



MRI Acronyms

Cross-Vendor Comparisons

| | Siemens Healthineers | GE | Philips | Canon | Hitachi |
|-------------------------------------|-----------------------|---------------------------|------------------------------|--------------------------|---------------------------|
| Basic Sequences | | | | | |
| Spin Echo | SE | SE | SE | SE | SE |
| Turbo Spin Echo/ Fast Spine Echo | TSE (Turbo Spin Echo) | FastSE (Fast Spine Echo) | TSE (Turbo Spin Echo) | FastSE (Fast Spine Echo) | FastSE (Fast Spine Echo) |
| Single-Shot TSE | HASTE | Single-Shot FSE | Single-Shot TSE | FASE | Single-Shot FSE |
| TSE with 90° Flip-Back Pulse | RESTORE | Fast Recovery FSE (FRFSE) | DRIVE | T2 Plus FSE | Driven Equilibrium |
| Hyperechoes | Hyperecho | | | | |
| 3D TSE with variable Flip Angle | SPACE | CUBE | VISTA | FASE3D mVox | |
| Reduced-FoV Imaging for 3D TSE | ZOOMit SPACE | HyperCube | | | |
| Number of Echoes in TSE | Turbo Factor | Echo Train Length (ETL) | Turbo Factor | Echo Train Length (ETL) | Echo Factor |
| Gradient Echo | GRE | GRE | Fast Field Echo (FFE) | Field Echo (FE) | GE |
| Spoiled Gradient Echo | FLASH | SPGR | T1-FFE | T1-FFE | RF Spoiled SARGE, RSSG |
| Coherent Gradient Echo | FISP | GRASS | FFE | SSFP | Rephased SARGE |
| Steady State Free Precession | PSIF | SSFP | T2-FFE | | Time-Reversed SARGE, TRSG |
| True FISP | TrueFISP | FIESTA, COSMIC | Balanced FFE | True SSFP | Balanced SARGE, BASG |

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| True FISP/Dual Excitation | CISS | FIESTA-C | | | Phase Balanced SARGE, PBSG |
| Double Echo Steady State | DESS | | | | |
| Multi-Echo Data Image Combination | MEDIC | MERGE | M-FFE | | ADAGE |
| Ultrafast Gradient Echo 2D with preparation pulse | TurboFLASH | Fast GRE, Fast SPGR | TFE | FastFE | RGE |
| Ultrafast Gradient Echo 3D with preparation pulse | MPRAGE | 3D FGRE, 3D Fast SPGR, BRAVO | 3D TFE | FastFE 3D | MPRAGE |
| Ultrafast Gradient Echo 3D with dual echo train | MP2RAGE | | | MP2RAGE | |
| Volume-Interpolated 3D GRE | VIBE | LAVA-XV | THRIVE | 3D Quick | TIGRE |
| Susceptibility-Weighted Sequences | SWI | SWAN 2.0 | SWI _p | FSBB | BSI |
| Arterial Spin Labeling | ASL | ASL | ASL | ASL | ASL |

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| Inversion Recovery | IR, Turbo IR (TIR) | IR, MPRIR, FastIR | IR-TSE | IR | IR |
| Short-Tau IR | TIRM, STIR | STIR | STIR | FastSTIR | STIR |
| Long-Tau IR | TIRM, Dark Fluid | FLAIR | FLAIR | FastFLAIR | FLAIR |
| Dual Inversion Recovery | DIR SPACE | CUBE DIR | Dual IR-TSE | Double IR | |
| True IR | TIR, True IR | | Real IR | Real IR | Real-IR |
| Echo Planar Imaging, Diffusion | EPI | EPI | EPI | EPI | EPI |
| Number of Echoes in EPI | EPI Factor | ETL | EPI Factor | Echo Train Length (ETL) | Echo Factor |
| Diffusion-weighted Imaging | DWI | DWI | DWI | DWI | DWI |
| Apparent Diffusion Coefficient Map | ADC | ADC | ADC | ADC | ADC |
| Computed b-values | Computed b-values | MAGiC-DWI | cDWI (computed DWI) | cDWI (computed DWI) | |
| Diffusion Tensor Imaging | DTI (Diffusion Tensor Imaging), MDDW (Multi-Directional Diffusion Imaging) | DTI (Diffusion Tensor Imaging) | DTI (Diffusion Tensor Imaging) | DTI (Diffusion Tensor Imaging) | DTI (Diffusion Tensor Imaging) |
| DTI Tractography (Fiber Tracking) | DTI Tractography | FiberTrak | FiberTrak | DTT (Diffusion Tensor Tractography) | DTI Tractography |
| High-resolution Diffusion Imaging | RESOLVE | PROPELLER DWI | DWI with segmented EPI | FASE DWI | RADAR DWI |
| Reduced-FoV Imaging for Diffusion and BOLD EPI | ZOOMit EPI | FOCUS | Zoom Diffusion | | |
| Turbo Gradient Spin Echo | TurboGSE, TGSE | | GRASE | Hybrid EPI | |

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| Applications | | | | | |
| Body Imaging | | | | | |
| Free breathing, motion-free 3D T1 imaging | StarVIBE (FREEZEit) | | | | |
| Dynamic contrast-enhanced 3D with k-space re-ordering | TWIST-VIBE (FREEZEit) | DISCO | | | |
| Dynamic contrast-enhanced 3D with compressed sensing | Compressed Sensing GRASP-VIBE | | | | |
| Body Diffusion | REVEAL | eDWI | DWIBS | Body Vision | (DWI) |
| Fat & Iron Evaluation | LiverLab | IDEAL-IQ | mDixon Quant | | |
| MR Elastography | Elastography | MR-Touch | Elastography | | |
| Women's Health, Men's Health | | | | | |
| High-resolution Bilateral Breast Imaging | VEWS | VIBRANT-Flex | BLISS | RADIANCE | |
| Comprehensive Prostate Imaging | SEEit | | | | |
| MR Angiography | | | | | |
| Time of Flight | ToF | ToF, Inhance Inflow | ToF | ToF | ToF |
| Phase Contrast | Phase Contrast (PC) | Phase Contrast, Inhance Velocity | Phase Contrast (PC) | Phase Shift (PS) | Phase Contrast (PC) |
| Dynamic MRA with k-space Sharing | TWIST | TRICKS-XV | Keyhole (4D-TRAK) | DRKS | TRAQ |
| Non-contrast MR Angio, TSE-based | NATIVE-SPACE | Inhance Deltaflow | TRANCE | FBI, CIA | |

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| Non-contrast MR Angio, TrueFISP-based | NATIVE-TrueFISP | Inhance Inflow IR | B-TRANCE | Time-SLIP | VASC |
| Non-contrast MR Angio, QISS | QISS | | | | |
| Magnetization Transfer Contrast | MTC | MTC | MTC | SORS-STC | MTC |
| Ramped RF Pulse | TONE | Ramped RF | TONE | ISCE | SSP |
| Multi-slab acquisition | Multi-Slab | MOTSA | Multi-Chunk | Multi-Slab | Multi-Slab |
| Contrast Bolus Timing/ Visualization | CARE Bolus | Smart Prep; Fluoro Triggered MRA | BolusTrak | Visual Prep | FLUTE |
| Cardiac Imaging | | | | | |
| High-resolution, free-breathing cardiac function | Compressed Sensing Cardiac Cine | | | | |
| Comprehensive Cardiac Tool | BEAT (2D/3D) | | | | |
| T1, T2, T2* Mapping | MyoMaps | CardioMaps | T1 Mapping, StarQuant | MOLLI (T1), T2* mapping (FFE2D mEcho) | |
| MSK Imaging | | | | | |
| Metal-Implant Imaging (2D correction) | WARP with VAT | | O-MAR VAT | VAT | |
| Metal-Implant Imaging (3D correction) | Advanced WARP with SEMAC | MAVRIC SL | O-MAR XD | | |
| Parametric Mapping | MapIt | CartiGram (T2) | | T2 Mapping | T2* Relax Map |

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| Spectroscopy | | | | | |
| Prostate Spectroscopy | 3D CSI | PROSE | (Prostate Spectroscopy) | (Prostate Spectroscopy) | |
| Breast Spectroscopy | GRACE | BREASE | (Breast Spectroscopy) | | Breast Spect |
| Weighted Elliptical Excitation for CSI | WET | | | | |
| Quiet Scanning | | | | | |
| "Inaudible" 3D sequence with half radials | PETRA | SILENZ | | mUTE 3D T1 | |
| Quiet scanning with optimized gradient waveforms | QuietX | Silent Scan | ComforTone | (rounded gradient shapes) | |
| Quiet scanning with reduced slew rates (longer scan times) | Whisper sequences | Acoustic Reduction Technology (ART) | SoftTone | Pianissimo Zen | SoftSound |
| Motion Correction | | | | | |
| Flow Compensation with Gradient Moment Nulling | GMR/Flow Comp | Flow Comp | Flow Comp; Flag | FC | GR |
| Motion Correction with Radial Blades | BLADE | PROPELLER 3.0 | MultiVane | JET | RADAR |
| 1D Navigators for Cardiac Imaging | 1D PACE | Navigators | Navigators | Echo-Navigator | |
| 2D Navigators for Abdominal Imaging | 2D PACE | | | 2D RMC | |
| 3D Prospective Motion Correction for fMRI | 3D PACE | | PMC | | |
| 3D Retrospective Motion Correction for fMRI | 3D ART | (BrainWave) | MC | | |

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| Motion Correction for 3D TSE with spiral navigators | | PROMO | | | |
| Elastic 3D Motion Correction in Abdomen | DynaVIBE | | | | |
| Soft-Tissue Motion Correction | BRACE | | | | |
| Fat Suppression, Spatial Saturation | | | | | |
| Fat saturation—chemically | Fat Sat | Fat Sat/Chem Sat | SPIR | MSOFT | SINC, H-SINC |
| Fat saturation—chemically with adiabatic pulse | SPAIR | ASPIR | SPAIR | SPAIR | |
| Water Excitation | Water Excitation | Water Excitation | Proset | PASTA | Water Excitation |
| Dixon Fat-Water separation for TSE | Dixon TSE | IDEAL | mDixon XD, mDixon TSE | WFOP | FatSep |
| Dixon Fat-Water separation for 3D GRE | Dixon VIBE | LAVA-Flex | mDixon | WFS | |
| Spatial saturation | Sat Region | SAT | REST | Presat | Presat |
| Moving Sat Pulse | Tracking Sat | Walking Sat | Travel REST | Moving Presat | Sequential Pre Sat |
| Acceleration and Parallel Acquisition Techniques (PAT) | | | | | |
| PAT: Image-based Algorithm | mSENSE | ASSET | SENSE, dS SENSE | SPEEDER | RAPID |
| PAT: k-space-based Algorithm | GRAPPA | ARC | | | k-RAPID |

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| CAIPIRINHA for 3D sequences | CAIPIRINHA | | | | |
| Integrated Calibration | Integrated, Auto-Calibration | Self-Calibration (with ARC) | | | |
| Separate Calibration | Separate Calibration | (Calibration for ASSET) | (Calibration for SENSE)/CLEAR | (Calibration for SPEEDER) | (Calibration for RAPID) |
| Multiple datasets calibrate each other | Self-Calibration, T-PAT | | | | |
| Simultaneous Multi-Slice/Multi-Band | SMS (Simultaneous Multi-Slice) | HyperBand | MultiBand SENSE | MultiBand SPEEDER | |
| Compressed Sensing | Compressed Sensing | HyperSense | Compressed SENSE | | |
| Parallel Transmission | | | | | |
| B1 Shimming | TimTX TrueForm | MultiDrive | MultiTransmit | MultiPhase Transmit | (Quartet) |
| Platform for advanced pTX applications, e.g., with accelerated multi-dimensional RF pulses | TimTX TrueShape | | | | |
| Scanning with Continuous Table Move | TimCT | | | | |
| Fast 2D GRE Localizer | TimCT FastView | | | | |
| Contrast-enhanced Angio, 3D Coronal | TimCT Angio | | | | |
| Multiple Contrasts, 2D Axial | TimCT Onco | | | | |
| Patient Orientation Sequence | Localizer, Scout | Localizer | Plan Scan | Locator | Scanogram |
| Automated Slice Positioning | AutoAlign | ReadyBrain | SmartExam | NeuroLine, SpineLine | |

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| Sequence Parameters | | | | | |
| Repetition Time, Echo Time (in msec) | TR, TE | TR, TE | TR, TE | TR, TE | TR, TE |
| Inversion Time (in msec) | TI | TI | TI | TI | TI |
| Inter-Echo Spacing (TSE, EPI) | Echo Spacing | Echo Spacing | Echo Spacing | Echo Spacing | Inter-Echo Time (IET) |
| Averages | Averages | NEX | NSA | NAQ | NSA |
| Scan Measurement Time | Acquisition Time, TA | Acquisition Time | Acquisition Time | Acquisition Time | Scan Time |
| Field of View (FoV) | FoV [mm] | FoV [cm] | FoV [mm] | FoV | FoV |
| Rectangular FoV | FoV Phase, Rectangular FoV | Asymmetric FoV | Rectangular FoV | Rectangular FoV | Rectangular FoV |
| Shifting Slices Off Center | Off-center Shift | Off center FoV | Off-center FoV | Phase & Frequency Shift | Off-center FoV |
| Distance Between Slices | Distance Factor (% of slice thickness) | Gap | Gap | Gap | Slice Interval |
| Simultaneous Excitation | Simultaneous Excitation | POMP (Phase Offset Multiplanar) | Multi-Slice | QuadScan | Dual Slice |
| RF Excitation Pulse in Gradient Echo | Flip Angle | Flip Angle | Flip Angle | Flip Angle | Flip Angle |
| Bandwidth | Bandwidth [Hz/Px] | Receive Bandwidth [kHz] | Fat/Water Shift [pixel] | Bandwidth | Bandwidth |
| Variable Bandwidth | Optimized bandwidth | Variable Bandwidth | Optimized bandwidth | Matched Bandwidth | Variable Bandwidth |

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| Half Fourier Imaging | Half Fourier, Phase Partial Fourier | Half NEX; fractional NEX | Half Scan | AFI | Half Scan |
| Partial Echo | Asymmetric Echo | Asymmetric Echo | Partial Echo | Matched Bandwidth | Half Echo |
| Frequency Oversampling | Oversampling | Anti-Aliasing | Frequency Oversampling | Frequency Wrap Suppression | Frequency Oversampling |
| Phase Oversampling | Phase Oversampling | No Phase Wrap | Fold-over Suppression | Phase wrap suppression | Anti-Wrap |
| Segmented k-Space | Lines/Segments | Views per segment | Views/Segment | Segments | Segments |
| Time Delay/Block k-Space | Time Delay | Intersegment Delay | TD | TD | |
| Scan Synchronization with ECG | ECG triggered | Cardiac Gated/ Triggering | ECG Triggered/ VCG | Cardiac Gated | ECG Triggered |
| Delay after R-Wave | Trigger Delay; TD | Trigger Delay; TD | Trigger Delay; TD | Trigger Delay; TD | Delay Time |
| Respiratory Gating | Respiratory Gated | Respiratory Comp | Trigger; PEAR | Respiratory Gated | MAR |
| Multi-channel RF coil sensitivity normalization | Prescan Normalize | PURE | CLEAR | | NATURAL |
| Central k-space filling arterial visualization | Central Elliptical | Elliptic Centric | CENTRA | | PEAKS |

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