ExamCard:

Landman_Data_Comparison_R5_201609

swVersion : 5.1.7.1
modelVersion : 5.1
methodsVersi : 31.1

Examcard description:

patientOrientation : PatientPos_HFS
dockingMode : DockingMode_Front
anatomicRegion : SRT.T-A0100.Brain

laterality : unpaired

heartRate : 60 autoFillInHeartRate : false

mainSystemType : AWASW_MST_T30

alignOverlap
 pushToWorkStation : false
tableUsage : UseTable
geoLinkPropagation : false

Protocols:

 $\underline{CoilSurveyScan}$

Survey SHC32

B1 calibration [B1]

SenseRefScan

T1W/3D/TFE [SAG]

Original PGPP 1mm

T2W TSE 32chSHC [Hipp] FLAIR LongTR MOD [Ax]Resting state [AC-PC] WIP dti landman 5min [AC-PC] DTI APA [AC-PC] WIP HARDI 60 2 5iso [AC-PC] WIP dti 4min matchTE [AC-PC] [AC-PC] Ax-B0map **ASL BASELINE PGPP** [Axial]

ASL M0 Ref

3DPCA_DEM_MJD [COW]
VESSELWALL_T1VISTA 0.6iso [cor]
SWI_DEM_MJD [Axial]

Resting state

Protocol Name: CoilSurveyScan

Methodes Description:

```
Other Tags:
applicationMode : AGDEF APPL IMAGING
lastModifiedTimeUtc : 6/1/2013 7:57:21 AM
linkState
             false
 Patient weight [kg] :
                                 25
 Nucleus
                                 Н1
 Multi coil :
                                 YES
 compacted :
                                 0 -1 -1 -1 -1 -1 -1 -1 -1 1 2 -1 -1
                                 BODY QUAD , SENSE HEAD 32AH , SENSE_HE
 compacted coils
 compacted conns :
                                 /CDAS.ConnPFEI/PFEI.ConnQBC , /CDAS.Co
 stacks channels
                                 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
                                 BODY_QUAD.Complete , SENSE_HEAD_32P_SE
 clinical modes
                                 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
 compacted (exclude)
 compacted coils (exclude) :
 compacted conns (exclude)
                                 stacks channels (exclude)
 Uniformity :
                                 CLAS SYN
 FOV (mm)
                                 705
 FOV (mm)
                                 465
 FOV (mm)
                                 705 705 705 705 705 705 705 705 705 70
 ACQ voxel size
                 FH (mm)
                                 15
 ACQ voxel size
                                 15
                 FH (mm)
 Slice thickness (mm)
                                 15
 EX PROC recon voxel size :
                                 11.0159997940063
 RF0V (%)
                                 65.9574432373047
                                 YES
 Image shutter :
 Fold-over suppression
                                 NO
 Slice oversampling :
                                 DEFAULT
 RF select. FOS
                                 NO.
 Matrix scan
                                 48
        reconstruction :
                                 64
                                 76.0849990844727
 Scan percentage (%) :
 SENSE :
                                 NO.
 k-t Acceleration :
                                 NO
                                 NO
 EX ACQ overcont slices
 Stacks
                                 2
 Slices
                                 47 47
 Slice thickness (mm)
                                 15
 Slice orientation
                                 SAGITTAL
 Fold-over direction :
                                 AP
 Fat shift direction
 Slice Offc. AP (P=+mm) :
                                 -40 -40
             RL (L=+mm) :
                                 0 0
             FH (H=+mm):
                                 26.6666660308838 26.6666660308838
```

```
AP (deg)
                                  0 0
      Ang.
            RL (deg)
                                  0 0
            FH (deg)
                                  0 0
EX GEO stacks table long pos :
                                  2100000000 2100000000
      Free rotatable :
                                  NO.
Multi-chunk
                                  NO
Stacks as packages
                                  N<sub>0</sub>
Move table per stack :
                                  N<sub>0</sub>
Large table movement
                                  NO.
Stack alignment
                                  NONE
EX GEO stack display order :
                                  NONE
PlanAlign :
                                  NO.
REST slabs :
                                  0
    delay :
                                  NO
EX_TRACK_tracking :
                                  NONE
Interactive positioning :
                                  N<sub>0</sub>
External control :
                                  NO.
Allow table movement
                                  NO.
Patient position :
                                  HEAD FIRST
Patient orientation :
                                  SUPINE
Scan type
                                  IMAGING
Scan mode
                                  3D
    technique :
                                  FFE
                                  ZY
    loop order :
Contrast enhancement
                                  T1
Acquisition mode :
                                  CARTESIAN
Fast Imaging mode :
                                  NO
    3D non-selective
                                  N<sub>0</sub>
Echoes
                                  1
EX_ACQ_b0zshim_enum
                                  DEFAULT
    partial echo
                                  N0
    shifted echo :
                                  NO.
TE :
                                  SHORTEST
Flip angle (deg) :
                                  1
TR:
                                  SHORTEST
Halfscan
                                  NO.
Water-fat shift :
                                  MINIMUM
EX_ACQ_RF_shim_data
                                  Get shim and FO from PRIDE :
                                  N<sub>0</sub>
 Calculate shim now :
                                  N<sub>0</sub>
 FO Determination :
                                  AUT0
 Χ
          shim value
                                  0
 Υ
          shim value
                                  0
          shim value
 Ζ
                                  0
 Z2
          shim value
                                  0
 ZX
          shim value
                                  0
 ZY
          shim value
                                  0
 X2-Y2
          shim value
                                  0
 2XY
          shim value
                                  0
 Z3
          shim value
                                  0
 Z2X
          shim value
                                  0
```

```
Z2Y
         shim value
                               0
 Z(X2-Y2) shim value
                               0
 2XYZ
         shim value
                               0
 Х3
         shim value
                               0
 Y3
         shim value
                               0
 Shim offset freq
                               0
 Nav shim offset freq
                               0
 Navigator X shim value
                               0
 Navigator Y shim value
                               0
 Navigator Z shim value
                               0
mDIXON
                               N<sub>0</sub>
Fat suppression :
                               NO
Water suppression
                               N<sub>0</sub>
   shared
                               NO
MTC
                               N<sub>0</sub>
Custom prepulse
                               NO
Diffusion mode :
                               NO.
EX DIFF array x
                               EX DIFF array y
                               EX DIFF array z
EX DIFF array b
                                nr of b-factors
                               2
EX DIFF nr dti directions
                               1
EX DIFF nr dti vectors
                               1
EX DIFF weighting ix array
                               EX DIFF direction ix array
User defined DTI scheme
                               user defined
EX_DIFF_grad_factor
                               1
MRE enable
                               N<sub>0</sub>
Multi-transmit
                               NO.
SAR mode
                               HIGH
B1 mode :
                               DEFAULT
EX MULTIX SAR mode
                               AUT0
PNS mode :
                               LOW
Gradient mode :
                               DEFAULT
SofTone mode
                              N0
=====MOTION======
Cardiac synchronization
                               N0
                            N0
Heart rate > 250 bpm
Respiratory compensation :
                               NO.
Navigator respiratory comp
                               0FF
   weighted gating
                               NO
Flow compensation
                               N<sub>0</sub>
fMRI echo stabilisation
                               N<sub>0</sub>
NSA
                               1
Angio / Contrast enh.
                               N<sub>0</sub>
Quantitative flow
                               N<sub>0</sub>
Manual start
                               N<sub>0</sub>
EX abuse dyn loop
                               NO
Dynamic study
                               NO.
Arterial Spin labeling
                               N<sub>0</sub>
```

```
=====PR0C======
Preparation phases
                             AUT0
Interactive F0
                             N0
Gradient demo :
                             NO
Pre scan
                             COILSURVEY
SmartPlan survey
                             NONE
EX ACQ whole body fat water
                             N<sub>0</sub>
EX_ACQ_B0_map
                             N<sub>0</sub>
EX ACQ B1 map
                             NO
MIP/MPR
                             N<sub>0</sub>
SWIp
                             NO
                             N<sub>0</sub>
Images :
                             N<sub>0</sub>
Autoview image
Calculated images
                             NO
EX_TS_reference tissue
                             WHITE MATTER
Recon compression
                             NONE
Recon compression
                             NONE
   Nr recon channels
                             8
EX PROC delrec fcc proc
                             PTIMIZED
Preset window contrast :
                             S0FT
EX_PROC_usdef_coca
                             NO
EX_PROC_coca_acq_nrs
                             EX_PROC_coca_rec_nrs
                             EX PROC usdef coil survey
                             NO
EX PROC coil survey acq nrs
                             EX PROC coil survey rec nrs
Reconstruction mode
                             PARALLEL
Save raw data
                             N0
Analyse with IQT
                             N<sub>0</sub>
EX_PROC_to_gyroview
                             NO
Hardcopy protocol
                             NO
Image filter
                             DEFAULT
Viewable raw data
                             NO
Elliptical k-space shutter
                             DEFAULT
EX conflict suggestion
GEX CONV id :
                             0 31 1
GEX_CONV_ppde_update
                             0
GEX_CONV_made_by_philips
                             YES
GEX CONV applied conversions
                             0 6 2 1 0 7 0 8 11 4 8 13 -1 1 -1 -1 -
GEX_CONV_base_release
                             18
EX GEO voxel size_conv_done
                             YES
EX_PROC_scan_pat_ref_id
                             541938977
EX PROC coca patient ref ids
                             EX_PROC_coca_nr_channels :
                             EX PROC coca nr stacks
                             EX PROC coca edge dist pos
                             10000 10000 10000 10000 10000 10000 10
                             -10000 -10000 -10000 -10000 -10000 -10
EX PROC coca edge dist neg
EX PROC senseref rfsh rx scls :
                             1 1 1 1 1 1 1 1
EX PROC senseref rfsh rx ph
                             0 0 0 0 0 0 0 0
EX PROC coil surv rfsh rx scls : 1 1 1 1 1 1 1 1
EX PROC coil surv rfsh rx ph :
                             0 0 0 0 0 0 0
```

```
EX PROC sense ref gbc stack :
                          EX PROC sense ref syn stack
EX PROC coil survey nr channels
                         :0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coil_survey_nr_stacks
                       EX_PROC_coil_survey_qbc_stack
                       : 002222222222222222
                       : 00111111111111111111
EX PROC coil survey syn stack
EX GEO auto coils selected
                          NO.
EX COIL ui use review mode
                          YES
Total scan duration
                          00:05.4
IF absolute SNR :
                          96.8581619262695
Rel. SNR :
                          1
Act. TR/TE (ms)
                          3.8 / 0.49
ACQ matrix M \times P:
                          48 x 31
ACQ voxel MPS (mm)
                          14.69 / 15.16 / 15.0
REC voxel MPS (mm)
                          11.02 / 10.68 / 15.0
Scan percentage (%) :
                          96.875
Packages
                          1
WFS (pix) / BW (Hz):
                          0.105 / 4142.5
Min. WFS (pix) / Max. BW (Hz) : 0.105 / 4142.5
Local torso SAR
                          < 6 %
Whole body SAR / level :
                          < 0.1 \text{ W/kg / normal}
SED:
                           0.0 \text{ kJ/kg}
B1+rms
                          0.40 uT
                          0.40 uT
Max B1+rms :
                          17 % / normal
PNS / level :
                          43.8 T/s
dB/dt :
Sound Pressure Level (dB) :
                          6.645263671875
```

Protocol Name: Survey SHC32

Methodes Description:

clinical modes :

```
Other Tags:
                  AGDEF APPL IMAGING
applicationMode :
linkState : false
laterality : unpaired
 25
 Patient weight [kg]
 Nucleus
                               H1
 SmartSelect :
                               AUT0
 Multi coil :
                               YES
 compacted :
                               0 1 -1 -1 -1 -1 -1 -1 -1 1 0 -1 -1
                               SENSE HEAD 32AH , SENSE HEAD 32P
 compacted coils :
                               /CDAS.ConnPFEI/PFEI.ConnB , /CDAS.Conn
 compacted conns :
                               65535 0 0 0 65535 0 0 0 0 0 0 0 0 0 0
 stacks channels
```

SENSE HEAD 32P SENSE HEAD 32AH , SENSE

```
compacted (exclude)
                                 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
compacted coils (exclude)
compacted conns (exclude)
stacks channels (exclude)
                                 CLEAR
Uniformity :
FOV (mm)
                                 250
FOV (mm)
                                 250
FOV (mm)
                                 130 130 130 250 250 250 250 250 250 25
ACQ voxel size
                                 0.9765625
                FH (mm)
ACQ voxel size
                FH (mm)
                                 1.953125
Slice thickness (mm)
                                 10
EX PROC recon voxel size
                                 0.9765625
RFOV (%) :
                                 100
Fold-over suppression
                                 NO
Matrix scan
                                 256
      reconstruction :
                                 256
Scan percentage (%) :
                                 50
SENSE :
                                 NO
k-t Acceleration :
                                 NO
Stacks:
                                 3
                                 PARALLEL STACK
    type :
                                 7 7 7
Slices :
Slice thickness (mm)
                                 10
    slice gap :
                                 USER DEF
                                 10 10 10
         gap (mm) :
Slice orientation :
                                 SAGITTAL
Fold-over direction
                                 AP
Fat shift direction
                                 F
Slice Offc. AP (P=+mm)
                                 -20 0 0
           RL (L=+mm)
                                 0 0 0
           FH (H=+mm)
                                 20 20 40
           AP (deg)
                                 0 0 0
     Ang.
           RL (deg)
                                 0 0 0
           FH (deg)
                                 0 0 0
EX_GEO_stacks_table_long_pos
                                 2100000000 2100000000 2100000000
     Free rotatable
                                 NO
Slice scan order
                                 DEFAULT
Stack scan order
                                 ASCEND
Move table per stack
                                 NO
Large table movement
                                 N<sub>0</sub>
Stack alignment
                                 NONE
EX GEO stack display order
                                 NONE
PlanAlign
                                 NO
REST slabs :
                                 0
    delay
                                 NO
EX TRACK tracking
                                 NONE
Interactive positioning
                                 N0
External control
                                 NO.
Allow table movement
                                 NO
Patient position
                                HEAD FIRST
Patient orientation
                                 SUPINE
```

```
Scan type :
                                   IMAGING
Scan mode :
                                   M2D
                                   FFE
    technique :
Contrast enhancement
                                   T1
Acquisition mode :
                                   CARTESIAN
Fast Imaging mode :
                                   TFE
    shot mode :
                                   MSH
TFE factor :
                                   64
    startup echoes :
                                   DEFAULT
                                   SHORTEST
    shot interval :
    profile order :
                                   LINEAR
Echoes:
                                   1
EX ACQ b0zshim enum
                                   DEFAULT
    partial echo :
                                   YES
    shifted echo :
                                   NO.
TE
                                   INPHASE
   .
    (ms):
                                   4.60485887527466
Flip angle (deg) :
                                   15
TR:
                                   SHORTEST
Halfscan
                                   NO
Water-fat shift :
                                   USER DEF
     (pixels) :
                                   3.5
                                   EX_ACQ_RF_shim_data :
Shim
                                   DEFAULT
     :
 Get shim and F0 from PRIDE :
                                   NO
 Calculate shim now
                                   N<sub>0</sub>
 FO Determination :
                                   AUT0
          shim value
 Χ
                                   0
 Υ
          shim value
                                   0
 Ζ
          shim value
                                   0
 Z2
          shim value
                                   0
          shim value
 ZX
                                   0
 ZY
          shim value
                                   0
          shim value
 X2-Y2
                                   0
          shim value
 2XY
                                   0
 Z3
          shim value
                                   0
 Z2X
          shim value
                                   0
          shim value
                                   0
 Z2Y
 Z(X2-Y2) shim value
                                   0
 2XYZ
          shim value
                                   0
 Х3
          shim value
                                   0
 Y3
          shim value
                                   0
 Shim offset freq :
                                   0
 Nav shim offset freq :
                                   0
 Navigator X shim value
                                   0
 Navigator Y shim value
                                   0
 Navigator Z shim value
                                   0
                                   N<sub>0</sub>
mDIXON
Fat suppression :
                                   N<sub>0</sub>
Water suppression :
                                   NO
TFE prepulse :
                                   INV
    slice selection
                                   N0
```

```
N0
   shared:
                               USER DEF
   delay
       (ms)
                               800
   PSIR :
                               N0
MTC:
                               NO
                               N0
T2prep
      :
Custom prepulse
                               N<sub>0</sub>
Diffusion mode :
                               NO
EX DIFF array x
                               EX DIFF_array_y
                               EX DIFF array z
                               EX DIFF array b
                               nr of b-factors
                               2
EX DIFF nr dti directions
                               1
EX DIFF nr dti vectors
                               1
                               0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX DIFF weighting ix array
EX DIFF direction ix array
                               User defined DTI scheme :
                               user defined
EX DIFF grad factor
                               1
MRE enable
                               NO.
Multi-transmit
                               NO
SAR mode :
                               HIGH
B1 mode
                               DEFAULT
EX MULTIX SAR mode
                               AUT0
PNS mode :
                               LOW
Gradient mode :
                               DEFAULT
SofTone mode
                               NO.
=====MOTION======
Cardiac synchronization
                               N<sub>0</sub>
                            NO
Heart rate > 250 bpm
Respiratory compensation
                               N0
                               0FF
Navigator respiratory comp
   weighted gating
                               N<sub>0</sub>
Flow compensation
                               N<sub>0</sub>
fMRI echo stabilisation :
                               N<sub>0</sub>
Motion smoothing :
                               N<sub>0</sub>
NSA:
                               1
Angio / Contrast enh.
                               NO
Quantitative flow
                               N<sub>0</sub>
Manual start
                               N<sub>0</sub>
EX abuse dyn loop
                               NO
Dynamic study :
                               NO
Arterial Spin labeling
                               N<sub>0</sub>
=====PR0C======
Preparation phases
                               AUT0
Interactive F0
                               N0
Gradient demo
                               N<sub>0</sub>
Pre scan
                               NO
SmartPlan survey
                               NONE
EX ACQ whole body fat water
                               NO.
EX ACQ B0 map
                               N<sub>0</sub>
```

```
EX ACQ B1 map
                            N0
MIP/MPR
                            NO
SWIp
                            N0
Images
                            MODULUS
Autoview image
                            MODULUS
Calculated images
                            N0
EX TS reference tissue
                            GREY MATTER
Recon compression
                            NONE
Recon compression
                            NONE
   Nr recon channels
                            8
EX PROC delrec fcc proc
                            PTIMIZED
Preset window contrast :
                            S0FT
EX PROC usdef coca
                            NO
EX_PROC_coca_acq_nrs
                            EX PROC coca rec nrs
                            0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
EX PROC usdef coil survey
                            N<sub>0</sub>
EX_PROC_coil_survey_acq_nrs
                            EX PROC coil survey rec nrs
                            Reconstruction mode
                            REAL TIME
Save raw data
                            NO
Analyse with IQT
                            N0
EX PROC to gyroview
                            NO
Hardcopy protocol
                            NO.
Image filter
                            DEFAULT
Geometry correction
                            DEFAULT
Viewable raw data
                            N0
=====PDF======
EX conflict suggestion
GEX CONV id :
                            0 31 1
GEX_CONV_ppde_update
                            0
GEX_CONV_made_by_philips
                            YES
                            0 6 2 1 0 7 0 8 11 4 8 13 -1 1 -1 -1 -
GEX CONV applied conversions
GEX CONV base release
                            18
EX GEO voxel size_conv_done
                            YES
EX_PROC_scan_pat_ref_id
                            541938977
EX_PROC_coca_patient_ref ids
                            EX PROC coca nr channels :
EX_PROC_coca_nr stacks
                            EX_PROC_coca_edge_dist_pos
                            352.5 352.5 352.5 10000 10000 10000 10
EX PROC coca edge dist neg
                            -352.5 -352.5 -352.5 -10000 -10000 -10
EX PROC senseref rfsh rx scls
                            1 1 1 1 1 1 1 1
                            0 0 0 0 0 0 0 0
EX PROC senseref rfsh rx ph
EX PROC coil surv rfsh rx scls
                          : 1 1 1 1 1 1 1 1
EX PROC coil surv rfsh rx ph
                            0 0 0 0 0 0 0 0
                            EX PROC sense ref qbc stack
                            EX PROC sense ref syn stack
EX_PROC_coil_survey_pat_ref_ids
                            :541938977 541938977 541938977 0 0 0 0
EX PROC coil survey nr channels
                            :32 32 32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coil survey nr stacks
                         :
                            2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
                            EX_PROC_coil_survey_qbc_stack
                          :
EX PROC coil survey syn stack
                            :
EX GEO auto coils selected
                            YES
```

```
EX COIL ui use_review_mode :
                                  YES
Total scan duration :
                                  01:10.8
IF_absolute_SNR :
                                  1.6161515712738
Rel. SNR :
Act. TR/TE (ms) :
                                  9.8 / 4.6
ACQ matrix M \times P :
                                  256 x 128
ACQ voxel MPS (mm) : REC voxel MPS (mm) :
                                  0.98 / 1.95 / 10.0
                                  0.98 / 0.98 / 10.0
Scan percentage (%) :
                                  50
TFE shots
                                  2
TFE dur. shot / acq (ms) :
                                  1124.0 / 629.1
TFE shot interval (ms) :
                                  1124.02209472656
                                  354.9541015625
Min. TI delay :
WFS (pix) / BW (Hz) :
                                  3.494 / 124.3
Min. WFS (pix) / Max. BW (Hz) : 0.559 / 776.8 Min. TR/TE (ms) : 9.8 / 1.37
Head SAR
                                  < 11 %
Whole body SAR / level :
                                  0.0 W/kg / normal
SED
                                    0.0 \text{ kJ/kg}
                                  0.77 uT
B1+rms
                                  0.77 uT
Max B1+rms :
                                  49 % / normal
PNS / level :
                                  45.6 T/s
dB/dt :
Sound Pressure Level (dB) :
                                  10.0645656585693
```

Protocol Name: B1_calibration

compacted conns (exclude) :

```
Methodes Description:
 methodDescription : TRA T1FFE 20
                                             2.3
                                                    60
Other Tags:
 applicationMode : AGDEF_APPL_IMAGING
 lastModifiedTimeUtc : 2\overline{0}10-0\overline{1}-11 10:44:47.172
 linkState : false
 laterality : unpaired
 =====GE0METRY================================
 Patient weight [kg] :
                                   25
 Nucleus :
                                   H1
 SmartSelect :
                                   USER DEF
                                   0 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
  compacted :
                                   BODY_QUAD
  compacted coils :
                                   /CDAS.ConnPFEI/PFEI.ConnQBC
  compacted conns :
                                   3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
  stacks channels :
  clinical modes :
                                   BODY_QUAD.Complete
  compacted (exclude) :
                                   -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
  compacted coils (exclude) :
```

```
stacks channels (exclude) :
Uniformity
                                 CLAS SYN
FOV (mm)
                                 530
FOV (mm)
                                 464
FOV (mm)
                                 24 24 24 24 24 24 24 24 24 24 24 24 24
ACQ voxel size
                                 8.27999973297119
                FH (mm)
ACQ voxel size
                FH (mm)
                                 10.0799999237061
Slice thickness (mm)
                                 8
EX PROC recon voxel size
                                 4.140625
RF0V (%)
                                 87.5471725463867
Image shutter :
                                 YES
Fold-over suppression :
                                 NO
Slice oversampling
                                 DEFAULT
RF select. FOS
                                 NO
Matrix scan
                                 64
                                 112
       reconstruction :
                                 64.5148468017578
Scan percentage (%) :
SENSE :
                                 NO.
k-t Acceleration
                                 N<sub>0</sub>
                                 N<sub>0</sub>
EX_ACQ_overcont_slices :
Stacks:
                                  1
                                 3
Slices :
Slice thickness (mm)
                                 8
Slice orientation :
                                 TRANSVERSAL
Fold-over direction :
                                 AP
Fat shift direction
                                 L
Slice Offc. AP (P=+mm)
                                  -40
           RL (L=+mm)
           FH (H=+mm) :
                                 15.4488515853882
           AP (deg)
     Ang.
                                 0
           RL (deg)
                                 0
           FH (deg) :
                                 0
EX_GEO_stacks_table_long_pos :
                                 2100000000
     Free rotatable :
                                 NO.
Multi-chunk
                                 N<sub>0</sub>
Large table movement
                                 N<sub>0</sub>
PlanAlign :
                                 N<sub>0</sub>
REST slabs :
                                 0
   delay :
                                 NO
EX_TRACK_tracking :
                                 NONE
Interactive positioning :
                                 NO
External control :
                                 NO
Allow table movement
                                 NO
Patient position :
                                 HEAD FIRST
Patient orientation
                                 SUPINE
Scan type
                                 IMAGING
Scan mode
                                 3D
    technique :
                                 FFE
    loop order :
                                 ZY
Contrast enhancement :
                                 T1
                                 CARTESIAN
Acquisition mode
```

```
Fast Imaging mode :
                                NO
   3D non-selective
                                NO
Echoes
                                1
EX ACQ b0zshim enum
                                DEFAULT
   partial echo
                                N<sub>0</sub>
   shifted echo
                                NO
TE
                                SHORTEST
Flip angle (deg)
                                60
TR:
                                USER DEF
    (ms)
                                20
Halfscan
                                NO
Water-fat shift :
                                USER DEF
     (pixels) :
                                1
EX_ACQ_RF_shim :
                                NO
EX ACQ RF shim data
                                Shim
                                DEFAULT
 Get shim and F0 from PRIDE
                                NO.
 Calculate shim now
                                N<sub>0</sub>
 FO Determination
                                AUT0
         shim value
 Χ
                                0
 Υ
         shim value
                                0
 Ζ
         shim value
                                0
 Z2
         shim value
                                0
 ZX
         shim value
                                0
 ZY
         shim value
                                0
 X2-Y2
         shim value
                                0
         shim value
 2XY
                                0
         shim value
 Z3
                                0
         shim value
 Z2X
                                0
 Z2Y
         shim value
                                0
 Z(X2-Y2) shim value
                                0
 2XYZ
         shim value
                                0
 Х3
         shim value
                                0
 Y3
         shim value
                                0
 Shim offset freq :
                                0
 Nav shim offset freq :
                                0
Navigator X shim value
                                0
 Navigator Y shim value
                                0
 Navigator Z shim value
                                0
mDIXON
                                N<sub>0</sub>
Fat suppression :
                                N<sub>0</sub>
Water suppression
                                NO
   shared :
                                NO
MTC
                                N<sub>0</sub>
Custom prepulse
                                N<sub>0</sub>
Diffusion mode :
                                N<sub>0</sub>
EX_DIFF_array_x
                                EX DIFF_array_y
EX DIFF array z
                                EX DIFF array b
   nr of b-factors
                                2
EX DIFF nr dti directions :
                                1
```

```
EX DIFF nr dti vectors
EX_DIFF_weighting_ix_array
                                   EX DIFF direction ix array
                                   User defined DTI scheme :
                                   user defined
EX DIFF grad factor
                                   1
MRE enable
                                   NO
Multi-transmit
                                   YES
Transmit channels :
                                   BOTH
SAR mode :
                                   HIGH
B1 mode
                                   DEFAULT
EX MULTIX SAR mode
                                   AUTO
PNS mode :
                                   LOW
Gradient mode :
                                   DEFAULT
SofTone mode
                                   NO.
======MOTION======
Cardiac synchronization :
                                   NO
Heart rate > 250 bpm
                                N0
Respiratory compensation
                                   NO
Navigator respiratory comp
                                   0FF
    weighted gating :
                                   NO.
Flow compensation
                                   N0
fMRI echo stabilisation
                                   N<sub>0</sub>
NSA
                                   1
=====DYNANG========
Angio / Contrast enh.
                                   NO
Quantitative flow
                                   NO.
Manual start
                                   NO.
EX_abuse_dyn_loop
                                   NO
Dynamic study :
                                   INDIVIDUAL
    dyn scans
                                   2
    recon multiplier :
                                   1
                                   SHORTEST
    dyn scan times :
    fov time mode :
                                   VOXEL
    dummy scans :
                                   0
    immediate subtraction
                                   N<sub>0</sub>
    fast next scan :
                                   NO
    synch. ext. device
                                   N<sub>0</sub>
    dyn stabilization
                                   N<sub>0</sub>
    prospect. motion corr.
                                   NO
Keyhole
                                   N<sub>0</sub>
Arterial Spin labeling
                                   N<sub>0</sub>
=====PR0C=======
Preparation phases
                                   AUT0
Interactive F0
                                   NO
Gradient demo :
                                   N<sub>0</sub>
                                   N<sub>0</sub>
Pre scan
SmartPlan survey
                                   NONE
EX ACQ whole body fat water
                                   N<sub>0</sub>
EX ACQ B0 map
                                   NO
EX ACQ B1 map
                                   CAL
EX ACQ B1 map type
                                   TR
EX ACQ B1 TR extension
                                   80
```

```
EX ACQ B1 selective
                         YES
EX ACQ B1_spoil
                         10
MIP/MPR
                         N0
SWIp :
                         NO
Images
                         MODULUS
Autoview image
                         NO
Calculated images
                         В1
EX TS reference tissue
                         BREAST
Preset window contrast
                         S0FT
EX PROC usdef coca
                         NO.
EX PROC coca acq_nrs
                         EX PROC coca rec nrs
                         EX PROC usdef coil survey
                         NO.
EX_PROC_coil_survey_acq_nrs
                         EX PROC coil survey rec nrs
                         Reconstruction mode
                         PARALLEL
Save raw data
                         NO
Analyse with IQT
                         NO
EX PROC to gyroview
                         NO.
Hardcopy protocol
                         NO
Image filter
                         DEFAULT
Geometry correction
                         DEFAULT
Viewable raw data
                         NO.
Elliptical k-space shutter
                         DEFAULT
=====PDF=====
EX conflict suggestion
                         0
GEX CONV id
                         0 31 1
GEX_CONV_ppde_update
                         0
GEX_CONV_made_by_philips
                         YES
                         0 6 2 1 0 7 0 8 11 4 8 13 -1 1 -1 -1 -
GEX CONV applied conversions
GEX CONV base release
                         18
EX GEO voxel size conv done
                         YES
EX PROC scan pat ref id :
                         541938977
EX PROC coca patient ref ids
                         EX_PROC_coca_nr_channels :
EX PROC coca nr stacks
                         EX PROC coca edge dist pos
                         10000 10000 10000 10000 10000 10000 10
                         -10000 -10000 -10000 -10000 -10000 -10
EX PROC coca edge dist neg
EX_PROC_senseref_rfsh_rx_scls
                         1 1 1 1 1 1 1 1
EX PROC senseref rfsh rx ph
                         0 0 0 0 0 0 0 0
EX PROC coil surv rfsh rx scls
                       : 1 1 1 1 1 1 1 1
EX PROC coil surv rfsh_rx_ph
                         0 0 0 0 0 0 0 0
                         EX PROC sense ref qbc stack
                         EX PROC sense ref syn stack
                        EX PROC coil survey pat ref ids
EX PROC coil survey nr channels
                        EX PROC coil survey nr stacks
                         :
                         EX PROC coil survey qbc stack
                         EX PROC coil survey syn stack
EX GEO auto coils selected
                         N0
EX COIL ui use review mode
                         YES
```

```
Total scan duration :
                                    00:31.4
IF absolute SNR :
                                    191.079650878906
Rel. SNR
                                    1
Act. TR/TE (ms) :
                                    20 / 2.3
Dyn. scan time :
                                    00:15.6
Time to k0 :
                                    00:08.0
ACQ matrix M x P :
                                    64 x 46
                                    8.28 / 10.08 / 8.00
ACQ voxel MPS (mm) :
REC voxel MPS (mm)
                                   4.73 / 4.64 / 8.00
Scan percentage (%) :
WFS (pix) / BW (Hz) :
                                   82.1428604125977
                                    0.870 / 499.4
Min. WFS (pix) / Max. BW (Hz) : 0.140 / 3106.6 Min. TR/TE (ms) : 6.4 / 2.3
Head SAR
                                    < 15 %
Whole body SAR / level :
                                    0.0 W/kg / normal
SED
                                      0.0 \text{ kJ/kg}
Coil Power :
                                    0.90 uT / 15 %
Max B1+rms :
                                    0.90 uT
                                    21 % / normal
PNS / level :
                                    41.9 T/s
dB/dt :
Sound Pressure Level (dB) : 7.45694828033447
```

Protocol Name: SenseRefScan

Methodes Description:

```
Other Tags:
applicationMode : AGDEF APPL IMAGING
lastModifiedTimeUtc : 6/1/2013 7:58:46 AM
linkState : false
 =====GE0METRY================================
 Patient weight [kg] :
                                 25
 Nucleus :
                                 H1
 Multi coil :
                                 N0
                                 0 1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
 compacted :
                                 SENSE HEAD 32AH , SENSE HEAD 32P
 compacted coils :
 compacted conns :
                                 /CDAS.ConnPFEI/PFEI.ConnB , /CDAS.Conn
 stacks channels :
                                 65535 0 0 0 65535 0 0 0 0 0 0 0 0 0 0
                                 SENSE_HEAD_32P_SENSE_HEAD_32AH , SENSE
 clinical modes :
                                 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
 compacted (exclude) :
 compacted coils (exclude) :
 compacted conns (exclude) :
 stacks channels (exclude) :
                                 Uniformity :
                                 CLEAR
                                 450
 FOV (mm) :
 FOV (mm) :
                                 356
                                 351 351 404 404 404 404 404 404 404 404 40
 FOV (mm)
 ACQ voxel size FH (mm) :
                              4.68800020217896
```

```
ACQ voxel size
                FH (mm)
                                    6
                                     3
Slice thickness (mm)
EX PROC recon voxel size
                                    4.68800020217896
RF0V (%)
                                    79.1111145019531
Image shutter :
                                    YES
Fold-over suppression
                                    NO
Slice oversampling
                                    DEFAULT
RF select. FOS
                                    NO.
                                    96
Matrix scan
                                    96
       reconstruction :
Scan percentage (%)
                                    60.9720001220703
SENSE :
                                    NO.
k-t Acceleration
                                    NO
EX_ACQ_overcont_slices
                                    YES
Stacks:
                                    2
Slices
                                    117 117
Slice thickness (mm)
Slice orientation
                                    CORONAL
Fold-over direction
                                    LR
Fat shift direction
                                    F
Slice Offc. AP (P=+mm)
                                    -14.3667097091675 -14.3667097091675
                                    2.00401258468628 2.00401258468628
            RL (L=+mm)
                                    16.0085697174072 16.0085697174072
             FH (H=+mm)
                                    0 0
      Ang.
            AP (deg)
            RL (deg)
                                    0 0
            FH (deg)
                                    0 0
EX GEO stacks table long pos
                                    2100000000 2100000000
      Free rotatable
                                    N0
Multi-chunk
                                    NO
Stacks as packages :
                                    YES
Stack scan order
                                    ASCEND
Move table per stack
                                    NO
Large table movement
                                    NO.
Stack alignment
                                    NONE
EX_GEO_stack_display_order
                                    NONE
PlanAlign
                                    NO
REST slabs :
                                    0
    delay
                                    NO.
EX_TRACK_tracking
                                    NONE
\overline{\text{Interactive positioning}}
                                    N<sub>0</sub>
External control
                                    N<sub>0</sub>
Allow table movement
                                    NO
Patient position
                                    HEAD FIRST
Patient orientation
                                    SUPINE
=====CONTRAST======
                                    IMAGING
Scan type
Scan mode
                                    3D
    technique
                                    FFE
    loop order :
                                    ΖY
Contrast enhancement
                                    T1
Acquisition mode :
                                    CARTESIAN
Fast Imaging mode :
                                    NO
```

```
3D non-selective
                              NO
Echoes
                              1
                              DEFAULT
EX ACQ b0zshim enum
   partial echo
                              NO.
   shifted echo
                              NO.
                              SHORTEST
TE
Flip angle (deg)
                              1
TR:
                              SHORTEST
Halfscan
                              NO.
Water-fat shift
                              MINIMUM
EX_ACQ_RF_shim_data
                              Get shim and F0 from PRIDE
                              NO.
 Calculate shim now
                              N<sub>0</sub>
 FO Determination :
                              AUT0
 Χ
         shim value
                              0
 Υ
         shim value
                              0
 Ζ
         shim value
                              0
 Z2
         shim value
                              0
 ZX
         shim value
                              0
 ZY
         shim value
                              0
 X2-Y2
         shim value
                              0
 2XY
         shim value
                              0
 Z3
         shim value
                              0
 Z2X
         shim value
                              0
         shim value
 Z2Y
                              0
 Z(X2-Y2) shim value
                              0
 2XYZ
         shim value
                              0
 X3
         shim value
                              0
 Y3
         shim value
                              0
 Shim offset freq :
                              0
 Nav shim offset freq :
                              0
 Navigator X shim value
                              0
Navigator Y shim value
                              0
 Navigator Z shim value
                              0
mDIXON
                              N<sub>0</sub>
Fat suppression :
                              N<sub>0</sub>
Water suppression :
                              N<sub>0</sub>
   shared
                              N<sub>0</sub>
MTC
                              NO
Custom prepulse
                              N<sub>0</sub>
Diffusion mode :
                              N<sub>0</sub>
                              EX DIFF array x
EX_DIFF_array_y
                              EX DIFF array z
                              EX DIFF array b
   nr of b-factors
                              2
EX DIFF nr dti directions
                              1
EX DIFF nr dti vectors
                              1
EX DIFF weighting ix array
                              EX DIFF direction ix array
                              User defined DTI scheme :
                              user defined
EX DIFF grad factor
```

```
MRE enable
                                 N0
Multi-transmit :
                                 NO.
SAR mode
                                 HIGH
B1 mode
                                 DEFAULT
EX MULTIX SAR mode
                                 AUT0
PNS mode :
                                 LOW
Gradient mode
                                 DEFAULT
SofTone mode
                                 NO.
=====MOTION==========
                               ------
Cardiac synchronization
                                 NO
Heart rate > 250 bpm
                              N0
Respiratory compensation
                                 N<sub>0</sub>
Navigator respiratory comp
                                 0FF
   weighted gating :
                                 NO
Flow compensation
                                 N<sub>0</sub>
fMRI echo stabilisation :
                                 N<sub>0</sub>
Angio / Contrast enh. :
                                 NO
Quantitative flow :
                                 NO.
Manual start
                                 N0
EX abuse dyn loop
                                 NO
                                 N<sub>0</sub>
Dynamic study
Arterial Spin labeling
=====PR0C======
Preparation phases
                                 AUTO
Interactive F0 :
                                 NO.
Gradient demo :
                                 NO
Pre scan
                                 SENSE REF FAST
SmartPlan survey
                                 NONE
EX ACQ whole body fat water
                                 NO
EX_ACQ B0 map
                                 N0
EX ACQ B1 map
                                 N<sub>0</sub>
MIP/MPR
                                 N<sub>0</sub>
SWIp
                                 N<sub>0</sub>
                                 N<sub>0</sub>
Images :
Autoview image
                                 N<sub>0</sub>
Calculated images
                                 NO
EX_TS_reference_tissue
                                 WHITE MATTER
Recon compression
                                 NONE
Recon compression
                                 NONE
    Nr recon channels
                                 8
EX PROC delrec fcc proc
                                 PTIMIZED
Preset window contrast
                                 S0FT
EX PROC usdef coca :
                                 NO
EX PROC coca acq nrs
                                 EX PROC coca rec nrs
                                 EX PROC usdef coil survey
                                 N<sub>0</sub>
EX PROC coil survey acq nrs
                                 1000 1000 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
                                 EX_PROC_coil_survey_rec_nrs
Reconstruction mode
                                 PARALLEL
                                 N<sub>0</sub>
Save raw data
```

```
Analyse with IQT :
                             N0
EX_PROC_to_gyroview
                             NO
Hardcopy protocol
                             N0
Image filter :
                             DEFAULT
Viewable raw data
                             NO
Elliptical k-space shutter
                             DEFAULT
EX conflict suggestion :
GEX CONV id :
                             0 31 1
GEX_CONV_ppde_update :
GEX_CONV_made_by_philips
                             0
                             YES
GEX_CONV_applied_conversions
                             0 6 2 1 0 7 0 8 11 4 8 13 -1 1 -1 -1 -
GEX CONV base release :
                             18
EX_GEO_voxel_size_conv_done
                             YES
EX PROC scan pat ref id
                             541938977
                             EX PROC coca patient ref ids
EX PROC_coca_nr_channels :
                             EX PROC coca nr stacks
                             EX PROC coca edge dist pos
                             352.5 352.5 10000 10000 10000 10000 10
                             -352.5 -352.5 -10000 -10000 -10000 -10
EX_PROC_coca_edge_dist_neg
EX PROC senseref rfsh rx scls
                             1 1 1 1 1 1 1 1
                           :
EX_PROC_senseref_rfsh_rx_ph
                             0 0 0 0 0 0 0 0
EX_PROC_coil_surv_rfsh rx scls : 1 1 1 1 1 1 1 1
                             0 0 0 0 0 0 0 0
EX PROC coil surv rfsh rx ph
                             EX PROC sense ref qbc stack
EX PROC sense ref syn stack
                             EX_PROC_coil_survey_pat_ref_ids
                             :541938977 541938977 0 0 0 0 0 0 0 0 0
                             :32 32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX_PROC_coil_survey_nr_channels
EX PROC coil survey nr stacks : 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
                             EX_PROC_coil_survey_qbc_stack
                          : 1111111111111111111111
EX_PROC_coil_survey_syn_stack
EX GEO auto coils selected
                             NO
EX_COIL_ui_use_review_mode
                             YES
=====INF0=========
Total scan duration
                             00:06.4
IF absolute SNR
                             10.3058767318726
Rel. SNR
                             9.12797546386719
Act. TR/TE (ms)
                             1.90 / 0.78
ACQ matrix M x P
                             96 x 59
ACQ voxel MPS (mm)
                             4.69 / 6.04 / 6.00
                             4.69 / 4.69 / 3.00
REC voxel MPS (mm)
                             77.6315765380859
Scan percentage (%)
Packages
                             1
WFS (pix) / BW (Hz)
                             0.210 / 2071.3
Min. WFS (pix) / Max. BW (Hz)
                             0.210 / 2071.3
                             < 1 %
Head SAR
Whole body SAR / level
                             0.0 W/kg / normal
SED
                               0.0 \text{ kJ/kg}
                             0.28 uT
B1+rms
Max B1+rms
                             0.28 uT
PNS / level :
                             31 % / normal
```

dB/dt : 44.3 T/s

Sound Pressure Level (dB) : 16.8499011993408

Protocol Name: T1W/3D/TFE

```
Methodes Description:
methodDescription :
                      SAG
                            T1TFE 8.9
                                            4.6
                                                   8
Other Tags:
 applicationMode : AGDEF APPL IMAGING
 linkState : false
 laterality : unpaired
 =====GE0METRY================================
 Patient weight [kg] :
                                  25
                                  H1
 Nucleus :
 SmartSelect :
                                  AUT0
                                  0 1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
  compacted :
                                  SENSE_HEAD_32AH , SENSE_HEAD_32P
  compacted coils :
                                  /CDAS.ConnPFEI/PFEI.ConnB , /CDAS.Conn
  compacted conns :
                                  65535 0 0 0 65535 0 0 0 0 0 0 0 0 0 0
 stacks channels :
  clinical modes :
                                  SENSE HEAD 32P SENSE HEAD 32AH
  compacted (exclude)
                                  -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
  compacted coils (exclude) :
  compacted conns (exclude)
  stacks channels (exclude) :
                                  Uniformity :
                                  CLEAR
  FOV (mm)
                                  256
 FOV (mm)
                                  256
                                  170 250 250 250 250 250 250 250 250 25
 FOV (mm) :
 ACQ voxel size
                  FH (mm)
                                  1
 ACQ voxel size
                  FH (mm)
                                  1
 Slice thickness (mm)
                                  1
 EX PROC recon voxel size :
                                   1
 RFOV (%) :
                                  100
  Fold-over suppression :
                                  NO
 Slice oversampling :
                                  DEFAULT
 RF select. FOS
                                  NO
                                  256
 Matrix scan
                                  256
        reconstruction :
  Scan percentage (%) :
                                  100
  SENSE :
                                  YES
     P reduction (AP) :
                                  2
     S reduction (AP)
                                  1
  k-t Acceleration :
                                  NO.
                                  N0
  EX_ACQ_overcont_slices :
  Stacks :
                                  1
                                  170
 Slices
 Slice thickness (mm) :
                                  1
```

```
Slice orientation :
                                  SAGITTAL
Fold-over direction
                                  AP
Fat shift direction
                                  F
Slice Offc. AP (P=+mm)
                                   -14.3667097091675
            RL (L=+mm):
                                  2.00401258468628
            FH (H=+mm)
                                  16.0085697174072
            AP (deg)
                                  0
      Ang.
            RL (deg)
                                  0
            FH (deg)
                                  4.91461277008057
EX GEO stacks table long pos
                                  2100000000
                             :
      Free rotatable
                                  N<sub>0</sub>
Multi-chunk :
                                  N<sub>0</sub>
Large table movement
                                  N<sub>0</sub>
PlanAlign :
                                  NO
REST slabs :
                                  1
    shared:
                                  NO.
                                  FREE
    type :
    circular slabs :
                                  10 10 10 10 10 10 10 10 10 10 10 10
    orientation
                                  TRANSVERSAL
                                  27.1649112701416 60 60 60 60 60 60 60
    thickness (mm)
                                  LEFT
    position :
                                  DEFAULT
    gap
        :
                                  15 20 20 20 20 20 20 20 20 20 20 20
        ( mm )
                                  50 50 50 50 50 50 50 50 50 50 50 50
    distance (mm)
                                  -28.8515567779541 0 0 0 0 0 0 0 0 0 0
     Offc. AP (P=+mm) :
                                  -0.336553871631622 0 0 0 0 0 0 0 0 0
            RL (L=+mm) :
                                  -192.214431762695 0 0 0 0 0 0 0 0 0 0
            FH (H=+mm)
                                  -1.57794213294983 0 0 0 0 0 0 0 0 0 0
            AP (deg)
      Ang.
            RL (deg)
                                  0.0090950159355998 0 0 0 0 0 0 0 0 0
                                  -0.274766117334366 0 0 0 0 0 0 0 0 0 0
            FH (deg)
                                  0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0
    angulation (deg)
    FM shape :
                                  NO
    composite elements
                                  1 1 1 1 1 1 1 1 1 1 1 1
    correction factor
                                  1 1 1 1 1 1 1 1 1 1 1 1
    power :
                                  1
                                  FAT
    target :
                                  NO
    timed :
      start (phase) :
                                  1
      stop (phase) :
                                   2
    delay
                                  N<sub>0</sub>
                                  50
      (ms)
EX TRACK tracking
                                  NONE
Interactive positioning
                                  NO
External control
                                  N0
Allow table movement
                                  NO
Patient position
                                  HEAD FIRST
Patient orientation
                                  SUPINE
Scan type
                                  IMAGING
Scan mode
                                  3D
    technique
                                  FFE
                                  T1
Contrast enhancement :
```

```
Acquisition mode :
                                   CARTESIAN
Fast Imaging mode :
                                   TFE
    3D non-selective :
                                   NO
    shot mode :
                                   MSH
TFE factor :
                                   128
EX_TFE_3d_free_factor
                                   NO
    startup echoes
                                   DEFAULT
    shot interval
                                   SHORTEST
    profile order
                                   LINEAR
    turbo direction :
                                   YΖ
Echoes
                                   1
EX ACQ b0zshim enum
                                   DEFAULT
    partial echo :
                                   NO.
    shifted echo :
                                   NO.
TE
                                   INPHASE
    (ms):
                                   4.60485887527466
Flip angle (deg) :
                                   SHORTEST
Halfscan :
                                   NO.
Water-fat shift :
                                   USER DEF
     (pixels)
                                   2
                                   EX ACQ RF shim data :
Shim :
                                   AUT0
 Get shim and F0 from PRIDE :
                                   NO.
 Calculate shim now :
                                   NO
 FO Determination :
                                   AUT0
          shim value
 Χ
                                   0
 Υ
          shim value
                                   0
 Ζ
          shim value
                                   0
 72
          shim value
                                   0
 ZX
          shim value
                                   0
          shim value
 ΖY
                                   0
 X2-Y2
          shim value
                                   0
 2XY
          shim value
                                   0
 Z3
          shim value
                                   0
 Z2X
          shim value
                                   0
 Z2Y
          shim value
                                   0
 Z(X2-Y2) shim value
                                   0
          shim value
 2XYZ
                                   0
 Х3
          shim value
                                   0
          shim value
 Y3
                                   0
 Shim offset freq :
                                   0
 Nav shim offset freq :
                                   0
 Navigator X shim value
                                   0
 Navigator Y shim value
                                   0
 Navigator Z shim value
                                   0
mDIXON
                                   N<sub>0</sub>
Fat suppression :
                                   N<sub>0</sub>
Water suppression :
                                   NO
TFE prepulse :
                                   INV
    slice selection :
                                   NO
    shared:
                                   N<sub>0</sub>
```

```
SHORTEST
    delay :
    PSIR :
                                 NO.
MTC
                                 N0
T2prep
                                 N<sub>0</sub>
Custom prepulse
                                 NO.
Diffusion mode
                                 NO.
EX DIFF array x
                                 EX DIFF array y
                                 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX DIFF array z
                                 EX DIFF array b
                                 nr of b-factors
                                 2
EX DIFF nr dti directions
                                 1
EX DIFF nr dti vectors
                                 1
                                 EX DIFF weighting ix array
                                 EX DIFF direction ix array
User defined DTI scheme
                                 user defined
EX DIFF grad factor
                                 1
MRE enable
                                 N<sub>0</sub>
Multi-transmit
                                 NO
SAR mode
                                 HIGH
B1 mode
                                 DEFAULT
EX MULTIX SAR mode
                                 AUT0
PNS mode :
                                 LOW
Gradient mode :
                                 DEFAULT
SofTone mode :
                                 YES
=====MOTION======
Cardiac synchronization
                                 N0
                              N0
Heart rate > 250 bpm
Respiratory compensation
                                 N<sub>0</sub>
                                 0FF
Navigator respiratory comp
   weighted gating
                                 NO
Flow compensation
                                 N0
fMRI echo stabilisation
                                 N<sub>0</sub>
Motion smoothing
                                 N<sub>0</sub>
NSA
                                 1
=====DYNANG=============
Angio / Contrast enh.
                                 N<sub>0</sub>
Quantitative flow
                                 NO.
CENTRA
                                 N<sub>0</sub>
Manual start
                                 N<sub>0</sub>
EX abuse dyn loop
                                 N<sub>0</sub>
Dynamic study :
                                 NO
Arterial Spin labeling
                                 N<sub>0</sub>
=====PR0C======
Preparation phases
                                 AUT0
Interactive F0 :
                                 NO
Gradient demo
                                 N0
Pre scan
                                 N<sub>0</sub>
SmartPlan survey
                                 NONE
EX_ACQ_whole_body_fat_water
                                 NO
EX ACQ B0 map
                                 NO.
EX ACQ B1 map
                                 N<sub>0</sub>
```

```
MIP/MPR
                           N0
SWIp
                           NO
                           MODULUS
Images
Autoview image
                           MODULUS
Calculated images
                           NO
EX TS reference tissue
                           GREY MATTER
Recon compression
                           NONE
Recon compression
                           NONE
   Nr recon channels
                           8
EX_PROC_delrec_fcc_proc
                           PTIMIZED
Preset window contrast
                           S0FT
EX PROC usdef coca :
                           NO
EX PROC coca acq nrs
                           EX_PROC_coca_rec_nrs
                           EX PROC usdef coil survey
                           NO.
                           EX PROC coil survey acq nrs
EX PROC coil_survey_rec_nrs
                           Reconstruction mode
                           REAL TIME
Save raw data
                           NO.
Analyse with IQT
                           NO
EX_PROC_to_gyroview
                           N0
Hardcopy protocol
                           NO
Image filter
                           DEFAULT
Geometry correction
                           DEFAULT
Viewable raw data
                           NO
Elliptical k-space shutter
                           DEFAULT
=====PDF=======
EX conflict suggestion
GEX CONV id :
                           0 31 1
GEX_CONV_ppde_update
                           0
GEX_CONV_made_by_philips
                           YES
                           0 6 2 1 0 7 0 8 11 4 8 13 -1 1 -1 -1 -
GEX CONV applied conversions
GEX CONV base release
                           18
EX GEO voxel size conv done
                           YES
EX_PROC_scan_pat_ref_id
                           541938977
EX_PROC_coca_patient_ref ids
                           541938977 0 0 0 0 0 0 0 0 0 0 0 0 0 0
                           32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coca nr channels :
                           EX PROC coca nr stacks
EX_PROC_coca_edge_dist_pos
                           176.147598266602 10000 10000 10000 100
EX PROC coca edge dist neg
                            -176.147613525391 -10000 -10000 -10000
EX PROC senseref rfsh rx scls
                           1 1 1 1 1 1 1 1
                           0 0 0 0 0 0 0 0
EX PROC senseref rfsh rx ph
EX PROC coil surv rfsh rx scls
                         : 1 1 1 1 1 1 1 1
EX PROC coil surv rfsh rx ph
                           0 0 0 0 0 0 0 0
                           EX PROC sense ref qbc stack
                           EX PROC sense ref syn stack
EX_PROC_coil_survey_pat_ref_ids
                           :0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coil survey nr channels
                           EX PROC coil survey nr stacks
                        :
                           EX_PROC_coil_survey_qbc_stack
                         :
EX PROC coil survey syn stack
                         :
                           EX GEO auto coils selected
                           YES
```

```
EX COIL_ui_use_review_mode :
                               YES
Total scan duration :
                                04:25.3
IF absolute SNR :
                               1.50540721416473
Rel. SNR :
                               1.33334803581238
Act. TR/TE (ms)
                               8.9 / 4.6
ACQ matrix M \times P :
                               256 x 256
                               1.00 / 1.00 / 1.00
ACQ voxel MPS (mm) :
REC voxel MPS (mm)
                               1.00 / 1.00 / 1.00
                               100
Scan percentage (%) :
TFE shots
                               218
TFE dur. shot / acq (ms) :
                               1211.2 / 1145.6
TFE shot interval (ms) :
                               1211.20568847656
Min. TI delay :
                               629.012084960938
WFS (pix) / BW (Hz) :
                               2.001 / 217.0
Min. WFS (pix) / Max. BW (Hz) : 0.559 / 776.8
Min. TR/TE (ms) :
                               8.9 / 3.7
Head SAR
                               < 15 %
Whole body SAR / level :
                                0.0 W/kg / normal
SED
                                 0.0 \text{ kJ/kg}
B1+rms
                                0.91 uT
Max B1+rms :
                                0.91 uT
                               37 % / normal
PNS / level :
                               26.9 T/s
dB/dt :
Sound Pressure Level (dB) :
                               3.37745690345764
```

Protocol Name: Original PGPP_1mm

```
Methodes Description:
methodDescription : SAG T1TFE 8.9
                                    4.6
                                         8
Other Tags:
applicationMode : AGDEF APPL IMAGING
linkState : false
laterality : unpaired
 25
 Patient weight [kg] :
 Nucleus :
                            H1
 SmartSelect :
                            AUT0
 compacted :
                            0 1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
 compacted coils :
                            SENSE HEAD 32AH , SENSE HEAD 32P
 compacted conns :
                            /CDAS.ConnPFEI/PFEI.ConnB , /CDAS.Conn
                            65535 0 0 0 65535 0 0 0 0 0 0 0 0 0 0
 stacks channels :
 clinical modes :
                            SENSE HEAD 32P SENSE HEAD 32AH
 compacted (exclude) :
                            compacted coils (exclude) :
 compacted conns (exclude) :
                          stacks channels (exclude) :
```

```
Uniformity :
                                   BT CLEAR
                                   256
FOV (mm)
FOV (mm)
                                   256
FOV (mm)
                                   170 250 250 250 250 250 250 250 250 25
ACQ voxel size
                 FH (mm)
                                   1
ACQ voxel size
                 FH (mm)
                                   1
Slice thickness (mm)
                                   1
EX_PROC_recon_voxel_size
                                   1
RFOV (%) :
                                   100
Fold-over suppression
                                   NO.
Slice oversampling
                                   DEFAULT
RF select. FOS
                                   NO
Matrix scan
                                   256
       reconstruction :
                                   256
Scan percentage (%) :
                                   100
SENSE :
                                   YES
    P reduction (AP)
                                   2
    S reduction (AP)
                                   1
                                   NO
k-t Acceleration
EX_ACQ_overcont_slices
                                   NO.
Stacks:
                                   1
Slices :
                                   170
Slice thickness (mm)
                                   1
Slice orientation :
                                   SAGITTAL
Fold-over direction :
                                   AP
Fat shift direction
                                   F
Slice Offc. AP (P=+mm)
                                   -14.3667097091675
                                   2.00401258468628
            RL (L=+mm)
            FH (H=+mm) :
                                   16.0085697174072
            AP (deg)
      Ang.
                                   0
            RL (deg)
                                   0
                                   4.91461277008057
            FH (deg) :
EX_GEO_stacks_table_long_pos
                                   2100000000
      Free rotatable :
                                   NO
Multi-chunk :
                                   NO
Large table movement
                                   NO
PlanAlign :
                                   N<sub>0</sub>
REST slabs :
                                   1
    shared :
                                   N0
                                   FREE
    type :
    circular slabs
                                   10 10 10 10 10 10 10 10 10 10 10 10
                                   TRANSVERSAL
    orientation
    thickness (mm)
                                   27.1649112701416 60 60 60 60 60 60 60
    position
                                   LEFT
                                   DEFAULT
    gap
                                   15 20 20 20 20 20 20 20 20 20 20 20
        (mm)
    distance (mm)
                                   50 50 50 50 50 50 50 50 50 50 50 50
Rest Offc. AP (P=+mm) :
                                  -28.8515567779541 0 0 0 0 0 0 0 0 0 0
                                  -0.336553871631622 0 0 0 0 0 0 0 0 0
            RL (L=+mm) :
                                  -192.214431762695 0 0 0 0 0 0 0 0 0 0
            FH (H=+mm) :
      Ang.
            AP (deg) :
                                  -1.57794213294983 0 0 0 0 0 0 0 0 0 0
            RL (deg)
                                   0.0090950159355998 0 0 0 0 0 0 0 0 0
```

```
-0.274766117334366 0 0 0 0 0 0 0 0 0 0
           FH (deg) :
                                 angulation (deg)
    FM shape
                                 NO
    composite elements
                                 1 1 1 1 1 1 1 1 1 1 1 1
                                 1 1 1 1 1 1 1 1 1 1 1 1
    correction factor :
                                 1
    power
    target :
                                 FAT
                                 NO
    timed :
      start (phase) :
                                 1
     stop (phase) :
                                 2
    delay :
                                 N<sub>0</sub>
                                 50
      (ms)
EX_TRACK_tracking
                                 NONE
Interactive positioning
                                 NO
External control
                                 N0
Allow table movement
                                 NO.
Patient position
                                 HEAD FIRST
Patient orientation
                                 SUPINE
Scan type
                                 IMAGING
Scan mode
                                 3D
                                 FFE
   technique :
Contrast enhancement
                                 T1
Acquisition mode :
                                 CARTESIAN
Fast Imaging mode :
                                 TFE
    3D non-selective
                                 NO.
                                 SSH
    shot mode :
    startup echoes :
                                 DEFAULT
    shot interval :
                                 USER DEF
                                 3000
        (ms):
    profile order :
                                 LINEAR
    turbo direction :
                                 ΖY
Echoes
                                 1
                                 DEFAULT
EX_ACQ_b0zshim_enum
    partial echo :
                                 N<sub>0</sub>
    shifted echo
                                 N0
TE :
                                 SHORTEST
Flip angle (deg)
                                 5
TR:
                                 SHORTEST
Halfscan
                                 NO
Water-fat shift :
                                 USER DEF
     (pixels) :
                                 EX ACQ RF shim data
Shim
                                 AUT0
 Get shim and F0 from PRIDE
                                 N<sub>0</sub>
 Calculate shim now
                                 N<sub>0</sub>
 FO Determination :
                                 AUT0
 Χ
         shim value
                                 0
 Υ
         shim value
                                 0
 Ζ
         shim value
                                 0
 Z2
         shim value
                                 0
 ZX
         shim value
                                 0
```

```
ZY
        shim value
                              0
 X2-Y2
        shim value
                              0
 2XY
        shim value
                              0
 Z3
        shim value
                              0
 Z2X
        shim value
                              0
 Z2Y
        shim value
                              0
 Z(X2-Y2) shim value
                              0
 2XYZ
        shim value
                              0
 X3
        shim value
                              0
 Y3
        shim value
                              0
 Shim offset freq
                              0
 Nav shim offset freq
                              0
 Navigator X shim value
                              0
 Navigator Y shim value
                              0
 Navigator Z shim value
                              0
mDIXON
                              N<sub>0</sub>
Fat suppression
                              NO.
Water suppression
                              NO.
TFE prepulse
                              INV
   slice selection
                              NO.
   shared :
                              N0
   delay :
                              SHORTEST
   PSIR :
                              NO.
MTC
                              N0
    :
T2prep
                              NO
Custom prepulse
                              NO.
Diffusion mode
                              N<sub>0</sub>
EX DIFF array x
                              EX DIFF array y
                              EX_DIFF_array_z
                              EX_DIFF_array_b
                              2
   nr of b-factors
EX_DIFF_nr_dti_directions
                              1
EX_DIFF_nr_dti_vectors
                              1
EX_DIFF_weighting_ix_array
                              EX DIFF direction ix array
                              User defined DTI scheme
                              user defined
EX DIFF_grad_factor :
                              1
MRE enable
                              NO
Multi-transmit
                              N<sub>0</sub>
SAR mode
                              HIGH
B1 mode :
                              DEFAULT
EX MULTIX SAR mode
                              AUT0
PNS mode
                              LOW
Gradient mode :
                              DEFAULT
SofTone mode
                              YES
=====MOTION=======
Cardiac synchronization
                              NO
Heart rate > 250 bpm
                           N0
Respiratory compensation
                              N0
Navigator respiratory comp :
                              0FF
   weighted gating :
                              NO
```

```
N<sub>0</sub>
Flow compensation
fMRI echo stabilisation :
                               N<sub>0</sub>
Motion smoothing
                               NO
NSA
                               1
=====DYNANG=========
                               ______
Angio / Contrast enh.
                               NO
Quantitative flow
                               N<sub>0</sub>
CENTRA
                               N<sub>0</sub>
                               N<sub>0</sub>
Manual start :
EX_abuse_dyn_loop
                               N<sub>0</sub>
Dynamic study
                               NO
Arterial Spin labeling
                               N<sub>0</sub>
Preparation phases
                               AUT0
Interactive F0:
                               N<sub>0</sub>
Gradient demo :
                               N<sub>0</sub>
Pre scan
                               NO
SmartPlan survey
                               NONE
EX ACQ whole body fat water
                               N<sub>0</sub>
EX_ACQ_B0_map
                               NO
EX ACQ B1 map
                               N0
MIP/MPR
                               NO
SWIp :
                               NO.
Images :
                               MODULUS
Autoview image
                               MODULUS
Calculated images
                               NO
EX TS reference tissue
                               GREY MATTER
Recon compression
                               NONE
Recon compression
                               NONE
   Nr recon channels :
                               8
EX_PROC_delrec_fcc_proc
                               PTIMIZED
Preset window contrast :
                               S0FT
EX_PROC_usdef_coca :
                               NO.
                               EX_PROC_coca_acq_nrs
                               EX_PROC_coca_rec_nrs
EX PROC usdef coil survey :
                               N0
EX_PROC_coil_survey_acq_nrs
                               EX_PROC_coil_survey_rec_nrs
                               REAL TIME
Reconstruction mode
Save raw data
                               NO
                               N0
Analyse with IQT
EX_PROC_to_gyroview
                               NO
Hardcopy protocol
                               NO
Image filter
                               DEFAULT
                               DEFAULT
Geometry correction :
Viewable raw data
                               NO
Elliptical k-space shutter
                               DEFAULT
=====PDF=======
                        _____
EX_conflict_suggestion :
                               0
                               0 31 1
GEX CONV id :
GEX_CONV_ppde_update
                               0
GEX CONV made by philips
                               YES
```

```
0 6 2 1 0 7 0 8 11 4 8 13 -1 1 -1 -1 -
GEX CONV applied conversions
GEX_CONV_base_release
                             18
EX GEO_voxel_size_conv_done
                             YES
EX PROC_scan_pat_ref_id
                             541938977
                             541938977 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX_PROC_coca_patient_ref_ids
EX_PROC_coca_nr_channels :
                             32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coca nr stacks
                             2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coca edge dist pos
                             176.147598266602 10000 10000 10000 100
EX_PROC_coca_edge_dist_neg
                             -176.147613525391 -10000 -10000 -10000
EX_PROC_senseref_rfsh_rx_scls
                             1 1 1 1 1 1 1 1
EX PROC senseref rfsh rx ph
                             0 0 0 0 0 0 0 0
EX_PROC_coil_surv_rfsh_rx_scls : 1 1 1 1 1 1 1 1
EX PROC coil surv rfsh rx ph
                             0 0 0 0 0 0 0 0
                             EX_PROC_sense_ref_qbc_stack
EX PROC sense ref syn stack
                             EX PROC coil survey pat ref ids
EX_PROC_coil_survey_nr_channels
                            EX PROC coil survey nr stacks
                          : 000000000000000000000
EX PROC coil survey qbc stack
                          EX_PROC_coil_survey_syn_stack
EX_GEO_auto_coils_selected
                             YES
EX COIL ui use review mode
Total scan duration
                             06:25.8
IF absolute SNR
                             1.39573836326599
Rel. SNR
                             0.0688792318105698
Act. TR/TE (ms)
                             8.0 / 3.7
                             256 x 256
ACQ matrix M \times P:
ACQ voxel MPS (mm)
                             1.00 / 1.00 / 1.00
REC voxel MPS (mm)
                             1.00 / 1.00 / 1.00
Scan percentage (%) :
                             100
                             218
TFE factor
TFE dur. shot / acq (ms)
                             1807.2 / 1745.4
Min. TI delay
                             925.616088867188
WFS (pix) / BW (Hz)
                             2.001 / 217.0
Min. WFS (pix) / Max. BW (Hz)
                             0.559 / 776.8
                             < 5 %
Head SAR
Whole body SAR / level
                             0.0 W/kg / normal
SED
                               0.0 \text{ kJ/kg}
B1+rms
                             0.54 uT
                             0.55 uT
Max B1+rms
PNS / level :
                             42 % / normal
                             29.5 T/s
dB/dt
Sound Pressure Level (dB) :
                             9.48481273651123
```

Protocol Name: T2W_TSE_32chSHC

Methodes Description:

methodDescription : TRA TSE 3381 80 90

```
applicationMode : AGDEF APPL IMAGING
lastModifiedTimeUtc : 2010-04-16 07:21:18.834
linkState : false
laterality : unpaired
25
Patient weight [kg] :
Nucleus
                                 H1
SmartSelect :
                                 AUTO
compacted :
                                 0 1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
                                 SENSE_HEAD_32P , SENSE HEAD 32AH
compacted coils :
                                 /CDAS.ConnPFEI/PFEI.ConnA , /CDAS.Conn
compacted conns :
                                 65535 0 0 0 65471 0 0 0 0 0 0 0 0 0 0
stacks channels :
clinical modes
                                 SENSE_HEAD_32P_SENSE_HEAD_32AH
                                 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
compacted (exclude)
compacted coils (exclude) :
compacted conns (exclude) :
stacks channels (exclude) :
                                 Uniformity
                                 CLEAR
FOV (mm)
                                 230
FOV (mm)
                                 184
FOV (mm) :
                                 52 143 143 143 143 143 143 143 143 143
ACQ voxel size
                FH (mm)
                                 0.5
ACQ voxel size FH (mm)
                                 0.5
Slice thickness (mm)
                                 2
EX PROC recon voxel size :
                                 0.479166656732559
RF0V (%)
                                 80
EX_ACQ_small_fov :
                                 NO
Fold-over suppression
                                 NO.
Matrix scan :
                                 460
       reconstruction :
                                 480
                                 100
Scan percentage (%) :
SENSE
                                 YES
    P reduction (AP) :
                                 1
                                 NO.
k-t Acceleration :
Stacks:
    type :
                                 PARALLEL STACK
Slices :
                                 26
Slice thickness (mm)
                                 2
    slice gap :
                                 USER DEF
          gap (mm) :
                                 0
Slice orientation :
                                 CORONAL
Fold-over direction :
                                 LR
Fat shift direction
                                 F
Slice Offc. AP (P=+mm):
                                 1.0519847869873
                                 -0.212470144033432
            RL (L=+mm):
            FH (H=+mm) :
                                 -9.24132251739502
            AP (deg)
                                2.48234629631042
      Ang.
                               30.2763442993164
-0.6716603636741
            RL (deg)
            FH (deg)
                                -0.671660363674164
EX_GEO_stacks_table_long_pos : 2100000000
```

Other Tags:

```
Free rotatable :
                                N0
Minimum number of packages :
                                1
Slice scan order
                                DEFAULT
Large table movement
                                NO.
PlanAlign :
                                NO
REST slabs :
                                0
   delay :
                                NO
EX_TRACK_tracking :
                                NONE
Interactive positioning :
                                NO
External control :
                                NO.
Allow table movement :
                                NO
Patient position :
                                HEAD FIRST
Patient orientation
                                SUPINE
Scan type :
                                IMAGING
Scan mode :
                                MS
                                SE
   technique :
Modified SE :
                                NO
Acquisition mode :
                                CARTESIAN
Fast Imaging mode :
                                TSE
    shot mode :
                                MSH
TSE factor :
                                15
   startup echoes :
                                0
   profile order :
                                LINEAR
   DRIVE :
                                NO
   ultrashort
                                NO.
   fid reduction :
                                DEFAULT
Echoes
EX ACQ b0zshim enum :
                                DEFAULT
   partial echo :
                                NO
TE
                                USER DEF
    (ms):
                                90
Flip angle (deg) :
                                90
Refocusing control :
                                YES
   angle (deg)
                                120
   echo enhancement :
                                NONE
   bright fat reduction
                                NO
TR:
                                SHORTEST
Halfscan :
                                NO
Water-fat shift
                                MUMIXAM
                                EX_ACQ_RF_shim_data
Shim :
                                DEFAULT
 Get shim and F0 from PRIDE :
                                NO
 Calculate shim now
                                N<sub>0</sub>
                                AUTO
 F0 Determination :
Χ
         shim value
                                0
 Υ
         shim value
                                0
         shim value
 Ζ
                                0
 Z2
         shim value
                                0
 ZX
         shim value :
                                0
 7Y
        shim value
                                0
 X2-Y2
         shim value
                                0
```

```
2XY
         shim value
                              0
 Z3
         shim value
                              0
 Z2X
         shim value
                              0
 Z2Y
         shim value
                              0
 Z(X2-Y2) shim value
                              0
         shim value
                              0
 2XYZ
 X3
         shim value
                              0
 Y3
         shim value
                              0
 Shim offset freq :
                              0
 Nav shim offset freq
                              0
 Navigator X shim value
                              0
 Navigator Y shim value
                              0
 Navigator Z shim value
                              0
mDIXON
                              N<sub>0</sub>
Fat suppression
                              N<sub>0</sub>
Grad Rev Fat suppr
                              N<sub>0</sub>
Water suppression :
                              NO.
BB pulse :
                              NONE
   shared:
                              NO
MTC
                              NO.
T2prep
                              N0
Custom prepulse
                              NO
EX LOLO enable
                              NO.
Diffusion mode
                              N0
EX DIFF array x
                              EX DIFF array y
                              EX DIFF array z
                              EX DIFF array b
   nr of b-factors
EX DIFF nr dti directions
                              1
EX_DIFF_nr_dti_vectors
                              1
                              EX DIFF weighting ix array
EX DIFF direction ix array
                              User defined DTI scheme :
                              user defined
EX_DIFF_grad_factor
                              1
MRE enable
                              N<sub>0</sub>
Multi-transmit
                              N<sub>0</sub>
SAR mode
                              HIGH
B1 mode
                              DEFAULT
EX MULTIX SAR mode
                              AUT0
PNS mode
                              LOW
Gradient mode :
                              DEFAULT
SofTone mode
                              USER DEF
   factor
=====MOTION======
Cardiac synchronization
                              N0
Heart rate > 250 bpm
                            N0
Respiratory compensation
                              NO
Navigator respiratory comp
                              0FF
   weighted gating
                              NO
Flow compensation
                              NO.
Temporal slice spacing
                              DEFAULT
```

```
NO
Motion smoothing :
NSA
                                2
                               NO
   SMART
=====DYNANG=======
Manual start :
                               NO
                               NO
EX_abuse_dyn_loop :
Dynamic study
                               NO
Arterial Spin labeling
                               N<sub>0</sub>
=====PR0C===========
Preparation phases
                               AUT0
Interactive F0:
                               NO
Gradient demo :
                               N<sub>0</sub>
                               N<sub>0</sub>
Pre scan :
SmartPlan survey :
                               NONE
EX ACQ whole body fat water
                               NO
EX ACQ B0 map
                               N<sub>0</sub>
EX ACQ B1 map
                               NO
MIP/MPR
                               NO.
Images
                               MODULUS
Autoview image :
                               MODULUS
Calculated images
                               N0
EX TS reference tissue :
                               GREY MATTER
Recon compression
                               NONE
Recon compression
                               NONE
   Nr recon channels
                               8
                               PTIMIZED
EX PROC delrec fcc proc
Preset window contrast
                               S0FT
EX_PROC_usdef_coca
EX_PROC_coca_acq_nrs
                               EX_PROC_coca_rec_nrs
EX_PROC_usdef_coil_survey :
                               NO
                               EX PROC coil survey acq nrs
EX_PROC_coil_survey_rec_nrs
                               REAL TIME
Reconstruction mode
Save raw data
                               N0
                               NO
Analyse with IQT
EX_PROC_to_gyroview
                               N<sub>0</sub>
Hardcopy protocol :
                               NO
Image filter
                               DEFAULT
Geometry correction :
                               DEFAULT
Viewable raw data :
                               NO
=====PDF======
EX conflict suggestion :
GEX CONV id :
                               0 31 1
GEX_CONV_ppde_update
                               0
GEX_CONV_made_by_philips
                               YES
GEX CONV applied conversions
                               0 6 2 1 0 7 0 8 11 4 8 13 -1 1 -1 -1 -
GEX CONV base release
                               18
EX_GEO_voxel_size_conv_done
                               YES
EX_PROC_scan_pat_ref_id
                               541938977
EX PROC coca patient ref ids
                               541938977 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coca nr channels :
                               32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
```

```
EX PROC coca nr stacks
                           2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
                           10000 10000 10000 10000 10000 10000 10
EX PROC coca edge dist pos :
EX_PROC_coca_edge_dist_neg :
                           -10000 -10000 -10000 -10000 -10000 -10
EX PROC senseref rfsh rx scls : 1 1 1 1 1 1 1 1
EX PROC senseref rfsh rx ph
                           0 0 0 0 0 0 0 0
EX PROC coil surv rfsh rx scls : 1 1 1 1 1 1 1 1
EX PROC coil surv rfsh rx ph
                           0 0 0 0 0 0 0 0
EX PROC sense ref qbc stack
                           EX PROC sense ref syn stack
EX PROC coil survey pat ref ids
                          :0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
                          :0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coil survey nr channels
EX GEO auto coils selected
                           YES
EX COIL ui use review mode
                           YES
Total scan duration :
                           03:52.8
IF absolute SNR :
                           0.797238945960999
Rel. SNR
                           0.571614325046539
Act. TR/TE (ms)
                           2376
Act. TE (ms)
                           90
ACQ matrix M x P
                           460 x 360
                           0.50 / 0.51 / 2.00
ACQ voxel MPS (mm)
REC voxel MPS (mm)
                           0.48 / 0.48 / 2.00
Scan percentage (%) :
                          97.8260879516602
Packages
                           2
Min. slice gap (mm)
                           2.363 / 183.8
WFS (pix) / BW (Hz) :
                          11.3 / 169
TSE es / shot (ms) :
TEeff / TEequiv (ms) :
                           90 / 81
                           < 90 %
Head SAR
Whole body SAR / level :
                           < 0.2 \text{ W/kg / normal}
SED
                            0.0 \text{ kJ/kg}
B1+rms
                           2.21 uT
                           2.21 uT
Max B1+rms :
                           23 % / normal
PNS / level :
                           11.2 T/s
dB/dt
                           1.84885823726654
Sound Pressure Level (dB) :
```

Protocol Name: FLAIR LongTR MOD

Methodes Description:

methodDescription : TRA TIR 11000 125 90

Other Tags:

applicationMode : AGDEF APPL IMAGING

lastModifiedTimeUtc : 2010-04-07 19:31:29.726

```
=====GE0METRY===============================
Patient weight [kg]
                                  25
Nucleus :
                                 H1
SmartSelect
                                 AUTO
                                 0 1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
compacted :
compacted coils
                                 SENSE HEAD 32AH , SENSE HEAD 32P
                                 /CDAS.ConnPFEI/PFEI.ConnB , /CDAS.Conn
compacted conns
                                 65531 0 0 0 65535 0 0 0 0 0 0 0 0 0 0
stacks channels :
clinical modes
                                 SENSE HEAD 32P SENSE HEAD 32AH
                                 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
compacted (exclude)
compacted coils (exclude)
compacted conns (exclude)
stacks channels (exclude)
                                 Uniformity :
                                 CLEAR
FOV (mm)
                                 230
FOV (mm)
                                 182.413787841797
FOV (mm)
                                 150 119 119 119 119 119 119 119 119 11
ACQ voxel size
                FH (mm)
                                 1
ACQ voxel size
                FH (mm)
                                 1
Slice thickness (mm)
                                 2
EX_PROC_recon_voxel_size
                                 0.71875
RF0V (%):
                                 79.3103408813477
Fold-over suppression
                                 N0
Matrix scan :
                                 232
       reconstruction :
                                 320
Scan percentage (%) :
                                 98.9130401611328
SENSE :
                                 YES
   P reduction (AP)
                                 1.20000004768372
k-t Acceleration :
                                 NO.
Stacks:
                                 PARALLEL STACK
    type :
Slices :
                                 75
Slice thickness (mm)
                                  2
                                 USER_DEF
    slice gap
          gap (mm) :
Slice orientation :
                                 TRANSVERSAL
Fold-over direction :
                                 LR
Fat shift direction
Slice Offc. AP (P=+mm)
                                  -12.1278877258301
           RL (L=+mm)
                                 1.99212861061096
            FH (H=+mm)
                                 5.42133474349976
           AP (deg)
                                 -1.05240416526794
      Ang.
           RL (deg)
                                  -1.10846042633057
            FH (deg)
                                 4.89425134658813
EX_GEO_stacks_table_long_pos :
                                 2100000000
      Free rotatable
                                 NO
Minimum number of packages :
                                 4
Slice scan order
                                 DEFAULT
Large table movement
                                 N<sub>0</sub>
```

```
NO
PlanAlign :
REST slabs :
                                 1
                                 N0
   shared:
                                 PARALLEL
   type :
                                 10 10 10 10 10 10 10 10 10 10 10 10
   circular slabs
   orientation
                                 TRANSVERSAL
   thickness (mm)
                                 60 60 60 60 60 60 60 60 60 60 60
   position :
                                 CAUDAL
                                 DEFAULT
   gap :
                                 15 20 20 20 20 20 20 20 20 20 20 20
       (mm)
                                 50 50 50 50 50 50 50 50 50 50 50 50
   distance (mm)
     Offc. AP (P=+mm)
                                 -14.4489049911499 0 0 0 0 0 0 0 0 0 0
Rest
                                 4.19615459442139 0 0 0 0 0 0 0 0 0 0 0
           RL (L=+mm) :
           FH (H=+mm)
                                 -114.535972595215 0 0 0 0 0 0 0 0 0 0
                                 -1.05240416526794 0 0 0 0 0 0 0 0 0 0
     Ang.
           AP (deg)
                                 -1.10846042633057 0 0 0 0 0 0 0 0 0 0
           RL (deg)
           FH (deg)
                                 4.89425134658813 0 0 0 0 0 0 0 0 0 0 0
   angulation (deg) :
                                 FM shape :
                                 NO
   composite elements
                                 1 1 1 1 1 1 1 1 1 1 1 1
                                 1 1 1 1 1 1 1 1 1 1 1 1
    correction factor
   power :
                                 1
                                 FAT
   target :
                                 NO.
    timed :
     start (phase) :
                                 1
                                 2
     stop (phase) :
                                 N<sub>0</sub>
   delay :
      (ms)
                                 50
EX TRACK tracking
                                 NONE
Interactive positioning :
                                 NO
External control
                                 N0
Allow table movement
                                 NO
Patient position
                                 HEAD FIRST
                                 SUPINE
Patient orientation
Scan type
                                 IMAGING
Scan mode
                                 MS
   technique
                                 IR
Acquisition mode :
                                 CARTESIAN
Fast Imaging mode :
                                 TSE
   shot mode :
                                 MSH
TSE factor
                                 31
   startup echoes :
                                 0
   profile order :
                                 LINEAR
   DRIVE
                                 NO
   ultrashort :
                                 YES
   shift
                                 0
   fid reduction
                                 DEFAULT
Echoes
                                 1
EX_ACQ_b0zshim_enum :
                                 DEFAULT
   partial echo :
                                 NO.
                                 USER DEF
TE
```

```
125
    (ms):
Refocusing control :
                                 YES
    angle (deg)
                                 120
    echo enhancement :
                                 NONE
    bright fat reduction
                                 NO.
TR
                                 USER DEF
    (ms)
                                 10000
Halfscan
                                 NO
Water-fat shift :
                                 MAXIMUM
IR delay (ms) :
                                 2700
    acquire during delay :
                                 YES
EX IR 2nd inv :
                                 NO.
                                 1
    power :
                                 EX_ACQ_RF_shim_data :
Shim :
                                 DEFAULT
 Get shim and F0 from PRIDE
                                 NO.
 Calculate shim now :
                                 NO
 F0 Determination :
                                 AUTO
 Χ
          shim value
                                 0
 Υ
          shim value
                                 0
 Ζ
          shim value
                                 0
 Z2
          shim value
                                 0
 ZX
          shim value
                                 0
 ZY
         shim value
                                 0
 X2-Y2
         shim value
                                 0
 2XY
         shim value
                                 0
 Z3
         shim value
                                 0
 Z2X
         shim value
                                 0
         shim value
 Z2Y
                                 0
 Z(X2-Y2) shim value
                                 0
         shim value
 2XYZ
                                 0
 Х3
         shim value
                                 0
 Y3
          shim value
                                 0
 Shim offset freq :
                                 0
 Nav shim offset freq :
                                 0
 Navigator X shim value
                                 0
 Navigator Y shim value
                                 0
 Navigator Z shim value
                                 0
mDIXON
                                 N<sub>0</sub>
Fat suppression
                                 SPIR
   strength
                                 STRONG
   frequency offset :
                                 DEFAULT
Grad Rev Fat suppr :
                                 NO
Water suppression :
                                 N<sub>0</sub>
    shared :
                                 N<sub>0</sub>
MTC
                                 N<sub>0</sub>
T2prep
                                 N0
Custom prepulse
                                 N<sub>0</sub>
EX LOLO_enable :
                                 NO
Diffusion mode :
                                 NO
EX_DIFF_array_x
                                 EX DIFF array y
```

```
EX DIFF array z
EX DIFF array b
                               nr of b-factors
                               2
EX DIFF nr dti_directions
                               1
EX DIFF nr dti vectors
                               1
EX_DIFF_weighting_ix_array
                               EX DIFF direction ix array
                               User defined DTI scheme
                               user defined
EX DIFF grad factor
                               1
MRE enable
                               N<sub>0</sub>
Multi-transmit
                               N<sub>0</sub>
                               HIGH
SAR mode :
B1 mode :
                               DEFAULT
EX_MULTIX_SAR_mode
                               AUT0
PNS mode :
                               HIGH
Gradient mode :
                               DEFAULT
SofTone mode :
                               N0
Cardiac synchronization
                               N0
                            NO.
Heart rate > 250 bpm
Respiratory compensation
                               NO
Navigator respiratory comp
                               0FF
   weighted gating
                               NO.
Flow compensation :
                               YES
   direction
                               IN PLANE
Motion smoothing
                               NO.
NSA
                               2
   SMART
                               NO
=====DYNANG=======
Manual start :
                               NO
                               N<sub>0</sub>
EX_abuse_dyn_loop
Dynamic study
                               N0
Arterial Spin labeling
                               N<sub>0</sub>
=====PR0C========
Preparation phases
                               AUT0
Interactive F0
                               N<sub>0</sub>
                               N<sub>0</sub>
Gradient demo :
                               N<sub>0</sub>
Pre scan
SmartPlan survey
                               NONE
EX ACQ whole body fat water
                               N0
EX_ACQ_B0_map
                               NO
EX ACQ B1_map
                               NO
MIP/MPR
                               NO
Images
                               MODULUS
Autoview image
                               MODULUS
EX TS reference tissue
                               GREY MATTER
Recon compression
                               NONE
Recon compression
                               NONE
   Nr recon channels
EX_PROC_delrec_fcc_proc
                               PTIMIZED
Preset window contrast
                               S0FT
EX PROC usdef coca
                               NO
```

```
EX PROC coca_acq_nrs
                           EX_PROC_coca_rec_nrs
EX PROC usdef coil survey
                           N0
EX_PROC_coil_survey_acq_nrs
                           EX PROC coil survey rec nrs
                           REAL TIME
Reconstruction mode
Save raw data
                           N0
Analyse with IQT
                           N<sub>0</sub>
EX PROC to gyroview
                           NO
Hardcopy protocol
                           NO
Image filter
                           DEFAULT
                           DEFAULT
Geometry correction
Viewable raw data
                           N0
=====PDF=========
EX conflict suggestion :
                           0
GEX CONV id :
                           0 31 1
GEX_CONV_ppde_update
                           0
GEX CONV made by philips
                           YES
GEX CONV applied_conversions
                           0 6 2 1 0 7 0 8 11 4 8 13 -1 1 -1 -1 -
GEX CONV_base_release
                           18
EX_GEO_voxel_size_conv_done
                           YES
EX PROC scan pat ref id
                           541938977
EX_PROC_coca_patient_ref_ids
                           541938977 0 0 0 0 0 0 0 0 0 0 0 0 0 0
                           32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coca nr channels :
                           EX PROC coca nr stacks
                           178.818939208984 10000 10000 10000 100
EX PROC coca edge dist pos
                           -178.795074462891 -10000 -10000 -10000
EX PROC coca edge dist neg
EX PROC senseref rfsh rx scls
                           1 1 1 1 1 1 1 1
EX PROC senseref rfsh rx ph
                           0 0 0 0 0 0 0 0
                         : 1 1 1 1 1 1 1 1
EX PROC coil surv rfsh rx scls
EX_PROC_coil_surv_rfsh_rx_ph
                           0 0 0 0 0 0 0 0
                           EX PROC sense ref qbc stack
EX_PROC_sense_ref_syn_stack
                           EX_PROC_coil_survey_pat_ref_ids
EX_PROC_coil_survey_nr_channels
                          EX PROC coil survey_nr_stacks
                           EX PROC coil survey qbc stack
                           EX_PROC_coil_survey_syn_stack
                           YES
EX_GEO_auto_coils_selected
EX COIL ui use review mode
                           YES
=====INFO======
Total scan duration
                           07:30.0
IF absolute SNR
                           1.15998351573944
Rel. SNR
                           1.0274041891098
Act. TR/TE (ms)
                           10000 / 2700
Act. TE (ms)
                           125
ACQ matrix M x P
                           232 x 148
ACQ voxel MPS (mm)
                           0.99 / 1.23 / 2.00
REC voxel MPS (mm)
                           0.72 / 0.72 / 2.00
Scan percentage (%)
                           80.5194778442383
Packages
                           5
                           2
Min. slice gap (mm)
```

```
32
Optimal slices :
Max. slices :
                                    80
WFS (pix) / BW (Hz):
                                    1.313 / 330.8
Full flow comp. :
                                    YES
TSE es / shot (ms) :
                                    7.8 / 242
TEeff / TEequiv (ms) :
                                    125 / 111
9275 / 50
Min. TR/TE (ms)
Head SAR :
                                    < 67 %
                                    < 0.1 \text{ W/kg / normal}
Whole body SAR / level :
                                    < 0.1 \text{ kJ/kg}
SED:
B1+rms
                                    1.91 uT
Max B1+rms :
                                    1.91 uT
                                    51 % / normal
PNS / level :
                                    52.6 T/s
dB/dt :
                                    20.2527694702148
Sound Pressure Level (dB) :
```

Protocol Name: Resting state

Methodes Description:

```
Other Tags:
applicationMode : AGDEF APPL IMAGING
linkState : false
laterality : unpaired
 Patient weight [kg] :
                                 25
 Nucleus
                                 H1
 SmartSelect :
                                 AUTO
                                 0 1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
 compacted :
                                 SENSE_HEAD_32AH , SENSE_HEAD_32P
/CDAS.ConnPFEI/PFEI.ConnB , /CDAS.Conn
 compacted coils :
 compacted conns
 stacks channels
                                 65531 0 0 0 65535 0 0 0 0 0 0 0 0 0 0
                                 SENSE HEAD 32P SENSE HEAD 32AH
 clinical modes :
                                 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
 compacted (exclude)
 compacted coils (exclude) :
 compacted conns (exclude) :
 stacks channels (exclude) :
                                 Uniformity
                                 CLEAR
 FOV (mm)
                                 240
 FOV (mm)
                                 240
                                 121.599998474121 250 250 250 250 250 2
 FOV (mm)
 ACQ voxel size
                 FH (mm) :
 ACQ voxel size
                 FH (mm) :
                                 3
 Slice thickness (mm) :
                                 3.20000004768372
 EX_PROC_recon_voxel_size :
 RFOV (%) :
                                 100
 Fold-over suppression :
                                 NO.
 Matrix scan :
                                 80
```

```
80
       reconstruction :
Scan percentage (%) :
                                    100
SENSE
                                    YES
    P reduction (AP)
                                    2
                                    NO
k-t Acceleration :
Stacks
                                    1
                                    PARALLEL STACK
    type :
Slices :
                                    38
Slice thickness (mm)
                                    3.20000004768372
                                    USER DEF
    slice gap :
          gap (mm)
                                    0
Slice orientation
                                    TRANSVERSAL
Fold-over direction
                                    AP
Fat shift direction
                                    Α
Slice Offc. AP (P=+mm)
                                    -11.0084676742554
            RL (L=+mm)
                                    0.872701227664948
            FH (H=+mm)
                                    13.8170366287231
      Ang.
            AP (deg)
                                    -1.05240416526794
            RL (deg)
                                    -1.10846042633057
                                    4.89425134658813
            FH (deg)
EX GEO stacks_table_long_pos
                                    2100000000
      Free rotatable
                                    NO
Minimum number of packages
                                    1
Slice scan order
                                    ASCEND
Large table movement
                                    NO
PlanAlign :
                                    N<sub>0</sub>
REST slabs
                                    0
                                    N0
    delay
Shim Size AP (mm)
                                    171.363876342773
                                    129.150146484375
            RL (mm)
                                    113.97046661377
            FH (mm)
      Offc. AP (P=+mm)
                                    -3.86548471450806
            RL (L=+mm)
                                    -0.506013989448547
            FH (H=+mm)
                                    15.580135345459
            AP (deg)
                                    -1.97411704063416
      Ang.
            RL (deg)
                                    -10.0008583068848
                                    4.8738169670105
            FH (deg)
Shim volumes
                                    1
EX_TRACK_tracking
                                    NONE
Interactive positioning
                                    N<sub>0</sub>
External control
                                    N<sub>0</sub>
Allow table movement
                                    NO
Patient position
                                    HEAD FIRST
Patient orientation
                                    SUPINE
=====CONTRAST=====
                                    IMAGING
Scan type
Scan mode
                                    MS
    technique
                                    FFE
Contrast enhancement
                                    NO
Acquisition mode
                                    CARTESIAN
Fast Imaging mode
                                    EPI
    shot mode
                                    SSH
```

```
Echoes:
                              1
                              DEFAULT
EX ACQ b0zshim enum
   partial echo
                              N0
   shifted echo :
                              N0
TE
                              USER DEF
   (ms):
                              28
Flip angle (deg)
                              90
TR:
                              USER DEF
                              2000
   (ms)
Halfscan :
                              NO
Water-fat shift :
                              USER DEF
    (pixels) :
                              11
EX ACQ RF shim data
                              Shim :
                              HOS VOLUME
 Get shim and F0 from PRIDE :
                              N<sub>0</sub>
 Calculate shim now
                              N<sub>0</sub>
 FO Determination :
                              AUT0
 Χ
         shim value
                              0
 Υ
         shim value
                              0
 Ζ
         shim value
                              0
         shim value
 Z2
                              0
                              0
 ZX
         shim value
 ZΥ
         shim value
                              0
         shim value
 X2-Y2
                              0
 2XY
         shim value
                              0
 Z3
         shim value
                              0
 Z2X
         shim value
                              0
 Z2Y
         shim value
                              0
 Z(X2-Y2) shim value
                              0
         shim value
 2XYZ
                              0
 Х3
         shim value
                              0
 Y3
         shim value
                              0
 Shim offset freq :
                              0
 Nav shim offset freq :
                              0
Navigator X shim value
                              0
 Navigator Y shim value
                              0
 Navigator Z shim value
                              0
                              N<sub>0</sub>
ShimAlign
                              N0
mDIXON
Fat suppression :
                              SPIR
  strength :
                              STRONG
  frequency offset :
                              DEFAULT
Water suppression :
                              NO
   shared:
                              N0
MTC
                              NO
Custom prepulse :
                              NO
Diffusion mode :
                              N0
EX DIFF array x
                              EX DIFF array y
                              EX DIFF array z
                              EX DIFF array b
                              nr of b-factors
                              2
```

```
EX DIFF nr dti directions
                                   1
EX_DIFF_nr_dti_vectors
                                   1
EX DIFF weighting ix array
                                   EX DIFF direction ix array
                                   User defined DTI scheme
                                   user defined
EX_DIFF_grad_factor
                                   1
MRE enable
                                   N<sub>0</sub>
Multi-transmit
                                   N<sub>0</sub>
SAR mode :
                                   HIGH
B1 mode
                                   DEFAULT
EX MULTIX SAR mode
                                   AUT0
PNS mode :
                                   HIGH
Gradient mode :
                                   MAXIMUM
SofTone mode
                                   NO.
=====MOTION======
Cardiac synchronization
                                   NO
Heart rate > 250 bpm
                                N0
Respiratory compensation
                                   NO
Navigator respiratory comp
                                   0FF
    weighted gating :
                                   NO.
Flow compensation
                                   N0
Temporal slice spacing
                                   MINIMAL
fMRI echo stabilisation
                                   NO.
NSA
=====DYNANG======
Angio / Contrast enh.
                                   N<sub>0</sub>
Quantitative flow
                                   NO.
Manual start :
                                   YES
EX abuse dyn loop
                                   NO.
Dynamic study
                                   INDIVIDUAL
    dyn scans
                                   203
    recon multiplier :
                                   1
    dyn scan times :
                                   SHORTEST
    fov time mode :
                                   VOXEL
    dummy scans
                                   5
    immediate subtraction
                                   N<sub>0</sub>
    fast next scan :
                                   N0
                                   YES
    synch. ext. device
        start at dyn.
                                   1
                                   1
        interval (dvn)
    dyn stabilization
                                   REGULAR
    prospect. motion corr.
                                   NO
Keyhole
                                   N<sub>0</sub>
Arterial Spin labeling
                                   N<sub>0</sub>
=====PR0C======
Preparation phases
                                   FULL
Interactive F0
                                   N0
Gradient demo
                                   N<sub>0</sub>
Pre scan
                                   NO
SmartPlan survey
                                   NONE
EX ACQ whole body fat water
                                   NO.
EX ACQ BO map
                                   N<sub>0</sub>
```

```
EX ACQ B1 map
                            N0
MIP/MPR
                            NO
                            N0
SWIp
Images
                            MODULUS
                            MODULUS
Autoview image
Calculated images
                            NO
EX TS reference tissue
                            GREY MATTER
EX ACQ epi 2d phase corr
                            NO
Recon compression
                            NONE
Recon compression
                            NONE
   Nr recon channels
                            8
EX PROC delrec fcc proc
                            PTIMIZED
                            S0FT
Preset window contrast
EX_PROC_usdef_coca
                            NO
EX PROC coca acq nrs
                            EX PROC coca rec nrs
                            EX_PROC_usdef_coil_survey
                            NO
EX PROC coil survey acq nrs
                            EX PROC coil survey rec nrs
Reconstruction mode
                            REAL TIME
                            N0
   reuse memory
Save raw data
                            NO
Analyse with IQT
                            NO
EX_PROC_to_gyroview
                            N0
Hardcopy protocol
                            NO
Image filter
                            DEFAULT
                            DEFAULT
Geometry correction
Viewable raw data
=====PDF======
EX conflict suggestion
                            0
GEX CONV_id :
                            0 31 1
GEX CONV ppde update
                            0
GEX_CONV_made_by_philips
                            YES
                            0 6 2 1 0 7 0 8 11 4 8 13 -1 1 -1 -1 -
GEX_CONV_applied_conversions
GEX_CONV_base_release
                            18
EX GEO voxel size conv done
                            YES
EX PROC scan pat ref id
                            541938977
EX PROC coca patient ref ids
                            541938977 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX_PROC_coca_nr_channels :
                            32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coca nr stacks
                            2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX_PROC_coca_edge_dist_pos
                            172.809295654297 10000 10000 10000 100
EX PROC coca edge dist neg
                            -179.551834106445 -10000 -10000 -10000
                            1 1 1 1 1 1 1 1
EX PROC senseref rfsh rx scls
EX PROC senseref rfsh rx ph
                            0 0 0 0 0 0 0 0
EX PROC coil surv rfsh rx scls
                          : 1 1 1 1 1 1 1 1
EX PROC coil surv rfsh rx ph
                            0 0 0 0 0 0 0 0
EX PROC sense ref qbc stack
                            EX PROC sense ref syn stack
EX_PROC_coil_survey_pat_ref_ids
                           EX_PROC_coil_survey_nr_channels
EX_PROC_coil_survey_nr_stacks
                         :
                            EX PROC coil survey qbc stack
                         :
```

```
EX PROC coil survey syn stack :
                                 EX_GEO_auto_coils_selected
                                 YES
EX COIL ui use review mode
                                 YES
=====INF0===========
                                 06:59.9
Total scan duration :
IF_absolute SNR :
                                 6.20777082443237
Rel. SNR
                                 5.4982590675354
Act. TR/TE (ms) :
                                 2000 / 28
Dyn. scan time :
                                 00:02.0
Time to k0 :
                                 0.994
ACQ matrix M \times P:
                                 80 x 78
                                 3.00 / 3.08 / 3.20
3.00 / 3.00 / 3.20
ACQ voxel MPS (mm)
REC voxel MPS (mm)
Scan percentage (%) :
                                 97.5
Packages
                                 1
Min. slice gap (mm)
                                 0
EPI factor :
                                 39
WFS (pix) / BW (Hz):
                                 11.001 / 39.5
BW in EPI freq. dir. (Hz) :
                                 2123.3
Min. WFS (pix) / Max. BW (Hz) : 7.233 / 60.0
Min. TR/TE (ms) :
                                 1967 / 9.6
Head SAR
                                 < 37 %
Whole body SAR / level :
                                 < 0.1 \text{ W/kg / normal}
SED:
                                   0.0 \text{ kJ/kg}
B1+rms
                                 1.42 uT
Max B1+rms :
                                 1.42 uT
                                 95 % / 1st level
PNS / level :
                                 119.0 T/s
dB/dt :
Sound Pressure Level (dB) :
                                 19.4884967803955
```

Protocol Name: WIP_dti_landman_5min

AGDEF APPL IMAGING

Methodes Description:

applicationMode :

Other Tags:

```
linkState : false
laterality : unpaired
25
Patient weight [kg] :
                              H1
Nucleus
SmartSelect :
                              AUT0
compacted :
                              0 1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
compacted coils :
                              SENSE HEAD 32AH , SENSE HEAD 32P
compacted conns :
                              /CDAS.ConnPFEI/PFEI.ConnB , /CDAS.Conn
                              65531 0 0 0 65535 0 0 0 0 0 0 0 0 0 0
stacks channels :
                              SENSE_HEAD_32P_SENSE_HEAD_32AH
clinical modes
                              -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
compacted (exclude) :
```

```
compacted coils (exclude)
compacted conns (exclude)
                                   stacks channels (exclude)
Uniformity :
                                   CLEAR
                                   240
FOV (mm)
FOV (mm)
                                   240
FOV (mm)
                                   125 250 250 250 250 250 250 250 250 25
                                   2.5
ACQ voxel size
                 FH (mm)
ACQ voxel size
                                   2.5
                 FH (mm)
                                   2.5
Slice thickness (mm)
EX PROC recon voxel size
                                   2.5
RF0V (%)
                                   100
EX ACQ small fov
                                   NO.
Fold-over suppression
                                   NO
Matrix scan
                                   96
       reconstruction
                                   96
                                   100
Scan percentage (%) :
SENSE
                                   YES
    P reduction (AP)
                                   2.20000004768372
k-t Acceleration :
                                   NO.
Stacks
                                   1
                                   PARALLEL STACK
    type :
Slices
                                   50
Slice thickness (mm)
                                   2.5
    slice gap :
                                   USER DEF
          gap (mm)
Slice orientation
                                   TRANSVERSAL
Fold-over direction
                                   AP
Fat shift direction
                                   Р
Slice Offc. AP (P=+mm)
                                   -11.0084676742554
            RL (L=+mm)
                                   0.872701227664948
                                   13.8170366287231
            FH (H=+mm)
            AP (deg)
                                   -1.05240416526794
      Ang.
                                   -1.10846042633057
            RL (deg)
            FH (deg)
                                   4.89425134658813
EX_GEO_stacks_table_long_pos
                                   2100000000
      Free rotatable
                                   NO.
Minimum number of packages
                                   1
Slice scan order
                                   DEFAULT
Large table movement
                                   N<sub>0</sub>
PlanAlign
                                   N<sub>0</sub>
REST slabs
                                   0
    delay
                                   NO
           AP (mm)
Shim
      Size
                                   171.363876342773
            RL (mm)
                                   129.150146484375
            FH (mm)
                                   113.97046661377
      Offc. AP (P=+mm)
                                   -3.86548471450806
            RL (L=+mm)
                                   -0.506013989448547
            FH (H=+mm)
                                   15.580135345459
      Ang.
            AP (deg)
                                   -1.97411704063416
            RL (deg)
                                   -10.0008583068848
                                   4.8738169670105
            FH (deg)
```

```
Shim volumes :
                                 1
EX_TRACK_tracking
                                 NONE
Interactive positioning
                                 NO
External control
                                 N0
Allow table movement
                                 NO.
Patient position :
                                 HEAD FIRST
Patient orientation
                                 SUPINE
IMAGING
Scan type :
Scan mode :
                                 MS
                                 SE
   technique :
Modified SE :
                                 NO.
Acquisition mode :
                                 CARTESIAN
Fast Imaging mode :
                                 EPI
    shot mode :
                                 SSH
Echoes
                                 1
                                DEFAULT
EX ACQ b0zshim enum :
   partial echo
                                 NO
TF
                                 USER DEF
    (ms):
                                 53
Flip angle (deg)
                                 90
TR:
                                 USER DEF
    (ms)
                                 7775
Halfscan
                                 YES
                                 0.702127635478973
    factor :
Water-fat shift
                                 MINIMUM
EX_ACQ_RF_shim_data :
                                 HOS VOLUME
 Get shim and F0 from PRIDE :
                                 NO
 Calculate shim now
                                 NO
 FO Determination :
                                 AUTO
 Χ
         shim value
                                 0
 Υ
         shim value
                                 0
 Ζ
         shim value
                                 0
         shim value
 Z2
                                 0
 ZX
         shim value
                                 0
 ZY
         shim value
                                 0
         shim value
 X2-Y2
                                 0
 2XY
         shim value
                                 0
 Z3
         shim value
                                 0
 Z2X
         shim value
                                 0
 Z2Y
         shim value
                                 0
 Z(X2-Y2) shim value
                                 0
 2XYZ
         shim value
                                 0
 Х3
         shim value
                                 0
 Y3
         shim value
                                 0
 Shim offset freq :
                                 0
 Nav shim offset freq :
                                 0
 Navigator X shim value
                                 0
 Navigator Y shim value
                                 0
 Navigator Z shim value
                                 0
ShimAlign
                                 N<sub>0</sub>
```

```
mDIXON
                           N0
Fat suppression :
                           NO
Grad Rev Fat suppr
                           YES
Water suppression :
                           N0
BB pulse :
                           NONE
   shared :
                           NO
MTC
                           N<sub>0</sub>
Custom prepulse :
                           NO
Diffusion mode :
                           DTI
   sequence:
                           Ε
EX DIFF grad dur enum
                           MAXIMUM
   gradient overplus
                           NO.
   directional resolution :
                           HIGH
EX_DIFF_array_x
                           EX DIFF array y
                           0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX DIFF array z
                           EX_DIFF_array_b
                           nr of b-factors
                           2
EX DIFF nr_dti_directions
                           1
EX DIFF nr dti vectors
                           1
EX DIFF weighting ix array
                           EX DIFF direction_ix_array
                           User defined DTI scheme :
                           user defined
EX DIFF grad factor
                           1
   nr of b-factors
                           2
   b-factor order :
                           LIN
   max b-factor :
                           1000
   average high b :
                           USER DEF
      b-factor averages :
                           MRE enable
                           NO
Multi-transmit
                           N0
SAR mode :
                           HIGH
B1 mode :
                           DEFAULT
EX MULTIX SAR mode
                           AUT0
PNS mode :
                           MODERATE
Gradient mode :
                           ENHANCED
SofTone mode :
                           N<sub>0</sub>
Cardiac synchronization :
                           NO
Heart rate > 250 bpm
                         N0
Respiratory compensation :
                           NO
Navigator respiratory comp :
                           0FF
   weighted gating :
                           NO
Flow compensation
                           NO
Temporal slice spacing
                           DEFAULT
NSA :
Manual start
                           NO.
EX abuse dyn loop :
                           NO
Dynamic study :
                           NO
   dyn stabilization :
                           NO.
                           N<sub>0</sub>
Arterial Spin labeling :
```

```
=====PR0C======
Preparation phases
                               AUT0
Interactive F0
                               NO
Gradient demo :
                               N<sub>0</sub>
                               N<sub>0</sub>
Pre scan
SmartPlan survey
                               NONE
EX ACQ whole body fat water
                               N0
EX ACQ B0 map
                               N<sub>0</sub>
EX ACQ B1 map
                               NO
MIP/MPR
                               NO
Images
                               MODULUS
Autoview image
                               MODULUS
Calculated images
                               NO
EX_TS_reference_tissue
                               GREY_MATTER
EX ACQ epi 2d phase corr
                               NO
Recon compression
                               NONE
Recon compression
                               NONE
   Nr recon channels
                               8
EX PROC delrec fcc proc
                               PTIMIZED
                               S0FT
Preset window contrast :
EX_PROC_usdef_coca
                               N0
EX_PROC_coca_acq_nrs
                               EX_PROC_coca_rec_nrs
                               EX PROC usdef coil survey
                               NO
EX_PROC_coil_survey_acq_nrs
                               EX PROC coil survey rec nrs
                               PARALLEL
Reconstruction mode
Save raw data
                               N0
                               N<sub>0</sub>
Analyse with IQT
EX_PROC_to_gyroview
                               NO
Hardcopy protocol
                               NO
Image filter
                               DEFAULT
Geometry correction
                               DEFAULT
Viewable raw data
                               N0
EX conflict suggestion
GEX_CONV_id :
                               0 31 1
GEX_CONV_ppde_update
                               0
GEX_CONV_made_by_philips
                               YES
GEX CONV applied conversions
                               0 6 2 1 0 7 0 8 11 4 8 13 -1 1 -1 -1 -
GEX_CONV_base_release
                               18
EX GEO voxel size_conv_done
                               YES
EX PROC scan pat ref id
                               541938977
EX PROC coca patient ref ids
                               541938977 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX_PROC_coca_nr_channels :
                               32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coca nr stacks
                               2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX_PROC_coca_edge_dist_pos
                               172.809295654297 10000 10000 10000 100
EX PROC coca edge dist neg
                               -179.551834106445 -10000 -10000 -10000
EX_PROC_senseref_rfsh_rx_scls :
                               1 1 1 1 1 1 1 1
EX PROC senseref rfsh rx ph
                               0 0 0 0 0 0 0 0
EX PROC coil surv rfsh rx scls : 1 1 1 1 1 1 1 1
                               0 0 0 0 0 0 0 0
EX PROC coil surv rfsh rx ph :
```

```
EX PROC sense ref qbc stack :
EX_PROC_sense_ref_syn_stack
                           EX PROC coil survey pat_ref_ids
                          :0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX_PROC_coil_survey_nr_channels
                          EX PROC coil survey nr stacks
                        EX_PROC_coil_survey_qbc_stack
                        : 011111111111111111111
EX PROC coil survey syn stack
EX GEO auto coils selected
                           YES
EX COIL ui use review mode
                           YES
Total scan duration
                           05:03.2
IF absolute SNR
                           2.50316500663757
Rel. SNR :
                           0.403230905532837
Act. TR/TE (ms)
                           7775
Act. TE (ms)
                           53
ACQ matrix M \times P:
                           96 x 93
ACQ voxel MPS (mm)
                           2.50 / 2.56 / 2.50
REC voxel MPS (mm)
                           2.50 / 2.50 / 2.50
                           97.7272720336914
Scan percentage (%) :
Packages
Min. slice gap (mm)
                           0
                           25.4 / 13.4
Diff Gr (DELTA/delta(ms)) :
EPI factor :
                           43
WFS (pix) / BW (Hz)
                           11.979 / 36.3
BW in EPI freq. dir. (Hz) :
                           3317.6
                           3654
Min. TR/TE (ms) :
Head SAR
                           < 19 %
Whole body SAR / level :
                           0.0 W/kg / normal
SED:
                            0.0 \text{ kJ/kg}
B1+rms
                           1.03 uT
                           1.03 uT
Max B1+rms :
                           79 % / normal
PNS / level :
                           36.8 T/s
dB/dt :
                          12.4670457839966
Sound Pressure Level (dB) :
```

Protocol Name: DTI_APA

Methodes Description:

```
SENSE HEAD 32AH , SENSE HEAD 32P
compacted coils
                                  /CDAS.ConnPFEI/PFEI.ConnB , /CDAS.Conr
compacted conns
                                  65531 0 0 0 65535 0 0 0 0 0 0 0 0 0 0
stacks channels
                                  SENSE_HEAD_32P_SENSE_HEAD_32AH
clinical modes :
                                  -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
compacted (exclude)
compacted coils (exclude)
compacted conns (exclude)
stacks channels (exclude)
                                  CLEAR
Uniformity :
                                  240
FOV (mm)
FOV (mm)
                                  240
FOV (mm)
                                  125 250 250 250 250 250 250 250 250 25
ACQ voxel size
                                  2.5
                 FH (mm)
ACQ voxel size
                FH (mm)
                                  2.5
Slice thickness (mm)
                                  2.5
EX PROC recon voxel size
                                  2.5
RF0V (%)
                                  100
EX ACQ small fov :
                                  NO
Fold-over suppression
                                  NO.
                                  96
Matrix scan
                                  96
       reconstruction :
Scan percentage (%) :
                                  100
SENSE
                                  YES
    P reduction (AP) :
                                  2.20000004768372
k-t Acceleration :
                                  NO
Stacks
                                  1
    type :
                                  PARALLEL STACK
Slices :
                                  50
Slice thickness (mm)
                                  2.5
                                  USER DEF
    slice gap :
          gap (mm) :
                                  TRANSVERSAL
Slice orientation :
Fold-over direction :
                                  AΡ
Fat shift direction
                                  Α
Slice Offc. AP (P=+mm)
                                  -11.0084676742554
            RL (L=+mm)
                                  0.872701227664948
            FH (H=+mm)
                                  13.8170366287231
            AP (deg)
                                  -1.05240416526794
      Ang.
            RL (deg)
                                  -1.10846042633057
            FH (deg)
                                  4.89425134658813
EX_GEO_stacks_table_long_pos :
                                  2100000000
      Free rotatable
                                  NO
Minimum number of packages
                                  1
Slice scan order
                                  DEFAULT
Large table movement
                                  NO
PlanAlign
                                  NO
REST slabs
                                  0
    delay
                                  NO.
      Size AP (mm)
                                  171.363876342773
Shim
            RL (mm)
                                  129.150146484375
            FH (mm)
                                 113.97046661377
      Offc. AP (P=+mm) :
                                  -3.86548471450806
```

```
RL (L=+mm) :
                                -0.506013989448547
           FH (H=+mm)
                                15.580135345459
           AP (deg)
     Ang.
                                -1.97411704063416
           RL (deg)
                                -10.0008583068848
           FH (deg)
                                4.8738169670105
Shim volumes
                                1
EX TRACK tracking
                                NONE
Interactive positioning
                                NO.
External control :
                                NO
Allow table movement
                                NO.
Patient position :
                                HEAD FIRST
Patient orientation :
                                SUPINE
Scan type :
                                IMAGING
Scan mode
                                MS
                                SE
   technique :
Modified SE :
                                NO.
Acquisition mode :
                                CARTESIAN
Fast Imaging mode :
                                EPI
   shot mode :
                                SSH
Echoes
                                1
EX ACQ b0zshim enum :
                                DEFAULT
   partial echo :
                                NO.
TE
                                USER DEF
   :
    (ms):
                                53
Flip angle (deg)
                                90
TR:
                                USER_DEF
                                7775
    (ms):
Halfscan
                                YES
                                0.702127635478973
   factor :
Water-fat shift
                                MINIMUM
EX ACQ RF shim data :
                                Shim :
                                HOS_VOLUME
 Get shim and F0 from PRIDE :
                                NO
 Calculate shim now :
                                NO.
 FO Determination :
                                AUT0
 Χ
         shim value
                                0
 Υ
         shim value
                                0
 Ζ
         shim value
                                0
 Z2
         shim value
                                0
         shim value
 ZX
                                0
 ZY
         shim value
                                0
         shim value
 X2-Y2
                                0
         shim value
 2XY
                                0
 Z3
         shim value
                                0
         shim value
 Z2X
                                0
 Z2Y
         shim value
                                0
 Z(X2-Y2) shim value
                                0
         shim value
 2XYZ
                                0
 Х3
         shim value
                                0
 Y3
         shim value
                                0
 Shim offset freq :
                                0
```

```
Nav shim offset freq :
                           0
Navigator X shim value
                           0
Navigator Y shim value
                           0
Navigator Z shim value
                           0
ShimAlign
                           N<sub>0</sub>
                           N<sub>0</sub>
mDIXON
Fat suppression
                           NO
Grad Rev Fat suppr
                           YES
Water suppression :
                           NO.
BB pulse :
                           NONE
   shared:
                           N<sub>0</sub>
MTC
                           N<sub>0</sub>
Custom prepulse :
                           NO
Diffusion mode :
                           DTI
   sequence :
                           E
EX DIFF grad dur enum
                           MAXIMUM
   gradient overplus
                           NO.
   directional resolution :
                           LOW
EX DIFF array x
                           EX DIFF array y
                           EX DIFF array z
                           EX DIFF array b
   nr of b-factors
                           2
EX DIFF nr dti directions
                           1
EX DIFF nr dti vectors
                           EX DIFF weighting ix array
EX DIFF direction ix array
                           User defined DTI scheme
                           user defined
EX_DIFF_grad_factor
                           1
   nr of b-factors
                           2
   b-factor order :
                           LIN
   max b-factor :
                           1000
                           USER DEF
   average high b :
                           b-factor averages
                           NO.
MRE enable
Multi-transmit
                           N<sub>0</sub>
SAR mode :
                           HIGH
                           DEFAULT
B1 mode
EX_MULTIX_SAR_mode
                           AUT0
PNS mode
                           MODERATE
Gradient mode :
                           ENHANCED
SofTone mode
                           NO
Cardiac synchronization
                           NO
Heart rate > 250 bpm
                        NO
Respiratory compensation
                           NO
Navigator respiratory comp
                           0FF
   weighted gating :
                           NO.
Flow compensation :
                           NO
Temporal slice spacing
                           DEFAULT
NSA
```

```
Manual start
                                NO
EX_abuse_dyn_loop
                                NO
Dynamic study
                                N0
   dyn stabilization :
                                N<sub>0</sub>
Arterial Spin labeling :
                                N<sub>0</sub>
=====PR0C======
Preparation phases
                                AUT0
Interactive F0 :
                                NO
                                N<sub>0</sub>
Gradient demo :
                                NO
Pre scan
SmartPlan survey
                                NONE
EX ACQ whole body fat water
                                NO
EX ACQ BO map
                                N<sub>0</sub>
EX_ACQ_B1_map
                                N0
MIP/MPR
                                N0
                                MODULUS
Images
Autoview image
                                MODULUS
Calculated images
                                NO
EX TS reference tissue
                                GREY MATTER
EX_ACQ_epi_2d_phase_corr
                                NO
Recon compression
                                NONE
Recon compression
                                NONE
   Nr recon channels
                                8
EX PROC delrec fcc proc
                                PTIMIZED
Preset window contrast :
                                S0FT
EX PROC usdef coca
                                NO
EX_PROC_coca_acq_nrs
                                EX_PROC_coca_rec_nrs
EX PROC usdef coil survey
                                NO
                                EX_PROC_coil_survey_acq_nrs
                                EX_PROC_coil_survey_rec_nrs
                                PARALLEL
Reconstruction mode
Save raw data :
                                N<sub>0</sub>
Analyse with IQT
                                NO
EX_PROC_to_gyroview
                                NO
Hardcopy protocol :
                                N0
Image filter
                                DEFAULT
Geometry correction
                                DEFAULT
Viewable raw data
                                NO
=====PDF=======
                        _____
EX_conflict_suggestion
GEX CONV id :
                                0 31 1
GEX_CONV_ppde_update
                                0
GEX CONV made by philips
                                YES
GEX_CONV_applied_conversions
                                0 6 2 1 0 7 0 8 11 4 8 13 -1 1 -1 -1 -
GEX CONV base release
                                18
EX_GEO_voxel_size_conv_done
                                YES
EX PROC scan_pat_ref_id
                                541938977
EX_PROC_coca_patient_ref_ids
                                541938977 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coca nr channels :
                                32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coca nr stacks
                                2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
                                172.809295654297 10000 10000 10000 100
EX PROC coca edge dist pos
```

```
EX PROC coca edge dist neg : -179.551834106445 -10000 -10000 -10000
EX PROC senseref rfsh rx scls : 1 1 1 1 1 1 1 1
EX PROC senseref rfsh rx ph :
                      0 0 0 0 0 0 0 0
EX_PROC_coil surv rfsh rx scls : 1 1 1 1 1 1 1 1
EX PROC coil surv rfsh rx ph : 00000000
                      EX_PROC_sense_ref_qbc_stack :
EX PROC sense ref syn stack
                      EX GEO auto coils selected :
                      YES
EX_COIL_ui_use_review_mode :
                      YES
Total scan duration :
                      01:41.1
IF absolute SNR :
                      2.50316500663757
Rel. SNR :
                      0.403230905532837
Act. TR/TE (ms)
                      7775
Act. TE (ms)
                      53
                      96 x 93
ACQ matrix M x P
ACQ voxel MPS (mm)
                      2.50 / 2.56 / 2.50
                     2.50 / 2.50 / 2.50
REC voxel MPS (mm)
                      97.7272720336914
Scan percentage (%) :
Packages
Min. slice gap (mm)
Diff Gr (DELTA/delta(ms)) :
                      25.4 / 13.4
EPI factor :
                      43
WFS (pix) / BW (Hz)
                      11.979 / 36.3
BW in EPI freq. dir. (Hz)
                      3317.6
                      3654
Min. TR/TE (ms)
                      < 19 %
Head SAR
Whole body SAR / level :
                      0.0 W/kg / normal
SED
                        0.0 \text{ kJ/kg}
                      1.03 uT
B1+rms
                      1.03 uT
Max B1+rms :
PNS / level :
                      79 % / normal
                      37.1 T/s
dB/dt
                      12.959753036499
Sound Pressure Level (dB) :
```

Protocol Name: WIP_HARDI_60_2_5iso

Methodes Description:

Other Tags:

applicationMode : AGDEF APPL IMAGING

```
=====GE0METRY=====
Patient weight [kg]
                                  25
Nucleus
                                  Н1
SmartSelect
                                  AUTO
                                  0 1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
compacted :
                                  SENSE HEAD 32AH , SENSE HEAD 32P
compacted coils
compacted conns
                                  /CDAS.ConnPFEI/PFEI.ConnB , /CDAS.Conn
                                  65531 0 0 0 65535 0 0 0 0 0 0 0 0 0 0
stacks channels
clinical modes :
                                  SENSE HEAD 32P SENSE HEAD 32AH
compacted (exclude)
                                  -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
compacted coils (exclude)
compacted conns (exclude)
stacks channels (exclude)
                                  Uniformity :
                                  CLEAR
FOV (mm)
                                  240
FOV (mm)
                                  240
FOV (mm)
                                  125 250 250 250 250 250 250 250 250 25
ACQ voxel size
                 FH (mm)
                                  2.5
ACQ voxel size
                 FH (mm)
                                  2.5
                                  2.5
Slice thickness (mm)
                                  2.5
EX_PROC_recon_voxel_size
RF0V (%)
                                  100
EX_ACQ_small_fov
                                  NO.
Fold-over suppression
                                  N0
Matrix scan
                                  96
                                  96
       reconstruction
                                  100
Scan percentage (%) :
SENSE
                                  YES
    P reduction (AP)
                                  2
k-t Acceleration :
                                  N0
Stacks
                                  1
    type :
                                  PARALLEL STACK
Slices :
                                  50
                                  2.5
Slice thickness (mm)
                                  USER DEF
    slice gap
          gap (mm)
Slice orientation :
                                  TRANSVERSAL
Fold-over direction
                                  AP
Fat shift direction
Slice Offc. AP (P=+mm)
                                  -11.0084676742554
            RL (L=+mm)
                                  0.872701227664948
            FH (H=+mm)
                                  13.8170366287231
            AP (deg)
                                  -1.05240416526794
      Ang.
            RL (deg)
                                  -1.10846042633057
            FH (deg)
                                  4.89425134658813
EX GEO stacks table long pos
                                  2100000000
      Free rotatable
                                  N0
Minimum number of packages
                                  1
Slice scan order
                                  DEFAULT
Large table movement
                                  NO
PlanAlign
                                  N<sub>0</sub>
REST slabs :
                                  0
```

```
N0
    delay :
                                 171.363876342773
Shim Size AP (mm)
           RL (mm)
                                 129.150146484375
           FH (mm)
                                 113.97046661377
      Offc. AP (P=+mm)
                                 -3.86548471450806
           RL (L=+mm)
                                 -0.506013989448547
           FH (H=+mm)
                                 15.580135345459
           AP (deg)
RL (deg)
                                 -1.97411704063416
      Ang.
                                 -10.0008583068848
           FH (deg)
                                 4.8738169670105
                    :
Shim volumes
                                 1
EX_TRACK_tracking
                                 NONE
Interactive positioning
                                 N<sub>0</sub>
External control
                                 NO
Allow table movement
                                 NO.
Patient position :
                                 HEAD FIRST
Patient orientation
                                 SUPINE
Scan type
                                 IMAGING
Scan mode
                                 MS
                                 SE
    technique :
Modified SE :
                                 N0
Acquisition mode :
                                 CARTESIAN
Fast Imaging mode :
                                 EPI
    shot mode :
                                 SSH
Echoes
                                 1
EX_ACQ_b0zshim_enum
                                 DEFAULT
    partial echo
                                 NO
TE
                                 USER DEF
   :
                                 75
    (ms):
                                 90
Flip angle (deg) :
TR:
                                 USER DEF
    (ms):
                                 6525
Halfscan:
                                 YES
    factor :
                                 0.607843160629272
Water-fat shift
                                 MINIMUM
EX ACQ RF shim data
                                 Shim
                                 HOS VOLUME
 Get shim and F0 from PRIDE :
                                 NO
 Calculate shim now
                                 N<sub>0</sub>
 FO Determination :
                                 AUTO
 Χ
          shim value
                                 0
 Υ
          shim value
                                 0
 Ζ
          shim value
                                 0
 Z2
          shim value
                                 0
 ZX
          shim value
                                 0
 ZY
          shim value
                                 0
 X2-Y2
          shim value
                                 0
 2XY
         shim value
                                 0
 Z3
          shim value
                                 0
 Z2X
          shim value
                                 0
 Z2Y
          shim value
                                 0
```

```
Z(X2-Y2) shim value
                                  0
 2XYZ
          shim value
                                  0
 Х3
          shim value
                                  0
 Y3
          shim value
                                  0
 Shim offset freq
                                  0
                                  0
 Nav shim offset freq :
 Navigator X shim value
                                  0
 Navigator Y shim value
                                  0
 Navigator Z shim value
                                  0
                                  N<sub>0</sub>
ShimAlign
mDIXON
                                  N<sub>0</sub>
Fat suppression :
                                  NO
Grad Rev Fat suppr
                                  YES
Water suppression :
                                  NO
BB pulse
                                  NONE
                                  N<sub>0</sub>
    shared :
MTC
                                  NO
Custom prepulse :
                                  NO
Diffusion mode :
                                  DTI
                                  E
    sequence :
EX_DIFF_grad_dur_enum
                                  MAXIMUM
    gradient overplus
                                  NO
    directional resolution :
                                  FILE
                                  -0.796804666519165 -0.442713737487793
EX DIFF array x
EX DIFF array y
                                  0.485802829265594 -0.396112322807312 @
EX DIFF array z
                                  -0.359302073717117 -0.804425001144409
EX_DIFF_array_b
                                  0 2000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
                                  2
    nr of b-factors
EX_DIFF_nr_dti_directions
                                  60
EX_DIFF_nr_dti_vectors
                                  61
EX_DIFF_weighting_ix_array
                                  0 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 1
EX DIFF direction ix array
                                  user_def_conv (61, 2000)
User defined DTI scheme :
                                  1.00601375102997
EX_DIFF_grad_factor
    average high b
                                  USER_DEF
                                  b-factor averages
                                  N<sub>0</sub>
MRE enable
Multi-transmit
                                  NO
SAR mode
                                  HIGH
B1 mode
                                  DEFAULT
EX_MULTIX_SAR_mode
                                  AUT0
PNS mode :
                                  MODERATE
Gradient mode :
                                  ENHANCED
SofTone mode
                                  NO
=====MOTION======
Cardiac synchronization
                                  N0
Heart rate > 250 bpm
                               N0
Respiratory compensation :
                                  NO
Navigator respiratory comp
                                  0FF
    weighted gating
                                  NO
Flow compensation
                                  NO.
                                  DEFAULT
Temporal slice spacing
```

```
NSA:
                                1
=====DYNANG======
Manual start
                                N0
EX_abuse_dyn_loop
                                N0
Dynamic study :
                                N<sub>0</sub>
   dyn stabilization
                                NO
Arterial Spin labeling
                                N<sub>0</sub>
=====PR0C=====
                                AUTO
Preparation phases
Interactive F0
                                NO
Gradient demo
                                NO
Pre scan
                                NO
                                NONE
SmartPlan survey
EX_ACQ_whole_body_fat_water
                                NO
EX ACQ B0 map
                                NO
EX ACQ B1 map
                                N<sub>0</sub>
MIP/MPR
                                NO
                                MODULUS
Images
Autoview image
                                MODULUS
Calculated images
                                NO
EX_TS_reference_tissue
                                GREY MATTER
EX_ACQ_epi_2d_phase_corr
                                NO
Recon compression
                                NONE
Recon compression
                                NONE
   Nr recon channels
                                8
                                PTIMIZED
EX PROC delrec fcc proc
Preset window contrast
                                S0FT
EX_PROC_usdef_coca
EX_PROC_coca_acq_nrs
                                EX_PROC_coca_rec_nrs
EX_PROC_usdef_coil_survey
                                NO.
                                EX PROC coil survey acq nrs
EX_PROC_coil_survey_rec_nrs
                                Reconstruction mode
                                PARALLEL
Save raw data
                                N0
Analyse with IQT
                                N0
EX_PROC_to_gyroview
                                N<sub>0</sub>
Hardcopy protocol
                                NO
Image filter
                                DEFAULT
Geometry correction
                                DEFAULT
Viewable raw data
                                NO
=====PDF=====
EX_conflict_suggestion
GEX CONV id :
                                0 31 1
GEX_CONV_ppde_update
                                0
GEX_CONV_made_by_philips
                                YES
GEX_CONV_applied_conversions
                                0 6 2 1 0 7 0 8 11 4 8 13 -1 1 -1 -1 -
GEX CONV base release
                                18
EX_GEO_voxel_size_conv_done
                                YES
EX PROC_scan_pat_ref_id
                                541938977
EX PROC coca patient ref ids
                                541938977 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coca nr channels :
                                32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
```

```
2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coca nr stacks
EX_PROC_coca_edge_dist_neg :
EX_PROC_sensors
                           172.809295654297 10000 10000 10000 100
EX_PROC_coca_edge_dist_pos :
                           -179.551834106445 -10000 -10000 -10000
EX PROC senseref rfsh rx scls : 1 1 1 1 1 1 1 1
                           0 0 0 0 0 0 0 0
EX PROC senseref rfsh rx ph :
EX_PROC_coil_surv_rfs\overline{h} r\overline{x} scls : 1 1 1 1 1 1 1 1
EX PROC coil surv rfsh rx ph
                           0 0 0 0 0 0 0 0
EX PROC sense ref qbc stack :
                           EX PROC sense ref syn stack
EX_PROC_coil_survey_nr_stacks : 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX GEO auto coils selected
                           YES
EX COIL ui use review mode
                           YES
Total scan duration :
                           07:17.2
IF absolute SNR :
                           1.99304974079132
Rel. SNR
                           0.321057230234146
Act. TR/TE (ms)
                           6525
Act. TE (ms)
                           75
ACQ matrix M \times P
                           96 x 94
                         2.50 / 2.55 / 2.50
2.50 / 2.50 / 2.50
ACQ voxel MPS (mm)
REC voxel MPS (mm)
Scan percentage (%) :
                          97.9166641235352
                           1
Packages
Min. slice gap (mm)
Diff Gr (DELTA/delta(ms)) :
                           36.4 / 26.3
User defined DTI scheme :
                           user def conv (61, 2000)
EPI factor
                           47
                           13.078 / 33.2
WFS (pix) / BW (Hz)
BW in EPI freq. dir. (Hz) :
                          3311.5
                           4818
Min. TR/TE (ms)
                           < 23 %
Head SAR
                           < 0.1 \text{ W/kg / normal}
Whole body SAR / level :
SED
                            0.0 \text{ kJ/kg}
                           1.12 uT
B1+rms
Max B1+rms :
                           1.12 uT
PNS / level :
                           78 % / normal
                           37.1 T/s
dB/dt
                           13.4398393630981
Sound Pressure Level (dB) :
```

Protocol Name: WIP dti 4min matchTE

Methodes Description:

Other Tags:

applicationMode : AGDEF_APPL_IMAGING

```
=====GE0METRY===============================
Patient weight [kg]
                                 25
Nucleus :
                                 H1
SmartSelect
                                 AUTO
                                 0 1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
compacted :
compacted coils
                                 SENSE HEAD 32AH , SENSE HEAD 32P
                                 /CDAS.ConnPFEI/PFEI.ConnB , /CDAS.Conn
compacted conns
                                 65531 0 0 0 65535 0 0 0 0 0 0 0 0 0 0
stacks channels :
clinical modes
                                 SENSE HEAD 32P SENSE HEAD 32AH
                                 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
compacted (exclude)
compacted coils (exclude)
compacted conns (exclude)
stacks channels (exclude)
                                 Uniformity :
                                 CLEAR
                                 240
FOV (mm)
FOV (mm)
                                 240
FOV (mm)
                                 125 250 250 250 250 250 250 250 250 25
                                 2.5
ACQ voxel size
                FH (mm)
ACQ voxel size
                FH (mm)
                                 2.5
Slice thickness (mm)
                                 2.5
EX PROC recon voxel size
                                 2.5
RF0V (%)
                                 100
EX ACQ small fov
                                 N0
Fold-over suppression
                                 NO.
Matrix scan
                                 96
       reconstruction :
                                 96
                                 100
Scan percentage (%) :
SENSE
                                 YES
    P reduction (AP) :
                                 2.20000004768372
k-t Acceleration :
                                 NO.
Stacks
                                 1
                                 PARALLEL STACK
    type :
Slices
                                 50
Slice thickness (mm)
                                 2.5
    slice gap :
                                 USER DEF
         gap (mm) :
Slice orientation :
                                 TRANSVERSAL
Fold-over direction :
                                 AP
Fat shift direction
Slice Offc. AP (P=+mm)
                                 -11.0084676742554
           RL (L=+mm)
                                 0.872701227664948
           FH (H=+mm)
                                 13.8170366287231
           AP (deg)
                                 -1.05240416526794
     Ang.
                                 -1.10846042633057
           RL (deg)
           FH (deg)
                                 4.89425134658813
                     :
EX GEO stacks table long pos :
                                 2100000000
      Free rotatable
                                 NO
Minimum number of packages :
                                 1
Slice scan order :
                                 DEFAULT
```

```
Large table movement
                                 NO
PlanAlign
                                 NO.
REST slabs
                                 0
    delay :
                                 NO.
Shim Size AP (mm)
                                 171.363876342773
           RL (mm)
                                 129.150146484375
           FH (mm)
                                 113.97046661377
     Offc. AP (P=+mm)
                                 -3.86548471450806
                                 -0.506013989448547
           RL (L=+mm)
           FH (H=+mm)
                                 15.580135345459
     Ang.
           AP (deg)
                                 -1.97411704063416
           RL (deg)
                                 -10.0008583068848
           FH (deg)
                                 4.8738169670105
Shim volumes
                                 1
EX_TRACK_tracking
                                 NONE
Interactive positioning
                                 NO.
External control
                                 NO
Allow table movement
                                 NO.
Patient position
                                 HEAD FIRST
Patient orientation
                                 SUPINE
Scan type
                                 IMAGING
Scan mode
                                 MS
                                 SE
    technique :
Modified SE :
                                 NO
Acquisition mode :
                                 CARTESIAN
Fast Imaging mode :
                                 EPI
    shot mode
                                 SSH
Echoes
                                 1
EX_ACQ_b0zshim_enum
                                 DEFAULT
    partial echo
                                 NO
TE
                                 USER DEF
   :
    (ms):
                                 75
                                 90
Flip angle (deg)
TR:
                                 USER_DEF
    (ms)
                                 6300
Halfscan
                                 YES
    factor
                                 0.702127635478973
Water-fat shift
                                 MINIMUM
EX ACQ RF shim data
                                 HOS_VOLUME
Shim :
 Get shim and F0 from PRIDE
                                 NO
 Calculate shim now
                                 NO
 FO Determination
                                 AUTO
 Χ
         shim value
                                 0
 Υ
         shim value
                                 0
 Ζ
         shim value
                                 0
 Z2
         shim value
                                 0
 ZX
         shim value
                                 0
         shim value
 ZY
                                 0
 X2-Y2
         shim value
                                 0
         shim value
                                 0
 2XY
```

```
Z3
        shim value
                            0
Z2X
        shim value
                            0
Z2Y
        shim value
                            0
Z(X2-Y2) shim value
                            0
2XYZ
        shim value
                            0
X3
        shim value
                            0
Y3
        shim value
                            0
 Shim offset freq :
                            0
Nav shim offset freq
                            0
Navigator X shim value
                            0
Navigator Y shim value
                            0
Navigator Z shim value
                            0
ShimAlign
                            N<sub>0</sub>
mDIXON
                            NO
Fat suppression
                            NO.
Grad Rev Fat suppr
                            YES
Water suppression :
                            NO
BB pulse :
                            NONE
   shared :
                            N<sub>0</sub>
MTC
                            NO
Custom prepulse :
                            NO
Diffusion mode :
                            DTI
   sequence:
                            E
                            MAXIMUM
EX_DIFF_grad_dur_enum
   gradient overplus
                            NO
   directional resolution
                            HIGH
EX_DIFF_array_x
                            EX DIFF array_y
                            EX DIFF array z
                            EX_DIFF_array_b
                            2
   nr of b-factors
EX DIFF nr dti directions
                            1
EX_DIFF_nr_dti_vectors
                            1
EX DIFF weighting ix array
                            EX_DIFF_direction_ix_array
                            User defined DTI scheme
                            user defined
EX_DIFF_grad_factor
                            1
   nr of b-factors
                            2
   b-factor order
                            LIN
   max b-factor
                            1000
                            USER DEF
   average high b
                            b-factor averages
MRE enable
                            NO
Multi-transmit
                            N<sub>0</sub>
SAR mode
                            HIGH
B1 mode
                            DEFAULT
EX_MULTIX_SAR_mode
                            AUT0
PNS mode
                            MODERATE
Gradient mode :
                            ENHANCED
SofTone mode
                            NO
=====MOTION=======
                        _____
Cardiac synchronization
                            NO
```

```
Heart rate > 250 bpm
                          N0
Respiratory compensation
                            NO
Navigator respiratory comp
                            0FF
   weighted gating :
                            NO
Flow compensation
                            NO.
                            DEFAULT
Temporal slice spacing
NSA:
                            1
Manual start :
                            NO
EX_abuse_dyn_loop
                            NO.
Dynamic study
                            N<sub>0</sub>
                            N<sub>0</sub>
   dyn stabilization :
Arterial Spin labeling :
                            N<sub>0</sub>
Preparation phases :
                            SAMEPREP
Interactive F0 :
                            NO.
Gradient demo :
                            NO
Pre scan
                            NO.
SmartPlan survey
                            NONE
EX ACQ whole body fat water
                            NO
EX ACQ B0 map
                            N0
EX ACQ B1 map
                            NO
MIP/MPR
                            NO.
Images
                            MODULUS
Autoview image :
                            MODULUS
Calculated images
                            NO
EX TS reference tissue :
                            GREY MATTER
EX_ACQ_epi_2d_phase_corr :
                            N0
Recon compression
                            NONE
Recon compression
                            NONE
   Nr recon channels
EX PROC_delrec_fcc_proc
                            PTIMIZED
Preset window contrast :
                            S0FT
EX_PROC_usdef_coca
                            NO
EX_PROC_coca_acq_nrs
                            EX PROC coca rec nrs
EX PROC usdef coil survey :
                            NO.
EX PROC_coil_survey_acq_nrs
                            EX_PROC_coil_survey_rec_nrs
                            Reconstruction mode
                            PARALLEL
Save raw data
                            NO
Analyse with IQT
                            NO
EX PROC to gyroview
                            NO
Hardcopy protocol :
                            NO
Image filter :
                            DEFAULT
Geometry correction :
                            DEFAULT
Viewable raw data
                            NO
=====PDF=======
                      -----
EX_conflict_suggestion :
                            0 31 1
GEX CONV id :
GEX_CONV_ppde_update :
                            0
GEX CONV made by philips
                            YES
```

```
0 6 2 1 0 7 0 8 11 4 8 13 -1 1 -1 -1 -
GEX CONV applied conversions
GEX CONV base release
                              18
EX GEO voxel size conv done
                              YES
EX PROC scan pat ref id
                              541938977
                              541938977 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coca patient ref ids
EX PROC coca nr channels :
                              32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coca nr stacks
                              2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coca edge dist pos
                              172.809295654297 10000 10000 10000 100
EX PROC coca edge dist neg
                              -179.551834106445 -10000 -10000 -10000
EX PROC senseref rfsh rx scls
                              1 1 1 1 1 1 1 1
                          :
EX PROC_senseref_rfsh_rx_ph
                              0 0 0 0 0 0 0 0
EX PROC coil surv rfsh rx scls : 1 1 1 1 1 1 1 1
EX PROC coil surv rfsh rx ph
                              0 0 0 0 0 0 0 0
EX_PROC_sense_ref_qbc_stack
                              EX PROC sense ref syn stack
                              :0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coil survey pat ref ids
EX PROC coil_survey_nr_channels
                             EX PROC coil survey nr stacks
                          :
                             EX PROC coil survey qbc stack
                          : 011111111111111111111
EX PROC_coil_survey_syn_stack
EX GEO auto coils selected
                              YES
EX COIL ui use review_mode
                              YES
Total scan duration
                              04:05.7
IF absolute_SNR
                              2.00083494186401
Rel. SNR :
                              0.322311341762543
Act. TR/TE (ms)
                              6300
Act. TE (ms)
                              75
                              96 x 93
ACQ matrix M x P
ACQ voxel MPS (mm)
                              2.50 / 2.56 / 2.50
REC voxel MPS (mm)
                              2.50 / 2.50 / 2.50
                              97.7272720336914
Scan percentage (%) :
Packages
                              1
Min. slice gap (mm)
Diff Gr (DELTA/delta(ms))
                              36.4 / 24.4
EPI factor :
                              43
WFS (pix) / BW (Hz)
                              11.979 / 36.3
BW in EPI freq. dir. (Hz)
                              3317.6
                              4754
Min. TR/TE (ms)
Head SAR
                              < 24 %
                              < 0.1 \text{ W/kg / normal}
Whole body SAR / level :
SED:
                                0.0 \text{ kJ/kg}
B1+rms
                              1.14 uT
Max B1+rms
                              1.14 uT
                              79 % / normal
PNS / level :
                              36.8 T/s
dB/dt
Sound Pressure Level (dB) :
                              13.3786354064941
```

Protocol Name: Ax-B0map

```
Methodes Description:
methodDescription :
                     TRA
                            FFE
                                 448
                                           7.3
                                                  90
Other Tags:
applicationMode : AGDEF APPL IMAGING
linkState : false
laterality : unpaired
 Patient weight [kg] :
                                  25
 Nucleus
                                 H1
 SmartSelect :
                                 AUTO
                                 0 1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
 compacted :
 compacted coils
                                 SENSE HEAD 32AH , SENSE HEAD 32P
                                 /CDAS.ConnPFEI/PFEI.ConnB , /CDAS.Conn
 compacted conns
                                 65531 0 0 0 65535 0 0 0 0 0 0 0 0 0 0
 stacks channels
                                 SENSE HEAD 32P SENSE HEAD 32AH
 clinical modes :
                                 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
 compacted (exclude)
 compacted coils (exclude)
 compacted conns (exclude)
 stacks channels (exclude) :
                                 Uniformity:
                                 CLEAR
 FOV (mm)
                                 240
 FOV (mm)
                                 240
 FOV (mm)
                                 125 250 250 250 250 250 250 250 250 25
 ACQ voxel size
                 FH (mm)
                                 3
 ACQ voxel size
                 FH (mm)
                                 3
 Slice thickness (mm) :
                                 2.5
 EX PROC recon voxel size
                                 1.875
 RF0V (%)
                                 100
 Fold-over suppression
                                 NO
 Matrix scan :
                                 80
        reconstruction :
                                 128
                                 100
 Scan percentage (%) :
 SENSE :
                                 NO
 k-t Acceleration :
                                 N<sub>0</sub>
 Stacks:
                                 1
                                 PARALLEL STACK
     type :
 Slices
                                 50
 Slice thickness (mm)
                                 2.5
                                 USER DEF
     slice gap :
           gap (mm) :
 Slice orientation :
                                 TRANSVERSAL
 Fold-over direction :
                                 LR
 Fat shift direction
 Slice Offc. AP (P=+mm) :
                                 -11.0084676742554
             RL (L=+mm) :
                                 0.872701227664948
             FH (H=+mm) :
                                 13.8170366287231
```

```
-1.05240416526794
      Ang. AP (deg) :
            RL (deg)
                                  -1.10846042633057
            FH (deg)
                                  4.89425134658813
EX GEO stacks table long pos
                                  2100000000
      Free rotatable
                                  NO
Minimum number of packages
                                  1
Slice scan order
                                  DEFAULT
Large table movement
                                  NO.
                                  N<sub>0</sub>
PlanAlign :
REST slabs :
                                  0
    delay :
                                  NO
      Size AP (mm)
                                  171.363876342773
Shim
            RL (mm)
                                  129.150146484375
            FH (mm)
                                  113.97046661377
      Offc. AP (P=+mm) :
                                  -3.86548471450806
            RL (L=+mm)
                                  -0.506013989448547
            FH (H=+mm)
                                  15.580135345459
      Ang.
            AP (deg)
                                  -1.97411704063416
            RL (deg)
                                  -10.0008583068848
            FH (deg)
                                  4.8738169670105
Shim volumes
                                  1
EX_TRACK_tracking :
                                  NONE
Interactive positioning
                                  NO.
External control :
                                  N<sub>0</sub>
Allow table movement
                                  NO
Patient position :
                                  HEAD FIRST
Patient orientation
                                  SUPINE
=====CONTRAST======
Scan type
                                  IMAGING
Scan mode :
                                  MS
                                  FFE
    technique
Contrast enhancement
                                  N0
Acquisition mode :
                                  CARTESIAN
Fast Imaging mode :
                                  NO
Echoes
                                  1
EX ACQ b0zshim enum
                                  DEFAULT
    partial echo
                                  NO.
    shifted echo :
                                  NO
TE
                                  SHORTEST
Flip angle (deg)
                                  30
                                  SHORTEST
TR:
Halfscan
                                  NO
Water-fat shift :
                                  MUMIXAM
EX ACQ RF shim data
                                  Shim
                                  HOS VOLUME
 Get shim and F0 from PRIDE
                                  NO
 Calculate shim now
                                  NO
                                  AUTO
 FO Determination
 Χ
          shim value
                                  0
 Υ
          shim value
                                  0
 Z
          shim value
                                  0
 Z2
          shim value
                                  0
```

```
ZX
         shim value
                               0
 ZY
         shim value
                               0
 X2-Y2
         shim value
                               0
 2XY
         shim value
                               0
 Z3
         shim value
                               0
 Z2X
         shim value
                               0
 Z2Y
         shim value
                               0
 Z(X2-Y2) shim value
                               0
 2XYZ
         shim value
                               0
 Х3
         shim value
                               0
 Y3
         shim value
                               0
 Shim offset freq :
                               0
 Nav shim offset freq
                               0
 Navigator X shim value
                               0
 Navigator Y shim value
                               0
 Navigator Z shim value
                               0
ShimAlign
                               NO
mDIXON
                               N<sub>0</sub>
Fat suppression
                               N<sub>0</sub>
Water suppression :
                               NO.
   shared
                               N0
MTC
                               NO
Custom prepulse
                               NO.
Diffusion mode
                               N0
EX DIFF array x
                               EX DIFF array y
                                 EX_DIFF_array_z
                               EX DIFF array b
   nr of b-factors
EX DIFF nr dti directions
                               1
EX_DIFF_nr_dti_vectors
                               1
                               EX DIFF weighting ix array
EX DIFF direction ix array
                               User defined DTI scheme :
                               user defined
EX_DIFF_grad_factor
                               1
MRE enable
                               N<sub>0</sub>
Multi-transmit
                               N<sub>0</sub>
SAR mode
                               HIGH
B1 mode
                               DEFAULT
EX MULTIX SAR mode
                               AUT0
PNS mode
                               LOW
Gradient mode :
                               DEFAULT
SofTone mode
                               N<sub>0</sub>
=====MOTION=====
Cardiac synchronization
                               N<sub>0</sub>
Heart rate > 250 bpm
                            NO
Respiratory compensation
                               NO
Navigator respiratory comp
                               0FF
   weighted gating :
                               NO
Flow compensation
                               NO
Temporal slice spacing
                               DEFAULT
fMRI echo stabilisation
                               NO
```

```
NSA:
                                 1
=====DYNANG========
Angio / Contrast enh.
                                 N0
Quantitative flow
                                 NO
Manual start :
                                 N<sub>0</sub>
EX_abuse_dyn_loop
                                 NO
Dynamic study
                                 N<sub>0</sub>
Arterial Spin labeling
                                 N<sub>0</sub>
=====PR0C===========
Preparation phases
                                 AUT0
Interactive F0:
                                 NO
                                 N<sub>0</sub>
Gradient demo :
                                 N<sub>0</sub>
Pre scan
SmartPlan survey :
                                 NONE
EX ACQ whole body fat water
                                 NO
EX_ACQ_B0_map
                                 YES
EX_ACQ_B0_map_delta_TE
                                 1
EX ACQ B1 map :
                                 NO
MIP/MPR
                                 N<sub>0</sub>
SWIp :
                                 NO
Images
                                 MODULUS
Autoview image
                                 MODULUS
Calculated images
                                 B0
EX_TS_reference_tissue
                                 GREY MATTER
Recon compression
                                 NONE
Recon compression
                                 NONE
    Nr recon channels
EX_PROC_delrec_fcc_proc
                                 PTIMIZED
Preset window contrast :
                                 S0FT
EX_PROC_usdef_coca
                                 N0
EX_PROC_coca_acq_nrs
                                 EX PROC coca rec nrs
EX_PROC_usdef_coil_survey :
                                 NO.
                                 EX_PROC_coil_survey_acq_nrs
EX_PROC_coil_survey_rec_nrs
                                 Reconstruction mode
                                 REAL TIME
Save raw data
                                 N<sub>0</sub>
                                 NO
Analyse with IQT
EX_PROC_to_gyroview
                                 NO
Hardcopy protocol
                                 NO
Image filter :
                                 DEFAULT
                                 DEFAULT
Geometry correction :
Viewable raw data
                                 N<sub>0</sub>
=====PDF======
EX_conflict_suggestion
                                 0
GEX CONV id :
                                 0 31 1
GEX_CONV_ppde_update
                                 0
GEX CONV made by philips
                                 YES
GEX_CONV_applied_conversions
                                 0 6 2 1 0 7 0 8 11 4 8 13 -1 1 -1 -1 -
GEX CONV base release
                                 18
EX GEO voxel size conv done
                                 YES
EX PROC scan pat ref id
                                 541938977
```

```
541938977 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coca patient ref ids :
                             32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX_PROC_coca_nr_channels :
                             2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coca nr stacks
                             10000 10000 10000 10000 10000 10000 10
EX PROC coca edge dist pos
                             -10000 -10000 -10000 -10000 -10000 -10
EX PROC coca edge dist neg
EX PROC senseref rfsh rx scls :
                            1 1 1 1 1 1 1 1
EX PROC senseref rfsh rx ph
                             0 0 0 0 0 0 0 0
EX PROC coil surv rfsh rx scls : 1 1 1 1 1 1 1 1
EX PROC coil surv rfsh rx ph
                             0 0 0 0 0 0 0 0
                             EX PROC sense ref qbc stack
                             EX PROC sense ref syn stack
EX PROC coil survey pat ref ids
                            :541938977 0 0 0 0 0 0 0 0 0 0 0 0 0 0
                            :32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coil survey nr channels
EX_PROC_coil_survey_nr_stacks
                         : 2000000000000000000000
                         EX PROC coil survey qbc stack
EX GEO auto coils selected :
                             YES
EX COIL ui use review mode
                            YES
Total scan duration :
                             00:57.3
IF absolute SNR :
                            7.15809726715088
Rel. SNR
                            1.15308654308319
Act. TR/TE (ms)
                             347 / 3.3
ACQ matrix M x P :
                            80 x 80
ACQ voxel MPS (mm) :
                            3.00 / 3.00 / 2.50
REC voxel MPS (mm)
                            1.88 / 1.88 / 2.50
                             100
Scan percentage (%):
Packages
                             1
Min. slice gap (mm)
WFS (pix) / BW (Hz)
                             0.870 / 499.4
Min. WFS (pix) / Max. BW (Hz) : 0.175 / 2485.7
                             < 17 %
Head SAR
                             0.0 W/kg / normal
Whole body SAR / level :
SED
                              0.0 \text{ kJ/kg}
                             0.98 uT
B1+rms
                             0.98 uT
Max B1+rms :
                             44 % / normal
PNS / level :
                             48.7 T/s
dB/dt
     :
                             23.1132183074951
Sound Pressure Level (dB) :
```

Protocol Name: ASL_BASELINE PGPP

Methodes Description:

Other Tags:

applicationMode : AGDEF APPL IMAGING

```
=====GE0METRY======
Patient weight [kg]
                                  25
Nucleus
                                  Н1
SmartSelect :
                                  AUTO
                                  0 1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
compacted :
                                  SENSE HEAD 32AH , SENSE HEAD 32P
compacted coils
                                  /CDAS.ConnPFEI/PFEI.ConnB , /CDAS.Conn
compacted conns
                                  65531 0 0 0 65535 0 0 0 0 0 0 0 0 0 0
stacks channels
                                  SENSE HEAD 32P SENSE HEAD 32AH
clinical modes :
                                  -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
compacted (exclude)
compacted coils (exclude)
compacted conns (exclude)
stacks channels (exclude)
                                  Uniformity :
                                  CLEAR
FOV (mm)
                                  240
FOV (mm)
                                  240
FOV (mm)
                                  127 250 250 250 250 250 250 250 250 25
ACQ voxel size
                 FH (mm)
                                  3.5
ACQ voxel size
                 FH (mm)
                                  3.5
Slice thickness (mm)
                                  7
EX_PROC_recon_voxel_size
                                  3
RF0V (%)
                                  100
Fold-over suppression
                                  NO.
Matrix scan
                                  68
       reconstruction :
                                  80
Scan percentage (%) :
                                  101.470588684082
SENSE
                                  YES
                                  2
    P reduction (AP)
k-t Acceleration :
                                  N<sub>0</sub>
Stacks :
                                  PARALLEL_STACK
    type :
Slices
                                  17
Slice thickness (mm)
                                   7
    slice gap :
                                  USER DEF
          gap (mm)
                                  0.5
                                  TRANSVERSAL
Slice orientation :
Fold-over direction :
                                  AP
Fat shift direction
Slice Offc. AP (P=+mm)
                                   -11.5681705474854
            RL (L=+mm)
                                  0.872701227664948
            FH (H=+mm)
                                  10.4587621688843
            AP (deg)
                                  0
      Ang.
            RL (deg)
                                  0
            FH (deg)
                                  0
EX_GEO_stacks_table_long_pos
                                  2100000000
      Free rotatable
                                  N0
Minimum number of packages
                                  1
                                  ASCEND
Slice scan order
Large table movement
                                  N<sub>0</sub>
PlanAlign :
                                  N0
REST slabs :
                                  0
                                  N<sub>0</sub>
    delay :
```

```
EX TRACK tracking :
                                  NONE
Interactive positioning :
                                  NO
External control :
                                  NO
Allow table movement
                                  NO
Patient position
                                  HEAD FIRST
Patient orientation :
                                  SUPINE
Scan type
                                  IMAGING
Scan mode
                                  MS
    technique :
                                  FFE
Contrast enhancement
                                  N0
Acquisition mode :
                                  CARTESIAN
Fast Imaging mode :
                                  EPI
    shot mode :
                                  SSH
Echoes
                                  1
EX_ACQ_b0zshim_enum
                                  DEFAULT
    partial echo :
                                  NO
    shifted echo :
                                  NO.
TE
                                  SHORTEST
Flip angle (deg)
                                  90
TR:
                                  USER DEF
    (ms):
                                  4075
Halfscan
                                  NO.
Water-fat shift
                                  MINIMUM
EX_ACQ_RF_shim_data
                                  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Shim :
                                  AUT0
 Get shim and F0 from PRIDE :
                                  N<sub>0</sub>
 Calculate shim now
                                  NO
 FO Determination :
                                  AUTO
          shim value
 Χ
                                  0
 Υ
          shim value
                                  0
          shim value
 Ζ
                                  0
 Z2
          shim value
                                  0
 ZX
          shim value
                                  0
 ΖY
          shim value
                                  0
 X2-Y2
         shim value
                                  0
 2XY
         shim value
                                  0
 Z3
          shim value
                                  0
 Z2X
          shim value
                                  0
 Z2Y
          shim value
                                  0
 Z(X2-Y2) shim value
                                  0
 2XYZ
          shim value
                                  0
 Х3
          shim value
                                  0
          shim value
 Y3
                                  0
 Shim offset freq :
                                  0
 Nav shim offset freq
                                  0
 Navigator X shim value
                                  0
 Navigator Y shim value
                                  0
 Navigator Z shim value
                                  0
mDIXON
                                  NO
Fat suppression :
                                  SPIR
                                  STRONG
   strength :
```

```
frequency offset :
                            DEFAULT
Water suppression
                            NO.
   shared
                            NO
MTC
                            NO.
Custom prepulse
                            NO.
Diffusion mode
                            NO.
EX DIFF array x
                            EX DIFF array y
                            EX DIFF array z
                            EX DIFF array b
                            nr of b-factors
                            2
EX DIFF nr dti directions
                            1
EX DIFF nr_dti_vectors
                             1
                            EX DIFF weighting ix array
                            EX DIFF direction ix array
User defined DTI scheme :
                            user defined
EX DIFF grad factor :
                            1
MRE enable
                            N<sub>0</sub>
Multi-transmit
                            NO
SAR mode
                            HIGH
B1 mode
                            DEFAULT
EX MULTIX SAR mode
                            AUT0
PNS mode :
                            MODERATE
Gradient mode :
                            DEFAULT
SofTone mode :
                            NO
=====MOTION======
Cardiac synchronization
                            N0
                          N0
Heart rate > 250 bpm
Respiratory compensation
                            NO
Navigator respiratory comp
                            0FF
   weighted gating :
                            NO
Flow compensation :
                            YES
Temporal slice spacing
                            MINIMAL
fMRI echo stabilisation :
                            NO
NSA
                            1
Angio / Contrast enh.
                            NO.
Quantitative flow
                            NO
Manual start
                            YES
EX abuse dyn loop
                            NO.
Dynamic study
                            INDIVIDUAL
   dyn scans
                            30
   recon multiplier
                            1
   dyn scan times
                            SHORTEST
   fov time mode :
                            VOXEL
   dummy scans :
                            0
   immediate subtraction
                            NO
   fast next scan
                            N<sub>0</sub>
   synch. ext. device :
                            NO
   dyn stabilization
                            REGULAR
   prospect. motion corr.
                            NO.
                            N<sub>0</sub>
Keyhole
```

```
Arterial Spin labeling :
                              pCASL
     label type
                              PARALLEL
     label distance (mm) :
                              90
     label location :
                              F
EX FLL casl dur :
                              1650
     label delay (ms) :
                              1600
     vascular crushing :
                              NO
                              YES
     back. supp.
     back. supp. pulses :
                              1710 2860 0 0 0
Preparation phases :
                              AUTO
Interactive F0
                              N<sub>0</sub>
Gradient demo :
                              N<sub>0</sub>
Pre scan
                              NO
SmartPlan survey
                              NONE
EX ACQ whole body fat water
                              N<sub>0</sub>
EX_ACQ_B0_map
                              NO
EX ACQ B1 map
                              NO
MIP/MPR
                              NO
SWIp :
                              NO
Images
                              MODULUS
Autoview image :
                              MODULUS
Calculated images
                              NO
EX TS reference tissue :
                              GREY MATTER
EX ACQ epi 2d phase corr
                              NO
Recon compression
                              NONE
Recon compression
                              NONE
   Nr recon channels
EX_PROC_delrec_fcc_proc
                              PTIMIZED
Preset window contrast :
                              S0FT
EX_PROC_usdef_coca
                              NO
EX PROC coca_acq_nrs
                              EX_PROC_coca_rec_nrs
                              EX_PROC_usdef_coil_survey :
                              N0
EX_PROC_coil_survey_acq_nrs
                              EX PROC coil survey rec nrs :
                             REAL_TIME
Reconstruction mode
                              N<sub>0</sub>
   reuse memory
Save raw data
                              N0
Analyse with IQT
                              N<sub>0</sub>
EX_PROC_to_gyroview
                              N0
Hardcopy protocol :
                              NO
Image filter
                              DEFAULT
Geometry correction :
                              DEFAULT
Viewable raw data
                              N0
EX_conflict_suggestion :
GEX CONV id :
                              0 31 1
GEX_CONV_ppde_update :
                              0
GEX CONV made by philips
                             YES
GEX CONV applied conversions :
                              0 6 2 1 0 7 0 8 11 4 8 13 -1 1 -1 -1 -
GEX CONV base release :
                              18
```

```
EX GEO voxel size conv done
                             YES
EX PROC scan_pat_ref_id
                             541938977
                             541938977 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX_PROC_coca_patient_ref_ids
EX PROC coca nr channels :
                             32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
                             2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coca nr stacks
                             172.701461791992 10000 10000 10000 100
EX PROC coca edge dist pos
EX PROC coca edge dist neg
                             -178.298538208008 -10000 -10000 -10000
EX PROC senseref rfsh rx scls
                           :
                             1 1 1 1 1 1 1 1
EX PROC senseref rfsh rx ph
                             0 0 0 0 0 0 0 0
                           : 1 1 1 1 1 1 1 1
EX PROC coil surv rfsh rx scls
EX PROC coil surv rfsh rx ph
                             0 0 0 0 0 0 0 0
                             EX PROC sense ref qbc stack
EX PROC sense ref syn stack
                             EX_PROC_coil_survey_pat_ref_ids
                             EX PROC coil survey nr channels
                             :0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coil survey nr stacks
                          :
                             EX PROC coil survey qbc stack
                           :
EX PROC coil survey syn stack
                             EX GEO auto coils selected
                             YES
EX COIL ui use review mode
                             YES
IF csks in use
                             10
                             04:12.3
Total scan duration
                             20.2635593414307
IF absolute SNR
Rel. SNR
                             3.26422476768494
Act. TR/TE (ms)
                             4075 / 16
Dyn. scan time
                             00:08.1
Time to k0
                             00:04.1
ACO matrix M x P
                             68 x 70
                             3.53 / 3.43 / 7.00
ACQ voxel MPS (mm)
                             3.00 / 3.00 / 7.00
REC voxel MPS (mm)
                             102.941177368164
Scan percentage (%)
Packages
                             1
Min. slice gap (mm)
                             0
                             35
EPI factor :
WFS (pix) / BW (Hz)
                             8.406 / 51.7
BW in EPI freq. dir. (Hz) :
                             3132.8
Min. WFS (pix) / Max. BW (Hz)
                             8.403 / 51.7
Min. TR/TE (ms)
                             3947 / 16
Head SAR
                                46 %
                             <
Whole body SAR / level
                             < 0.1 \text{ W/kg / normal}
SED:
                               0.0 \text{ kJ/kg}
B1+rms
                             1.59 uT
Max B1+rms
                             1.63 uT
PNS / level :
                             67 % / normal
                             66.0 T/s
dB/dt
Sound Pressure Level (dB) :
                             24.2172374725342
```

Protocol Name: ASL_M0 Ref

Methodes Description:

```
Other Tags:
applicationMode : AGDEF APPL IMAGING
linkState : false
laterality : unpaired
 Patient weight [kg] :
                                25
 Nucleus :
                                Н1
 SmartSelect :
                                AUT0
                                compacted
                                SENSE HEAD 32AH , SENSE HEAD 32P
 compacted coils
 compacted conns
                                /CDAS.ConnPFEI/PFEI.ConnB , /CDAS.Conn
 stacks channels
                                65531 0 0 0 65535 0 0 0 0 0 0 0 0 0 0
                                SENSE_HEAD_32P_SENSE_HEAD_32AH
 clinical modes
 compacted (exclude)
                                -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
 compacted coils (exclude) :
 compacted conns (exclude) :
                                stacks channels (exclude) :
 Uniformity :
                                CLEAR
                                240
 FOV (mm)
 FOV (mm)
                                240
 FOV (mm)
                                127 250 250 250 250 250 250 250 250 25
                FH (mm)
 ACQ voxel size
                                3.5
 ACQ voxel size
                                3.5
                FH (mm)
 Slice thickness (mm)
                                7
 EX_PROC_recon_voxel_size
                                3
 RFOV (%):
                                100
 Fold-over suppression :
                                N0
 Matrix scan
                                68
                                80
        reconstruction :
                                101.470588684082
 Scan percentage (%) :
 SENSE
                                YES
     P reduction (AP) :
                                2
 k-t Acceleration :
                                NO.
 Stacks:
                                1
                                PARALLEL STACK
     type :
 Slices
                                17
 Slice thickness (mm)
                                7
                                USER_DEF
     slice gap :
          gap (mm) :
                                0.5
                                TRANSVERSAL
 Slice orientation
 Fold-over direction :
                                AP
 Fat shift direction
 Slice Offc. AP (P=+mm) :
                                -11.5681705474854
            RL (L=+mm) :
                                0.872701227664948
            FH (H=+mm) :
                                10.4587621688843
```

```
AP (deg)
                                 0
      Ang.
            RL (deg)
                                 0
           FH (deg)
                                 0
EX GEO stacks table long pos
                                 2100000000
      Free rotatable
                                 N<sub>0</sub>
Minimum number of packages :
                                 1
Slice scan order
                                 ASCEND
Large table movement
                                 NO.
PlanAlign :
                                 N<sub>0</sub>
REST slabs :
                                 0
    delay
                                 N<sub>0</sub>
EX_TRACK_tracking :
                                 NONE
Interactive positioning
                                 N0
External control :
                                 NO
Allow table movement
                                 NO.
Patient position :
                                 HEAD FIRST
Patient orientation
                                 SUPINE
Scan type
                                 IMAGING
Scan mode :
                                 MS
    technique
                                 FFE
Contrast enhancement
                                 NO
Acquisition mode :
                                 CARTESIAN
Fast Imaging mode :
                                 EPI
    shot mode :
                                 SSH
Echoes
                                 1
EX_ACQ_b0zshim_enum
                                 DEFAULT
    partial echo
                                 NO
    shifted echo :
                                 NO
TE
                                 SHORTEST
Flip angle (deg) :
                                 90
TR:
                                 USER DEF
    (ms)
                                 20000
Halfscan
                                 NO
Water-fat shift
                                 MINIMUM
EX ACQ RF shim data
                                 Shim
                                 AUT0
 Get shim and F0 from PRIDE :
                                 NO.
 Calculate shim now
                                 NO
 FO Determination
                                 AUT0
 Χ
          shim value
                                 0
 Υ
          shim value
                                 0
          shim value
 Ζ
                                 0
 Z2
          shim value
                                 0
         shim value
 ZX
                                 0
 ZY
          shim value
                                 0
 X2-Y2
         shim value
                                 0
         shim value
 2XY
                                 0
 Z3
         shim value
                                 0
         shim value
 Z2X
                                 0
 Z2Y
         shim value
                                 0
 Z(X2-Y2) shim value
                                 0
```

```
2XYZ
        shim value
                            0
Х3
        shim value
                            0
Y3
        shim value
                            0
 Shim offset freq :
                            0
Nav shim offset freq
                            0
Navigator X shim value
                            0
Navigator Y shim value
                            0
Navigator Z shim value
                            0
mDIXON
                            NO
Fat suppression :
                            SPIR
  strength :
                            STRONG
  frequency offset :
                            DEFAULT
Water suppression :
                            N0
   shared:
                            NO
MTC
                            N<sub>0</sub>
Custom prepulse
                            NO
Diffusion mode :
                            NO.
EX DIFF array x
                            EX DIFF array y
                            EX DIFF array z
EX DIFF array b
                            nr of b-factors
                            2
EX DIFF nr dti directions
                            1
EX DIFF nr_dti_vectors
                            1
EX DIFF weighting ix array
                            EX DIFF direction ix array :
User defined DTI scheme :
                            user defined
EX_DIFF_grad_factor :
                            1
MRE enable
                            N<sub>0</sub>
Multi-transmit :
                            NO.
SAR mode :
                            HIGH
B1 mode :
                            DEFAULT
EX MULTIX SAR mode
                            AUT0
PNS mode :
                            MODERATE
Gradient mode :
                            DEFAULT
SofTone mode :
                            NO
Cardiac synchronization :
                            N0
                         N0
Heart rate > 250 bpm
Respiratory compensation :
                            NO.
Navigator respiratory comp
                            0FF
   weighted gating :
                            NO
Flow compensation
                            YES
Temporal slice spacing
                            MINIMAL
fMRI echo stabilisation :
                            NO
NSA :
=====DYNANG==============
Angio / Contrast enh.
                            NO.
Quantitative flow :
                            NO
Manual start
                            YES
EX abuse dyn loop
                            NO.
                            INDIVIDUAL
Dynamic study :
```

```
dyn scans :
                              1
                              1
   recon multiplier :
   dyn scan times :
                              SHORTEST
   fov time mode :
                              VOXEL
   dummy scans
                              0
   fast next scan
                              NO
   dyn stabilization
                              REGULAR
   prospect. motion corr.
                              N0
Keyhole
                              NO
                              N<sub>0</sub>
Arterial Spin labeling
Preparation phases :
                              SAMEPREP
Interactive F0 :
                              NO
Gradient demo :
                              NO
Pre scan
                              N0
SmartPlan survey :
                              NONE
EX_ACQ_whole_body_fat_water
                              NO
EX ACQ B0 map
                              N<sub>0</sub>
EX ACQ B1 map
                              N<sub>0</sub>
MIP/MPR
                              NO
SWIp
                              N0
Images
                              MODULUS
Autoview image
                              MODULUS
Calculated images
                              NO
EX TS reference tissue :
                              GREY MATTER
EX_ACQ_epi_2d_phase_corr
                              NO
Recon compression
                              NONE
Recon compression
                              NONE
   Nr recon channels
                              8
EX_PROC_delrec_fcc_proc
                              PTIMIZED
Preset window contrast :
                              S0FT
EX PROC usdef coca
                              N0
EX_PROC_coca_acq_nrs
                              EX_PROC_coca_rec_nrs
EX_PROC_usdef_coil_survey :
                              NO
EX PROC_coil_survey_acq_nrs
                              EX_PROC_coil_survey_rec_nrs
                              REAL_TIME
Reconstruction mode
   reuse memory
                              N0
                              N<sub>0</sub>
Save raw data
Analyse with IQT
                              NO
EX_PROC_to_gyroview
                              NO
Hardcopy protocol
                              NO
Image filter
                              DEFAULT
Geometry correction :
                              DEFAULT
Viewable raw data :
=====PDF=================
EX conflict suggestion :
                              0
GEX_CONV_id :
                              0 31 1
GEX_CONV_ppde_update
                              0
GEX_CONV_made_by_philips
                              YES
                              0 6 2 1 0 7 0 8 11 4 8 13 -1 1 -1 -1 -
GEX CONV applied conversions :
```

```
GEX CONV base release
                              18
                              YES
EX GEO voxel size conv done
EX PROC scan pat ref id
                              541938977
EX PROC coca patient ref ids
                           :
                              541938977 0 0 0 0 0 0 0 0 0 0 0 0 0 0
                              32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coca nr channels :
EX PROC coca nr stacks
                              2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coca edge dist pos
                              172.701461791992 10000 10000 10000 100
                              -178.298538208008 -10000 -10000 -10000
EX PROC coca edge dist neg
EX PROC senseref rfsh rx scls
                              1 1 1 1 1 1 1 1
                            :
EX PROC senseref rfsh rx ph
                              0 0 0 0 0 0 0 0
                            : 1 1 1 1 1 1 1 1
EX PROC coil surv rfsh rx scls
EX PROC coil surv rfsh rx ph
                              0 0 0 0 0 0 0 0
                              EX PROC sense ref qbc stack
EX_PROC_sense_ref_syn_stack
                              EX PROC coil survey pat ref ids
                             :0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coil survey nr channels
                             EX PROC coil survey nr stacks
                           :
EX PROC coil survey qbc stack
                              EX PROC coil survey syn stack
                              EX GEO auto coils selected
                              YES
EX COIL ui use review mode
                              YES
=====INFO======
Total scan duration
                              00:40.0
IF absolute SNR
                              21.6357097625732
Rel. SNR
                              3.02343440055847
Act. TR/TE (ms)
                              20000 / 13
Dyn. scan time
                              00:20.0
Time to k0
                              00:10.0
ACQ matrix M x P
                              68 x 70
ACQ voxel MPS (mm)
                              3.53 / 3.43 / 7.00
                              3.00 / 3.00 / 7.00
REC voxel MPS (mm)
                              102.941177368164
Scan percentage (%)
Packages
                              1
Min. slice gap (mm)
                              0
                              35
EPI factor :
WFS (pix) / BW (Hz)
                              8.406 / 51.7
BW in EPI freq. dir. (Hz) :
                              3132.8
Min. WFS (pix) / Max. BW (Hz)
                              8.403 / 51.7
                              570 / 13
Min. TR/TE (ms)
Head SAR
                                 2 %
                              <
                              0.0 W/kg / normal
Whole body SAR / level
SED:
                                0.0 \text{ kJ/kg}
B1+rms
                              0.31 uT
Max B1+rms
                              0.31 uT
PNS / level :
                              70 % / normal
                              66.0 T/s
dB/dt
Sound Pressure Level (dB) :
                              24.7019901275635
```

Protocol Name: 3DPCA_DEM_MJD

```
Methodes Description:
methodDescription : TRA
                           T1FFE 6.4
                                          3.6
                                                 12
Other Tags:
applicationMode : AGDEF APPL IMAGING
linkState : false
laterality : unpaired
 Patient weight [kg] :
                                 25
 Nucleus :
                                 H1
 SmartSelect :
                                 AUTO
                                 0 1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
 compacted :
 compacted coils :
                                 SENSE HEAD 32P , SENSE HEAD 32AH
                                 /CDAS.ConnPFEI/PFEI.ConnA , /CDAS.Conn
 compacted conns
                                 65535 0 0 0 63483 0 0 0 0 0 0 0 0 0 0
 stacks channels :
                                 SENSE HEAD 32P SENSE HEAD 32AH
 clinical modes :
                                 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
 compacted (exclude) :
 compacted coils (exclude) :
 compacted conns (exclude) :
 stacks channels (exclude) :
                                 Uniformity :
                                 CLEAR
 FOV (mm)
                                 180
 FOV (mm)
                                 180
 FOV (mm)
                                 75 75 75 75 75 75 75 75 75 75 75 75 75
 ACQ voxel size FH (mm)
                                 0.661764979362488
 ACQ voxel size
                 FH (mm) :
                                 0.661764979362488
 Slice thickness (mm) :
                                 0.5
 EX PROC recon voxel size :
                                 0.3515625
 RF0V (%)
                                 100
 Fold-over suppression :
                                 NO
 Slice oversampling :
                                 DEFAULT
 RF select. FOS
                                 NO.
 Matrix scan :
                                 272
        reconstruction :
                                 512
                                 78.5398178100586
 Scan percentage (%) :
 SENSE :
                                 YES
     P reduction (AP) :
                                 2
     S reduction (AP)
                                 1
 k-t Acceleration :
                                 NO.
 EX ACQ overcont slices :
                                 YES
 Stacks :
 Slices
                                 150
                                 0.5
 Slice thickness (mm) :
 Slice orientation :
                                 TRANSVERSAL
 Fold-over direction :
                                 LR
 Fat shift direction :
 Slice Offc. AP (P=+mm) :
                                 -7.6496262550354
```

```
RL (L=+mm) :
                                  0.872701227664948
            FH (H=+mm)
                                  -10.2538185119629
            AP (deg)
      Ang.
                                  -1.05240416526794
            RL (deg)
                                  -3.5425922870636
            FH (deg)
                                  4.89425134658813
EX GEO stacks table long pos :
                                  2100000000
      Free rotatable
                                  N0
Multi-chunk :
                                  N<sub>0</sub>
Large table movement
                                  N<sub>0</sub>
PlanAlign :
                                  N<sub>0</sub>
REST slabs :
                                  0
                                  NO.
    delay :
EX TRACK_tracking :
                                  NONE
Interactive positioning :
                                  NO
External control :
                                  NO.
Allow table movement :
                                  NO.
Patient position
                                  HEAD FIRST
Patient orientation
                                  SUPINE
Scan type
                                  IMAGING
Scan mode
                                  3D
                                  FFE
    technique :
    loop order :
                                  ZY
Contrast enhancement
                                  T1
Acquisition mode :
                                  CARTESIAN
Fast Imaging mode :
                                  NO.
    3D non-selective
                                  NO.
                                  1
Echoes
EX ACQ b0zshim enum
                                  DEFAULT
    partial echo :
                                  YES
    shifted echo :
                                  NO
                                  SHORTEST
TE :
Flip angle (deg)
                                  12
TR:
                                  SHORTEST
Halfscan
                                  NO
Water-fat shift :
                                  USER DEF
                                  0.899999976158142
     (pixels)
EX ACQ RF shim data
                                  Shim :
                                  DEFAULT
 Get shim and F0 from PRIDE :
                                  N<sub>0</sub>
 Calculate shim now :
                                  N<sub>0</sub>
 FO Determination :
                                  AUTO
 Χ
          shim value
                                  0
 Υ
          shim value
                                  0
 Ζ
          shim value
                                  0
 Z2
          shim value
                                  0
 ZX
          shim value
                                  0
 ZY
          shim value
                                  0
 X2-Y2
          shim value
                                  0
 2XY
          shim value
                                  0
 Z3
          shim value
                                  0
 Z2X
          shim value
                                  0
```

```
Z2Y
        shim value
                             0
Z(X2-Y2) shim value
                             0
2XYZ
        shim value
                             0
Х3
        shim value
                             0
Y3
        shim value
                             0
Shim offset freq
                             0
Nav shim offset freq
                             0
Navigator X shim value
                             0
Navigator Y shim value
                             0
Navigator Z shim value
                             0
mDIXON
                             N<sub>0</sub>
Fat suppression
                             NO
Water suppression
                             N0
   shared
                             NO
MTC
                             N<sub>0</sub>
Custom prepulse
                             N<sub>0</sub>
Diffusion mode :
                             NO.
EX DIFF array x
                             EX DIFF array y
                             EX DIFF array z
EX DIFF array b
                               nr of b-factors
                             2
EX DIFF nr dti directions
                             1
EX DIFF nr dti vectors
                             1
EX DIFF weighting ix array
                             EX DIFF direction ix array
User defined DTI scheme
                             user defined
EX_DIFF_grad_factor
                             1
MRE enable
                             N<sub>0</sub>
Multi-transmit
                             NO.
SAR mode
                             HIGH
B1 mode
                             USER DEF
   amplitude (uT)
                             10
EX MULTIX SAR_mode
                             AUT0
PNS mode
                             MODERATE
Gradient mode
                             DEFAULT
SofTone mode
                             N<sub>0</sub>
Cardiac synchronization
                             N0
Heart rate > 250 bpm
                          N0
Respiratory compensation
                             NO
Navigator respiratory comp
                             0FF
   weighted gating
                             NO
Flow compensation
                             YES
fMRI echo stabilisation
                             NO
NSA :
                             1
=====DYNANG=======
Angio / Contrast enh. :
                             PC
Quantitative flow
                             NO
                             RL AP_FH
PC flow directions
   uniform velocity
                             YES
                             50
   PC velocity (cm/s) :
```

```
Tone pulse :
                               N0
Manual start
                               NO
EX_abuse_dyn_loop
                               N0
Dynamic study
                               N<sub>0</sub>
Arterial Spin labeling :
                               N<sub>0</sub>
=====PR0C===========
Preparation phases
                               FULL
Interactive F0 :
                               N<sub>0</sub>
                               N<sub>0</sub>
Gradient demo :
                               NO
Pre scan
SmartPlan survey
                               NONE
EX ACQ whole body fat water
                               NO
EX ACQ B0 map
                               N<sub>0</sub>
EX_ACQ_B1_map
                               NO
MIP/MPR
                               MIP
   protocol :
                               compose
SWIp :
                               NO
Images
                               MODULUS
Autoview image
                               MODULUS
Calculated images
                               NO
EX_TS_reference_tissue :
                               BL00D
Recon compression
                               NONE
Recon compression
                               NONE
   Nr recon channels
EX_PROC_delrec_fcc_proc
                               PTIMIZED
Preset window contrast
                               S0FT
EX_PROC_usdef_coca
                               NO
EX_PROC_coca_acq_nrs
                               EX PROC coca rec nrs
                               EX_PROC_usdef_coil_survey :
                               NO
EX_PROC_coil_survey_acq_nrs
                               EX PROC coil survey rec nrs
Reconstruction mode
                               REAL_TIME
Save raw data
                               NO
Analyse with IQT
                               N<sub>0</sub>
EX_PROC_to_gyroview
                               N0
Hardcopy protocol :
                               NO
Image filter :
                               DEFAULT
Geometry correction
                               DEFAULT
EX PROC enable lpc
                               YES
Viewable raw data
                               NO
Elliptical k-space shutter :
                               DEFAULT
EX conflict suggestion :
GEX CONV id :
                               0 31 1
GEX_CONV_ppde_update
                               0
GEX_CONV_made_by_philips
                               YES
                               0 6 2 1 0 7 0 8 11 4 8 13 -1 1 -1 -1 -
GEX CONV applied conversions
GEX_CONV_base_release
                               18
EX GEO voxel size conv done :
                               YES
EX PROC scan pat ref id
                               541938977
EX PROC coca patient ref ids :
                               541938977 0 0 0 0 0 0 0 0 0 0 0 0 0 0
```

```
32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coca nr channels :
                           EX PROC coca nr stacks
EX PROC coca edge_dist_pos
                           179.942657470703 10000 10000 10000 100
EX PROC coca edge dist neg
                           -177.671371459961 -10000 -10000 -10000
                       : 11111111
EX PROC senseref rfsh rx scls
EX PROC senseref rfsh rx ph
                           0 0 0 0 0 0 0 0
EX PROC coil surv rfsh rx scls : 1 1 1 1 1 1 1 1
EX PROC coil surv rfsh rx ph
                           0 0 0 0 0 0 0 0
                           EX PROC sense ref qbc stack
EX PROC sense ref syn stack
                           EX PROC coil survey pat ref ids
                          :0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX_PROC_coil_survey_nr_channels
                          EX PROC coil survey nr stacks
                        : 000000000000000000000
                        EX_PROC_coil_survey_qbc_stack
EX GEO auto coils selected
                           YES
EX COIL ui use review_mode
                           YES
Total scan duration
                           04:31.8
IF absolute SNR
                           0.1588284522295
Rel. SNR
                           0.236801788210869
Act. TR/TE (ms)
                           6.6 / 3.8
ACQ matrix M x P
                           272 x 272
                           0.66 / 0.66 / 1.00
ACQ voxel MPS (mm)
                           0.35 / 0.35 / 0.50
REC voxel MPS (mm)
Scan percentage (%)
                           100
                           0.905 / 480.1
WFS (pix) / BW (Hz):
Min. WFS (pix) / Max. BW (Hz) : 0.743 / 584.9
Head SAR
                           < 18 %
Whole body SAR / level :
                           0.0 W/kg / normal
SED
                            0.0 \text{ kJ/kg}
B1+rms
                           1.00 uT
Max B1+rms
                           1.00 uT
                           56 % / normal
PNS / level :
                           49.2 T/s
dB/dt
                           16.3713531494141
Sound Pressure Level (dB) :
```

Protocol Name: VESSELWALL_T1VISTA 0.6iso

Methodes Description:

methodDescription : TRA TIR 2000 20 90

Other Tags:

applicationMode : AGDEF APPL IMAGING

lastModifiedTimeUtc : 2010-04-07 19:30:17.295

linkState : false
laterality : unpaired

```
=====GE0METRY=====
Patient weight [kg]
                                  25
Nucleus
                                  Н1
SmartSelect
                                  AUT0
                                  0 1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
compacted :
                                  SENSE HEAD 32P , SENSE HEAD 32AH
compacted coils
compacted conns
                                  /CDAS.ConnPFEI/PFEI.ConnA , /CDAS.Conn
                                  65535 0 0 0 65533 0 0 0 0 0 0 0 0 0 0
stacks channels
clinical modes :
                                  SENSE HEAD 32P SENSE HEAD 32AH
compacted (exclude)
                                   -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
compacted coils (exclude)
compacted conns (exclude)
stacks channels (exclude)
                                  Uniformity :
                                  CLEAR
FOV (mm)
                                  200
FOV (mm)
                                  166.265060424805
FOV (mm)
                                  45 119 119 119 119 119 119 119 119 119
ACQ voxel size
                 FH (mm)
                                  0.600000023841858
ACQ voxel size
                 FH (mm)
                                  0.600000023841858
Slice thickness (mm)
                                  0.5
                                  0.5
EX_PROC_recon_voxel_size
RF0V (%)
                                  83.1325302124023
Fold-over suppression
                                  NO.
Slice oversampling
                                  USER DEF
    oversample factor
                                  1.79999995231628
RF select. FOS
                                  NO.
                                  332
Matrix scan
                                  400
       reconstruction
                                  100.362319946289
Scan percentage (%)
SENSE
                                  YES
                                  1.5
    P reduction (AP)
    S reduction (AP)
                                  1
k-t Acceleration :
                                  NO
                                  YES
EX_ACQ_overcont_slices
Stacks
                                  1
Slices
                                  90
Slice thickness (mm)
                                  0.5
Slice orientation
                                  CORONAL
Fold-over direction
                                  LR
Fat shift direction
                                  F
Slice Offc. AP (P=+mm)
                                   -21.2796363830566
            RL (L=+mm)
                                  2.04197883605957
            FH (H=+mm)
                                  -9.3884801864624
            AP (deg)
                                  0.424369186162949
      Ang.
            RL (deg)
                                  18.9700660705566
            FH (deg)
                                  3.76726269721985
EX_GEO_stacks_table_long_pos
                                  2100000000
      Free rotatable
                                  NO
Multi-chunk
                                  N<sub>0</sub>
Large table movement
                                  N0
PlanAlign :
                                  N<sub>0</sub>
REST slabs :
                                  0
```

```
NO
   delay :
EX_TRACK_tracking :
                                NONE
Interactive positioning
                                NO
External control :
                                NO
Allow table movement
                                NO.
Patient position :
                                HEAD FIRST
Patient orientation
                                SUPINE
IMAGING
Scan type :
Scan mode :
                                3D
                                SE
   technique :
Modified SE :
                                NO
Acquisition mode :
                                CARTESIAN
Fast Imaging mode :
                                TSE
   3D VIEW :
                                NO.
   shot mode :
                                MSH
TSE factor :
                                56
   3D free factor :
                                YES
    startup echoes
                                6
   profile order :
                                LOW HIGH
   turbo direction :
                                YΖ
   DRIVE
                                ANTI
   ultrashort
                                ULTRA
   fid reduction :
                                DEFAULT
   3D non-selective
                                YES
Echoes
                                1
EX ACQ b0zshim enum
                                DEFAULT
   partial echo
                                NO
TE
                                SHORTEST
   :
                                35.5999984741211
    (ms):
Flip angle (deg) :
                                90
                                TISS_SPEC
Refocusing control
   signal plateau
                                BY MIN ANGLE
                                25
   angle (deg)
                                120 120
EX RFE max refoc angles
                                USER DEF
                                1500
    (ms)
Halfscan
                                NO
Water-fat shift
                                MINIMUM
EX ACQ RF shim data
                                DEFAULT
Shim :
 Get shim and F0 from PRIDE :
                                NO
 Calculate shim now :
                                N<sub>0</sub>
 FO Determination
                                AUT0
 Χ
         shim value
                                0
 Υ
         shim value
                                0
 Ζ
         shim value
                                0
 Z2
         shim value
                                0
 ZX
         shim value
                                0
 ZY
         shim value
                                0
 X2-Y2
         shim value
                                0
 2XY
         shim value
                                0
```

```
Z3
        shim value
                             0
 Z2X
        shim value
                             0
Z2Y
        shim value
                             0
Z(X2-Y2) shim value
                             0
2XYZ
        shim value
                             0
X3
        shim value
                             0
Y3
        shim value
                             0
 Shim offset freq :
                             0
Nav shim offset freq
                             0
Navigator X shim value
                             0
Navigator Y shim value
                             0
Navigator Z shim value
                             0
mDIXON
                             N<sub>0</sub>
Fat suppression :
                             NO
Grad Rev Fat suppr
                             N<sub>0</sub>
Water suppression :
                             NO
BB pulse :
                             NONE
   shared
                             N<sub>0</sub>
MTC
                             N<sub>0</sub>
T2prep
                             NO.
Custom prepulse
                             N0
EX LOLO enable
                             NO
Diffusion mode
                             NO.
EX DIFF array x
                             EX DIFF array y
                             EX DIFF_array_z
                             EX_DIFF_array_b
                             2
   nr of b-factors
{\sf EX\_DIFF\_nr\_dti\_directions}
                             1
EX DIFF nr dti vectors
                             1
EX_DIFF_weighting_ix_array
                             EX DIFF direction ix array
User defined DTI scheme :
                             user defined
EX DIFF grad_factor
                             1
MRE enable
                             N<sub>0</sub>
Multi-transmit
                             N<sub>0</sub>
SAR mode :
                             HIGH
                             DEFAULT
B1 mode
EX_MULTIX_SAR_mode
                             AUT0
PNS mode
                             MODERATE
Gradient mode :
                             MAXIMUM
SofTone mode
                             NO
Cardiac synchronization :
                             NO
Heart rate > 250 bpm
                          N0
Respiratory compensation
                             NO
Navigator respiratory comp :
                             0FF
   weighted gating
                             N<sub>0</sub>
Flow compensation :
                             N<sub>0</sub>
Motion smoothing
                             NO
NSA
                             1
```

```
CENTRA
                               NO
Manual start
                               NO
EX_abuse_dyn_loop
                               N0
Dynamic study
                               N<sub>0</sub>
Arterial Spin labeling :
                               N<sub>0</sub>
=====PR0C======
Preparation phases
                               AUT0
Interactive F0 :
                               NO
                               N<sub>0</sub>
Gradient demo :
                               NO
Pre scan
SmartPlan survey
                               NONE
EX ACQ whole body fat water
                               NO
EX ACQ BO map
                               N<sub>0</sub>
EX_ACQ_B1_map
                               NO
MIP/MPR
                               NO
                               MODULUS
Images
Autoview image
                               MODULUS
Calculated images
                               NO
EX TS reference tissue
                               GREY MATTER
Recon compression
                               NONE
Recon compression
                               NONE
   Nr recon channels
                               8
EX_PROC_delrec_fcc_proc
                               PTIMIZED
Preset window contrast :
                               S0FT
EX_PROC_usdef_coca
                               NO
                               EX_PROC_coca_acq_nrs
                               EX_PROC_coca_rec_nrs
EX_PROC_usdef_coil_survey :
                               NO
EX_PROC_coil_survey_acq_nrs
                               EX_PROC_coil_survey_rec_nrs
                               PARALLEL
Reconstruction mode
Save raw data
                               N0
Analyse with IQT
                               N<sub>0</sub>
EX_PROC_to_gyroview
                               NO
Hardcopy protocol
                               NO
Image filter
                               DEFAULT
Geometry correction
                               NONE
Viewable raw data
                               N0
Elliptical k-space shutter
                               NO
EX conflict_suggestion :
GEX CONV id :
                               0 31 1
GEX_CONV_ppde_update
                               0
GEX CONV made by philips
                               YES
GEX_CONV_applied_conversions
                               0 6 2 1 0 7 0 8 11 4 8 13 -1 1 -1 -1 -
GEX CONV base release
                               18
EX_GEO_voxel_size_conv_done
                               YES
EX PROC scan_pat_ref_id
                               541938977
EX_PROC_coca_patient_ref_ids
                               541938977 0 0 0 0 0 0 0 0 0 0 0 0 0 0
                               32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coca nr channels :
EX PROC coca nr stacks
                               2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
                               178.477584838867 10000 10000 10000 100
EX PROC coca edge dist pos
```

```
EX PROC coca edge dist neg : -178.553680419922 -10000 -10000 -10000
EX PROC senseref rfsh rx scls : 1 1 1 1 1 1 1 1
EX PROC senseref rfsh rx ph :
                      0 0 0 0 0 0 0 0
EX_PROC_coil surv rfsh rx scls : 1 1 1 1 1 1 1 1
EX PROC coil surv rfsh rx ph : 00000000
                      EX_PROC_sense_ref_qbc_stack
                      EX PROC sense ref syn stack
EX GEO auto coils selected :
                      YES
EX_COIL_ui_use_review_mode :
                      YES
IF csks in use
                      6
Total scan duration :
                      06:42.0
IF absolute SNR :
                      0.676175355911255
Rel. SNR
                      1.00812876224518
Act. TR/TE (ms)
                      1500
Act. TE (ms)
                      36
ACQ matrix M x P
                      332 x 277
ACQ voxel MPS (mm)
                      0.60 / 0.60 / 1.00
REC voxel MPS (mm)
                      0.50 / 0.50 / 0.50
                      100.543479919434
Scan percentage (%)
                     0.569 / 763.9
4.0 / 257
WFS (pix) / BW (Hz):
TSE es / shot (ms) :
                      257 / 36 / 25
TEeff / TEequiv (ms) :
Min. TR/TE (ms)
                      275
Head SAR
                      < 16 %
Whole body SAR / level :
                      0.0 W/kg / normal
SED
                        0.0 \text{ kJ/kg}
B1+rms
                      0.95 uT
                      0.95 uT
Max B1+rms :
                      79 % / normal
PNS / level :
                      116.8 T/s
dB/dt :
                      15.0789060592651
Sound Pressure Level (dB) :
```

Protocol Name: SWI_DEM_MJD

Methodes Description:

methodDescription : SAG T1FFE 25 2.1 30

Other Tags:

applicationMode : AGDEF_APPL_IMAGING

linkState : false
laterality : unpaired

```
=====GE0METRY=====
Patient weight [kg]
                                    25
Nucleus
                                    Н1
SmartSelect
                                    AUT0
                                    0 1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
compacted :
                                    SENSE HEAD 32AH , SENSE HEAD 32P
compacted coils
compacted conns
                                    /CDAS.ConnPFEI/PFEI.ConnB , /CDAS.Conn
                                    65531 0 0 0 65535 0 0 0 0 0 0 0 0 0 0
stacks channels
clinical modes
                                    SENSE HEAD 32P SENSE HEAD 32AH
                                    -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
compacted (exclude)
compacted coils (exclude)
compacted conns (exclude)
stacks channels (exclude)
                                    Uniformity :
                                    CLEAR
FOV (mm)
                                    240
FOV (mm)
                                    180
FOV (mm)
                                    120 250 250 250 250 250 250 250 250 25
ACQ voxel size
                  FH (mm)
                                    0.75
ACQ voxel size
                  FH (mm)
                                    0.75
Slice thickness (mm)
                                    1.5
                                    0.75
EX_PROC_recon_voxel_size
RF0V (%)
                                    75
                                    NO.
Fold-over suppression
                                    DEFAULT
Slice oversampling
RF select. FOS
                                    NO
Matrix scan
                                    320
                                    320
       reconstruction
                                    100
Scan percentage (%)
SENSE
                                    YES
    P reduction (AP)
                                    2
    S reduction (AP)
                                    1
                                    N<sub>0</sub>
k-t Acceleration
EX_ACQ_overcont_slices
                                    N<sub>0</sub>
Stacks
                                    1
Slices
                                    80
Slice thickness (mm)
                                    1.5
Slice orientation :
                                    TRANSVERSAL
Fold-over direction
                                    LR
Fat shift direction
Slice Offc. AP (P=+mm)
                                    -11.5681705474854
            RL (L=+mm)
                                    0.872701227664948
            FH (H=+mm)
                                    10.4587621688843
            AP (deg)
      Ang.
                                    0
            RL (deg)
                                    0
            FH (deg)
                                    0
EX_GEO_stacks_table_long_pos
                                    2100000000
      Free rotatable
                                    N<sub>0</sub>
Multi-chunk
                                    N<sub>0</sub>
Large table movement
                                    N<sub>0</sub>
PlanAlign :
                                    N0
REST slabs :
                                    0
                                    N<sub>0</sub>
    delay :
```

```
EX TRACK tracking :
                                 NONE
Interactive positioning :
                                 NO
External control :
                                 NO
Allow table movement
                                 NO
Patient position
                                 HEAD FIRST
Patient orientation :
                                 SUPINE
Scan type
                                 IMAGING
Scan mode
                                 3D
   technique :
                                 FFE
Contrast enhancement
                                 T1
Acquisition mode :
                                 CARTESIAN
Fast Imaging mode :
                                 EPI
    3D non-selective
                                 NO
    shot mode :
                                 MSH
EPI factor :
                                 3
                                 YZ
    epi direction :
Echoes
                                 1
EX ACQ b0zshim enum :
                                 DEFAULT
    partial echo
                                 NO.
    shifted echo
                                 NO
TE
                                 INPHASE
    (ms):
                                 34.5364418029785
Flip angle (deg) :
                                 20
TR:
                                 SHORTEST
Halfscan
                                 NO.
Water-fat shift
                                 MINIMUM
                                 EX_ACQ_RF_shim_data :
Shim :
                                 AUT0
 Get shim and F0 from PRIDE :
                                 NO
 Calculate shim now
                                 NO
                                 AUTO
 FO Determination :
 Χ
         shim value
                                 0
 Υ
         shim value
                                 0
 Ζ
         shim value
                                 0
 Z2
         shim value
                                 0
 ZX
         shim value
                                 0
 ZY
         shim value
                                 0
 X2-Y2
         shim value
                                 0
 2XY
         shim value
                                 0
         shim value
 Z3
                                 0
 Z2X
         shim value
                                 0
 Z2Y
         shim value
                                 0
 Z(X2-Y2) shim value
                                 0
         shim value
 2XYZ
                                 0
 Х3
         shim value
                                 0
 Y3
         shim value
                                 0
 Shim offset freq :
                                 0
 Nav shim offset freq
                                 0
 Navigator X shim value :
                                 0
 Navigator Y shim value
Navigator Z shim value
                                 0
                                 0
```

```
mDIXON
                              NO
Fat suppression :
                              NO.
Water suppression :
                              N0
   shared
                              N<sub>0</sub>
MTC
                              N<sub>0</sub>
                              NO
Custom prepulse
Diffusion mode
                              NO
EX DIFF array x
                              EX DIFF array y
                              EX DIFF array z
                              EX DIFF array b
                              nr of b-factors
                              2
EX DIFF nr dti directions
                              1
EX_DIFF_nr_dti_vectors
                              1
EX DIFF weighting ix array
                              EX DIFF direction ix array
User defined DTI scheme
                              user defined
EX DIFF grad factor
MRE enable
                              N<sub>0</sub>
Multi-transmit
                              NO.
SAR mode :
                              HIGH
B1 mode
                              DEFAULT
EX MULTIX SAR mode
                              AUT0
PNS mode
                              HIGH
Gradient mode :
                              MAXIMUM
SofTone mode
                              NO
=====MOTION========
Cardiac synchronization :
                              N0
Heart rate > 250 bpm
                           NO
Respiratory compensation :
                              NO
Navigator respiratory comp
                              0FF
   weighted gating
                              N0
Flow compensation
                              YES
fMRI echo stabilisation
                              NO.
NSA
                              1
Angio / Contrast enh.
                              INFLOW
Quantitative flow :
                              NO.
                              N<sub>0</sub>
Tone pulse :
Manual start
                              N<sub>0</sub>
EX abuse dyn loop
                              N<sub>0</sub>
Dynamic study :
                              NO
Arterial Spin labeling
                              N<sub>0</sub>
=====PR0C======
Preparation phases
                              AUT0
Interactive F0 :
                              NO
Gradient demo
                              NO
Pre scan
                              N<sub>0</sub>
SmartPlan survey
                              NONE
EX_ACQ_whole_body_fat_water
                              NO
EX ACQ B0 map
                              NO.
                              N<sub>0</sub>
EX ACQ B1 map
```

```
MIP/MPR
                           NO
SWIp
                           NO
                           MODULUS
Images
Autoview image
                           MODULUS
Calculated images
                           N0
EX TS reference tissue
                           GREY MATTER
EX ACQ epi 2d phase corr
                           N0
Recon compression
                           NONE
Recon compression
                           NONE
   Nr recon channels
                           8
EX PROC delrec fcc proc
                           PTIMIZED
Preset window contrast :
                           S0FT
EX PROC usdef coca
                           N0
EX_PROC_coca_acq_nrs
                           EX PROC coca rec nrs
                           EX PROC usdef coil survey
                           NO.
                           EX_PROC_coil_survey_acq_nrs
EX PROC coil survey rec nrs
                           Reconstruction mode
                           REAL TIME
Save raw data
                           NO
Analyse with IQT
                           N0
EX PROC to gyroview
                           NO
Hardcopy protocol
                           NO.
Image filter
                           DEFAULT
Geometry correction
                           DEFAULT
Viewable raw data
                           NO
Elliptical k-space shutter
                           DEFAULT
=====PDF======
EX conflict suggestion
                           0
                            0 31 1
GEX CONV id :
GEX_CONV_ppde_update
                           0
GEX CONV made_by_philips
                           YES
GEX_CONV_applied_conversions
                            0 6 2 1 0 7 0 8 11 4 8 13 -1 1 -1 -1 -
GEX CONV base release
                           18
EX_GEO_voxel_size_conv_done
                           YES
EX PROC scan_pat_ref_id
                           541938977
EX PROC coca patient ref ids
                           541938977 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX_PROC_coca_nr_channels :
                           32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX_PROC_coca_nr_stacks
                           2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coca edge dist pos
                           179.256317138672 10000 10000 10000 100
EX_PROC_coca_edge_dist_neg
                            -176.993682861328 -10000 -10000 -10000
EX PROC senseref rfsh rx scls
                           1 1 1 1 1 1 1 1
EX PROC senseref rfsh rx ph
                           0 0 0 0 0 0 0 0
EX PROC coil surv rfsh rx scls
                         : 1 1 1 1 1 1 1 1
EX PROC coil surv rfsh rx ph
                           0 0 0 0 0 0 0 0
                           EX PROC sense ref qbc stack
EX PROC sense ref syn stack
                           EX PROC coil survey pat ref ids
                           EX_PROC_coil_survey_nr_channels
                           EX_PROC_coil_survey_nr_stacks
                        :
EX PROC coil survey qbc stack
                         :
                           EX PROC coil survey syn stack
                         :
```

```
EX GEO auto coils selected :
                               YES
EX_COIL_ui_use_review_mode :
                               YES
IF_csks_in_use :
                                16,37
                                02:44.0
Total scan duration :
IF_absolute_SNR :
                                0.602962613105774
Rel. SNR
                                3.75895023345947
Act. TR/TE (ms) :
                               40 / 35
                               320 x 240
ACQ matrix M \times P:
ACQ voxel MPS (mm) :
                               0.75 / 0.75 / 1.50
REC voxel MPS (mm)
                               0.75 / 0.75 / 1.50
Scan percentage (%) :
                               100
WFS (pix) / BW (Hz)
                               2.695 / 161.2
BW in EPI freq. dir. (Hz) :
                               964.5
Min. WFS (pix) / Max. BW (Hz) : 2.673 / 162.5
Min. TR/TE (ms) :
                               40 / 6.2
                                < 7 %
Head SAR
Whole body SAR / level :
                                0.0 W/kg / normal
SED:
                                 0.0 \text{ kJ/kg}
B1+rms
                                0.63 uT
                               0.63 uT
Max B1+rms :
PNS / level :
                               99 % / 1st level
                               57.0 T/s
dB/dt :
Sound Pressure Level (dB) : 19.3608646392822
```

Protocol Name: Resting state

Methodes Description:

```
Other Tags:
 applicationMode : AGDEF APPL IMAGING
 linkState : false
 laterality : unpaired
 =====GE0METRY===============================
 Patient weight [kg] :
                                  25
                                  H1
 Nucleus :
 SmartSelect :
                                  AUTO
  compacted :
                                  0 1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
  compacted coils :
                                  SENSE HEAD 32AH , SENSE HEAD 32P
                                  /CDAS.ConnPFEI/PFEI.ConnB , /CDAS.Conn
  compacted conns :
                                  65531 0 0 0 65535 0 0 0 0 0 0 0 0 0 0
  stacks channels :
                                  SENSE_HEAD_32P_SENSE_HEAD_32AH
-1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
  clinical modes :
  compacted (exclude)
  compacted coils (exclude) :
  compacted conns (exclude) :
                                  stacks channels (exclude) :
                                  CLEAR
 Uniformity :
  FOV (mm) :
                                  240
```

```
FOV (mm)
                                    240
FOV (mm)
                                    121.599998474121 250 250 250 250 250 2
ACQ voxel size
                                    3
                  FH (mm)
ACQ voxel size
                 FH (mm)
                                    3
Slice thickness (mm)
                                    3.20000004768372
EX_PROC_recon_voxel_size
                                    3
RFOV (%):
                                    100
Fold-over suppression
                                    NO
Matrix scan
                                    80
                                    80
       reconstruction
Scan percentage (%) :
                                    100
SENSE
                                    YES
    P reduction (AP)
                                    2
k-t Acceleration :
                                    NO
Stacks
                                    1
                                    PARALLEL_STACK
    type :
Slices :
Slice thickness (mm)
                                    3.20000004768372
    slice gap
                                    USER DEF
          gap (mm)
Slice orientation
                                    TRANSVERSAL
Fold-over direction :
                                    AP
Fat shift direction
                                    Α
Slice Offc. AP (P=+mm)
                                    -11.0084676742554
            RL (L=+mm)
                                    0.872701227664948
            FH (H=+mm)
                                    13.8170366287231
            AP (deg)
                                    -1.05240416526794
      Ang.
            RL (deg)
                                    -1.10846042633057
            FH (deg)
                                    4.89425134658813
                       :
EX_GEO_stacks_table_long_pos
                                    2100000000
      Free rotatable
                                    NO
Minimum number of packages
                                    1
Slice scan order :
                                    ASCEND
Large table movement
                                    NO
                                    N<sub>0</sub>
PlanAlign
REST slabs
                                    0
    delay
                                    N<sub>0</sub>
Shim
      Size AP (mm)
                                    171.363876342773
            RL (mm)
                                    129.150146484375
            FH (mm)
                                    113.97046661377
      Offc. AP (P=+mm)
                                    -3.86548471450806
            RL (L=+mm)
                                    -0.506013989448547
            FH (H=+mm)
                                    15.580135345459
            AP (deg)
                                    -1.97411704063416
      Ang.
            RL (deg)
                                    -10.0008583068848
                                    4.8738169670105
            FH (deg)
Shim volumes
                                    1
EX_TRACK_tracking
                                    NONE
Interactive positioning
                                    N0
External control
                                    N0
Allow table movement
                                    NO
Patient position
                                    HEAD FIRST
```

```
Patient orientation :
                                SUPINE
Scan type :
                                IMAGING
Scan mode :
                                MS
    technique :
                                FFE
Contrast enhancement :
                                NO
Acquisition mode :
                                CARTESIAN
Fast Imaging mode :
                                EPI
    shot mode :
                                SSH
Echoes
                                1
EX ACQ b0zshim enum :
                                DEFAULT
    partial echo :
                                N0
    shifted echo :
                                NO
TE
                                USER DEF
    (ms) :
                                28
Flip angle (deg) :
                                90
TR:
                                USER DEF
    (ms):
                                2000
Halfscan :
                                NO
Water-fat shift :
                                USER DEF
     (pixels) :
                                11
                                EX ACQ RF shim data :
Shim :
                                HOS VOLUME
 Get shim and F0 from PRIDE :
                                NO
 Calculate shim now :
                                NO
                                AUT0
 FO Determination :
         shim value
 Χ
                                0
 Υ
         shim value :
                                0
 Z
         shim value
                                0
 Z2
         shim value :
                                0
 ZX
         shim value :
                                0
 ZY shim value : X2-Y2 shim value : 2XY shim value :
                                0
                                0
                                0
 Z3
         shim value
                                0
 Z2X shim value : Z2Y shim value :
                                0
                                0
 Z(X2-Y2) shim value
                                0
 2XYZ shim value :
                                0
 X3
         shim value :
                                0
         shim value :
 Y3
                                0
 Shim offset freq :
                                0
 Nav shim offset freq :
                                0
 Navigator X shim value :
                                0
 Navigator Y shim value :
                                0
 Navigator Z shim value :
                                0
ShimAlign
                                N<sub>0</sub>
mDIXON:
                                N<sub>0</sub>
Fat suppression :
                                SPIR
   strength :
                                STRONG
   frequency offset :
                                DEFAULT
Water suppression :
                                NO
```

```
shared:
                              N0
MTC
                              NO.
Custom prepulse
                              NO
Diffusion mode
                              N<sub>0</sub>
                              EX DIFF array x
EX DIFF array_y
                              EX DIFF array z
                              EX DIFF array b
                              nr of b-factors
                              2
EX DIFF nr dti directions
                              1
EX DIFF nr dti vectors
                              1
EX DIFF weighting ix array
                              EX DIFF direction_ix_array
                              User defined DTI scheme
                              user defined
EX DIFF grad factor
                              1
MRE enable
                              NO
Multi-transmit
                              NO.
SAR mode
                              HIGH
B1 mode
                              DEFAULT
EX MULTIX SAR mode
                              AUT0
PNS mode :
                              HIGH
Gradient mode :
                              MAXIMUM
SofTone mode
                              NO.
======MOTION======
Cardiac synchronization
                              NO
                           NO
Heart rate > 250 bpm
Respiratory compensation
                              NO.
Navigator respiratory comp
                              0FF
   weighted gating
                              N<sub>0</sub>
Flow compensation
                              NO.
Temporal slice spacing
                              MINIMAL
fMRI echo stabilisation :
                              NO
NSA
                              1
=====DYNANG======
Angio / Contrast enh.
                              NO
Quantitative flow
                              NO
Manual start
                              YES
EX abuse dyn loop
                              NO
Dynamic study :
                              INDIVIDUAL
   dvn scans
                              203
   recon multiplier
                              1
   dyn scan times
                              SHORTEST
   fov time mode
                              VOXEL
   dummy scans
                              5
   immediate subtraction
                              N<sub>0</sub>
   fast next scan
                              NO
   synch. ext. device
                              YES
       start at dyn.
                              1
       interval (dyn)
                              1
   dyn stabilization
                              REGULAR
   prospect. motion corr.
                              N<sub>0</sub>
                              N<sub>0</sub>
Keyhole
```

```
N<sub>0</sub>
Arterial Spin labeling
=====PR0C======
Preparation phases
                                FULL
Interactive F0
                                N0
Gradient demo
                                NO
Pre scan
                                NO
SmartPlan survey
                                NONE
EX ACQ whole body fat water
                                N<sub>0</sub>
EX ACQ B0 map
                                N0
EX ACQ B1 map
                                NO
MIP/MPR
                                NO
                                NO
SWIp :
                                MODULUS
Images
Autoview image
                                MODULUS
Calculated images
                                NO
EX TS reference tissue :
                                GREY MATTER
EX_ACQ_epi_2d_phase_corr
                                NO
Recon compression
                                NONE
Recon compression
                                NONE
   Nr recon channels
                                8
EX_PROC_delrec_fcc_proc
                                PTIMIZED
Preset window contrast
                                S0FT
EX_PROC_usdef_coca
                                NO.
                                EX_PROC_coca_acq_nrs
EX PROC coca rec nrs
                                EX_PROC_usdef_coil_survey
                                NO.
EX_PROC_coil_survey_acq_nrs
                                EX_PROC_coil_survey_rec_nrs
                                REAL_TIME
Reconstruction mode
   reuse memory
                                NO
                                NO
Save raw data
Analyse with IQT
                                N0
EX_PROC_to_gyroview
                                N<sub>0</sub>
Hardcopy protocol
                                NO
Image filter
                                DEFAULT
Geometry correction
                                DEFAULT
Viewable raw data
                                N0
=====PDF=========
EX_conflict_suggestion
GEX CONV id :
                                0 31 1
GEX_CONV_ppde_update
                                0
GEX_CONV_made_by_philips
                                YES
GEX_CONV_applied_conversions
                                0 6 2 1 0 7 0 8 11 4 8 13 -1 1 -1 -1 -
GEX CONV base release
                                18
EX_GEO_voxel_size_conv_done
                                YES
EX PROC scan_pat_ref_id
                                541938977
EX_PROC_coca_patient_ref_ids
                                541938977 0 0 0 0 0 0 0 0 0 0 0 0 0 0
                                32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
EX PROC coca nr channels :
EX_PROC_coca_nr_stacks
                                2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
                                172.809295654297 10000 10000 10000 100
EX PROC coca edge dist pos
EX_PROC_coca_edge_dist_neg
                                -179.551834106445 -10000 -10000 -10000
EX PROC senseref rfsh rx scls
                                1 1 1 1 1 1 1 1
```

```
EX PROC senseref rfsh rx ph
                           0 0 0 0 0 0 0 0
EX PROC coil surv rfsh rx scls : 1 1 1 1 1 1 1 1
EX PROC coil surv rfsh rx ph :
                           0 0 0 0 0 0 0 0
                           EX PROC sense ref qbc stack :
EX PROC sense ref syn stack
                           EX_PROC_coil_survey_pat_ref_ids
                          EX PROC coil survey nr channels
                          EX PROC coil survey nr stacks
                        :
                           EX PROC coil survey qbc stack
                         :
EX PROC coil survey syn stack
                           EX GEO auto coils selected
                           YES
EX COIL ui use review mode
                           YES
Total scan duration :
                           06:59.9
IF absolute SNR
                           6.20777082443237
Rel. SNR
                           38.700080871582
Act. TR/TE (ms) :
                           2000 / 28
Dyn. scan time :
                           00:02.0
                           0.994
Time to k0
ACQ matrix M x P :
                           80 x 78
ACQ voxel MPS (mm)
                           3.00 / 3.08 / 3.20
REC voxel MPS (mm)
                           3.00 / 3.00 / 3.20
                           97.5
Scan percentage (%)
Packages
                           1
Min. slice gap (mm)
                           0
                           39
EPI factor :
WFS (pix) / BW (Hz)
                           11.001 / 39.5
                           2123.3
BW in EPI freq. dir. (Hz) :
Min. WFS (pix) / Max. BW (Hz)
                         : 7.233 / 60.0
                           1967 / 9.6
Min. TR/TE (ms)
                           < 37 %
Head SAR
                           < 0.1 \text{ W/kg / normal}
Whole body SAR / level
SED
                             0.0 \text{ kJ/kg}
B1+rms
                           1.42 uT
Max B1+rms :
                           1.42 uT
                           95 % / 1st level
PNS / level :
                           119.0 T/s
dB/dt
Sound Pressure Level (dB) :
                           19.4884967803955
```

examcard2txt.pl (version: 16.2.2021) 13.4.2022 15:01