

Supplementary Table 1. The p-value of PNLR according to the classification of clinicopathological characteristics

Variable	Total group				GV group				SV group			
	RFS	PFS	CSS	OS	RFS	PFS	CSS	OS	RFS	PFS	CSS	OS
Age (y)												
≥60	<0.001	0.001	<0.001	<0.001	0.117	0.051	0.020	0.033	0.005	0.029	0.002	0.001
<60	0.007	<0.001	<0.001	<0.001	0.060	0.003	0.045	0.061	0.264	0.019	0.001	0.001
Sex												
Male	<0.001	<0.001	<0.001	<0.001	0.033	0.002	0.003	0.006	0.007	0.002	<0.001	<0.001
Female	0.014	0.081	0.621	0.616	0.430	0.029	0.385	0.229	0.321	0.294	0.994	0.994
Smoker												
Yes	<0.001	<0.001	<0.001	<0.001	0.026	0.034	0.170	0.242	0.004	0.086	<0.001	<0.001
No	0.007	<0.001	<0.001	<0.001	0.099	0.004	0.005	0.005	0.218	0.011	0.007	0.007
BMI (kg/m ²)												
≥24.3	0.328	0.064	0.002	0.002	0.003	0.377	0.050	0.124	0.215	0.221	0.043	0.028
<24.3	<0.001	<0.001	<0.001	<0.001	0.665	<0.001	0.045	0.057	0.006	0.004	<0.001	<0.001
Diabetes												
Yes	0.328	0.064	0.002	0.002	-	-	-	-	-	-	-	-
No	<0.001	<0.001	<0.001	<0.001	0.005	0.001	<0.001	0.001	0.003	<0.001	<0.001	<0.001
Hypertension												
Yes	0.130	0.067	0.088	0.030	0.923	0.199	0.264	0.264	0.198	0.188	0.346	0.115
No	<0.001	<0.001	<0.001	<0.001	0.002	0.001	0.004	0.010	0.010	0.005	<0.001	<0.001
Multifocality												
Yes	<0.001	<0.001	<0.001	<0.001	0.002	0.001	<0.001	0.001	0.009	0.005	0.086	0.054
No	-	-	-	-	-	-	-	-	-	-	-	-
Tumor size ^a												
≥3	<0.001	<0.001	<0.001	<0.001	0.003	<0.001	0.001	0.003	0.002	<0.001	<0.001	<0.001
<3	0.010	0.070	<0.001	<0.001	0.001	<0.001	0.017	0.020	0.033	0.073	0.008	0.002
T stage												
Ta	-	-	-	-	-	-	-	-	-	-	-	-
T1	<0.001	<0.001	<0.001	<0.001	0.003	<0.001	0.001	0.003	0.002	<0.001	<0.001	<0.001
WHO grade												
High	<0.001	<0.001	<0.001	<0.001	0.023	0.003	0.085	0.141	0.001	0.008	<0.001	<0.001
Low	0.142	0.001	0.007	0.007	0.342	0.017	<0.001	<0.001	0.942	0.020	0.669	0.669
CIS												
Yes	0.057	0.444	0.010	0.005	0.700	0.893	0.563	0.563	0.034	0.177	0.003	0.001
No	<0.001	<0.001	<0.001	<0.001	0.004	<0.001	0.002	0.004	0.015	0.001	0.002	0.001
IVT												
Yes	0.092	0.006	<0.001	<0.001	0.009	0.005	0.075	0.051	0.008	0.020	0.162	0.095
No	<0.001	<0.001	<0.001	<0.001	0.091	0.001	0.152	0.241	<0.001	0.004	<0.001	<0.001

PNLR, preoperative neutrophil-to-lymphocyte ratio; GV, glandular variant; SV, squamous variant; RFS, recurrence-free survival; PFS, progression-free survival; CSS, cancer-specific survival; OS, overall survival; BMI, body mass index; WHO, World Health Organization; CIS, carcinoma *in situ*; IVT, intravesical therapy; -, no data.

^a:For multiple tumors, the diameter of the largest tumor was regarded as tumor size.