



MRI Service Requirements AMRA® BCP Protocol

These service requirements pertain to the AMRA® BCP Scan, AMRA® MAsS Scan and AMRA® Researcher BCP. For other services such as whole-body muscle imaging, contact support@amramedical.com for relevant service requirements.

Image requirements

The MRI scan allows regional and global segmentation and quantification of muscle and fat tissue volumes for body composition measurement. Fat, water, in-phase and opposed-phase Dixon images acquired using Lava-Flex (GE), mDixon (Philips) or Dixon-Vibe (Siemens) are required, using only the scanner's integrated body coil. For liver fat analysis, it is preferable the images be acquired using the vendor's liver application (IDEAL-IQ, mDixon-Quant or LiverLab) ensuring fat fraction, fat, water and R2* images are reconstructed. If the vendor liver application is not available, an alternative method is available. Liver imaging requires a dedicated anterior and posterior surface coil.

Supported MRI Systems

The following table specifies the minimum MRI system requirements to produce water-fat separated images of analyzable quality. If a particular MRI system is not listed below, please contact support@amramedical.com. All MR systems will undergo image quality verification at set up.

GE			
1.5T Systems	3T Systems	Upgraded Systems	Software
Prime Artist Explorer Creator Voyager Discovery MR450 Optima MR450/w/GEM Optima MR360 HDxt	Hero Premier Architect Pioneer PET/MR Discovery MR750w GEM Discovery MR750 HDxt	Artist Evo Premier Evo Artist Lift Explorer Lift Premier Lift Architect Lift Discovery MR750 Lift	HD15 or newer
Philips			
1.5T Systems	3T Systems	Upgraded Systems	Software
MR 5300 Ingenia Ambition X/S Ingenia Prodiva CX/CS Ingenia X/S Ingenia DS Ingenia Achieva	MR 7700 Ingenia Elition X/S Ingenia CX Ingenia Achieva	Achieva 1.5T dStream Achieva 3.0T dStream	R5.4 or newer*
Siemens			
1.5T Systems	3T Systems	Upgraded Systems	Software
Aera Sola Altea Amira Sempra Avanto	Vida Prisma Skyra Verio Lumina Spectra Trio Biograph mMR	Sola Fit Avanto Fit Symphony TIM Vida Fit Prisma Fit Skyra Fit	B17 or newer

*For Philips software levels R5.3 or older, please contact support@amramedical.com

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