

OrthoWorks

**Innovative Applications**

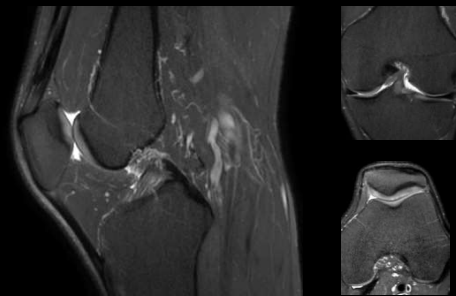
# HyperSense

HyperSense is an acceleration technique based on sparse data sampling and iterative reconstruction, that delivers higher image resolution or reduced scan time, without the typical penalties of conventional parallel imaging. It is combined with ARC acceleration to maintain high SNR with shorter acquisition times.

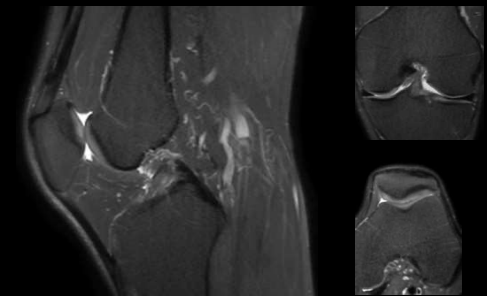
**Clinical benefits:**

- Lowers scan time, without reducing SNR
- Achieve outstanding resolution in the same amount of time
- Provides faster 3D imaging acquisitions

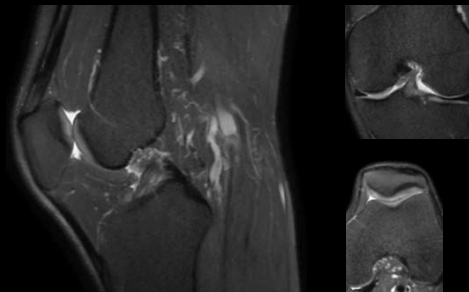
Original scan without HyperSense  
Sagittal Cube PD FS, 0.6mm<sup>3</sup>  
6:03 min



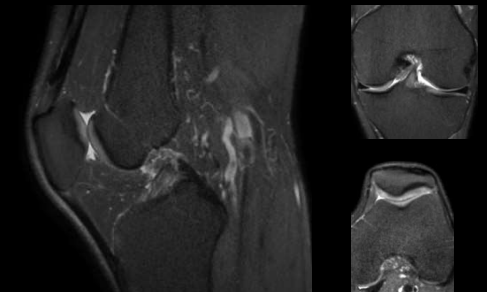
With HyperSense for reduced scan time  
Sagittal Cube PD FS, 0.6mm<sup>3</sup>  
HyperSense factor = 2 3:03 min



With HyperSense for improved spatial resolution  
Sagittal Cube PD FS, 0.5mm<sup>3</sup>  
HyperSense factor = 2 4:06 min



With HyperSense for improved spatial resolution  
Sagittal Cube PD FS, 0.4mm<sup>3</sup>  
HyperSense factor = 2 5:52 min



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# HyperCube

HyperCube reduces scan time and limits artifacts such as motion and aliasing by reducing the phase FOV. It can be applied with or without fat suppression and significantly lowers imaging time without sacrificing contrast quality. It focuses on the area of interest, can be used on the entire body and is compatible with HyperSense.

**Clinical benefits:**

- Lowers scan time without SNR loss, reducing the potential for patient motion and repeats
- Eliminates time-consuming parameters
- Provides high-resolution small FOV imaging
- Helps with large FOV robust fat suppression when combined with FSE Flex

HyperCube with HyperSense 2:36 min

Sagittal



Multi-planar reformats

