

Table S1. Patient's and tumour's characteristics for those receiving MRI

Variables		n=518
<i>Patient's characteristics</i>		
Age at diagnosis, yrs, median (IQR)		67 (62 - 71)
BMI at surgery, kg/m ² , median (IQR)		26 (24 - 28,4)
Charlson Comorbidity index (CCI)		1 (0-2)
Diabetes mellitus, n (%)		40 (7,7)
Anticoagulant/antiaggregant, n (%)		121 (23,4)
Family history of prostate cancer, n (%)		60 (11,6)
Preoperative urinary incontinence (UI)*, n (%)		6 (1,2)
Preoperative ED, n (%)		91 (17,6)
Positive DRE, n (%)		247 (47,7)
PSA value at diagnosis, ng/mL, Median (IQR)		6.3 (4.3 - 9.1)
Prostate Volume, cc, Median ° (IQR)		45 (34.0 – 58.0)
<i>Characteristics at biopsy</i>		
Type of biopsy, n (%)		
- Cognitive Biopsy		170 (32,8)
- MRI-targeted biopsy		348 (67,2)
Highest ISUP Grade Group at MRI targeted – biopsy cores, n (%)		
- Patients with no positive random – biopsy cores		185 (35,7)
- Grade Group 1		39 (7,5)
- Grade Group 2		109 (21,0)
- Grade Group 3		108 (20,8)
- Grade Group 4		37 (7,1)
- Grade Group 5		40 (7,7)
Extra Capsular Invasion at biopsy, n (%)		5 (1,0)
Seminal Vesicles Invasion at biopsy, n (%)		0 (0)
Perineural Invasion at biopsy (PNI), n (%)		116 (22,4)
<i>Characteristics at imaging</i>		
Extra Capsular Extension at imaging, n (%)		30 (5,8)
Seminal Vesicles Invasion at imaging, n (%)		11 (2,1)
cT, n(%)		213 (41,1)
- T1		282 (54,4)
- T2		23 (4,4)
- T3-4		
cN+, n (%)		27 (5,2)
Localized disease §		475 (91,7)
Novel risk categories , n(%)		
- Group 1-low-risk		43 (8,3)
- Group 2- intermediate risk		312 (60,2)
- Group 3- high risk		152 (29,3)
- Group 4- veriy high risk		11 (2,1)

*UI defined according to EPIC criteria as the need for of more than one Pad per day;° Prostate volume was assessed at sovrapubic ultrasound and/or MRI, if available; Ç The grade group was evaluated only on patients with random samples at biopsy (n = 925). If case of multiple Gleason scores in the same patient, the highest was considered.; § Localized disease was defined as the presence of cT1-2, N0 M0 prostatic cancer, according to EAU Guidelines

BMI: body mass index; ED: erectile dysfunction; MRI: magnetic resonance imaging; TURP: transurethral resection of prostate