



Supplementary Figure S1: Flowchart of patient inclusion and exclusion.

Supplementary Table S1. Associations of patient characteristics and biopsy features with adverse pathology at radical prostatectomy on univariable logistic regression models.

Independent variable		OR, 95% CI	p-value
Age, years		1.04 (0.98-1.10)	0.160
PSA, ng/mL		1.13 (0.99-1.27)	0.060
PIRADS category 5		1.25 (0.55-2.85)	0.592
PV, mL		1.03 (1.00-1.05)	0.059
PSAD, ng/mL ²		1.04 (0.04-24.39)	0.982
Grade group 3 (vs 2)		1.96 (0.80-4.85)	0.143
GP4 amount			
GP4%cores	OB	1.09 (1.02-1.16)	0.007
	TB	1.02 (0.99-1.04)	0.221
	SB	1.20 (1.03-1.39)	0.021
	WS	1.03 (1.00-1.05)	0.020
GP4%cancer	OB	1.01 (1.00-1.03)	0.101
	TB	1.02 (1.00-1.03)	0.068
	SB	1.02 (1.00-1.05)	0.101
	WS	1.02 (1.00-1.03)	0.077

GP4mm	OB	1.05 (1.01-1.10)	0.009
	TB	1.06 (1.01-1.10)	0.011
	SB	1.10 (0.91-1.34)	0.312
	WS	1.06 (1.01-1.11)	0.012
PV×GP4		1.27 (1.07-1.51)	0.006
Cribiform pattern present		1.10 (0.51-2.39)	0.807

PSA, prostate-specific antigen; PIRADS, Prostate Imaging Reporting and Data System; PV, prostate volume; PSAD, PSA density; GP4, Gleason pattern 4; OB, overall biopsy; TB, targeted biopsy; SB, systematic biopsy; WS, worst specimen

Supplementary Table S2. Spearman rank correlation analysis for selected patient characteristics and biopsy features.

Variable	GP4%cores, OB	GP4%cores, SB	GP4%cores, WS	GP4mm, OB	GP4mm, TB	GP4mm, WS	PV×GP4
GP4%cores, OB	—	0.25**	0.91***	0.91***	0.89***	0.90***	0.92***
GP4%cores, SB	0.25**	—	0.17 ^t	0.34***	0.32***	0.23*	0.25**
GP4%cores, WS	0.91***	0.17 ^t	—	0.82***	0.80***	0.83***	0.84***
GP4mm, OB	0.91***	0.34***	0.82***	—	0.98***	0.98***	0.83***
GP4mm, TB	0.89***	0.32***	0.80***	0.98***	—	0.99***	0.80***
GP4mm, WS	0.90***	0.23*	0.83***	0.98***	0.99***	—	0.82***
PV×GP4	0.92***	0.25**	0.84***	0.83***	0.80***	0.82***	—

PV, prostate volume; GP4, Gleason pattern 4; OB, overall biopsy; TB, targeted biopsy; SB, systematic biopsy; WS, worst specimen

^t 0.05 ≤ p-value < 0.10

* 0.01 ≤ p-value < 0.05

** 0.001 ≤ p-value < 0.01

*** p-value < 0.001