

## 2D multi-slice ihMTw mFFE

**Team:** Torben Schneider, Samantha By, Brian Johnson, Guillaume Gilbert

**System:** Philips Achieva 3T

**Software release:** R5.3.0.3

**Coil:** SENSE NV-16 (product)

**Sequence availability:** Research patch (not product). Source code can be made available to institutions with a research agreement with Philips.

**Acquisition time:** 354 seconds

**Additional notes:** No collar used

### Sequence parameters:

Uniformity =	"CLEAR";
FOV AP (mm) =	173;
RL (mm) =	173;
FH (mm) =	60;
ACQ voxel size AP (mm) =	0.60;
RL (mm) =	0.60;
Slice thickness (mm) =	3;
Recon voxel size AP (mm) =	0.60;
RL (mm) =	0.60;
Fold-over suppression =	"oversampling";
L (mm) =	30;
R (mm) =	30;
Reconstruction matrix =	288;
SENSE =	"no";
Stacks =	1;
type =	"parallel";
slices =	20;
slice gap =	"user defined";
gap (mm) =	0;
slice orientation =	"transverse";
fold-over direction =	"RL";
fat shift direction =	"P";
Minimum num. of packages =	1;
Slice scan order =	"interleaved";
REST slabs =	0;
Patient position =	"head first";
Patient orientation =	"supine";
Scan type =	"Imaging";
Scan mode =	"MS";
technique =	"FFE";
Contrast enhancement =	"no";
Acquisition mode =	"cartesian";
Fast Imaging mode =	"none";
Echoes =	4;
partial echo =	"yes";
shifted echo =	"no";
TE first =	"shortest";

echospaceing =	"shortest";
flyback =	"yes";
Flip angle (deg) =	30;
TR =	"user defined";
(ms) =	450;
Halfscan =	"no";
Water-fat shift =	"user defined";
(pixels) =	2.3;
Shim =	"PB-volume";
mDIXON =	"no";
Fat suppression =	"no";
Water suppression =	"no";
MTC =	"inhomogeneous";
nr repetitions =	4;
angle (deg) =	90;
duration (ms) =	0.90;
interval (ms) =	1.5;
frequency (Hz) =	7000;
pulse shape =	"hann";
frequency mode =	"alternating +-";
freq. offset (Hz) =	0;
spoiler type =	"trailing";
Research prepulse =	"no";
Multi-transmit =	"no";
SAR mode =	"high";
B1 mode =	"default";
SAR allow first level =	"yes";
PNS mode =	"high";
Gradient mode =	"maximum";
SofTone mode =	"no";
Cardiac synchronization =	"no";
Respiratory compensation =	"no";
Navigator respiratory comp =	"no";
Flow compensation =	"yes";
Temporal slice spacing =	"default";
NSA =	1;
Total scan duration =	"05:53.7";
Rel. SNR =	1;
Act. TR/TE1/delta TE (ms) =	"450 / 2.5 / 7.0";
ACQ matrix M x P =	"288 x 286";
ACQ voxel MPS (mm) =	"0.60 / 0.60 / 3.00";
REC voxel MPS (mm) =	"0.60 / 0.60 / 3.00";
Packages =	2;
Act. WFS (pix) / BW (Hz) =	"2.301 / 188.7";