

Supplementary Table 1: Prostate MRI imaging protocol

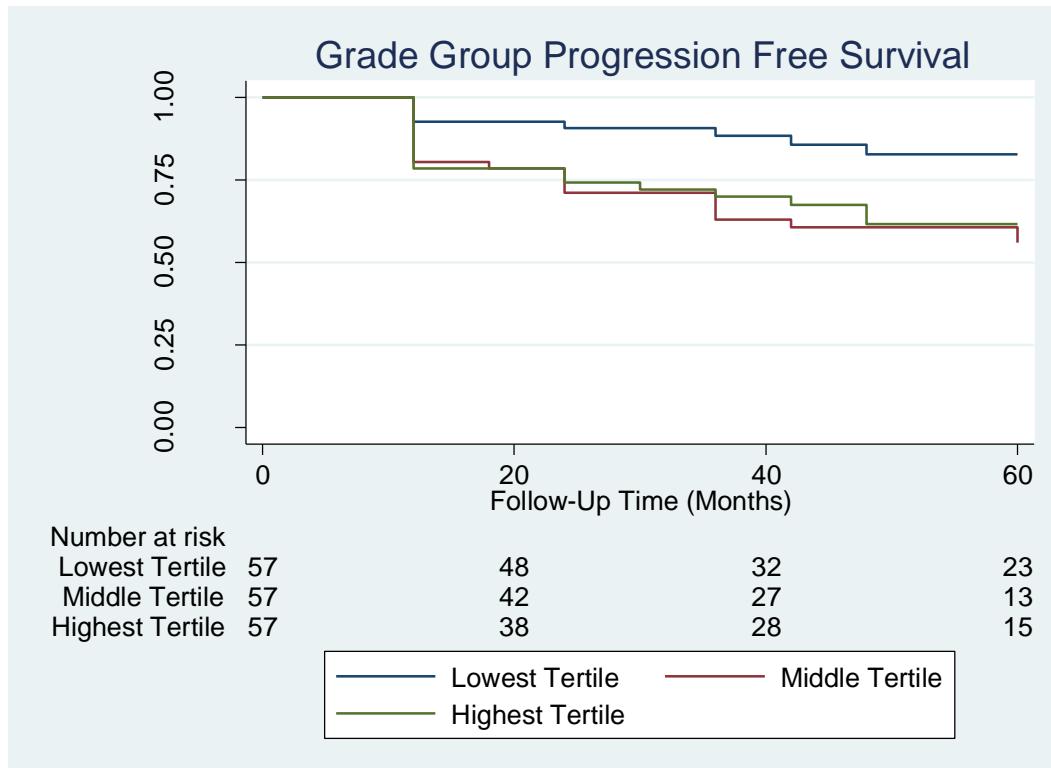
	3 Plane Localizer	Small FOV T2 (3-plane)	Small FOV Axial T1	Small FOV Axial DWI	Whole pelvis Axial T1 Pre-Contrast	Whole pelvis Axial DWI	Small FOV Axial 3D DCE
Pulse Sequence	Gradient Echo	FSE-XL/NPW, EDR, TRF	FSE-XL/NPW, EDR, TRF	Spin Echo/EDR, EPI	FSE-XL/NPW, EDR, TRF	Spin Echo/EDR, EPI	SPGR/ EDR, Fast, multi-phase
TR (msec)	4.768	4000.0	660.0	8000	660	11000	3.7
TE (msec)	1.252	140.0	9	78	9	64	1.7
Flip Angle (°)	30	90	90	-	90	-	25
BW (Khz)		25.00	19.23	245	20	240	42
FOV (cm)	40	14	14	14	24	38	26
Slice Thickness (mm)	5	3	3	3	6	5	1.5
Spacing (mm)	2	4	4	4	6	5	0
Frequency Direction	Unswap	Ax/Sg – A/P Co – S/I	A/P	R/L	A/P	R/L	R/L
Matrix	256x128	256 x 224	256 x 224	128 x 96	256 x 192	160 x 96	160 x 128
NEX	2	4.00	4.00	2	2	2	1
Echo Train Length	1	18	3	1	3	1	1

Abbreviations: FSE= fast spin echo; SPGR= spoiled gradient echo; EPI= echo-planar-imaging; NPW = no phase-wrap; TRF = Tailored radio frequency; EDR = extended dynamic range; TR= repetition time; TE= echo time; BW=bandwidths; FOV=field of view; ETL = echo train length; NEX = number of excitations; Co = coronal; Ax/Sg = axial/sagittal; A/P = anterior/posterior; R/L = right/left; S/I = superior/inferior.

Supplementary Table 2: Gleason grade group progression status by normalized fat measurements

Fat measurement	Progressor	Non-Progressor	P-value
Total calculated peri-prostatic fat volume* (mean, STD)	1.11 (0.26)	0.99 (0.27)	0.01
Distance from pubic symphysis to prostate* (mean,STD)	0.048 (0.057)	0.046 (0.065)	0.88
Subcutaneous fat measurement* (mean, STD)	1.02 (0.51)	0.99 (0.60)	0.78

Supplementary Figure 1: Kaplan-Meier analysis of Gleason grade group survival by normalized pubic symphysis-based peri-prostatic fat measurement



Supplementary Figure 2: Kaplan-Meier analysis of Gleason grade group survival by normalized subcutaneous fat measurement

