

Characteristics	Univariate analysis		Multivariate analysis	
	HR (95%CI)	P value	HR (95%CI)	P value
Age,years				
<50	Reference		Reference	
50-59	2.060 (0.998-4.250)	0.100	1.484 (0.694-3.175)	0.393
60-69	1.784 (0.891-3.572)	0.170	1.211 (0.588-2.492)	0.663
70-79	2.434 (1.220-4.856)	0.034	1.763 (0.858-3.622)	0.195
≥80	3.773 (1.890-7.532)	0.002	2.387 (1.162-4.904)	0.047
Sex				
Female	Reference			
Male	1.066 (0.866-1.312)	0.611		
Race				
Black	Reference		Reference	
White	0.707(0.495-1.009)	0.109	1.097 (0.747-1.609)	0.694
Other	0.400 (0.220-0.699)	0.007	0.483 (0.265-0.880)	0.046
Marital status				
No	Reference		Reference	
Yes	0.667 (0.557-0.798)	<0.001	0.782 (0.645-0.947)	0.035
Stage				
I	Reference		Reference	
II	1.601 (1.050-2.442)	0.055	1.462 (0.811-2.636)	0.289
III	1.821 (1.129-2.937)	0.024	1.287 (0.680-2.436)	0.515
IV	2.985 (1.957-4.553)	<0.001	1.250 (0.628-2.486)	0.594
T				
T1	Reference		Reference	
T2	1.294 (0.983-1.702)	0.122	1.199 (0.742-1.937)	0.533
T3	1.512 (1.107-2.067)	0.029	1.909 (1.117-3.262)	0.047
T4	2.173 (1.530-3.086)	<0.001	2.093 (1.244-3.522)	0.020
N				
N0	Reference		Reference	
N1	1.414 (1.001-1.996)	0.099	1.793 (1.010-2.923)	0.049
N2	1.700 (1.342-2.153)	<0.001	1.647 (1.137-2.387)	0.027
M				
M0	Reference		Reference	
M1	2.513 (2.019-3.127)	<0.001	3.198 (2.164-4.725)	<0.001
Surgery				
Cystectomy	Reference		Reference	
No	1.794 (1.039-3.097)	0.078	2.204 (1.235-3.934)	0.025
TURB	1.417 (1.156-1.737)	0.005	1.583 (1.234-2.032)	0.002
Other	1.157 (0.859-1.558)	0.421	1.166 (0.840-1.618)	0.442
Radiation				
None/Unknown	Reference		Reference	
Yes	0.899 (0.743-1.088)	0.359		
Chemotherapy				

No/Unknown	Reference		Reference	
Yes	0.563 (0.466-0.681)	<0.001	0.480 (0.388-0.595)	<0.001
Tumor size,mm				
≤30	Reference		Reference	
31-51	1.054 (0.853-1.304)	0.682	0.843 (0.675-1.054)	0.208
≥52	1.321 (1.054-1.657)	0.043	0.889 (0.699-1.130)	0.420