



MRI Service Requirements AMRA[®] Robust BCP

These are the service requirements for the AMRA[®] BCP Protocol (BCP stands for Body Composition Profile). The MRI scan enables regional and global segmentation and quantification of muscle and fat tissue volumes in the body. AMRA[®] BCP Protocol Installation and Scan Guides are available for the listed MRI systems.

IMAGE REQUIREMENTS

For body composition measurement, fat, water, in-phase (IP) and opposed-phase (OP) Dixon images are required. The images should be acquired with Lava-Flex (GE), mDixon (Philips) or Dixon-Vibe (Siemens), using only the scanner's integrated body coil. For AMRA to analyze previously acquired MR images, the images must have been acquired using fat-water separated imaging and include the image types mentioned above. For liver fat analysis it is preferable, but not essential, that 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 accessible 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 AMRA for support (support@amramedical.com).

GE			
1.5T Systems	3T Systems	Upgraded Systems	Software
SIGNA Artist SIGNA Explorer SIGNA Creator* SIGNA Voyager Discovery MR450 Optima MR450/w/GEM Optima MR360 Brivo MR355* SIGNA HDxt	Premier Architect Pioneer PET/MR Discovery MR750w GEM Discovery MR750 SIGNA HDxt	SIGNA Artist Lift* SIGNA Explorer Lift* SIGNA Premier Lift* SIGNA Architect Lift* Discovery MR750 Lift*	HD15 or newer
Philips			
1.5T Systems	3T Systems	Upgraded Systems	Software
Ingenia Ambition X/S Ingenia Prodiva CX/CS* Ingenia X/S Ingenia DS* Ingenia Achieva Multiva*	Ingenia Elition X/S Ingenia CX Ingenia Achieva	Achieva 1.5T dStream Intera Achieva* Achieva 3.0T dStream	R5.1 or newer
Siemens			
1.5T Systems	3T Systems	Upgraded Systems	Software
Aera Sola* Altea Amira* Sempra* Espree 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

*unverified

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