

[Original tables with all information including non-significant variables]

Table S1. Univariate and multivariate analyses of recurrence risk factors in patients with T2 and T3b including non-significant variables.

	Univariate		Multivariate	
	HR (95% CI)	p-value	HR (95% CI)	p-value
Age	0.958(0.934-0.982)	0.001	0.968(0.944-0.993)	0.012
Gender				
Female	ref.			
Male	2.830 (1.445-5.544)	0.002	2.506(1.277-4.918)	0.008
Extent of surgery				
Lobectomy	ref.			
TT and/or mRND	1.016(0.495-2.084)	0.966		
Tumor size	1.656 (1.206-2.275)	0.002	1.434(1.036-1.984)	0.030
Multifocality	1.081(0.551-2.119)	0.821		
Bilaterality	1.314(0.650-2.655)	0.447		
Lymphatic invasion	6.129(2.372-15.833)	<0.001	4.822(1.851-12.562)	0.001
Vascular invasion	0.737(0.177-3.076)	0.676		
BRAF^{V600E} positivity	0.674(0.282-1.614)	0.376		
T stage				
T2	ref.			
T3b	1.185 (0.604-2.324)	0.621		
N stage		<0.001		
N0	ref.		Ref.	0.175
N1a	8.219 (1.927-35.053)	0.004	3.588(0.728-17.672)	0.116
N1b	8.592 (1.904-39.764)	0.005	2.260(0.416-12.275)	0.345

Data are expressed as hazard ratio (HR) and 95% confidence interval (CI). A statistically significant difference was defined as $p < 0.05$. Abbreviations: TT, total thyroidectomy; mRND, modified radical neck dissection; T, tumor; N, node.

Table S2. Univariate and multivariate analyses of recurrence risk factors in patients with T2 and T3b-1 including non-significant variables.

	Univariate		Multivariate	
	HR (95% CI)	p-value	HR (95% CI)	p-value
Age	0.938(0.907-0.969)	<0.001	0.955(0.923-0.988)	0.008
Gender				
Female	ref.			
Male	2.290 (0.989-5.301)	0.053		
Extent of surgery				
Lobectomy	ref.			
TT and/or mRND	0.606(0.263-1.397)	0.240		
Tumor size	1.626(1.000-2.646)	0.050	1.574(0.923-2.682)	0.096
Multifocality	0.476(0.186-1.217)	0.121		
Bilaterality	0.428(0.127-1.446)	0.172		
Lymphatic invasion	5.599(1.895-16.544)	0.002	2.653(0.839-8.385)	0.097
Vascular invasion	0.611(0.082-4.539)	0.630		
BRAF^{V600E} positivity	0.876(0.282-2.716)	0.818		
T stage				
T2	ref.			
T3b	0.556 (0.218-1.422)	0.221		
N stage				
N0	ref.	0.001		0.093
N1a	12.957 (1.718-97.707)	0.013	6.581(0.778-55.638)	0.084
N1b	11.026 (1.288-94.378)	0.028	4.332(0.441-42.599)	0.209

Data are expressed as hazard ratio (HR) and 95% confidence interval (CI). A statistically significant difference was defined as $p < 0.05$. Abbreviations: TT, total thyroidectomy; mRND, modified radical neck dissection; T, tumor; N, node.

Table S3. Univariate and multivariate analyses of recurrence risk factors in patients with T2 and T3b-2 including non-significant variables.

	Univariate		Multivariate	
	HR (95% CI)	p-value	HR (95% CI)	p-value
Age	0.957(0.930-0.985)	0.003	0.959(0.932-0.987)	0.004
Gender				
Female	ref.			
Male	1.541 (0.708-3.357)	0.276		
Extent of surgery				
Lobectomy	ref.			
TT and/or mRND	1.146 (0.527-2.496)	0.731		
Tumor size	1.218 (0.592-2.508)	0.593		
Multifocality	1.207(0.558-2.609)	0.633		
Bilaterality	1.700(0.758-3.814)	0.198		
Lymphatic invasion	4.961(1.871-13.158)	0.001	3.208(1.159-8.882)	0.025
Vascular invasion	0.497(0.067-3.669)	0.497		
BRAF^{V600E} positivity	0.913(0.329-2.535)	0.861		
T stage				
T2	ref.		ref	
T3b	2.640 (1.198-5.817)	0.016	2.659(1.159-6.099)	0.021
N stage				
N0	ref.	0.001	ref.	0.296
N1a	6.965 (1.593-30.460)	0.010	3.079(0.611-15.523)	0.173
N1b	8.412 (1.817-38.933)	0.006	2.051(0.337-12.488)	0.436

Data are expressed as hazard ratio (HR) and 95% confidence interval (CI). A statistically significant difference was defined as $p < 0.05$. Abbreviations: TT, total thyroidectomy; mRND, modified radical neck dissection; T, tumor; N, node.

Table S4. Comparison of recurrence rate between patients with T1 and T3b-1 disease.

	T1 (<i>n</i> = 5280)	T3b-1 (<i>n</i> = 217)	p-value
Recurrence	130(2.5%)	6(2.8%)	0.778

Data are expressed as hazard ratio (HR) and 95% confidence interval (CI). A statistically significant difference was defined as $p < 0.05$. Abbreviations: T, tumor.

Table S5. Univariate Cox regression analyses of T stage as a risk factor for recurrence in patients with T1 and T3b-1.

	Univariate	
	HR (95% CI)	p-value
T stage		
T1	ref.	
T3b-1	1.118(0.493-2.533)	0.790

Data are expressed as hazard ratio (HR) and 95% confidence interval (CI). A statistically significant difference was defined as $p < 0.05$. Abbreviations: T, tumor.