

More productivity. More applications. More confidence.

SIEMENS



# MAGNETOM ESSENZA

Established 1.5T performance. With Tim+Dot\*.

[www.siemens.com/MAGNETOM-ESSENZA](http://www.siemens.com/MAGNETOM-ESSENZA)

Experience extended 16-Channel productivity with Tim [46x16]  
and the included 16-Channel Head/Neck coil<sup>1,2</sup>

## 1. Higher flexibility

- Seamless combination of up to 4 Matrix coils with up to 46 coil elements
- Even more coverage with the IsoCenter Matrix + 16-Channel Head/Neck coil with two integrated connectors + up to 2 Body matrix coils
- Easier coil handling with combined Head/Neck parts and comfortable release mechanism
- Keep the posterior part of the 16-Channel Head/Neck on the patient table for any abdominal exam



Body matrix coil



16-channel Head/Neck coil

## 2. Upgraded imaging and iPAT performance

- Twice the number of elements (12 instead of 6) in the head region for improved GRAPPA performance
- Higher performance in abdominal imaging with IsoCenter Matrix and up to 2 Body matrix coils
- Access to the optional 14-ch Extremity coil<sup>3</sup> for advanced iPAT capabilities in any direction and improved B1 performance with iTX

## 3. More confidence

- Up to 20% higher SNR<sup>4</sup> or number them with the 16-Channel Head/Neck coil
- Complete coverage of the Head/Neck region
- Excellent image quality, in combination with the integrated IsoCenter Matrix coil, for example in C-spine and whole-spine imaging



14-channel Extremity coil<sup>2</sup>

<sup>1</sup> Instead of 10-element Head/Neck coil

<sup>2</sup> Some of the features mentioned in this material are still under development and not yet commercially available for MAGNETOM ESSENZA. Their future availability cannot be ensured.

<sup>3</sup> optional

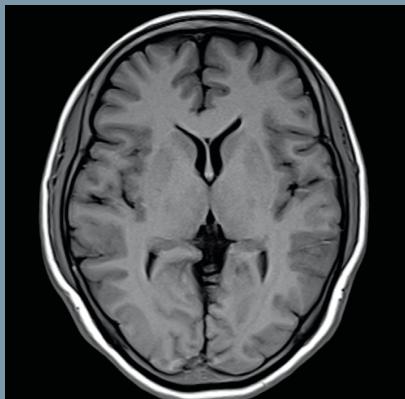
<sup>4</sup> Data on file; results may vary.

Answers for life.

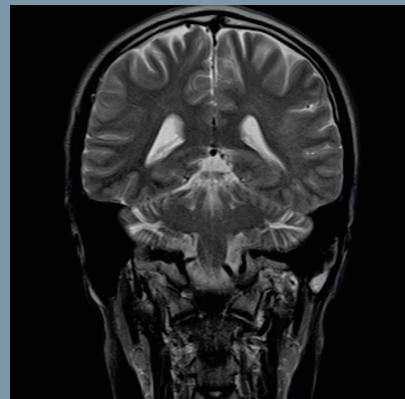
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## The new 16-Channel MAGNETOM ESSENZA...

... in Neuro imaging with the 16-ch Head/Neck\* coil:

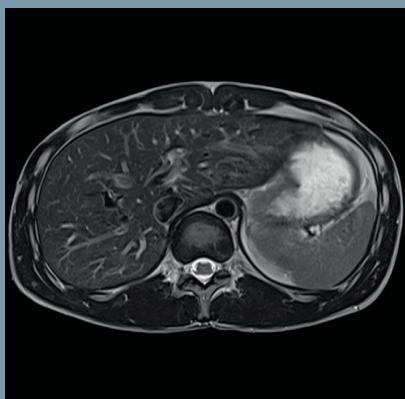


Outstanding SNR in the complete field of view. T1 TIRM dark fluid example, acquired with GRAPPA 2

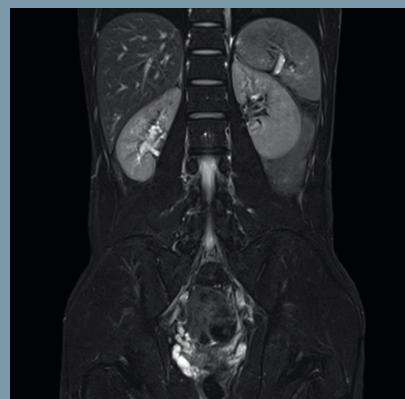


Excellent Speed: T2 TSE, 320 matrix, 20 slices, acquired in 32s

... in abdominal imaging:



Outstanding image quality with iPAT: T2 TSE example with GRAPPA 2



Excellent SNR also for whole Body: T2 TSE Dixon example, acquired in two steps

... in MSK imaging with the 14-Channel Extremity coil:



Cutting-edge image quality: T2 TSE example, 512 matrix, 25 slices in 2:19 min



Or excellent speed: T2 TSE example, 320 matrix, GRAPPA 3, 25 slices in 1:25 min

Find out more on the new 16-ch Head/Neck coil on [www.siemens.com/MAGNETOM-ESSENZA](http://www.siemens.com/MAGNETOM-ESSENZA)

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