

Supplementary Table 1 – Inclusion criteria, follow-up schedule, and indications for discontinuation of Active Surveillance protocols at Istituto Nazionale Tumori, Milan

Inclusion criteria	
PSA	< 10 ng/ml
Clinical stage	≤ T2c
Gleason Pattern Score (GPS)/ Prognostic Grade Group (PGG)	GPS=3+3/PGG1 OR GPS=3+4/PGG2 in age > 70 years, tumor involving < 10% core length
Number of positive cores	≤ 2 OR ≤ 15% of all cores in case of saturation biopsy (> 20 cores) with a maximum of 4 OR ≤ 25% positive cores AND maximum tumor length in positive cores ≤ 50%
PSA density	< 0.2 ng/ml/cm ³ OR no limit on PSA density
Follow-up schedule	
PSA measurement	Every 3 months
Digital rectal examination (DRE)	Every 6 months
Re-biopsy	1, (2), 4 and 7 years after diagnostic biopsy
Indications for AS discontinuation	
	Any one of the following: <ul style="list-style-type: none"> ▪ PSA doubling time < 3 years; ▪ Clinical stage > T2c at DRE; ▪ 2 positive cores OR > 25% positive cores OR maximum tumor length in positive cores > 50% (upsizing) at rebiopsy; ▪ GPS > 6/≥PGG2 (upgrading) at re-biopsy

Supplementary Table 2 – Pair-wise relationships of the available clinico-pathological variables.

Variables	Age (yrs)	PSA density (ng/ml/cm³)	Prostate volume (cm³)	Positive cores (n)	Positive cores (%)	Max PCa length (%)
Age (yrs)		-0.14(-0.25; -0.04)*	<i>0.0010 †</i>	0.4565 †	0.1888 †	0.14 (0.03; 0.24)*
PSA density (ng/ml/cm³)			<i><.0001 †</i>	0.8729 †	0.1282 †	-0.01(-0.11; 0.10)*
Prostate volume (cm³)				0.4233 **	0.8023 **	0.2567 †
Positive cores (n)					<i><.0001 **</i>	<i><.0001 †</i>
Positive cores (%)						<i><.0001 †</i>
Max PCa length (%)						

Age: age at biopsy; PSA density: PSA/Volume (on logarithmic scale); Volume: Prostatic volume [dichotomized as <50cc vs ≥50cc]; Positive cores (n): number of positive cores at diagnostic biopsy [dichotomized as ≤1 vs >1]; Positive cores (%): % positive cores at diagnostic biopsy [dichotomized as <10% vs ≥10%], Max PCa length (%): maximum length of prostate cancer in positive core.

*Spearman correlation coefficient and 95%CI_{BCa}; ** χ^2 p-value; † non parametric Kruskal-Wallis p-value; significant association or relevant correlations are highlighted in italics.