

## Supplementary Material

Supplementary Table S1. Clinical and pathological data of 152 DTC patients stratified by disease status at last follow-up.

Clinical and pathological characteristics	No Evidence of Disease (N=133)	Persistence or Relapse of Disease (N=19)	P value
Female gender, N	110 (82.7)	13 (68.4)	0.138 <sup>†</sup>
Age at DTC diagnosis, yr	44 ± 13 (36-52)	40 ± 16 (28-54)	0.269
Follow-up duration, yr	9.4 ± 6.2 (4-14)	6.2 ± 5.6 (2-10)	<b>0.007</b>
Post-operative RAI administration, N	113 (85.0)	18 (94.7)	0.362 <sup>†</sup>
Multifocality, N	27 (20.3)	6 (31.6)	0.265 <sup>†</sup>
Lymph node metastases, N	24 (18.0)	4 (21.1)	0.831 <sup>†</sup>
Maximum tumor size, mm	24.3 ± 12.6 (15-30)	25.8 ± 13.2 (15-30)	0.692
PTC Histology, N	123 (92.4)	16 (84.2)	
Aggressive subtypes	19 (15.4)	6 (37.5)	0.057 <sup>†</sup>
FTC Histology, N	6 (4.5)	1 (5.2)	0.884 <sup>†</sup>
OCA Histology, N	4 (3.0)	2 (10.5)	0.115 <sup>†</sup>
Angioinvasion, N	11 (8.2)	5 (26.3)	<b>0.017<sup>†</sup></b>
Extrathyroidal Extension, N	25 (18.7)	9 (47.3)	<b>0.005<sup>†</sup></b>
Microscopic	25 (100)	5 (55.6)	
Initial risk category, N			
<u>AJCC/TNM 7<sup>th</sup> Edition</u>			
Stage I	96 (72.2)	12 (63.2)	
Stage II	18 (13.5)	1 (5.3)	
Stage III	15 (11.3)	4 (21.1)	
Stage IVa	4 (3.0)	1 (5.3)	<b>0.049<sup>†</sup></b>
Stage IVb	0 (0)	0 (0)	
Stage IVc	0 (0)	1 (5.3)	
<u>AJCC/TNM 8<sup>th</sup> Edition</u>			
Stage I	121 (91.0)	15 (78.9)	
Stage II	11 (8.3)	3 (15.8)	
Stage III	1 (0.7)	0 (0)	<b>0.038<sup>†</sup></b>
Stage IVa	0 (0)	0 (0)	
Stage IVb	0 (0)	1 (5.3)	
<u>ATA risk classification</u>			
Low	77 (57.9)	5 (26.3)	
Intermediate	50 (37.6)	10 (52.6)	<b>0.004<sup>†</sup></b>
High	6 (4.5)	4 (21.1)	

RAI, radioiodine; AJCC/TNM: American Joint Cancer Committee on tumor-node-metastasis stage; ATA: American Thyroid Association. PTC: papillary thyroid carcinoma; FTC, follicular thyroid carcinoma; OCA, oncocytic carcinoma. Continuous traits are expressed as Mean ± SD (range) and compared with the Mann-Whitney test. Categorical traits are expressed as N (%) and compared with the Chi squared test (<sup>†</sup>). Bold values denote statistical significance at P level < 0.05.