

**Supplementary Table 3.** Prostate diffusion imaging at varying Echo Time, 3T Philips Achieva.

```

Nucleus = "H1";
SmartSelect = "yes";
Coil 1 (exclude) = "None";
Uniformity = "CLEAR";
FOV RL (mm) = 220;
AP (mm) = 220;
FH (mm) = 70;
ACQ voxel size RL (mm) = 1.72;
AP (mm) = 1.76;
Slice thickness (mm) = 5;
Recon voxel size RL (mm) = 1.375;
AP (mm) = 1.375;;
ACQ matrix M x P = "128 x 125";
ACQ voxel MPS (mm) = "1.72 / 1.76 / 5.00";
REC voxel MPS (mm) = "1.375 / 1.375 / 5.00";
Fold-over suppression = "rest";
slab thickness = "half FOV";
Reconstruction matrix = 160;
SENSE = "yes";
P reduction (AP) = 1.60000002;
MB SENSE = "no";
CS-SENSE = "no";
k-t BLAST = "no";
Stacks = 1;
type = "parallel";
slices = 14;
slice gap = "user defined";
gap (mm) = 0;
slice orientation = "transverse";
fold-over direction = "AP";
fat shift direction = "P";
Stack Offc. AP (P=+mm) = -17.4494019;
RL (L=+mm) = -8.37893963;
FH (H=+mm) = 15.134407;
Ang. AP (deg) = 0;
RL (deg) = -0;
FH (deg) = 2.9550209;
Free rotatable = "no";
Minimum number of packages = 1;
Slice scan order = "interleaved";
Large table movement = "no";
PlanAlign = "no";
REST slabs = 1;
type = "free";
orientation = "coronal";
thickness (mm) = 40;
Rest Offc. AP (P=+mm) = -109.625175;
RL (L=+mm) = -1.66951835;
FH (H=+mm) = 43.0401611;

```

Ang. AP (deg) = 0.837242603;  
 RL (deg) = 0.313441545;  
 FH (deg) = 2.44953847;  
 power = "1";  
 Shim Size AP (mm) = 181.93161;  
 RL (mm) = 213.879593;  
 FH (mm) = 90;  
 Offc. AP (P=+mm) = -17.4500008;  
 RL (L=+mm) = -8.38000011;  
 FH (H=+mm) = 15.134407;  
 Ang. AP (deg) = 0;  
 RL (deg) = -0;  
 FH (deg) = 2.9550209;  
 Catheter tracking = "no";  
 Interactive positioning = "no";  
 Allow table movement = "no";  
 Patient position = "feet first";  
 Patient body position = "feet first";  
 Patient orientation = "supine";  
 Patient body orientation = "supine";  
 Scan type = "Imaging";  
 Scan mode = "MS";  
 technique = "SE";  
 Modified SE = "no";  
 Acquisition mode = "cartesian";  
 Fast Imaging mode = "EPI";  
 shot mode = "single-shot";  
 Echoes = 1;  
 partial echo = "no";  
 Flip angle (deg) = 90;  
 Halfscan = "yes";  
 factor = 0.623931646;  
 Water-fat shift = "minimum";  
 RF Shims = "adaptive";  
 Shim = "volume";  
 ShimAlign = "yes";  
 mDIXON = "no";  
 Fat suppression = "SPIR";  
 strength = "strong";  
 frequency offset = "default";  
 Grad Rev Fat suppr = "yes";  
 Water suppression = "no";  
 BB pulse = "no";  
 MTC = "no";  
 APT = "no";  
 Research prepulse = "no";  
 MDME = "no";  
 Act. TR (ms) = "2800";  
 Act. TE (ms) = "55, 55, 55, 87, 87, 87, 121, 121, 121, 150, 150, 150";  
 Diffusion mode = "DWI";  
 sequence = "SE";  
 gradient duration = "maximum";  
 gradient overplus = "yes";  
 b-factors = "500, 1000, 1500, 500, 1000, 1500, 500, 1000, 1500, 500, 1000, 1500"

Diffusion gradient timing DELTA (ms) =  
 "26.3, 26.3, 26.3, 42.3, 42.3, 42.3, 59.3, 59.3, 59.3, 73.8, 73.8, 73.8"  
 Diffusion gradient timing delta (ms) =  
 "11.3, 11.3, 11.3, 27.3, 27.3, 27.3, 44.3, 44.3, 44.3, 58.8, 58.8, 58.8"  
 average high b = "no";  
 Multi-transmit = "yes";  
 Transmit channels = "both";  
 SAR mode = "high";  
 B1 mode = "default";  
 SAR allow first level = "yes";  
 PNS mode = "moderate";  
 Gradient mode = "enhanced";  
 SoftTone mode = "no";  
 Cardiac synchronization = "no";  
 Heart rate > 250 bpm = "no";  
 Respiratory compensation = "no";  
 Navigator respiratory comp = "no";  
 Flow compensation = "no";  
 Temporal slice spacing = "default";  
 NSA = 2;  
 SMART = "no";  
 Manual start = "no";  
 Dynamic study = "no";  
 Preparation phases = "auto";  
 Interactive F0 = "no";  
 SmartPlan survey = "no";  
 MIP/MPR = "no";  
 Images = "M", (3) "no";  
 Reference tissue = "Liver";  
 Recon compression = "No";  
 Preset window contrast = "soft";  
 Uniformity correction = "no";  
 Geometry correction = "default";  
 IF\_info\_seperator = 1634755923;  
 Min. slice gap (mm) = -0;  
 EPI factor = 95;  
 WFS (pix) / BW (Hz) = "31.624 / 13.7";  
 BW in EPI freq. dir. (Hz) = "2394.4";  
 PNS / level = "80 % / normal";  
 dB/dt = "53.8 T/s";