



PHILIPS

Magnetic Resonance

Cardiovascular

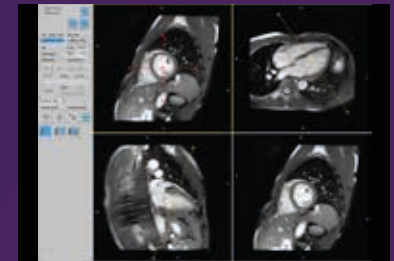
Extending the **power of MR**

Clinical applications portfolio

Our **Cardiovascular** applications

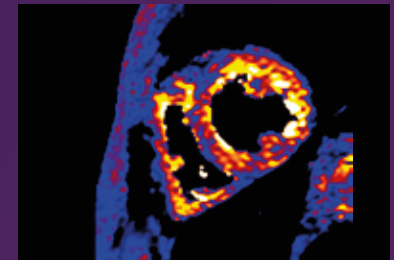
Cardiac imaging is a dynamic, fast-moving field. Philips provides solutions to help you keep pace with trends, including support for image analysis and direct quantification. Our clinical applications support fast, robust cardiac imaging and visualization, helping you make an informed diagnosis. This advanced toolset lets you make MR personalized and definitive through quantitative results.

Philips MR clinical applications for vascular exams deliver robust and fast insights into intricate vascular structures. High spatial and temporal resolution helps you clearly visualize the exact information you need to make diagnostic and treatment decisions.



Real Time Cardiac

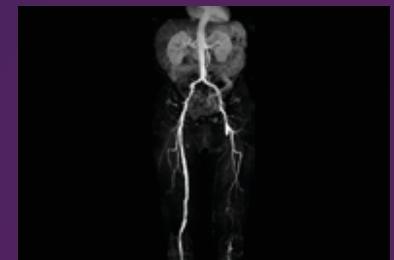
Benefit from intuitive planning for cardiac studies



StarQuant

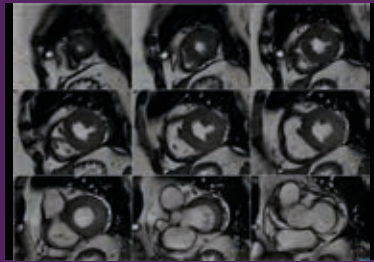
Page 6

Non-invasive T2* and T2 assessment of myocardial tissue



mDIXON XD MultiStation **Page 10**

Non-subtraction peripheral MR Angiography



k-t BLAST

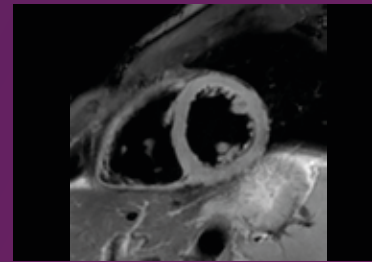
Speed up your dynamic cardiac examinations



Cardiac Expert

Expand your cardiac MR functionality

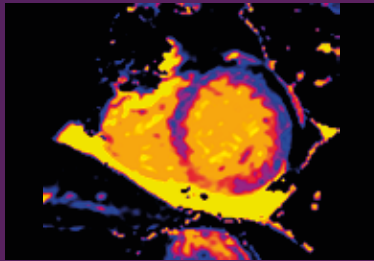
Page 4



Cardiac MS/QF

Elevate your cardiac imaging to clinical routine level

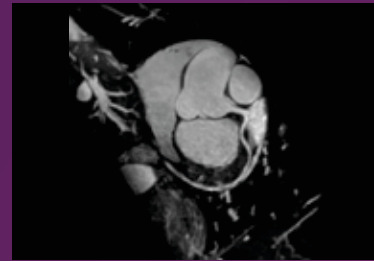
Page 5



CardiacQuant

Non-invasive T2*, T2 and T1 assessment of myocardial tissue

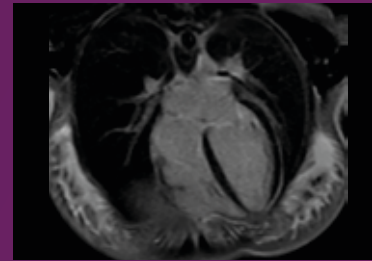
Page 7



Coronary Acquisition

Perform non-invasive imaging of coronary arteries

Page 8



mDIXON XD FFE

Fat-free cardiac imaging

Page 9



4D-TRAK XD

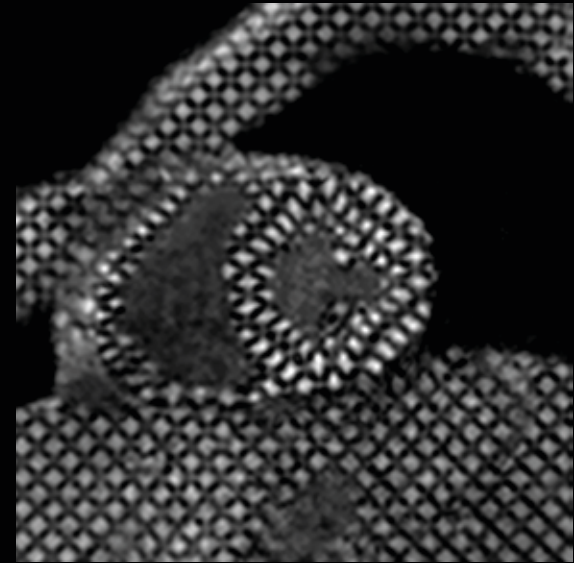
Flexibility in your MR Angiography studies

Page 11

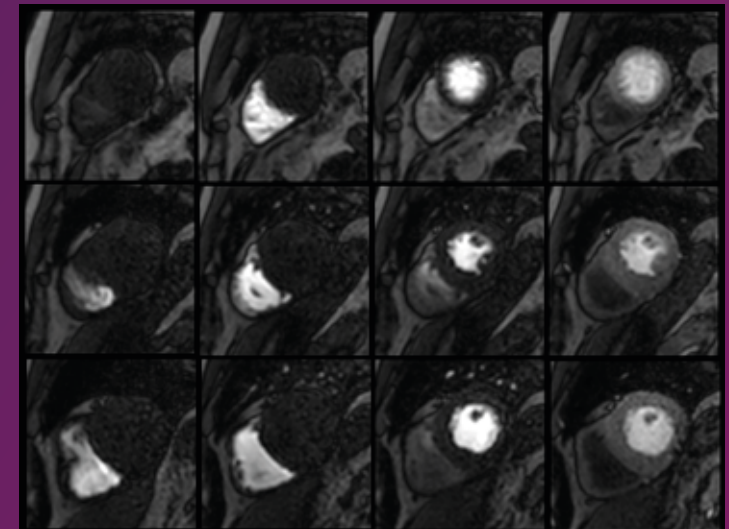


Cardiac Expert

Expand your cardiac MR functionality



Cardiac Expert supports the acquisition of multi-slice, dynamic tissue studies with T1 weighting and uniform tissue suppression¹ by including Look Locker methods for determining an optimal inversion delay time. Cardiac Expert also provides myocardial tagging² to allow assessment of regional wall motion and allows for real-time interactive planning of challenging cardiac views.



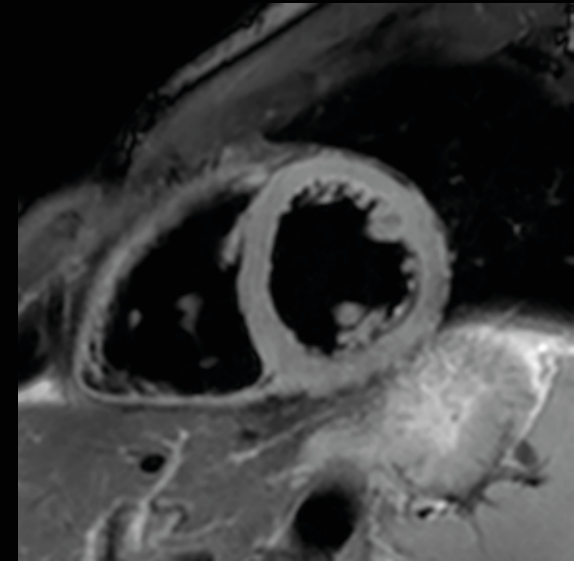
→ Dynamics

¹ With a (B1 insensitive) saturation pre-pulse

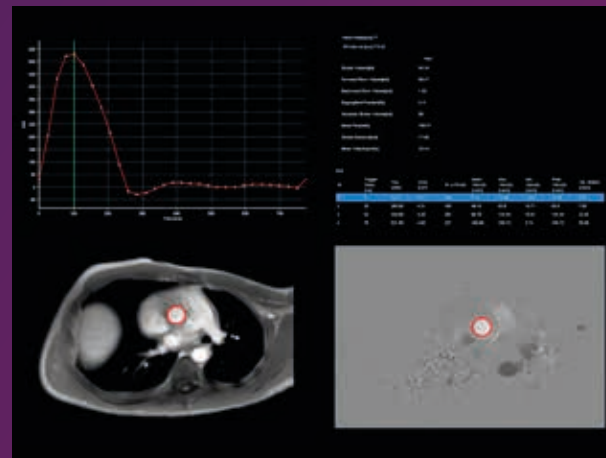
² By means of REST grids

Cardiac MS/QF

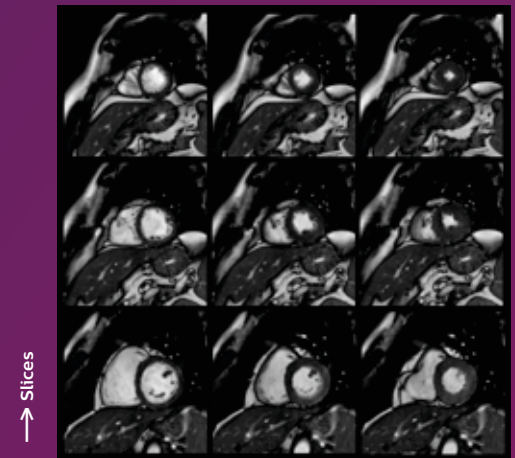
Elevate your cardiac imaging to clinical routine level



Cardiac MS/QF adds multi-slice capability to your multi-phase cine acquisitions, and supports myocardial tissue characterization by allowing for black blood imaging. Cardiac MS/QF also allows for non-invasive measurements of blood flow by including display of color-encoded flow maps.



Non-invasive measurements of blood flow

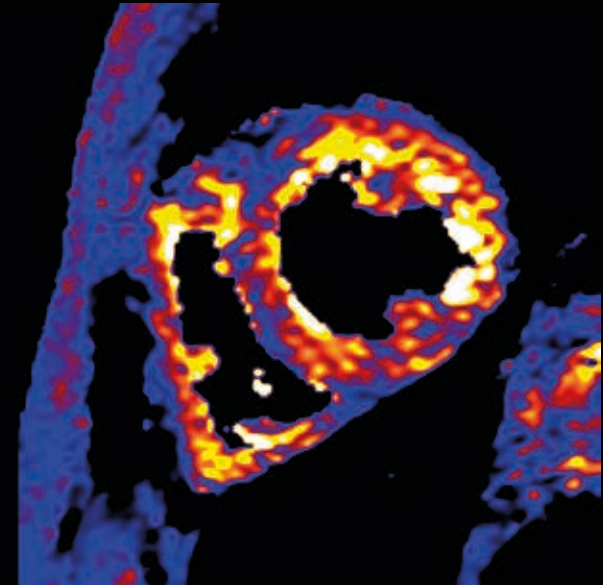


→ Phases

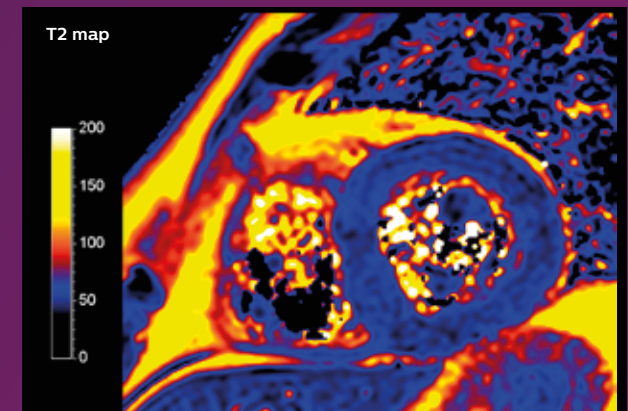
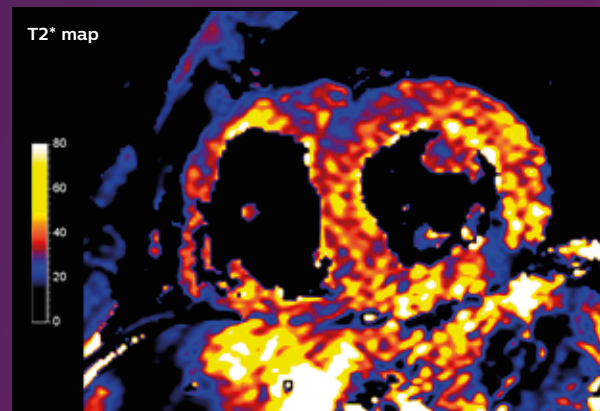


StarQuant

Non-invasive $T2^*$ and $T2$ assessment of myocardial tissue



With StarQuant you get access to exciting new applications for cardiology, which can help in the non-invasive assessment of myocardial tissue characteristics by providing you with comprehensive graphs and pixel-based, quantitative $T2/R2$ and $T2^*/R2^*$ maps in a single breathhold scan helping you to make early decisions for therapy.

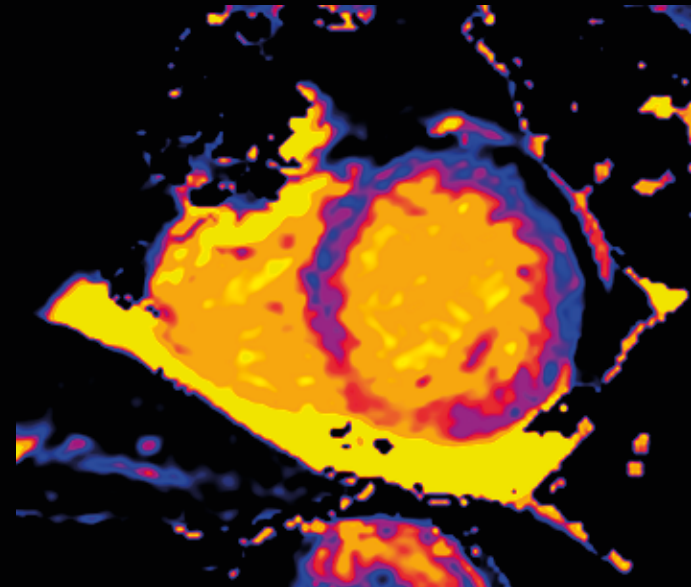


Quantitative $T2^*$ and $T2$ maps in a single breathhold scan

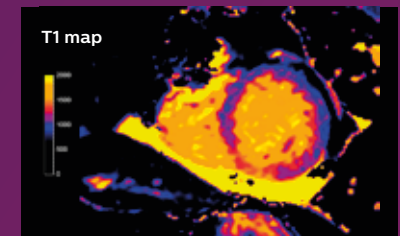
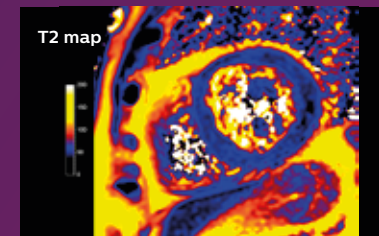
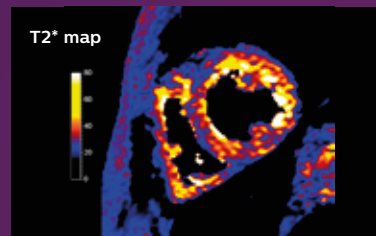


CardiacQuant

Non-invasive T2*, T2 and T1 assessment of myocardial tissue



With CardiacQuant you get access to exciting new applications for cardiology, which can help in the non-invasive assessment of myocardial tissue characteristics by providing you with comprehensive graphs and pixel-based, quantitative information in different regions of the myocardium helping you to make early decisions for therapy.

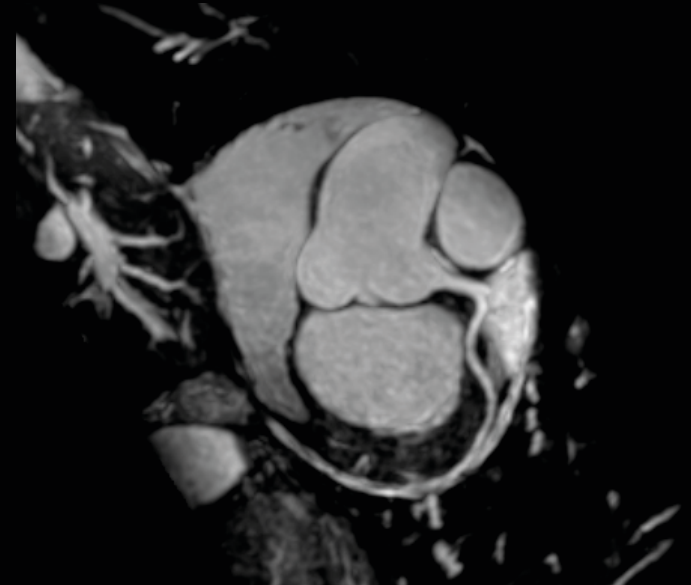


Quantitative T2*, T2 and T1 maps in a single breathhold scan

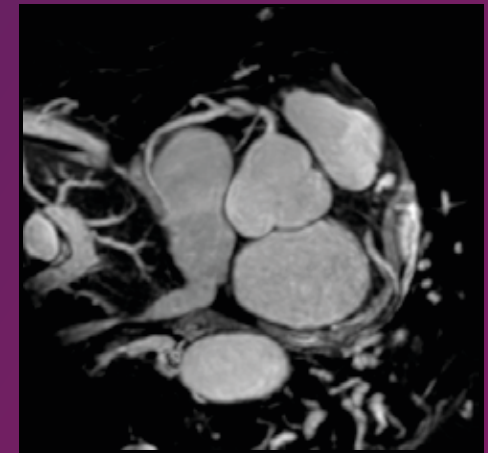
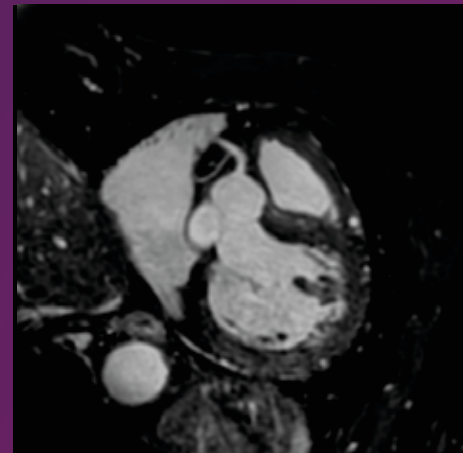


Coronary Acquisition

Perform non-invasive imaging of coronary arteries



Coronary Acquisition allows for non-invasive imaging of coronary arteries by displaying good contrast between myocardium and vessels by deploying 3D sequences combined with MotionTrak respiratory navigators for real-time motion correction and T2-preparation.

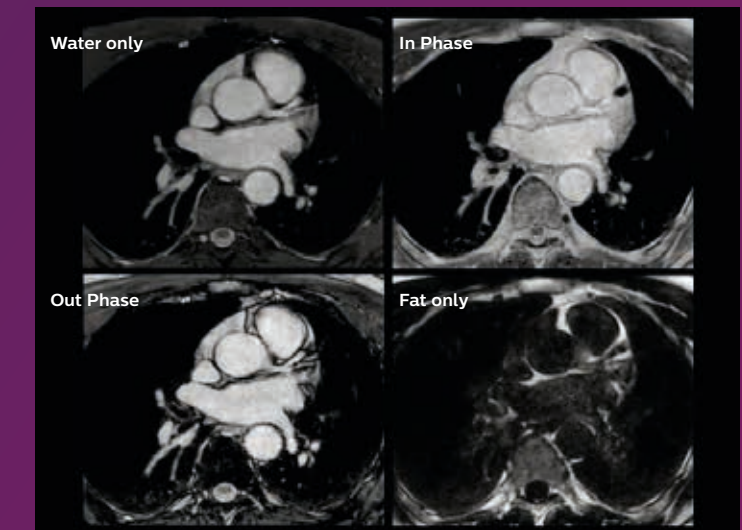


Non-invasive imaging of coronary arteries

mDIXON XD FFE

Fat-free cardiac imaging

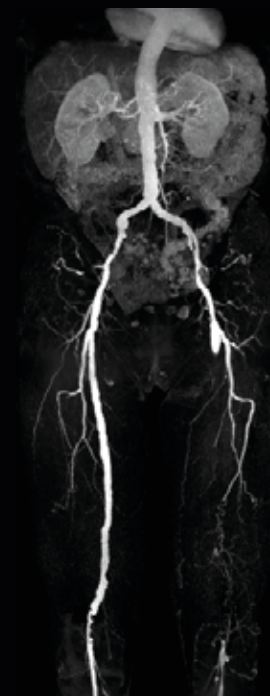
mDIXON XD FFE improves your fat-free imaging for high resolution scans and provides more efficient dynamic scans. With up to four image types in one single scan, including with or without fat suppression contrasts, mDIXON XD FFE will enable you to enhance your imaging strategies by simplifying your cardiac dynamic FFE procedures.



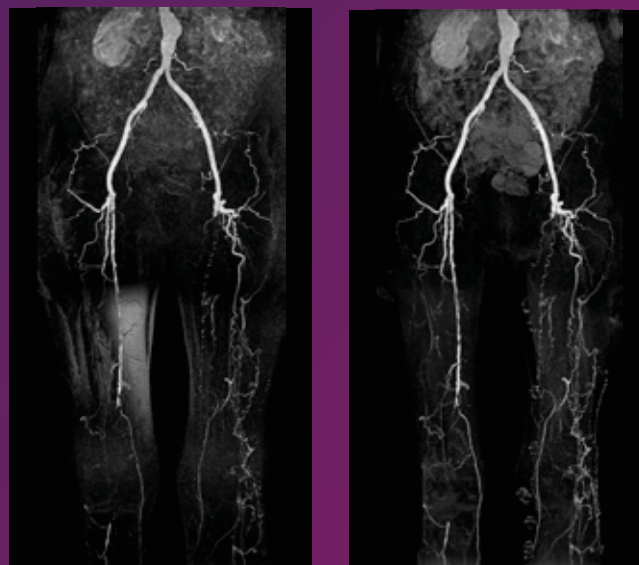
Acquire up to four image types in one single scan

mDIXON XD MultiStation

Non-subtraction peripheral MR Angiography



mDIXON XD MultiStation allows you to perform peripheral MR Angiography with improved vessel-to-background contrast in only one single pass¹. You will be able to perform your peripheral MR Angiography acquisitions without the use of a subtraction mask, eliminating artifacts that could arise from misalignment, due to patient motion, between the pre and post contrast scan. Enjoy fast, robust peripheral MR Angiography.



MR Angiography with subtraction (left) and in one single pass (right) with improved vessel-to-background contrast

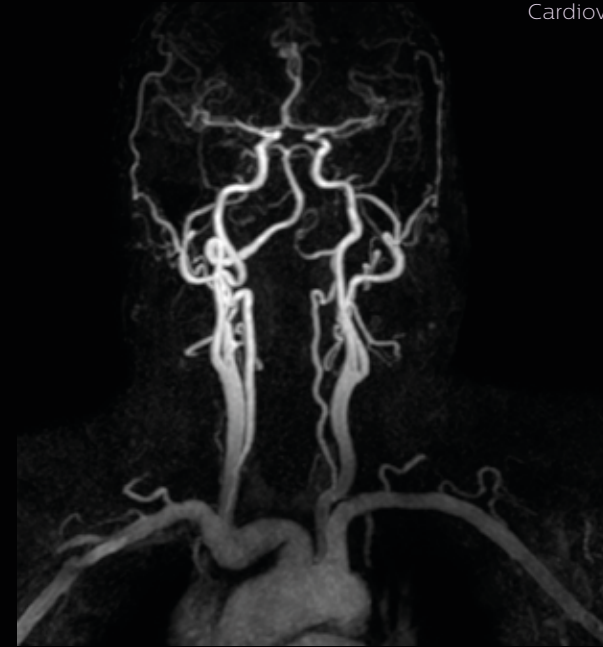
Additional information:

- Subtraction-less peripheral MR Angiography
- Improved vessel-to-background contrast by 30–36%¹

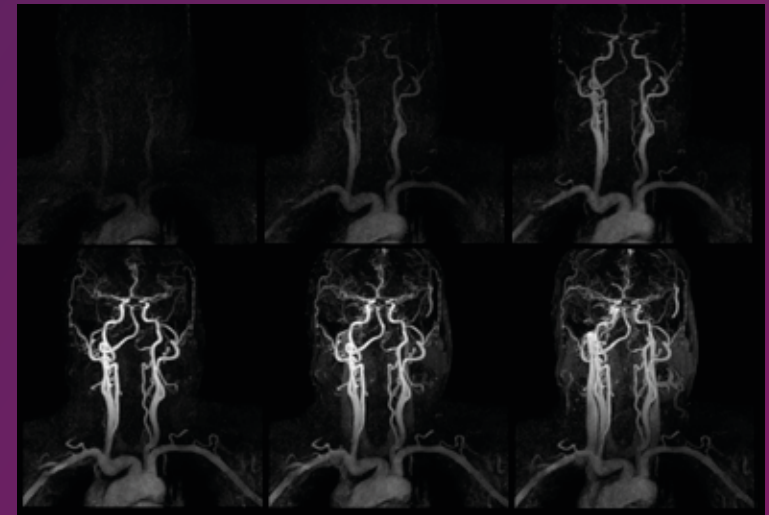
¹ As opposed to standard MRA technology relying on the subtraction of a pre and post contrast scan.

4D-TRAK XD

Flexibility in your MR Angiography studies



4D-TRAK XD provides a fast, dynamic contrast-enhanced MR Angiography method with flexible sampling of both the arterial- and venous phase, by applying view sharing technique, enabling high spatial and temporal resolution simultaneously.



Fast, dynamic contrast-enhanced MR Angiography

