



PHILIPS

Smart Quant
MSK

MR Clinical application

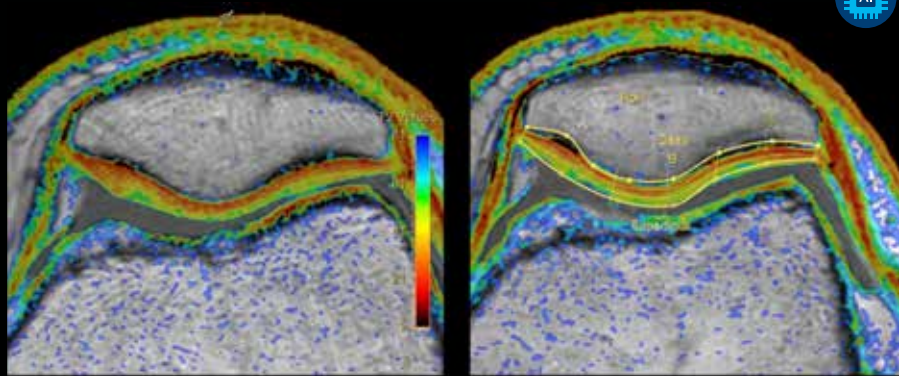
Quantitative MR imaging with AI technology

Smart Quant MSK, a combination of AI reconstruction technology and quantitative MR, is designed to allow you to perform fast and high-quality MR imaging of MSK with a single quantification scan to increase your diagnostic confidence.

Smart Quant MSK enables the advanced visualization of cartilage structures and provides tools to support determination of the degradation of the cartilage. Quantitative analysis of T2 relaxation time displayed via integrated color-coded T2 maps. Positioning of cartilage-shaped, layered region of interest is used to assess variation of T2 values across the cartilage depth to determine the degradation of the cartilage.

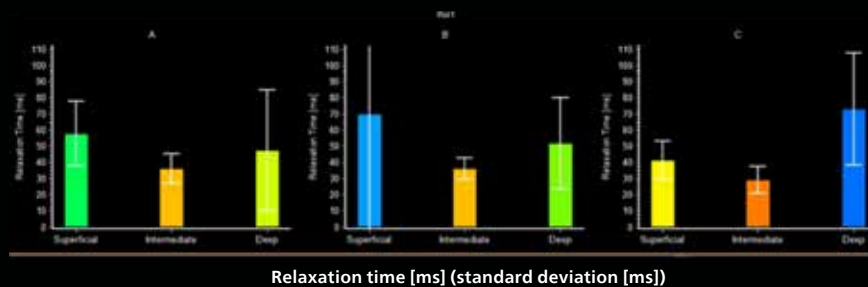
Smart Quant MSK

FieldStrength	1.5T, 3.0T
Main applications	MSK
Sequence	Single quantification scan to analyze T2 relaxation time
Quantitative images	Color-coded T2 maps
Speed	SmartSpeed AI Can speed up scan time nearly 3 times with no loss in image quality



T2 Cartilage Assessment
Resolution: 0.42 x 0.50 x 2.5mm
Scan time: 6:00 min

T2 Cartilage Assessment - SmartSpeed
Resolution: 0.42 x 0.50 x 2.5mm
Scan time: 3:24 min



Roi1	A	B	C
Deep	47.5 (37.6)	52.0 (28.3)	73.1 (34.8)
Intermediate	36.4 (9.3)	36.3 (6.9)	29.4 (8.3)
Superficial	58.0 (20.1)	69.9 (142.8)	41.7 (12.1)