S1 Table. Multivariate logistic regression model for unfavorable disease and its sensitivity analysis to evaluate effect of institutions

	Multivariate logistic regression model		Multivariate logistic regression model including institutions (sensitivity analysis)	
	OR (95% CI)	p-value	OR (95% CI)	p-value
Age (yr)	1.03 (1.01-1.05)	< 0.001	1.03 (1.01-1.05)	0.002
PSAD (ng/mL/mL)		< 0.001		< 0.001
< 0.15	Reference		Reference	
0.15-0.2	1.21 (0.86-1.72)	0.274	1.24 (0.87-1.77)	0.227
> 0.2	1.85 (1.37-2.51)	< 0.001	1.86 (1.37-2.54)	< 0.001
Positive biopsy cores		0.008		0.004
1	Reference		Reference	
2	1.24 (0.87-1.76)	0.232	1.27 (0.89-1.82)	0.189
≥ 3	1.62 (1.17-2.25)	0.004	1.76 (1.26-2.47)	< 0.001
Maximum cancer involvement rate in any core (%)		< 0.001		< 0.001
≤ 20	Reference		Reference	
> 20 and < 50	1.42 (1.04-1.92)	0.025	1.43 (1.05-1.95)	0.024
> 50	2.35 (1.57-3.50)	< 0.001	2.32 (1.54-3.51)	< 0.001
Institutions				< 0.001
AMC	-		Reference	
KNUH	-	-	2.65 (1.01-6.97)	0.049
CNUHH	-	-	1.99 (0.78-5.06)	0.150
SMC	-	-	1.06 (0.71-1.59)	0.769
SNUH	-	-	0.75 (0.50-1.10)	0.141
PNUH	-	-	0.55 (0.25-1.20)	0.131
SNUBH	-	-	0.49 (0.32-0.74)	< 0.001
IUHPH	-	-	0.12 (0.02-0.90)	0.039

OR, odds ratio; CI, confidence interval; PSAD, prostate specific antigen density; AMC, Asan Medical Center, KNUH, Kyungpook National University Hospital; CNUHH, Chonnam National University Hwasun Hospital; SMC, Samsung Medical Center; SNUH, Seoul National University Hospital; PNUH, Pusan National University Hospital; SNUBH, Seoul National University Bundang Hospital; IUHPH, Inje University Haeundae Paik Hospital.