Coil enables parallel imaging in any direction to power 2D and 3D knee exams with excellent resolution and a fast exam time. The coil's large architecture accommodates a wide variety of patients. If necessary, the Body 18 coil can also be used to image knees.

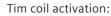




T2 TSE Restore FatSat,







Peripheral Angio 36

Body 18

Body 18

Head/Neck 20

Spine 32 30

## **Knee Dot Engine**

MR examinations of the knee are commonly performed in a variety of settings. The Knee Dot Engine is designed to provide an efficient and flexible 2D or 3D imaging workflow. The 3D Knee Dot Engine supports the paradigm shift to increased 3D imaging in musculoskeletal examinations.





In the Guidance View the user gets intuitive, step-by-step guidance for expert scans. Here customizable reference images are displayed to check if the automatically initiated slice positioning is correct. If the positioning is done, the user just needs to confirm and start the high-resolution imaging scan.

Plan the Multi-Planar Reconstructions (MPRs) while scanning. The user can easily plan the MPRs of the 3D scans to be performed in-line. For this an option for the three main slice orientations is suggested. The user simply selects the orientation and plans the 3D reconstruction on the localizer images in the image display area on the screen. After that the postprocessing is readily prepared even before the 3D scanning has finished. With this planning, the Knee Dot Engine will generate the reformatted images as soon as the first 3D sequence data are available.

## Foot/Ankle

#### Foot/Ankle 16

The Foot/Ankle 16 coil provides extended coverage to cover both the foot and ankle and yet provides a high concentration of elements for small fields of view with high resolution. The rigid design holds the patients foot and ankle securely in place and is large enough to accommodate a wide range of patients and due to DirectConnect the set-up can be done easy and fast, without plugging any cable.





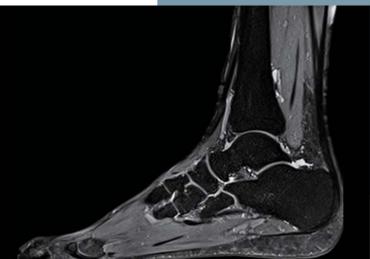
T1 TSE, GRAPPA 2, 384 matrix, SL 3 mm, TR 640, TE 11, TA 1.54 min



T1 TSE, GRAPPA 2, 512 matri: SL 2 mm, TR 570, TE 9.9,



T2 TSE, with BLADE, 384 matrix, SL 3 mm TR 5000, TE 95, TA 2·45 min



3D PD SPACE Restore SPAIR, GRAPPA 2, 320 matrix, SL 0.7 mm, TR 1000, TE 36, TA 6 min

# Peripheral & Whole-body Angiography

#### Whole-body coverage of coils

Imaging the vessels of the peripheral vasculature or even the whole body is made possible by the highly flexible combination of Tim coils and the *syngo* user interface. Moving from region to region and dynamically turning coils on and off allows you to perform these complex exams quickly and consistently.





3D T2 SPACE NATIVE, MIP, GRAPPA 2, 3 steps, 384 matrix, SL 1.3 mm, TR 902.1, TE 79, TA 4:58 min, no contrast agent applied.

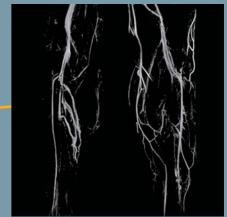
Northwestern Memorial Hospital, Chicago, USA



3D FLASH ce-MRA, MIP, GRAPPA 3, 3 steps, 384 matrix, SL 1.25 mm, TR 2.7, TE 1, TA 50 s St. Johannes-Hospital, Dortmund, Germany







3D FLASH TWIST, MIP dynamic, GRAPPA 2, 384 matrix, SL 1.8 mm, TR 3.2, TE 1.3, TA 6.62 s/phase

Tim coil activation:

Peripheral Angio 36

Body 18

Body 18

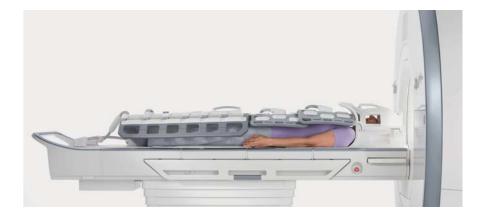
Head/Neck 20

Spine 32

## Whole Body

## Whole-body coverage of coils

Imaging from meters to microns. The flexibility of Tim makes it possible to cover the entire body up to 205 cm so you can examine large organs or organ systems and still have the signal and resolution to view small details.





Tim coil activation:

Peripheral Angio 36

Body 18 Spine 32 Body 18

Head/Neck 20

T2 TIRM, GRAPPA 2, 7 steps, 384 matrix, SL 5 mm, TR 5500, TE 54, TI 160, TA 7x2:12 min

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