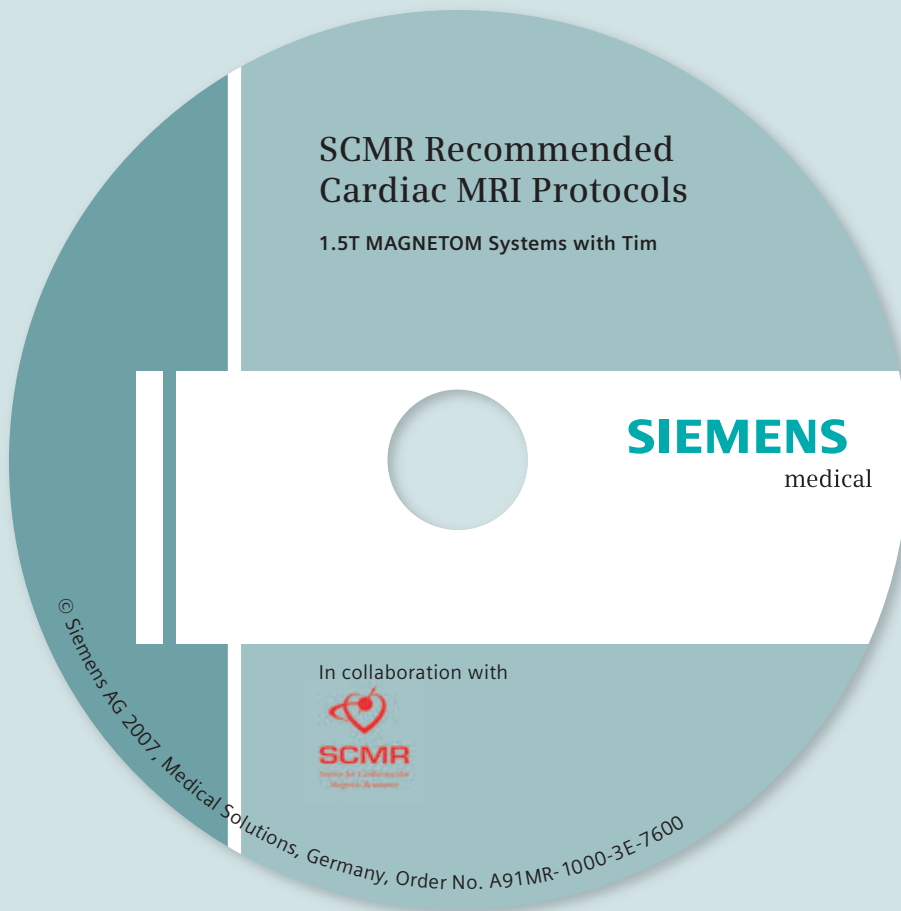


SCMR recommended CMR protocols and CMR Users Guide – on CD!

To aid standardization of CMR, the Society for Cardiovascular Magnetic Resonance (SCMR) released early this year CMR exam protocol recommendations for the most frequent CMR procedures, from MR imaging of myocardial infarct and cardiomyopathies, stress MRI, coronary MRA to valvular disease, congenital heart disease and more. In a collaborative effort of Siemens Medical Solutions and the SCMR we were able to prepare clinically optimized exam protocols for Siemens 1.5T MAGNETOM Tim systems in accordance to the SCMR recommendations.



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The protocols are available as downloadable EDX files on the attached CD for the following MAGNETOM systems:

- MAGNETOM Avanto 32-channel SQ engine
- MAGNETOM Avanto 18-channel SQ engine
- MAGNETOM Avanto 18-channel Q engine
- MAGNETOM Avanto 8-channel Q engine
- MAGNETOM Espree 18-channel DZ engine
- MAGNETOM Espree 18-channel Z engine
- MAGNETOM Espree 8-channel Z engine
- MAGNETOM Symphony, A Tim System

Please use the appropriate protocols optimized for your particular scanner type, number of receiver channels and gradient performance. For ease of use, the protocols are organized by exam modules or common cardiac diseases and sub-organized by the patient's cooperative abilities.

For example:

Acute Myocardial Infarct

- Recommended – Breathhold & Triggered Protocol
- Free Breathing & Triggered Protocol
- Extreme Arrhythmia – Free Breathing & Non-Triggered Protocol

The CD also contains a comprehensive CMR Users Guide (90+ pages) for the most frequent CMR indications including illustrations on how to plan the correct orientations. To enable the use in everyday routine, the chapters are closely linked to the EDX protocols provided on the CD.

Common Acronyms

AF	Atrial Fibrillation	MRA	Magnetic Resonance Angiography
B₀	Main (constant) magnetic field	PC	Phase Contrast
B₁	Radio-frequency magnetic field	PD	Proton Density
CA	Contrast Agent	PSIR	Phase-Sensitive Inversion Recovery
ce	Contrast Enhanced	RF	RadioFrequency
CMR	Cardiac / Cardiovascular Magnetic Resonance (Imaging)	RV	Right ventricle
CNR	Contrast-to-Noise Ratio	RVOT	Right-ventricular Outflow Tract
CO	Cardiac Output	SAR	Specific Absorption Rate
CP	Circular Polarization	SE	Spin-Echo
CTA	Computed Tomography Angiography	SENSE	Sensitivity Encoding
DCE	Delayed Contrast Enhancement, syn.: DE	SLT	SLice Thickness, syn.: SL
DE	Delayed Enhancement, delayed hyperenhancement	SNR	Signal-to-Noise Ratio
DESS	Dual Echo Steady State	SR	Saturation Recovery
DSA	Digital Subtraction Angiography	SSFP	Steady-State-Free-Precession
EPI	Echo Planar Imaging	STIR	Short T1 Inversion Recovery
EDV	End-diastolic Volume	SV	Stroke Volume
EF	Ejection Fraction	T	Tesla
ESV	End-systolic Volume	TA	Acquisition Time
FA	Flip Angle	TD	Trigger Delay
FLASH	Fast-Low-Angle-SHOT	TE	Echo time
FLAIR	Fluid Attenuated Inversion Recovery	TEE	Transesophageal Echocardiography
fMRI	Functional Magnetic Resonance Imaging	TFL	TurboFLASH
FoV	Field of View	TI	Inversion Time
GRAPPA	GeneRALized Autocalibrating Partially Parallel Acquisition (parallel imaging technique)	Tim	Total imaging matrix
GRE	GRAdient Echo	TimCT	Tim Continuous Table Move
HASTE	Half-Fourier Acquisition Single-shot TurboSE	TIRM	Turbo Inversion Recovery Magnitude
HLA	Horizontal Long Axis	TrueFISP	True Fast Imaging and Steady Precession
iPAT	integrated Parallel Acquisition Technique	TR	Repetition Time
IR	Inversion Recovery	TSE	Turbo Spin-Echo
LCE	Late Contrast Enhancement, syn.: DE	tSENSE	Time-adaptive SENSitivity Encoding (parallel imaging technique)
LE	Late Enhancement, syn.: DE	TTE	Transthoracic Echocardiography
LGE	Late Gadolinium Enhancement, syn.: DE	TTP	Time to Peak
LVOT	Left-ventricular Outflow Tract	TWIST	Time-resolved angiography With Interleaved Stochastic Trajectories
MEDIC	Multi-Echo Data Image Combination	venc	Velocity Encoding
MION	Monocrystalline Iron Oxide Nanoparticles	VIBE	Volume Interpolated Breathhold Examination
MIP	Maximum Intensity Projection	VLA	Vertical Long Axis
MNP	Magnetic (Iron Oxide) Nanoparticles	VRT	Volume Rendering Technique
MPR	Multiplanar Reconstruction/Reformation	VSD	Ventricular Septal Defect