MAGNETOM Espree
Image Gallery
www.usa.siemens.com/espree
Thank you to all our customers worldwide\(^1\) who contributed to this book.

**Brazil:**
- Centro de Diagnosticos Brasil, Sao Paulo
- Clinica Radiologica, Feira de Santana
- Clinica Vero, Caxias Do Sul
- Clinica Villas Boas, Brasilia
- Clinica X-Leme, Curtiba
- Hospital Israelita Albert Einstein, Sao Paulo
- Hospital Sirio Libanes, Sao Paulo
- Labscardiolab Centro, Niteroi
- Real Hospital Portugues, Recife

**China:**
- Beijing Hospital, Beijing
- Changzhou No. 3 People Hospital, Changzhou
- Panyu Center Hospital, Guangzhou

**Germany:**
- Institut für Mikrotherapie, Bochum
- KKH Wilhelmstift Hamburg, Hamburg
- Klinikum Bremen Mitte, Bremen
- Neurochirurgie, Guenzburg
- University Hospital, Erlangen
- University Hospital, Essen
- University Hospital, Freiburg
USA:
• Barnes-Jewish Hospital and Barnes-Jewish West County Hospital, St. Louis
• Battlefield Imaging, Ringgold
• Crawford County Memorial Hospital, Denison
• Desert Radiologists Palomino, Las Vegas
• HUP Perelman Center for Advanced Medicine, Philadelphia
• Jacksonville Site, Jacksonville
• Kona Community Hospital, Kealakekua, Hawaii
• Radiology Associates, Corpus Christi
• Smyth County Community Hospital, Marion
• South Jersey Radiology Associates, Turnersville
• University of Utah, Salt Lake City
• Zwanger-Pesiri Radiology, New York

Philippines:
• Cardinal MRI Center, Manila

Mexico:
• Hospital San José Tec de Monterrey, City of Monterrey

Uruguay:
• Hospital Britanico, Montevideo

Venezuela:
• Instituto Diagnostico Venecia, Barcelona
• Policlínica Santa Ana, Ciudad Bolivar
Brain Imaging

The MAGNETOM® Espree Head Matrix coil delivers excellent performance and pristine image quality for standard and advanced applications like functional imaging (BOLD), perfusion or diffusion tensor imaging, and tractography.

Head Matrix Coil

High-quality routine 2D imaging for adult and young patients\(^2\) with sub-millimeter in-plane resolution

T1 SE, matrix 320, slices 20, TR 500, TE 9, TA 3:22 min
Cardinal MRI Center, Manila, Philippines

T2 TSE Restore, matrix 512, slices 24, TR 3000, TE 105, TA 2:54 min
Cardinal MRI Center, Manila, Philippines

T2 Dark Fluid, matrix 256, slices 20, TR 9000, TE 86, TI 2500, TA 2:24 min
Cardinal MRI Center, Manila, Philippines

T2 TSE Restore, matrix 512, slices 24, TR 3000, TE 105, TA 2:54 min

3-year-old patient, T1 True IR, matrix 256, slices 24, TR 4520, TE 13, TI 350, TA 1:26 min
KKH Wilhelmstift Hamburg, Hamburg, Germany
Advanced 3D imaging for crisp images with excellent through-plane resolution

T2 3D SPACE, GRAPPA 2, matrix 256, SL 1 mm, slices 176, TR 3200, TE 378, TA 3:58 min
University of Utah, Salt Lake City, USA

T2 3D SPACE Restore, GRAPPA 2, matrix 320, SL 0.6 mm, slices 61, TR 1200, TE 205, TA 4:05 min
Clinica Villas Boas, Brasilia, Brazil

3D FLASH SWI minIP, GRAPPA 2, matrix 256, SL 2.5 mm, slices 56, TR 49, TE 40, TA 3:28 min
Hospital San José Tec de Monterrey, City of Monterrey, Mexico

T1 VIBE FatSat, matrix 256, SL 1 mm, slices 64, TR 9, TE 2.4, TA 4:38 min
Kona Community Hospital, Kealakekua, Hawaii, USA
Comprehensive tumor evaluation – diffusion, perfusion, and spectroscopy

Perfusion relCBV, GRAPPA 2, matrix 128, slices 50x19, TR 1540, TE 30, TA 0.05 s/slice
Barnes-Jewish Hospital and Barnes-Jewish West County Hospital, St. Louis, USA

DTI, 6 directions, b-value 1000 + ADC map, FatSat, GRAPPA 2, matrix 128, slices 28, TR 4300, TE 103, TA 1:58 min
Hospital San José Tec de Monterrey, City of Monterrey, Mexico

T2 TSE, matrix 384, slices 23, TR 5000, TE 96, TA 2:25 min
Hospital San José Tec de Monterrey, City of Monterrey, Mexico

Perfusion relCBV, GRAPPA 2, matrix 128, slices 50x19, TR 1540, TE 30, TA 0.05 s/slice
Barnes-Jewish Hospital and Barnes-Jewish West County Hospital, St. Louis, USA

2D ASL, matrix 64x64, SL 8 mm, slices 9, TR 2500, TE 16, TA 3:52 min

Spectroscopy CSI SE 90 NA 4, TR 1500, TE 135, TA 7:08 min
Changzhou No. 3 People Hospital, Changzhou, P.R. China
ToF 3D Angio – great level of detail

High resolution

3D FLASH ToF, MIP, GRAPPA 2, matrix 256, SL 0.7 mm, slices 158, TR 37, TE 4.9
Centro de Diagnosticos Brasil, Sao Paulo, Brazil

3D FLASH ToF, VRT, GRAPPA 2, matrix 256, SL 0.7 mm, slices 158, TR 37, TE 4.9
Centro de Diagnosticos Brasil, Sao Paulo, Brazil

T2 TSE, GRAPPA 2, matrix 512, SL 2 mm, TR 5500, TE 127, TA 3:13 min
Institut für Mikrotherapie, Bochum, Germany

High SNR

Advanced capabilities

Excellent contrast

T2 TSE, GRAPPA 2, 32-channel Head coil, matrix 512, SL 5 mm, slices 20, TR 5000, TE 95, TA 1:55 min

DTI, Fibertracking, 20 directions, GRAPPA 2, matrix 130, slices 63x20, TR 3200, TE 105
Hospital Britanico, Montevideo, Uruguay

3D SPACE DIR, GRAPPA 2, matrix 192, SL 1.5 mm, slices 128, TR 7500, TE 350, TI 3000, TA 5:54 min
Head/Neck Imaging

The 16-element Head/Neck Matrix coil is designed for excellent coverage, easy set-up, and high patient comfort.

Tim® (Total imaging matrix) technology and the integrated Spine Matrix coil make repositioning and manual coil selection unnecessary.

Head/Neck Matrix Coil

T1 SE, matrix 512, SL 4 mm, slices 20, TR 639, TE 20, TA 5:20 min

T2 3D SPACE Restore, GRAPPA 3, matrix 320, SL 1 mm, slices 60, TR 1500, TE 173, TA 5:24 min

T2 TIRM, matrix 512, SL 4 mm, slices 20, TR 5940, TE 36, TI 160, TA 5:22 min

Klinikum Bremen Mitte, Bremen, Germany

T2 HASTE thick-slab, GRAPPA 2, matrix 384, TR 4500, TE 755, SL 60 mm, TA 1.76 s
Excellent FatSat – whichever technique you prefer

3D VIBE Dixon water image, GRAPPA 2, matrix 320, SL 2 mm, slices 56, TR 4.7, TE 2.1, TA 3:47 min
Cardinal MRI Center, Manila, Philippines

T2 TIRM, GRAPPA 2, matrix 256, SL 4 mm, slices 19, TR 5350, TE 51, TI 160, TA 4:28 min
Beijing Hospital, Beijing, P.R. China

T2 TSE Dixon water image, GRAPPA 2, matrix 320, SL 3 mm, slices 25, TR 5950, TE 82, TA 3:29 min

High level of detail in ceMRA

3D FLASH ceMRA, MIP, matrix 512, SL 1 mm, slices 88, TR 3.4, TE 1.3, TA 22.33 s
Clinica Villas Boas, Brasilia, Brazil

9-year-old patient, T2 TIRM, GRAPPA 3, matrix 448, SL 4 mm, slices 25, TR 8641, TE 65, TI 170, TA 3:02 min
Klinikum Bremen Mitte, Bremen, Germany
Spine Imaging

High image quality and no more manual coil positioning make spine imaging with Tim very efficient.

A large Field-of-View (FoV) coverage and state-of-the-art iPAT performance allow for an easy and streamlined workflow.

Cervical Spine

- **T1 TSE**, matrix 384, SL 3 mm, slices 16, TR 609, TE 9.8, TA 2:44 min
  - *Instituto Diagnostico Venecia, Barcelona, Venezuela*

- **T2 3D SPACE Restore**, GRAPPA 2, matrix 256, SL 0.9 mm, slices 60, TR 1500, TE 134, TA 5:06 min

- **T2 TIRM**, GRAPPA 2, matrix 256, TR 3500, TE 40, TI 160, TA 3:13 min

- **T2 MEDIC**, GRAPPA 2, matrix 320, SL 3 mm, slices 29, TR 561, TE 17, TA 5:12 min
  - *Cardinal MRI Center, Manila, Philippines*

Spine Matrix Coil
Thoracic Spine

T1 TSE, matrix 384, SL 3 mm, slices 15, TR 560, TE 9.6, TA 4:47 min

T2 TSE Restore Dixon water image, matrix 256, SL 3 mm, slices 15, TR 4000, TE 95, TA 3:53 min

T2 TSE Restore, matrix 384, SL 4 mm, slices 11, TR 3160, TE 103, TA 2:42 min

Cardinal MRI Center, Manila, Philippines

T2 TSE, matrix 320, SL 4 mm, slices 13, TR 4000, TE 99, TA 2:36 min

Jacksonville Site, Jacksonville, USA
Lumbar Spine

141 kg (311 lbs) patient, T2 TSE, matrix 320, SL 3 mm, slices 14, TR 3600, TE 99, TA 3:33 min
Clinica Radiologica, Feira de Santana, Brazil

141 kg (311 lbs) patient, T2 TSE, matrix 320, SL 3 mm, slices 14, TR 3600, TE 99, TA 3:33 min
Zwanger-Pesiri Radiology, New York, USA

T2 TIRM, GRAPPA 3, matrix 384, SL 4 mm, slices 12, TR 3850, TE 75, TI 135, TA 3:32 min
Hospital Israelita Albert Einstein, Sao Paulo, Brazil
Discover the full potential for your body examination. Apply any sequence, address your clinical questions, and handle challenging patient condition with applications like syngo® BLADE or PACE.

The combination of Body Matrix coil and Spine Matrix coil is an ideal combination for an easy patient set-up and state-of-the-art imaging performance.

Body Matrix Coil
Excellent image quality and fat saturation

T1 3D VIBE FatSat, GRAPPA 2, matrix 288, SL 3 mm, slices 80, TR 5.1, TE 2.4, TA 20.8 s

T1 FLASH in-phase, matrix 256, SL 6 mm, slices 34, TR 144, TE 4.9, TA 24.5 s

T1 FLASH opposed-phase, matrix 256, SL 6 mm, slices 34, TR 144, TE 2.4, TA 24.5 s

T2 HASTE, GRAPPA 2, matrix 256, SL 6 mm, slices 34, TR 1400, TE 95, TA 14 s

T1 3D VIBE in-phase, GRAPPA 2, matrix 288, SL 3 mm, slices 72, TR 7.2, TE 4.8, TA 21.14 s

T1 3D VIBE opposed-phase, GRAPPA 2, matrix 288, SL 3 mm, slices 72, TR 7.2, TE 2.4, TA 21.14 s
Comprehensive body evaluation including 3D VIBE and diffusion

T1 3D VIBE SPAIR, matrix 256, SL 4 mm, slices 60, TR 3.6, TE 1.6, TA 25 s
HUP Perelman Center for Advanced Medicine, Philadelphia, USA

Diffusion b-value 500 + ADC map, GRAPPA 2, matrix 192, SL 7 mm, slices 2x22, TR 3900, TE 82, TA 0.03 s/slice
HUP Perelman Center for Advanced Medicine, Philadelphia, USA

T1 FLASH FatSat, GRAPPA 2, matrix 256, SL 7 mm, slices 31, TR 166, TE 2.7, TA 48 s
HUP Perelman Center for Advanced Medicine, Philadelphia, USA

T2 TIRM, GRAPPA 2, matrix 320, SL 6 mm, slices 16, TR 4000, TE 91, TI 160, TA 37 s
greMRE, GRAPPA 2, matrix 256, SL 5 mm, slices 24, TR 50, TE 22.6, TA 14 s
Professional sequences for special clinical needs

T2 TSE, with BLADE, GRAPPA 2, matrix 320, SL 5 mm, slices 19, TR 7858.9, TE 107, TA 1:20 min
*Klinikum Bremen Mitte, Bremen, Germany*

T2 TSE, without BLADE, GRAPPA 2, matrix 256, SL 6 mm, slices 26, TR 3400, TE 111, TA 42 s
*Klinikum Bremen Mitte, Bremen, Germany*

T2 3D SPACE FatSat, GRAPPA 2, matrix 384, SL 4 mm, slices 34, TR 3484, TE 306, TA 3:11 min

T2 TSE, with BLADE, matrix 320, SL 6 mm, slices 24, TR 7396.5, TE 108, TA 3:12 min
*South Jersey Radiology Associates, Turnersville, USA*

T2 HASTE thick-slab MRCP, matrix 512, SL 60 mm, slice 1, TR 4500, TE 1050, TA 2 s
*Barnes-Jewish Hospital and Barnes-Jewish West County Hospital, St. Louis, USA*

T2 3D SPACE Restore SPAIR, Urography, TR 1800, TE 669
*Changzhou No. 3 People Hospital, Changzhou, P.R. China*
Whole abdomen – easy and automated in two steps

T2 HASTE 2 steps, GRAPPA 2, matrix 320, SL 6 mm, slices 30, TR 1000, TE 90, TA 2x20 s
Klinikum Bremen Mitte, Bremen, Germany

T1 3D VIBE FatSat 2 steps, GRAPPA 2, matrix 256, SL 2.5 mm, slices 72, TR 4.8, TE 2.4, TA 2x21 s
Policlinica Santa Ana, Ciudad Bolivar, Venezuela

T2 HASTE 2 steps, GRAPPA 2, matrix 256, SL 7 mm, slices 26, TR 700, TE 92, TA 2x10 s
HUP Perelman Center for Advanced Medicine, Philadelphia, USA

Whole-body REVEAL

Diffusion b-value 500 MPR, TR 4400, TE 71
Changzhou No. 3 People Hospital, Changzhou, P.R. China

Chest imaging

T1 FLASH, matrix 320, SL 5.5 mm, TR 200, TE 2.8, TA 15.46 s
Beijing Hospital, Beijing, P.R. China
TimCT (Continuous Table movement) opens the door to a revolutionary way of scanning, provides a smooth workflow, and the most homogeneous image quality.

TimCT Onco, T1 FLASH Dixon water image, fat image, in-phase, opposed-phase, GRAPPA 2, matrix 320, SL 5 mm, slices 84, TR 109, TE 2.4/4.8, TA 1:07 min

University Hospital, Freiburg, Germany

TimCT Onco, T1 FLASH FatSat, GRAPPA 2, matrix 320, SL 5 mm, slices 96, TR 95, TE 2.2, TA 2:25 min

University Hospital, Freiburg, Germany

T1 FLASH opposed-phase 8 steps, matrix 256, SL 5.5 mm, slices 36, TR 151, TE 2.4, TA 8x1:01 min

Hospital Israelita Albert Einstein, Sao Paulo, Brazil
Breast Imaging

The number of breast MRI studies is increasing significantly. MAGNETOM Espree is ready to meet the needs of your rising number of customers.

With a dedicated breast coil for imaging purposes or biopsy guidance and the syngo BreVis application solution, you have a sound and efficient basis for breast imaging.

Breast Matrix Coil

T1 TSE, GRAPPA 2, matrix 512, SL 4 mm, slices 32, TR 610, TE 9.9, TA 2:30 min

T2 TIRM, GRAPPA 2, matrix 320, SL 4 mm, slices 32, TR 5000, TE 68, TI 165, TA 2:25 min

Hospital Sirio Libanes, Sao Paulo, Brazil
High-resolution images in short scan times

3D dynVIEWS SPAIR, GRAPPA 2, matrix 448, SL 1.5 mm, slices 120, TR 5.3, TE 2.4, TA 1:30 min

T2 TSE, GRAPPA 3, matrix 384, SL 4 mm, slices 40, TR 3500, TE 82, TA 1:39 min

Diffusion REVEAL b-value 50 + ADC map, matrix 160, SL 4 mm, slices 2x32, TR 7000, TE 89, TA 0.06 s/slice

Hospital Sirio Libanes, Sao Paulo, Brazil
High signal-to-noise ratio (SNR) imaging with excellent contrast

T2 TIRM, with BLADE, GRAPPA 2, matrix 320, SL 4 mm, slices 32, TR 4900, TE 79, TI 150, TA 2:56 min
Centro de Diagnosticos Brasil, Sao Paulo, Brazil

3D dynVIEWS FatSat, GRAPPA 2, matrix 448, SL 1.1 mm, slices 160, TR 4.1, TE 1.6, TA 1:23 min
Hospital Sirio Libanes, Sao Paulo, Brazil

TWIST subtraction + MIP, GRAPPA 2, matrix 512, SL 1.5 mm, slices 128, TR 9.1, TE 4.7, TA 1:07 min
University Hospital, Erlangen, Germany

3D dynVIEWS FatSat subtraction PEI map, GRAPPA 2, matrix 448, SL 1.1 mm, slices 160, TR 4.1, TE 1.6, TA 1:23 min
Hospital Sirio Libanes, Sao Paulo, Brazil

3D dynVIEWS FatSat subtraction MIP, GRAPPA 2, matrix 448, SL 1.1 mm, slices 160, TR 4.1, TE 1.6, TA 1:23 min
Hospital Sirio Libanes, Sao Paulo, Brazil
Comprehensive breast imaging

T1 3D FLASH, GRAPPA 2, matrix 512, SL 1.1 mm, slices 192, TR 7.9, TE 4.8, TA 2:16 min

T2 TIRM, GRAPPA 3, matrix 384, SL 3 mm, slices 75, TR 5430, TE 66, TI 170, TA 2:32 min

3D dynVIEWS SPAIR, GRAPPA 3, matrix 352, SL 1.1 mm, slices 160, TR 5, TE 2.5, TA 1 min

3D dynVIEWS SPAIR subtraction, GRAPPA 3, matrix 352, SL 1.1 mm, slices 160, TR 5, TE 2.5, TA 1 min

3D dynVIEWS SPAIR subtraction MIP, GRAPPA 3, matrix 352, SL 1.1 mm, slices 160, TR 5, TE 2.5, TA 1 min

3D dynVIEWS FatSat + subtraction, GRAPPA 2, matrix 256, SL 1 mm, slices 160, TR 4.4, TE 1.4, TA 1 min
Cardiac Imaging

Whether your focus is on morphology or function. Your need for various image contrasts is taken care of with sequences like FLASH, TrueFISP, and Dark Blood.

Benefit from excellent performance due to high gradient power and Tim parallel imaging capabilities.

Body Matrix Coil

Whole Heart 3D
TrueFISP FatSat,
VRT, matrix 256,
SL 0.8 mm,
slices 144, TR 339.8,
TE 1.5, TA 7:22 min

T2 TSE Dark Blood, GRAPPA 2,
matrix 256, SL 5 mm, slice 1,
TR 3697.8, TE 67, TA 1:51 min

FLASH Bright Blood,
matrix 256, SL 5 mm,
slice 1, TR 85, TE 4.3, TA 19.6 s
Cardiac cine with FLASH and TrueFISP
Excellent cardiac evaluation

TrueFISP cine retro, GRAPPA 2, matrix 224, SL 8 mm, slices 25, TR 42.4, TE 1.3, TA 4.03 s/slice

TrueFISP cine retro, GRAPPA 2, matrix 224, SL 8 mm, slices 25, TR 42, TE 1.3, TA 4.03 s/slice

FLASH IR PS recon, GRAPPA 2, matrix 256, SL 8 mm, slice 1, TR 579, TE 3.3, TI 220, TA 5.37 s

FLASH IR PS recon, GRAPPA 2, matrix 256, SL 8 mm, slice 1, TR 550, TE 3.3, TI 240, TA 4x4.08 s

FLASH IR PS recon, GRAPPA 2, matrix 192, SL 8 mm, slices 8, TR 533, TE 1.1, TI 310, TA 8x0.16 s

Labscardiolab Centro, Niterói, Brazil
Comprehensive cardiovascular and morphologic imaging

Coronaries, 3D TrueFISP FatSat, matrix 384, SL 1.3 mm, slices 32, TR 310.6, TE 1.7, TA 4:15 min

Coronaries, 3D FLASH FatSat, thin MIP, TR 135.2, TE 2.4

T1 TSE Dark Blood, GRAPPA 2, matrix 256, SL 5 mm, slice 1, TR 855.3, TE 6.5, TA 6.9 s

T2 TIRM Dark Blood, matrix 256, SL 5 mm, slice 1, TR 1798.9, TE 60, TI 170, TA 12.7 s

FLASH cine retro, matrix 256, SL 5 mm, slices 30, TR 42, TE 3.3, TA 3:39 min
MR Angiography

syngo NATIVE – excellent image quality without contrast agent usage

Peripheral Angio
Matrix Coil

T2 3D TrueFISP FatSat, VRT,
GRAPPA 2, matrix 304,
SL 0.9 mm, slices 88,
TR 978.4, TE 1.8,
TA 7:01 min

T2 3D SPACE 4 steps, MIP,
GRAPPA 2, matrix 384,
SL 1.3 mm, slices 72,
TR 1892.7, TE 82, TA 9:15 min
Excellent, fast, contrast-enhanced angiography, enabled by GRAPPA

3D FLASH ceMRA, MIP, GRAPPA 2, matrix 448, SL 1.3 mm, slices 96, TR 3.1, TE 1.2, TA 20.93 s
Hospital Britanico, Montevideo, Uruguay

3D FLASH ceMRA, MIP, GRAPPA 2, matrix 384, SL 1.2 mm, slices 64, TR 3, TE 1.1, TA 52 s
Clinica Vero, Caxias Do Sul, Brazil

3D FLASH ceMRA 5 steps, MIP, GRAPPA 2, matrix 384, SL 1.2 mm, slices 64, TR 3, TE 1.1, TA 52 s
University Hospital, Freiburg, Germany
Pelvis Imaging

Perform extensive pelvis imaging with MAGNETOM Espree. Sub-millimeter resolution, different FatSat techniques, iPAT, or DWI (diffusion-weighted imaging) give you a wide range of possibilities.

Female pelvis imaging

T2 TSE, with BLADE, matrix 320, SL 6.5 mm, slices 24, TR 3300, TE 7.2, TA 2:12 min

T1 TSE SPAIR, GRAPPA 2, SL 6.5 mm, slices 16, TR 730, TE 7.2, TA 2:42 min

Diffusion b-value 400, SPAIR, GRAPPA 2, matrix 128, SL 6 mm, slices 16, TR 3100, TE 83, TA 0.04 s/slice

T1 3D VIBE Dixon water image, GRAPPA 2, matrix 256, SL 3 mm, slices 52, TR 7.5, TE 2.4, TA 26.48 s

Flex Coil large

Labscardiolab Centro, Niteroi, Brazil
Male pelvis imaging

T1 FLASH FatSat, GRAPPA 2, matrix 384, SL 3 mm, slices 28, TR 186, TE 4.2, TA 1:51 min
Institut für Mikrotherapie, Bochum, Germany

T2 TSE, GRAPPA 2, matrix 320, SL 3 mm, slices 22, TR 4000, TE 105, TA 3:52 min
Institut für Mikrotherapie, Bochum, Germany

T2 TSE FatSat, matrix 256, SL 3 mm, slices 22, TR 4290, TE 103, TA 3:18 min
Institut für Mikrotherapie, Bochum, Germany

Diffusion b-value 100 + ADC map, SPAIR, GRAPPA 2, matrix 160, SL 3.6 mm, slices 2x22, TR 4800, TE 85
Institut für Mikrotherapie, Bochum, Germany

Spectroscopy CSI SE 90 NA 6, TR 700, TE 120, TA 11:43 min, voxel 6x5x5 mm
Institut für Mikrotherapie, Bochum, Germany
Shoulder Imaging

The Shoulder Array coil is very comfortable for the patient while providing high-end shoulder imaging for routine and advanced sequences like 3D VIBE.

Shoulder Array Coil

T2 MEDIC, matrix 320, SL 3 mm, slices 20, TR 845, TE 24, TA 3:17 min
Cardinal MRI Center, Manila, Philippines

PD TSE, with BLADE, matrix 320, SL 4 mm, slices 20, TR 2220, TE 35, TA 3:18 min
Centro de Diagnosticos Brasil, Sao Paulo, Brazil
T2 TSE, without BLADE, matrix 256, SL 3 mm, slices 30, TR 4500, TE 75, TA 3:09 min

T2 TSE, with BLADE, matrix 256, SL 3 mm, slices 30, TR 4590, TE 76, TA 3:32 min

PD TSE FatSat, matrix 320, SL 4 mm, slices 20, TR 2380, TE 42, TA 2:09 min

Centro de Diagnosticos Brasil, Sao Paulo, Brazil
For excellent elbow imaging, you need the right tools. MAGNETOM Espree delivers great image results of the elbow anatomy, giving you diagnostic confidence.

**Flex Coil small**

T1 TSE, matrix 384, TR 450, TE 13, TA 2:08 min
*Centro de Diagnosticos Brasil, Sao Paulo, Brazil*

T2 TSE FatSat, with BLADE, matrix 256, SL 3.5 mm, slices 20, TR 3000, TE 55, TA 3:42 min
*Crawford County Memorial Hospital, Denison, USA*
T1 TSE, matrix 384, SL 3.5 mm, slices 17, TR 546, TE 16, TA 3:06 min
*Crawford County Memorial Hospital, Denison, USA*

T1 TSE FatSat, matrix 320, SL 3 mm, slices 19, TR 585, TE 21, TA 4:40 min
*Battlefield Imaging, Ringgold, USA*

T1 TSE, matrix 384, SL 4 mm, slices 22, TR 477, TE 16, TA 4:56 min
*Crawford County Memorial Hospital, Denison, USA*

T2 TSE FatSat, with BLADE, matrix 256, SL 4 mm, slices 22, TR 3800, TE 55, TA 4:42 min
*Crawford County Memorial Hospital, Denison, USA*
Hand/Wrist Imaging

MAGNETOM Espree has multiple solutions for comprehensive and efficient hand/wrist imaging.

8-Channel Hand/Wrist Coil

T1 TSE, FoV 80x80, matrix 256, SL 2 mm, slices 18, TR 457, TE 12, TA 3:54 min

T2 TIRM, matrix 256, SL 3 mm, slices 20, TR 3500, TE 46, TI 150, TA 3:55 min
Hip Imaging

Whether you are imaging a single joint or both joints: Using the large Flex coil or Body Matrix coil in combination with the Spine Matrix coil is an ideal combination for excellent results.

Body Matrix Coil

PD TSE Restore FatSat, GRAPPA 2, matrix 256, SL 4 mm, slices 16, TR 2700, TE 40, TA 2:40 min
Hospital Britanico, Montevideo, Uruguay

T1 3D SPACE, GRAPPA 2, matrix 256, SL 0.9 mm, slices 88, TR 900, TE 37, TA 6:51 min
T1 TSE, GRAPPA 2, matrix 448, SL 3 mm, slices 20, TR 630, TE 17, TA 2:38 min
*Panyu Center Hospital, Guangzhou, P.R. China*

T2 TIRM, matrix 256, SL 4 mm, slices 20, TR 4350, TE 43, TA 2:46 min
*Desert Radiologists Palomino, Las Vegas, USA*

PD TSE FatSat, GRAPPA 2, matrix 384, SL 3 mm, slices 20, TR 3000, TE 33, TA 2:51 min
*Panyu Center Hospital, Guangzhou, P.R. China*

T1 TSE, GRAPPA 2, matrix 384, SL 3 mm, slices 20, TR 430, TE 17, TA 3:04 min
*Panyu Center Hospital, Guangzhou, P.R. China*
Knee Imaging

Achieve outstanding image quality in your knee examinations using the MAGNETOM Espree standard Flex and Extremity coils.

Experience features like advanced 3D imaging and excellent FatSat for any contrast, and use the advanced applications like syngo MapIt for quantitative analysis.

8-Channel Knee Coil
PD 3D SPACE FatSat, GRAPPA 3, matrix 256, SL 1 mm, slices 112, TR 1800, TE 29
University Hospital, Essen, Germany

PD TSE FatSat, GRAPPA 2, matrix 384, slices 30, TR 3902.5, TE 40, TA 3:27 min
Hospital Sirio Libanes, Sao Paulo, Brazil

T2 TIRM 2 steps, GRAPPA 2, matrix 320, SL 6 mm, slices 20, TR 4960, TE 39, TI 150, TA 2x2:14 min
Policlinica Santa Ana, Ciudad Bolivar, Venezuela

PD TSE, with syngo WARP, matrix 320, SL 3 mm, slices 30, TR 3000, TE 38, TA 2:18 min

T2 TSE, GRAPPA 2, matrix 512, SL 3 mm, slices 21, TR 4740, TE 82, TA 2:13 min

T1 TSE 2 steps, GRAPPA 2, matrix 448, SL 6 mm, slices 20, TR 540, TE 13, TA 2x1:30 min
Policlinica Santa Ana, Ciudad Bolivar, Venezuela
Foot/Ankle Imaging

While the standard Flex coil is a comprehensive solution for routine applications, the dedicated Foot/Ankle coil allows for a faster patient set-up and brings signal-to-noise ratio (SNR) and iPAT performance to the next level.

8-Channel Foot/Ankle Coil

T1 TSE, GRAPPA 2, matrix 384, SL 3 mm, slices 16, TR 590, TE 9.4, TA 1:36 min
Real Hospital Portugues, Recife, Brazil

3D VIBE water excitation, SL 0.8 mm, slices 120, TR 14.7, TE 6.1, TA 3:50 min
Changzhou No. 3 People Hospital, Changzhou, P.R. China
PD TSE FatSat, GRAPPA 2, matrix 320, slices 32, TR 4021, TE 31, TA 2:53 min
*Smyth County Community Hospital, Marion, USA*

T2 3D MEDIC water excitation, matrix 320, SL 1.5 mm, slices 48, TR 38, TE 21, TA 5:27 min
*Crawford County Memorial Hospital, Denison, USA*

T1 TSE, matrix 448, SL 2 mm, slices 20, TR 584, TE 12, TA 2:26 min
*Real Hospital Portugues, Recife, Brazil*

T2 TIRM, GRAPPA 2, matrix 320, SL 3 mm, slices 24, TR 3510, TE 42, TI 160, TA 2:45 min
*Smyth County Community Hospital, Marion, USA*
Interventional MR Imaging

Intraoperative MR imaging provides valuable information aiding in surgery planning and control.

The short system length and Open Bore makes MAGNETOM Espree an excellent choice for interoperative MRI.

MRI during Surgery

Clinical Article on Interventional MRI

Open Bore 1.5 Tesla MAGNETOM Espree: Guidance and Monitoring of Radiofrequency Ablation at Liver and Kidney

More clinical cases at:
www.siemens.com/magnetom-world
T1 3D MPRAGE, preoperative, matrix 320, SL 1 mm, slices 192, TR 1120, TE 4.2, TI 600, TA 5:03 min
T1 3D MPRAGE, intraoperative, matrix 320, SL 1 mm, slices 192, TR 1120, TE 4.2, TI 600, TA 5:03 min
T2 TSE, preoperative, matrix 384, slices 33, TR 6680, TE 100, TA 3:14 min
T2 TSE, intraoperative, matrix 384, slices 33, TR 6680, TE 100, TA 3:14 min

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More than 1,200 installations,
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MR scanning has not been established
as safe for imaging fetuses and infants
under two years of age. The responsible
physician has to decide about the benefit
of the MRI examination in comparison to
other imaging procedures.

The product is still under development
and not commercially available yet. Its
future availability cannot be ensured.

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