## UNIVERSAL SEQUENCE/APPLICATION NAMES

SPIN ECHO (SE)

180 RF pulse to refocus echo. Produces PD, T1, or T2 images.

INVERSION RECOVERY (IR)

180 inverting pulse applied prior to conventional SE. Provides T1 contrast with additional contrast control by adjusting TI.

SHORT TAU INVERSION RECOVERY (STIR)

IR sequence with the TI time set to suppress fat.

FLUID ATTENUATED INVERSION RECOVERY (FLAIR)

IR sequence with the TI time set to suppress fluid.

ECHO PLANAR IMAGING (EPI)

Train of gradient reversals to read out the signal single shot or multi-shot.

► TIME-OF-FLIGHT (TOF)

Time-of-flight MR angiography visualizes vessels through the flow of non-saturated blood into a slice to provide high signal.

DIFFUSION WEIGHTED IMAGING (DWI)

Measures the motion of water molecules within a region of interest.

DIFFUSION TENSOR IMAGING (DTI)

Multi direction DWI (greater than 6 directions) method for displaying the amount and direction of diffusion. FA & MD maps can be auto generated.

TRACTOGRAPHY

Uses DTI acquisitions to create 3D neural fiber tract maps.

SPECTROSCOPY

Measures concentrations of chemical components within tissues displaying the informaiton as a spectrum with peaks representing metabolities detected.

PHASE CONTRAST (PC)

Visualizes flowing blood by detecting flow velocity.

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Hitachi Medical Systems Europe Holding AG
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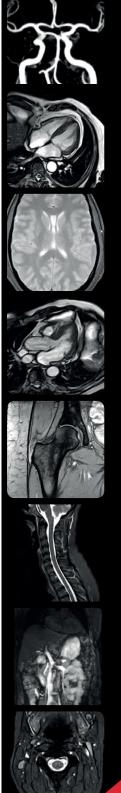
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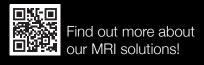
## HITACHI Inspire the Next

HHA DM#56428 v6 / EU-Version, 06-2020

Hitachi reserves the right to change specifications described herein without prior notice. This document provides general technical descriptions of both optional and standard features.







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FAST SPIN ECHO	]	GE	Phillips	Siemens	Toshiba
Fast Spin Echo (FSE)	Multiple 180 RF pulses to rapidly fill k-space.	FSE	TSE (Turbo)	TSE	FastSE, FASTASE
DE-FSE & DE-FIR	RF pulse added to the end of the Echo Factor to restore longitudinal magnetization.	FR-FSE	DRIVE	RESTORE	T2 Plus
opFSE	Optimized FSE sequence for greater contrast, image clarity and improved SNR.				
Single shot FSE	FSE acquired in a single sequence used for fast T2-weighted images.	SSFSE	Single Shot TSE	HASTE	FASE
isoFSE	Isotropic sub-millimeter 3D volume images - reformations maintain acquired resolution.	Cube	VISTA	SPACE	mVox
INVERSION RECOVERY	7				
Fast Inversion Recovery (FIR)	IR pulse applied to FSE for fat suppressed (FIR-STIR) or CSF suppressed (FIR-FLAIR) images.	FIR	IR TSE	Turbo IR	FastIR
3D-GEIR	Gradient Echo Inversion Recovery - Isotropic 3D T1 imaging.	BRAVO	3D-T1 TFE	MPRAGE	3D Fast FE
Real-IR	Phase sensitive IR reconstruction for increased contrast between tissues.		Real IR	TruelR	Real IR
11000					
PARALLEL IMAGING & MOTION COMPENSATION					
RAPID & k-RAPID	Parallel Imaging techniques RAPID (image based) and k-RAPID (k-space based).	ASSET, ARC	SENSE	iPAT, mSENSE, GRAPPA	SPEEDER
RADAR - (SE, FSE, FIR, FLAIR, BASG,		PROPELLER	Multi-Vane	BLADE	JET
Gradient Echo & TOF)	Radial k-Space filling technique with patient motion compensation capabilities.	(FSE & FIR)	(FSE & FIR)	(FSE, FIR & DWI)	(FSE & FIR)
RAPID-RADAR	Radialy motion compensation combined with parallel imaging (little or no scan time increase).	PROPELLER W/ ASSET		BLADE w/ iPAT	
GRADIENT ECHO & STEADY STATE	J				
Gradient Echo (GE)	Produces images that are T1 and T2* weighted images depending on TR/TE/FA.	GRE	FFE	GRE	FE
SARGE (SG)	Steady state gradient echo sequence with T2* contrast for bright fluid signal.	GRASS	FFE	FISP	FE/PFI
RF-Spoiled SG (RSSG)	Excitation pulse to eliminate magnetization build-up, resulting in T1 weighted images.	SSFP	T1-FFE	FLASH	T1-FE
Time Reversed SG (TRSG)	SARGE w/ simultaneous SE & stimulated echo sampling for T2 weighting.	SSFP	T2-FFE	PSIF	SSFP
Balanced SARGE (BASG)	Balanced steady state gradient echo. High CNR & bright fluid with mixed contrast (T2/T1).	FIESTA	b-FFE	True FISP	True SSFP
Phase Balanced SARGE (PBSG)	BASG with multiple RF phase angles and increased NSA to average out banding artifact.	FIESTA-C		CISS	
ADAGE	Multiple echo GE provides high SNR/CNR and/or cartilage/fluid differentiation.	MERGE & COSMIC	m-FFE	MEDIC	
NEUROLOGICAL	1				
Advanced NeuroSuite	Dynamic contrast enhanced T0* partitision uses more to englize blood flow values	BrainSTAT	PRESTO	Parturion	Porfusion
	Dynamic contrast enhanced T2* perfusion uses maps to analyze blood flow volumes.			Perfusion	Perfusion
ACL Dayfucion	Non-contract ortarial ania labeling bysis and size assability and a CDE	Pulse continuous	Pulse continuous	Pulsed Method	ACTAD
ASL Perfusion  Diffusion Kurtosis Imaging (DKI)	Non contrast arterial spin labeling brain perfusion capability generating a CBF map.  Multi b-value DTI sequence visualizes crossing neuro fibers in the brain	Pulse continuous method (pCASL)	Pulse continuous method (pCASL)	Pulsed Method (pASL)	ASTAR
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Diffusion Kurtosis Imaging (DKI)  VASCULAR	Multi b-value DTI sequence visualizes crossing neuro fibers in the brain.	method (pCASL)	method (pCASL)	(pASL)	
Diffusion Kurtosis Imaging (DKI)  VASCULAR  FLUTE	Multi b-value DTI sequence visualizes crossing neuro fibers in the brain.  2D monitoring pulse used to observe bolus, switches 3D when contrast arrives at ROI.	method (pCASL)  SmartPrep	method (pCASL)  BolusTrak	(pASL)  Care Bolus	VisualPrep
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Diffusion Kurtosis Imaging (DKI)  VASCULAR  FLUTE  TRAQ  VASC  VASC-FSE  VASC-ASL  BSI  SIR Map  BeamSat (TOF and VASC-ASL)  ABDOMINAL  TIGRE	Multi b-value DTI sequence visualizes crossing neuro fibers in the brain.  2D monitoring pulse used to observe bolus, switches 3D when contrast arrives at ROI.  Time resolved MRA for fast 3D dynamic scan used in the observation of blood kinetics.  Contrast free MR angiography general application.  Utilizes a 3D primeFSE with IR pulse sequence for non-contrast peripheral MRA.  Non-contrast body & neuro MRA using arterial spin labeling method.  Blood Sensitive Imaging - T2* susceptibility weighted images depict microbleeds.  Signal Intensity Ratio provides quantification of carotid plaque characteristics.	method (pCASL)  SmartPrep  TRICKS InHance 3D Deltaflow InFlow IR	BolusTrak 4D TRAK TRANCE TRANCE b-TRANCE	(pASL)  Care Bolus  TWIST  NATIVE  NATIVE SPACE  NATIVE TrueFISP	VisualPrep DRKS CIA FBI TimeSlip, TSA
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Diffusion Kurtosis Imaging (DKI)  VASCULAR  FLUTE TRAQ VASC VASC-FSE VASC-ASL BSI SIR Map BeamSat (TOF and VASC-ASL)  ABDOMINAL TIGRE T2* RelaxMap Navigator Echo Body DWI  MUSCULOSKELETAL	Multi b-value DTI sequence visualizes crossing neuro fibers in the brain.  2D monitoring pulse used to observe bolus, switches 3D when contrast arrives at ROI.  Time resolved MRA for fast 3D dynamic scan used in the observation of blood kinetics.  Contrast free MR angiography general application.  Utilizes a 3D primeFSE with IR pulse sequence for non-contrast peripheral MRA.  Non-contrast body & neuro MRA using arterial spin labeling method.  Blood Sensitive Imaging - T2* susceptibility weighted images depict microbleeds.  Signal Intensity Ratio provides quantification of carotid plaque characteristics.  Selective saturation provides a pencil beam saturation pulse for controlled area evaluation.  3D T1 Gradient Echo with RF Fat Sat (for Dynamic breast and abdomen).  Calculates T2* and displays color overlay for quantitative assessment of iron concentration.  Corrects respiratory and motion artifacts in real time by reducing the offset between the slices.  Enhanced lesion conspicuity with multiple b-values in body regions.  Quantitative T2 value imaging for superficial and intermediate layer cartilage assessment.	method (pCASL)  SmartPrep  TRICKS InHance 3D Deltaflow IR SWAN  LAVA (abd) VIBRANT (breast) Star Map only cardiac  Available	BolusTrak 4D TRAK TRANCE TRANCE b-TRANCE Venous BOLD  THRIVE (abd) BLISS (breast)  MotionTRAK DWIBS	Care Bolus TWIST NATIVE NATIVE SPACE NATIVE TrueFISP SWI  VIBE (abd) VIEWS (breast) MapIT 10 PACE (cardiac) 20 PACE (liver) REVEAL	VisualPrep DRKS CIA FBI TimeSlip, TSA FSBB  Quick 3D (abd) RADIANT (breast)
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Diffusion Kurtosis Imaging (DKI)  VASCULAR  FLUTE TRAQ VASC VASC-FSE VASC-ASL BSI SIR Map BeamSat (TOF and VASC-ASL)  ABDOMINAL TIGRE T2* RelaxMap Navigator Echo Body DWI  MUSCULOSKELETAL  T2 RelaxMap microTE primeFSE & primeFIR (metal artifact reduction)  FAT SUPPRESSION TECHNIQUES	Multi b-value DTI sequence visualizes crossing neuro fibers in the brain.  2D monitoring pulse used to observe bolus, switches 3D when contrast arrives at ROI. Time resolved MRA for fast 3D dynamic scan used in the observation of blood kinetics. Contrast free MR angiography general application.  Utilizes a 3D primeFSE with IR pulse sequence for non-contrast peripheral MRA.  Non-contrast body & neuro MRA using arterial spin labeling method.  Blood Sensitive Imaging - T2* susceptibility weighted images depict microbleeds.  Signal Intensity Ratio provides quantification of carotid plaque characteristics.  Selective saturation provides a pencil beam saturation pulse for controlled area evaluation.  3D T1 Gradient Echo with RF Fat Sat (for Dynamic breast and abdomen).  Calculates T2* and displays color overlay for quantitative assessment of iron concentration.  Corrects respiratory and motion artifacts in real time by reducing the offset between the slices. Enhanced lesion conspicuity with multiple b-values in body regions.  Quantitative T2 value imaging for superficial and intermediate layer cartilage assessment.  TE <1ms provides visualization of deep / calcified layer of cartilage.  Direct TE & receiver BW adjustment. Excellent for imaging in presence of prostheses.	method (pCASL)  SmartPrep  TRICKS InHance 3D Deltaflow InFlow IR  SWAN  LAVA (abd) VIBRANT (breast) Star Map only cardiac  Available  Cartigram  MAVRIC SL	BolusTrak 4D TRAK TRANCE TRANCE b-TRANCE Venous BOLD  THRIVE (abd) BLISS (breast)  MotionTRAK DWIBS  Multi Echo T2	Care Bolus TWIST NATIVE NATIVE SPACE NATIVE TrueFISP SWI  VIBE (abd) VIEWS (breast) MapIT 1D PACE (cardiac) 2D PACE (iver) REVEAL  MapIT  Advanced WARP with SEMAC	VisualPrep DRKS CIA FBI TimeSlip, TSA FSBB  Quick 3D (abd) RADIANT (breast)  Body Vision
Diffusion Kurtosis Imaging (DKI)  VASCULAR  FLUTE TRAQ VASC VASC-FSE VASC-ASL BSI SIR Map BeamSat (TOF and VASC-ASL)  ABDOMINAL TIGRE T2* RelaxMap Navigator Echo Body DWI  MUSCULOSKELETAL  T2 RelaxMap microTE primeFSE & primeFIR (metal artifact reduction)  FAT SUPPRESSION TECHNIQUES	Multi b-value DTI sequence visualizes crossing neuro fibers in the brain.  2D monitoring pulse used to observe bolus, switches 3D when contrast arrives at ROI.  Time resolved MRA for fast 3D dynamic scan used in the observation of blood kinetics.  Contrast free MR angiography general application.  Utilizes a 3D primeFSE with IR pulse sequence for non-contrast peripheral MRA.  Non-contrast body & neuro MRA using arterial spin labeling method.  Blood Sensitive Imaging - T2* susceptibility weighted images depict microbleeds.  Signal Intensity Ratio provides quantification of carotid plaque characteristics.  Selective saturation provides a pencil beam saturation pulse for controlled area evaluation.  3D T1 Gradient Echo with RF Fat Sat (for Dynamic breast and abdomen).  Calculates T2* and displays color overlay for quantitative assessment of iron concentration.  Corrects respiratory and motion artifacts in real time by reducing the offset between the slices.  Enhanced lesion conspicuity with multiple b-values in body regions.  Quantitative T2 value imaging for superficial and intermediate layer cartilage assessment.  TE <1ms provides visualization of deep / calcified layer of cartilage.  Direct TE & receiver BW adjustment. Excellent for imaging in presence of prostheses.	SmartPrep TRICKS InHance 3D Deltaflow InFlow IR SWAN  LAVA (abd) VIBRANT (breast) Star Map only cardiac Available  Cartigram  MAVRIC SL	BolusTrak 4D TRAK TRANCE TRANCE b-TRANCE Venous BOLD  THRIVE (abd) BLISS (breast)  MotionTRAK DWIBS  Multi Echo T2  O-MAR	Care Bolus TWIST NATIVE NATIVE SPACE NATIVE TrueFISP SWI  VIBE (abd) VIEWS (breast) MapIT 1D PACE (cardiac) 2D PACE (iver) REVEAL  MapIT  Advanced WARP with SEMAC	VisualPrep DRKS CIA FBI TimeSlip, TSA FSBB Quick 3D (abd) RADIANT (breast) Body Vision