

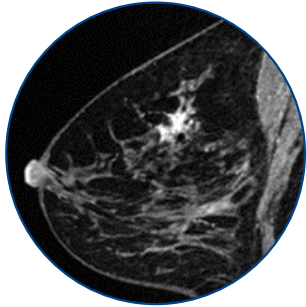


BodyWorks

Women's health imaging

Enable fast, high-resolution,
quantitative and personalized
MR for women's health

Comprehensive women's health imaging portfolio



Fast

15-minute breast exam

DISCO

HyperSense

HyperCube



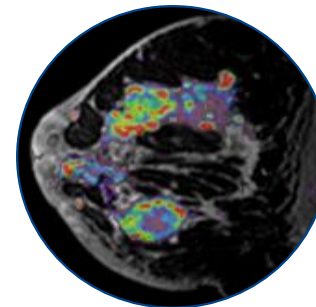
Consistent

FSE

PROPELLER

FLEX / IDEAL

VIBRANT



Quantifiable

eDWI

FOCUS DWI

MUSE

CADstream®

GenIQ

READYView / BodyView

OncoQuant



Personalized

8ch Breast Coil

16ch NeoCoil Breast Coil

16ch Sentinelle Coil

16ch Rapid Breast Coil

Precision health: Better outcomes, delivered more efficiently



BodyWorks – Women’s Health

Now with AIR™ Recon

Because everyBODY has a story...

Fast Breast Protocols

ACR compliant breast imaging in 10 minutes

Cube with HyperSense and HyperCube

Isotropic T2 volume to reformat to any plane
Reduce scanning time & artifacts for 3D T2 scans

VIBRANT

Isotropic, high-resolution dynamic T1 imaging in the axial or sagittal planes

Robust Breast Imaging

High spatial & temporal resolution diagnostic breast scans

DISCO VIBRANT

Extreme, high-resolution for 4D dynamic imaging

T2 Flex

Homogeneous fat suppression for breast & axilla

FOCUS DWI

High resolution, small FOV diffusion imaging

BodyWorks Workflow Solutions

Automated, patient centric workflows

Smart Selective Anatomy

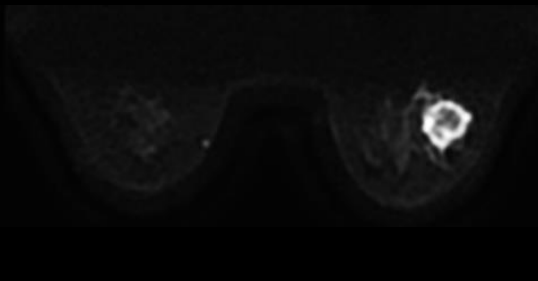
Flexible No Phase Wrap

Automated peak arrival & delays with DynaPlan

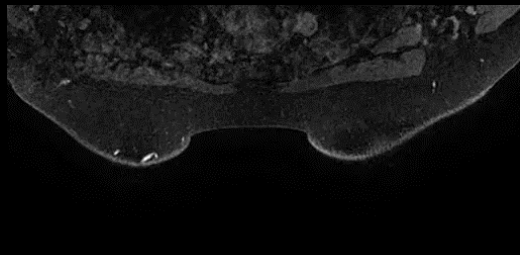
Automated Inline Subtraction

Automated Inline ADC map generation

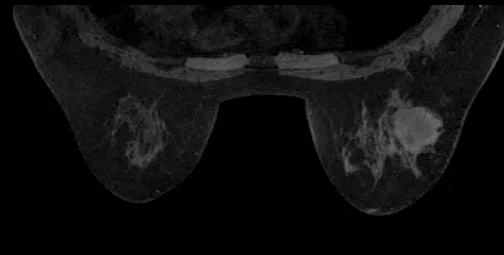
Personalized protocol notes



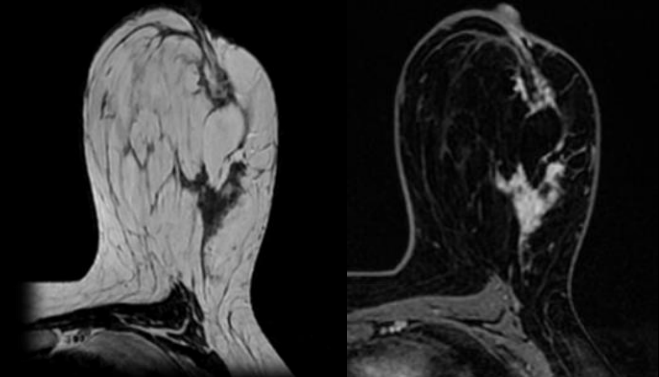
FOCUS DWI



VIBRANT DISCO



VIBRANT DISCO
Multi-phase



FSE T2 Flex
Fat / Water Separated

ACR compliant fast breast MR protocol in <10 min

“At MGH, we went **from a 45-minute exam to a 9-minute, 48-second exam** without losing the key components that the ACR requires for an accredited exam. This really changes the whole process for us and how our patients will think about breast MR.”

Dr. Connie Lehman, MGH

MGH fast breast protocol*

Series	PSD	FOV	Matrix	Resolution	Slice	NEX	TR/TE	Time
T1w Non fat sat	VIBRANT	32cm	400x400	0.8mm ³	0.8mm	1	5/2.3	1:19
T2w fat sat	Cube T2	32cm	352x352	0.9x0.9x0.8	0.8mm	1	2500/90	1:54
T1 Dyn fat sat x3	VIBRANT	32cm	400x400	0.8mm ³	0.8mm	1	6.4/2.4	2:04 per phase (1 pre, 2 post)

*Using the 16ch Sentinelle coil

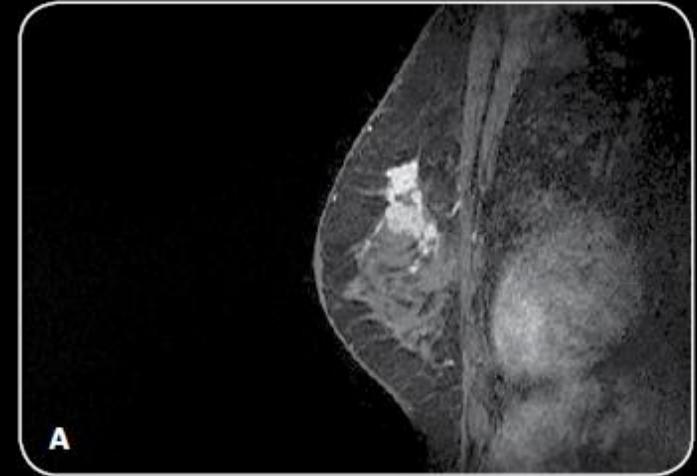


Figure A) Isotropic thin slice acquisition allows multiplanar reconstruction to other planes

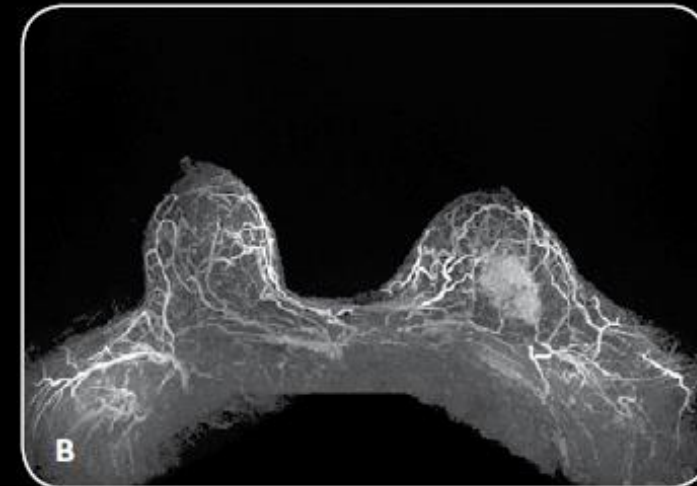


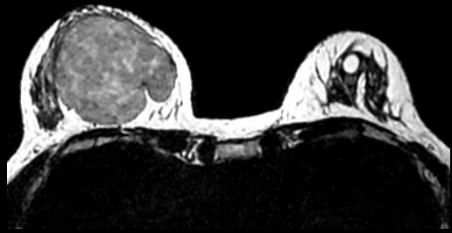
Figure B) detailed Maximum Intensity Projection



Seamless Breast MR workflow

Visualization of functional and morphological data in less than 15-minutes

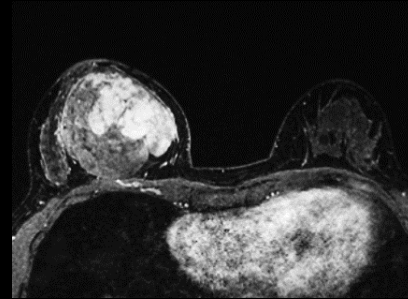
Cube T2



2:28 min

3D isotropic T2 acquisition specifies anatomical localization in all planes

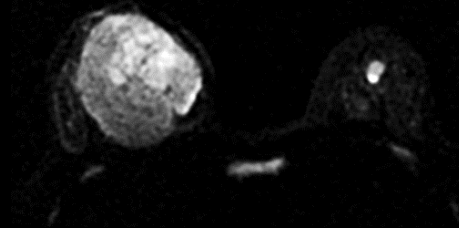
DISCO T1



1:00 min per phase

3D isotropic T1w dynamic sequence offers very high resolution (temporal and spatial), to precisely identify the boundaries

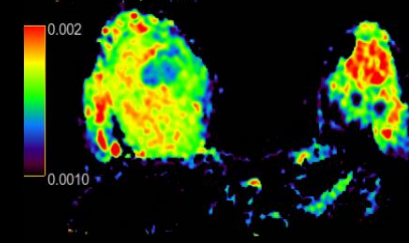
FOCUS DWI



2:56 min

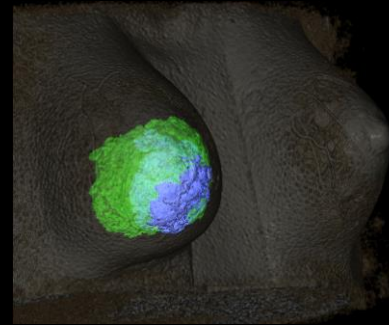
Allows very high-resolution diffusion sequence with precise ADC map

**Volume Share 7
ADC**



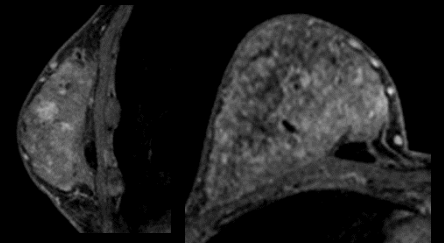
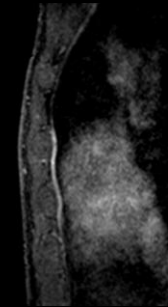
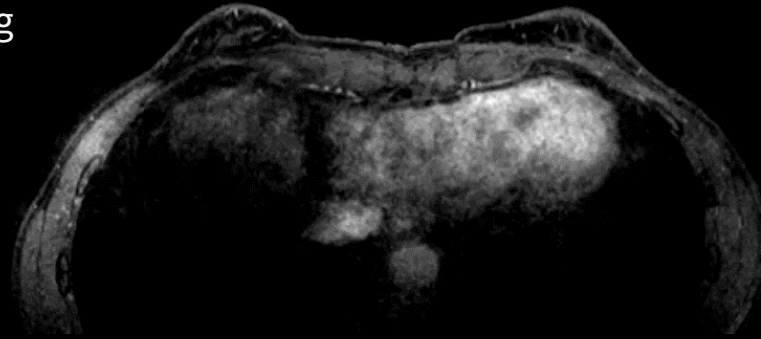
Post-processing with Advantage Workstation VS7 enables in few clicks to study functional and topographic aspect of the lesion via multiparametric maps, enhancement curves and segmentation and quantification of mass

Topography



High-resolution volumetric imaging

Double your resolution with **VIBRANT DISCO** while preserving scan time per phase and homogeneous image quality



Sagittal VIBRANT DISCO Reformat

Axial & Coronal VIBRANT DISCO Reformat

VIBRANT DISCO - Single Echo

512 x 512 (acquired resolution)

1 mm slice (acquired resolution)

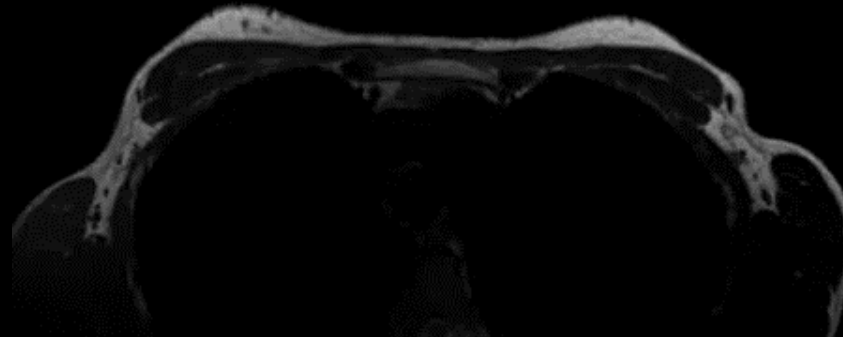
0:55 min / phase

Axial T2 Cube

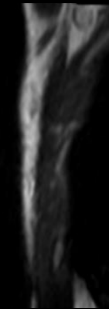
340 x 320

2 mm slice

3:57 min



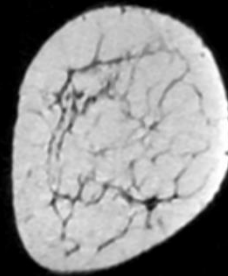
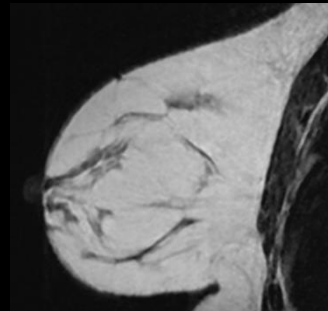
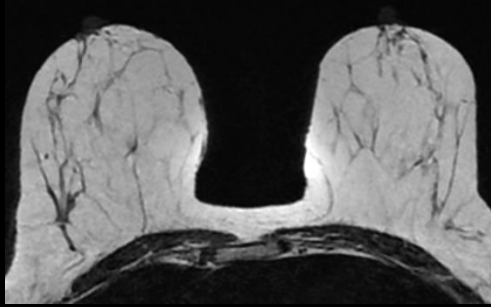
Cube T2



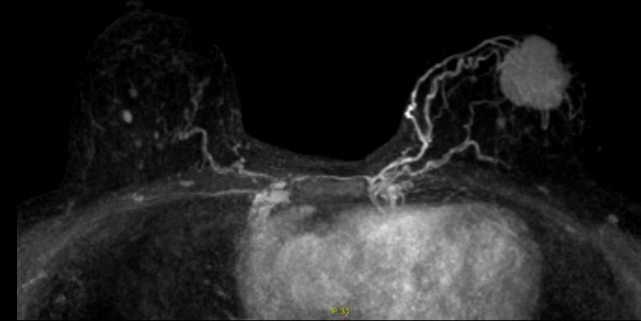
Sagittal Cube Reformat



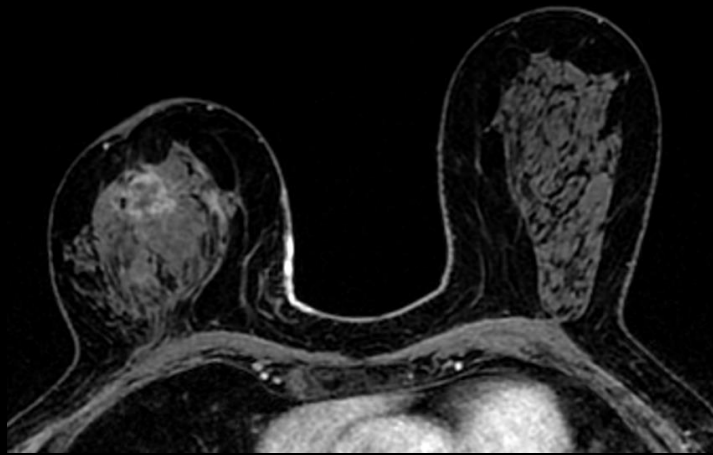
High-resolution volumetric imaging



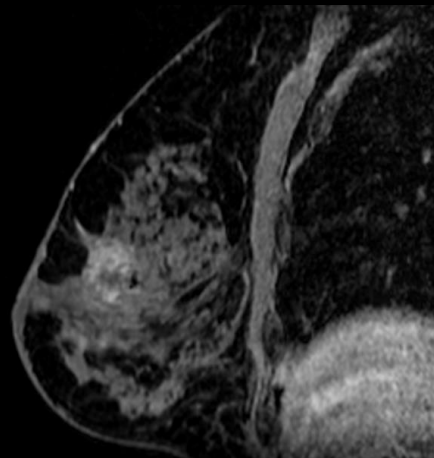
Axial T2 Cube – Acquired in axial plane (1mm³)
with seamless reformats



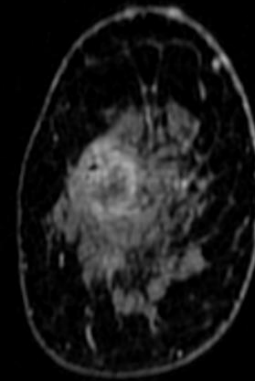
Axial T1 dynamic contrast
subtracted (phase 1)



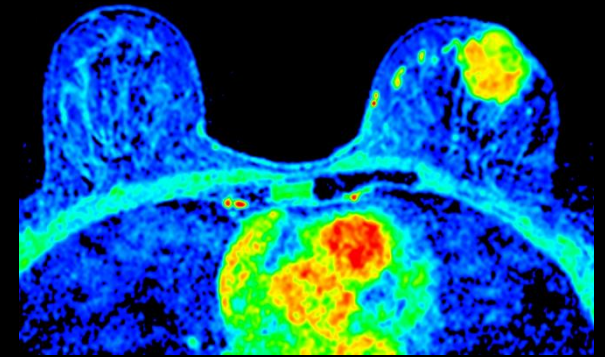
Axial DISCO Water image
0.9 x 0.9 x 1.2 mm



Sagittal reformat



Coronal reformat

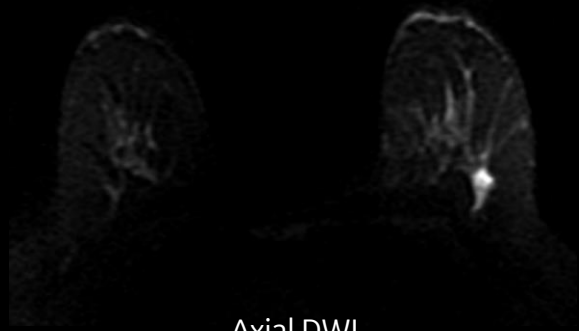


Axial T1 dynamic contrast
positive enhancement integral map

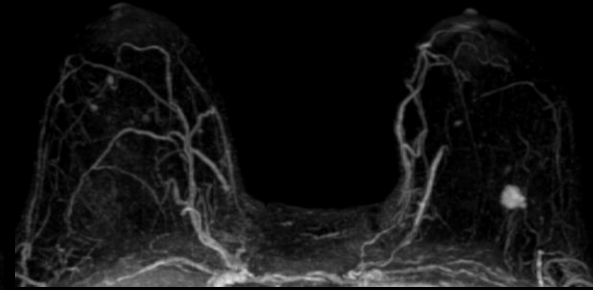


BodyWorks

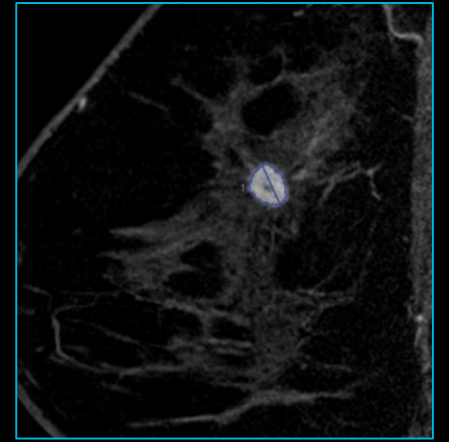
High resolution breast imaging



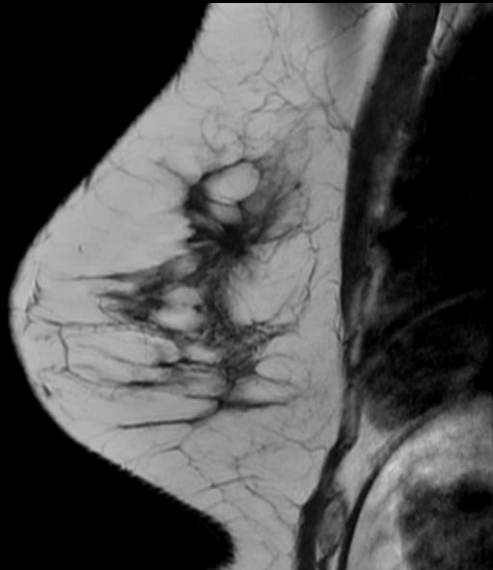
Axial DWI
b700 2 x 1.7 x 3.3 mm³
4:55 min



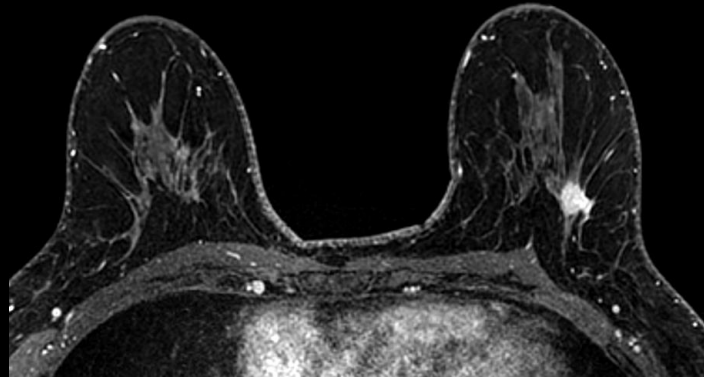
MIP from DISCO
Arterial phase



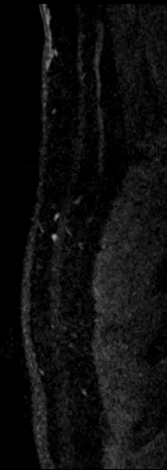
ROI 1: 2Dmax = 10 mm 470 mm³



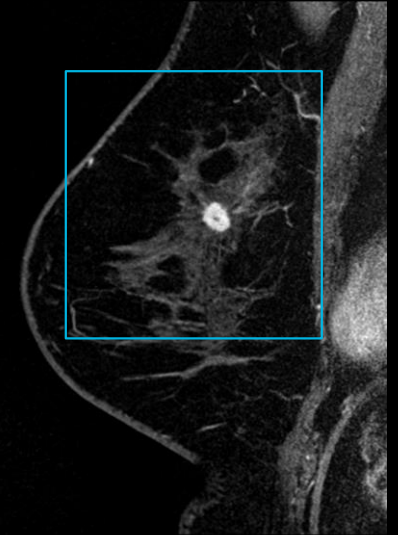
Sagittal T1 FSE
0.6 x 0.8 x 4 mm³
40 slices, 3:28 min



Axial T1 VIBRANT FatSat (ASPIR)
0.7 x .7 x .8 mm³
376 slices, 2:20 min

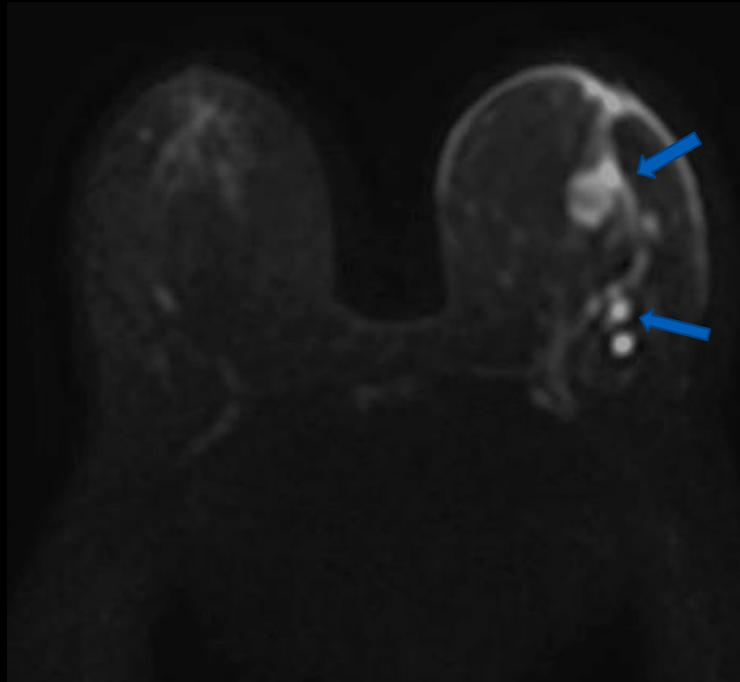


Sagittal T1 DISCO VIBRANT FatSat (ASPIR)
0.5 x 0.5 x 1 mm³
260 slices, 45 sec/phase

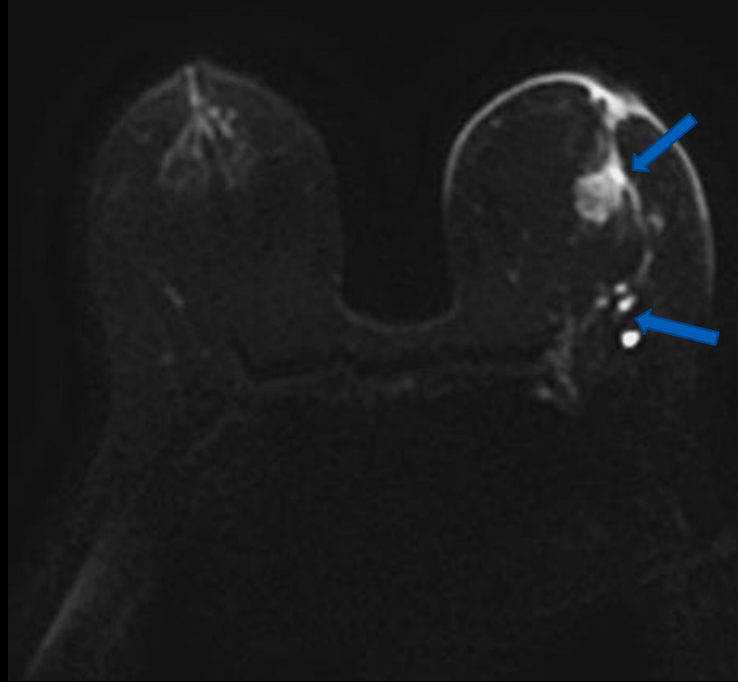


High Resolution Diffusion

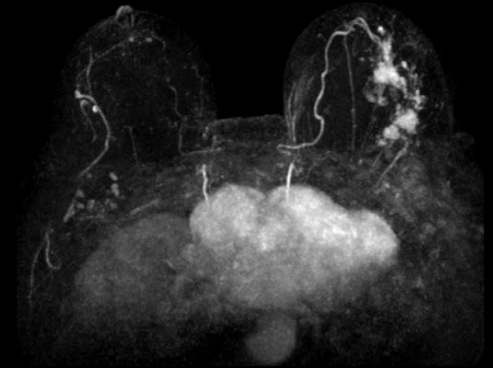
Conventional eDWI vs. MUSE (Multi-shot DWI)



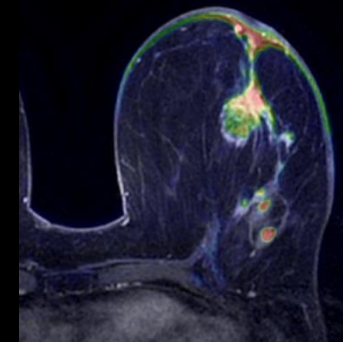
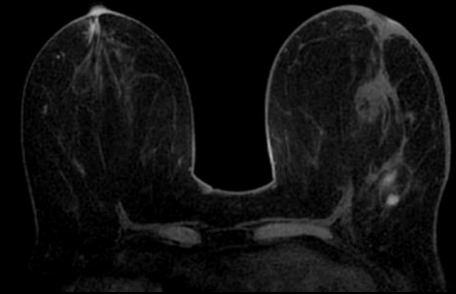
Axial DWI b600
3.8 x 2.8 x 3.5 mm



Axial DWI MUSE b600
2.3 x 2.3 x 3.5 mm



Axial VIBRANT Temp Resolution 1:14
Voxel Size 0.9 x 0.9 x 2.0



Color Fusion Axial Vibrant (post gad) & MUSE



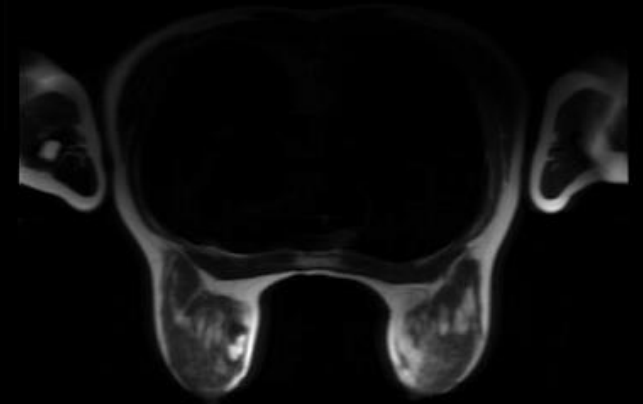
HyperCube and HyperSense

Reduce scan time with high resolution breast imaging

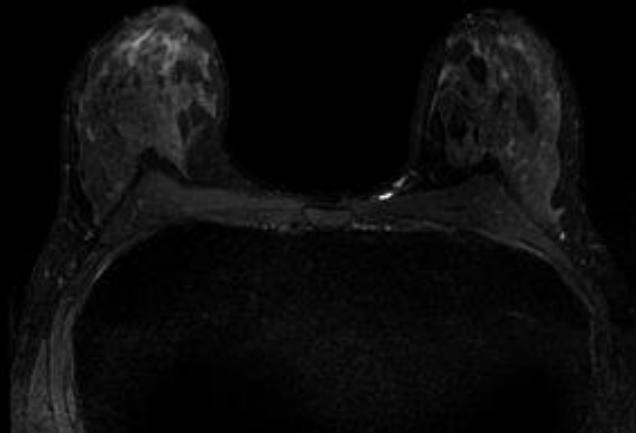
Benefits

- HyperSense reduces scan time
- HyperCube increases patient comfort with arms on the side scanning while avoiding wrap without scan time penalty
- Cube's variable flip angle scheme corrects for cardiac motion contamination for clean Axilla assessment

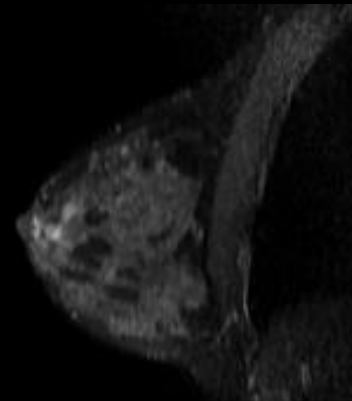
16ch Sentinelle Breast Coil
Arms on the side scan
44 cm localizer



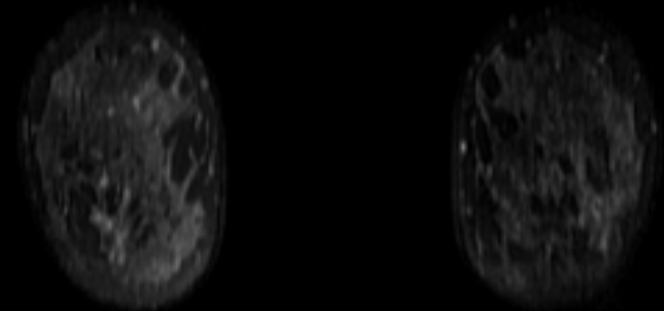
HyperCube and HyperSense 0.8mm³
ARC = 3 and HyperSense factor = 1.4
2:32 min



Axial T2 HyperCube with HyperSense



Sagittal reformat



Coronal reformat



Silicone implant imaging

16ch NeoCoil breast coil enabling higher accelerations and resolution

Axial STIR Cube

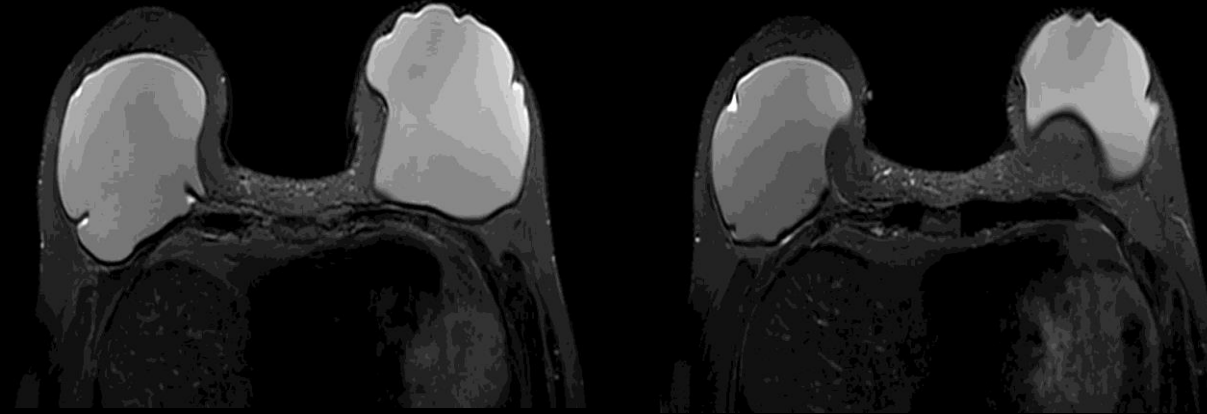
TI 210ms

1.2 x 1.2 x 1 mm

ARC factor 2 x 1

Scan time: 5:02 min

ARC Acceleration 2x1



Axial STIR Cube

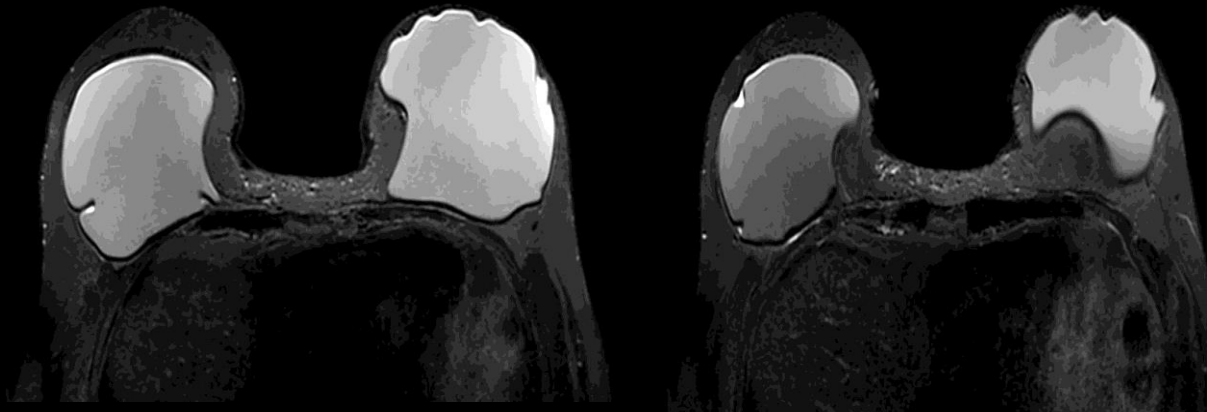
TI 210 ms

1 mm³

ARC factor 2 x 2

Scan time = 3:13 min

ARC Acceleration 2x2





For more information, contact your GE Healthcare sales representative or [click here to contact us now.](#)

