

# Changing your

# mainstream MR procedures

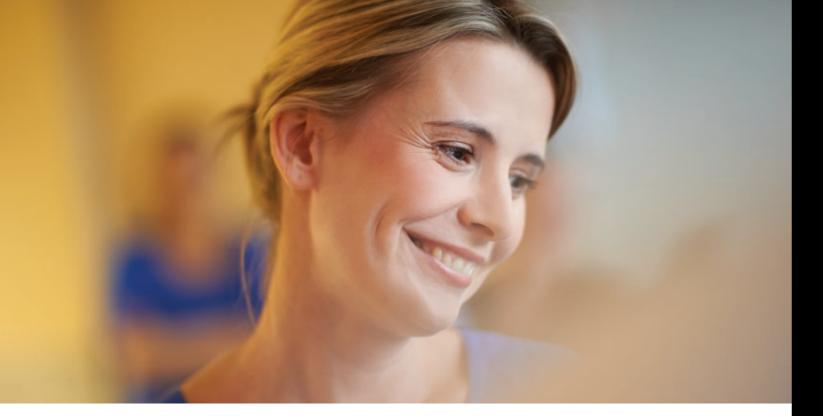
Philips mDIXON XD TSE for 1.5T systems

### **Key benefits**

- Premium fat-free\* quality even over large FOV and challenging anatomies
- Routine scan times and resolution, simultaneously
- 2-echo technology for 30% increase in speed and up to 30% in sharpness compared to 3-echo technique
- Up to 4 image types
  (Water only, In Phase, Out Phase, Fat only) in 1 scan

With mDIXON XD TSE, Philips offers its unique mDIXON technology to mainstream Turbo Spin Echo MRI acquisitions. mDIXON XD TSE brings a new dimension to fat suppression: Premium fat-free\* performance with high consistency, even over large field of views (FOVs) and in challenging anatomies such as HeadNeck, Spine, or MSK. Powered by its unique 2-echo technology, mDIXON XD TSE enables routine scan times and resolution, allowing you to easily replace your favorite routine TSE scans with it.

With up to 4 image types in 1 single scan (including with/without fat suppression contrasts), mDIXON XD TSE will enable you to enhance your imaging strategies by simplifying your routine TSE procedures.

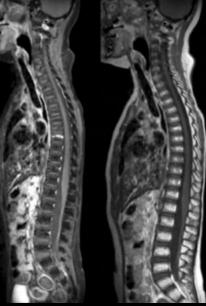


# **mDIXON XD TSE**

Changing imaging strategies for your mainstream MR procedures with mDIXON TSE.

	Technical characteristics	Additional information
Fat suppression type	mDIXON	Apply 1 fat suppression strategy across procedures: instead of SPIR, SPAIR or STIR
Sequence	TSE	Supports all routine contrasts: T1w, T2w, FLAIR, and PDw and all orientations
Number of echoes	2 echoes with unrestricted echo times	30% faster and up to 30% sharper than a 3-echo Dixon TSE technique
Image types	4 image types in 1 single scan	Image choices: . Water only ("fat-suppressed" contrast) . In Phase ("non fat-suppressed" contrast) . Out Phase . Fat only
Main applications	HeadNeck, Spine, MSK	Also available for other anatomies
Field strength	1.5T	
Parallel imaging	Compatible with dS SENSE	Leverages the efficient dS SENSE parallel imaging technology to provide optimal SNR and further reduce scan time to routine levels

Large FOV, high resolution imaging with 2 contrasts simultaneously.

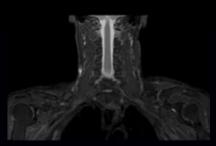


Water only

Top: T1w mDIXON XD TSE Resolution: 0.8 x 0.9 x 3.0 mm Scan time: 5:37 min FOV 440 mm

Courtesy: Phoenix Children's Hospital,

Premium fat-free\* imaging even in challenging anatomies, such as HeadNeck or Foot/Ankle

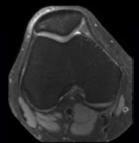


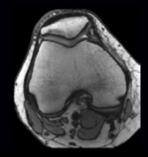


Water only

**Top:** T2w mDIXON XD TSE Resolution: 0.9 x 1.2 x 3.0 mm Scan time: 3:46 min. FOV 400 mm **Bottom:** T2w mDIXON XD TSE Resolution: 0.3 x 0.3 x 2.8 mm Scan time: 3:50 min Courtesy: Leuven University Hospital, Belgium

Very high resolution MSK imaging with simultaneous water only (Fat-free) and In Phase contrast





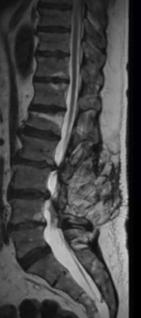
**Top:** PDw mDIXON XD TSE Resolution: 0.2 x 0.3 x 3.0 mm Scan time: 5:20 min Courtesy: Oakland Children's Hospital,

### Large FOV, high resolution fat-free imaging, and In Phase contrast simultaneously.

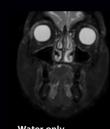
### Right: T2w mDIXON XD TSE Resolution: 0.7 x 0.9 x 4.0 mm Scan time: 4:43 min FOV 400 mm Courtesy: Utrecht Medical Center, The Netherlands



In Phase



Robust fat-free imaging in the challenging orbital area.





Out Phase



**Top:** T2w mDIXON XD TSE Resolution: 0.5 x 0.7 x 3.0 mm Scan time: 3:57 min FOV 180 mm Courtesy: Leiden University Hospital, The Netherlands

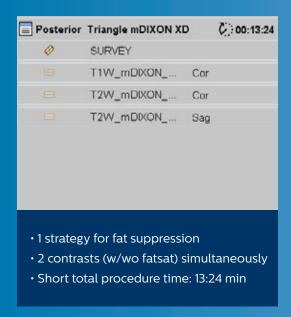
# How mDIXON XD TSE can impact your procedures?

Example ExamCard: HeadNeck – Posterior Triangle

## Without mDIXON XD TSE



## With mDIXON XD TSE



## Fast, robust, and simplified procedure with mDIXON XD TSE

#### Contact Philips for a trial key(1)

 $^{\mbox{\tiny (1)}}$  Only for systems with release 5 onwards

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