

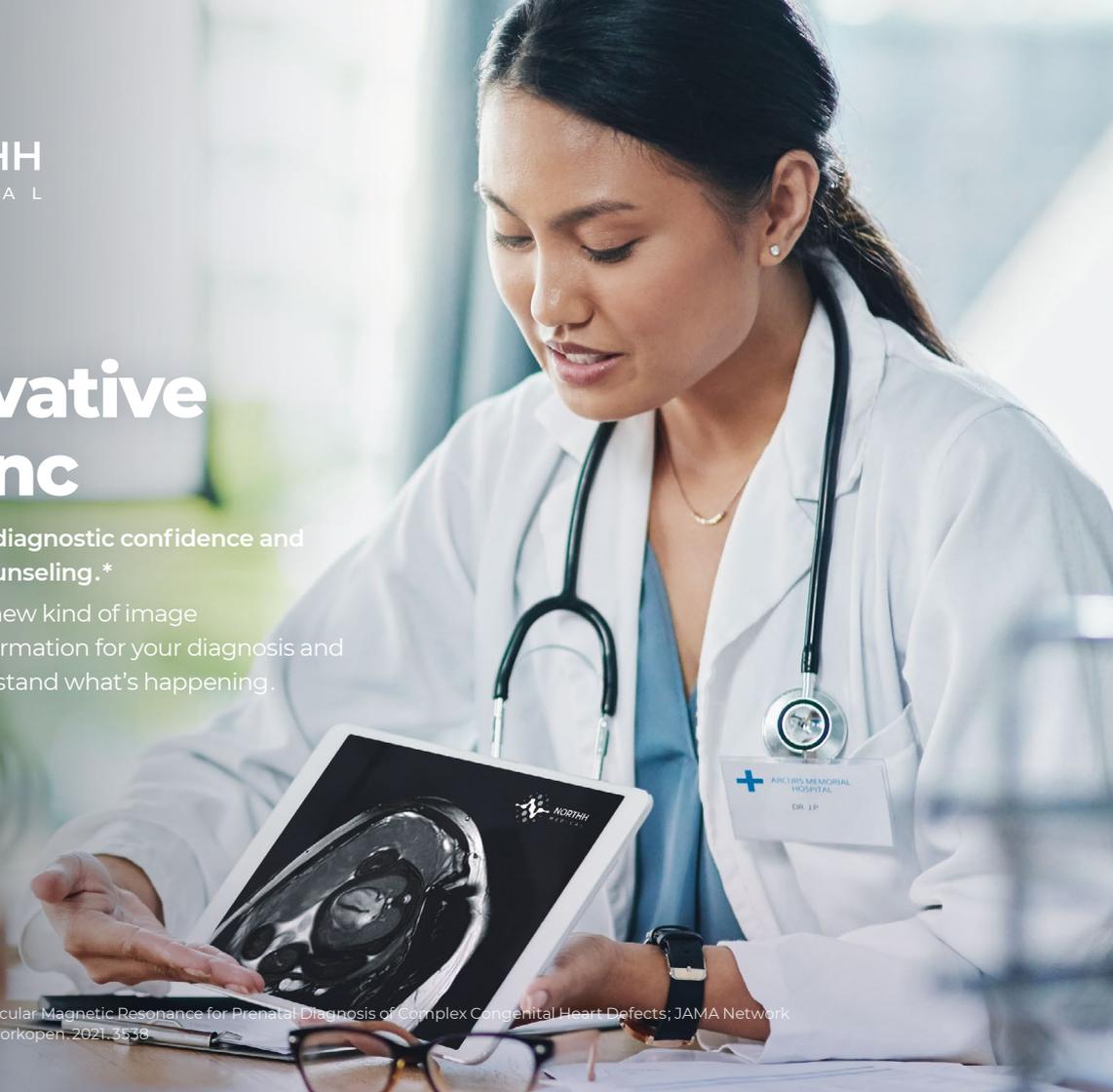


NORTH
MEDICAL

The innovative smart-sync

Empowers you with greater diagnostic confidence and state-of-the-art parental counseling.*

smart-sync enables a brand-new kind of image quality providing valuable information for your diagnosis and allowing the parents to understand what's happening.



* Salehi et al. (2021); Utility of Fetal Cardiovascular Magnetic Resonance for Prenatal Diagnosis of Complex Congenital Heart Defects; JAMA Network Open.;4(3):e213538. doi:10.1001/jamanetworkopen.2021.3538

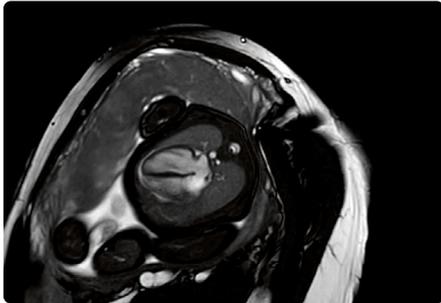
Problem solved

For the first time, the innovative smart-sync delivers instant crisp images of the fetal heart.

The direct synchronization of the fetal heart cycle with the MRI system provides access to pin sharp imaging – both intracardiac and extracardiac. That way, you can examine function, morphology and hemodynamics.



Assisting on all levels



Physicians gain greater diagnostic confidence through crisp images, enabling effective counseling and thorough delivery planning.



Parents are reassured with a better grasp of the diagnosis thanks to more understandable imaging.



Working with one of a kind MR technology allowing you to stand out as a pioneer in prenatal diagnostic.



Integrates easily in your clinical workflow

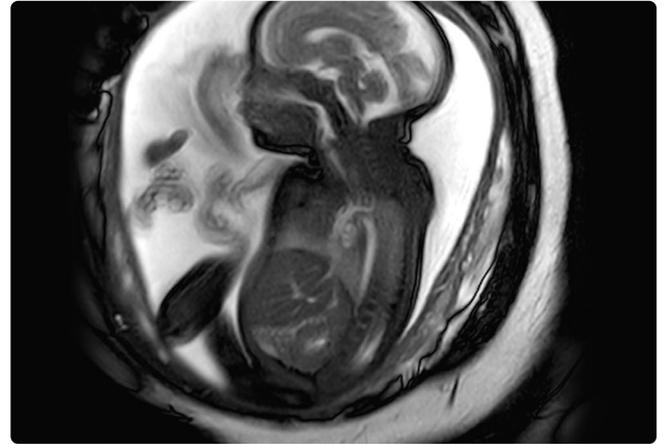
smart-sync detects cardiac motion and synchronizes the fetal cardiac cycle with the MR image acquisition. In that way, fetal CMR becomes possible and can be used for anatomical and functional imaging.

The quick setup in less than three minutes requires no special training. smart-sync utilizes standard cardiac MR sequences, being a plug and play solution that can be easily incorporated in your daily workflow. Its clinical utility is proven: smart-sync helps with delivery planning, organization of early postnatal care and provides valuable information for parental counseling.

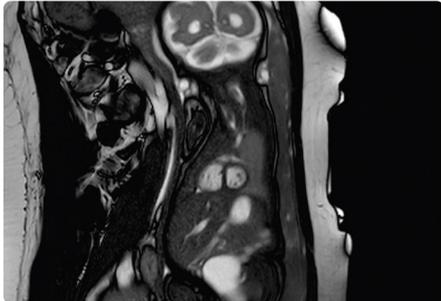
Convince yourself of the vast possibilities

From 4-chamber-view over short-axis-stack to dynamic 4D-flow, all the cardiac sequences you know from MRI can be applied to the fetal heart.

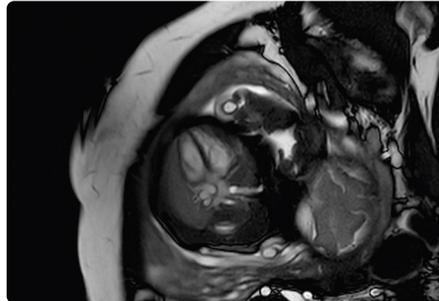
If your staff are familiar with adult cardiac MRI, there is no additional training required to use smart-sync successfully from the first scan on. Slight adaptations for the fetus can be done by yourself or you can use the Exam Cards we provide.



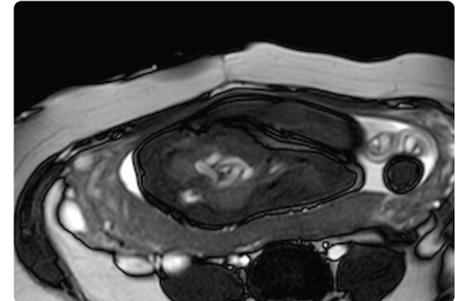
Coarctation of Aorta with Ductus Arteriosus, CINE SSFP, Gestational week 35



Short Axis, CINE SSFP, Gestational week 38



4-Chamber-View, CINE SSFP, Gestational week 35



Double Aortic Arch, CINE SSFP, Gestational week 34

Unboxing smart-sync

Filters ensure compatibility with 1.5T & 3.0T MR systems

Headphones provide acoustic feedback for convenient localization of the heart



Transducer detects fetal heartbeat. It is artefact-free and built with wings for easy fastening

Sensor Box communicates trigger signal wirelessly to MR scanner

Benefits for the entire team

Every member of your team will profit from the use of smart-sync



Help parents-to-be cope with the enormous level of emotional stress they are facing.



Experience a brand-new kind of image quality answering diagnostic questions related to the fetal heart and – as a result – reducing uncertainty, allowing everyone to understand what’s happening: You, the parents as well as the whole medical team.



Empower yourself: Performing fetal CMR will broaden your knowledge on CHD for a next-level understanding of the disease.



Master instant and high-quality prenatal MRI: smart-sync unlocks state-of-the-art MR sequences for the fetal heart, ensuring high-quality imaging and leading to greater diagnostic confidence.



Broaden your business by offering an entire mapping of the fetus including its heart and close a portfolio gap which has lasted for too long.



“The direct gating with ultrasound will be a game changer for the clinical use of fetal cardiac MRI”
Mike Seed, Division Head Cardiology, Sick Kids Hospital Toronto



Contact Us

Fabian Kording
info@northh.de
northh.de