

SUPPLEMENTARY TABLE S3. INVASIVE FEATURES OF “RADIOGENIC” AND “SPORADIC” PTC IN AGE-MATCHED GROUPS

Characteristics	Children (4 to ≤14 years at surgery)			Adolescents (15 to ≤18 years at surgery)			Adults (≥19 to 28 years at surgery)					
	Rad (n=121) n (%)	Spor (n=60) n (%)	OR <sup>a</sup> [CI]	p (multi) <sup>b</sup>	Rad (n=66) n (%)	Spor (n=54) n (%)	OR [CI]	p (multi)	Rad (n=114) n (%)	Spor (n=80) n (%)	OR [CI]	p (multi)
<b>Intrathyroid spread</b>												
All cases	89 (73.6)	12 (20.0)	9.96 [4.56–21.75]	<0.0001	19 (28.8)	13 (24.1)	1.24 [0.54–2.84]	0.607	31 (27.2)	2 (15.0)	2.02 [0.95–4.29]	0.067
Non-encapsulated	88 (76.5)	12 (26.1)	8.70 [3.80–19.81]	<0.0001	18 (32.1)	12 (26.7)	1.26 [0.52–3.01]	0.611	31 (38.7)	11 (20.8)	2.37 [1.04–5.42]	0.041
Fully encapsulated	2 (33.3)	3 (21.4)	1.71 [0.09–inf]	0.370	5 (50.0)	4 (44.4)	0.40 [0.00–58.82]	1.000	10 (29.4)	6 (22.2)	1.51 [0.46–4.97]	0.497
<b>Extrathyroidal extension (T3)</b>												
All cases	83 (68.6)	24 (40.0)	2.93 [1.49–5.76]	0.002	30 (45.5)	15 (27.8)	2.17 [1.00–4.69]	0.050	35 (30.7)	14 (17.5)	2.07 [1.01–4.23]	0.046
Non-encapsulated	82 (71.3)	24 (52.2)	2.11 [1.00–4.45]	0.050	30 (53.6)	15 (33.3)	2.26 [1.00–5.11]	0.050	33 (41.2)	14 (26.4)	1.95 [0.99–4.27]	0.093
Fully encapsulated	1 (16.7)	0 (0.0)	1.97 [0.104–inf]	0.337	0 (0.0)	0 (0.0)	ND	ND	2 (6.2)	0 (0.0)	1.92 [0.22–inf]	0.312
<b>Multifocality (Tm)</b>												
All cases	7 (5.8)	5 (8.3)	0.44 [0.12–1.65]	0.226	7 (10.6)	5 (9.3)	1.06 [0.27–4.52]	1.000	22 (19.3)	16 (20.0)	0.77 [0.36–1.66]	0.502
Non-encapsulated	7 (6.1)	4 (8.7)	0.41 [0.10–1.72]	0.225	7 (12.5)	5 (11.1)	1.04 [0.26–4.55]	1.000	16 (20.0)	12 (22.6)	0.71 [0.28–1.77]	0.460
Fully encapsulated	0 (0.0)	1 (7.1)	0.44 [inf–43.48]	0.670	0 (0.0)	0 (0.0)	ND	ND	6 (17.6)	4 (14.8)	0.96 [0.18–5.46]	1.000
<b>Lymphatic/vascular invasion</b>												
All cases	103 (85.1)	39 (65.0)	3.19 [1.47–6.91]	0.003	44 (66.7)	27 (50.0)	2.12 [0.99–4.51]	0.052	45 (39.5)	28 (35.0)	1.31 [0.70–2.42]	0.397
Non-encapsulated	98 (85.2)	35 (76.1)	1.99 [0.80–4.92]	0.137	40 (71.4)	23 (51.1)	2.49 [1.08–5.78]	0.033	39 (48.7)	23 (43.4)	1.33 [0.64–2.77]	0.445
Fully encapsulated	5 (83.3)	4 (28.6)	7.63 [1.22–inf]	0.033	4 (40.0)	4 (44.4)	1.37 [0.11–27.03]	1.000	6 (17.6)	5 (18.5)	1.26 [0.26–6.49]	1.000
<b>Lymph node metastases (N1)</b>												
All cases	83 (68.6)	29 (48.3)	1.99 [1.03–3.88]	0.041	35 (53.0)	22 (40.7)	1.64 [0.79–3.42]	0.183	40 (35.1)	27 (33.7)	0.94 [0.51–1.75]	0.844
Non-encapsulated	81 (70.4)	29 (63.0)	1.17 [0.55–2.50]	0.683	33 (58.9)	22 (48.9)	1.47 [0.66–3.27]	0.347	38 (47.5)	27 (50.9)	0.74 [0.35–1.53]	0.415
Fully encapsulated	2 (33.3)	0 (0.0)	4.27 [0.533–inf]	0.125	2 (20.0)	0 (0.0)	5.52 [0.57–inf]	0.108	2 (5.9)	0 (0.0)	1.67 [0.20–inf]	0.350
<b>Distant metastases (M1)</b>												
All cases	30 (24.8)	5 (8.3)	3.23 [1.15–9.10]	0.026	9 (13.6)	1 (1.8)	7.87 [0.97–333.33]	0.055	4 (3.5)	0 (0.0)	2.02 [0.32–inf]	0.280
Non-encapsulated	30 (26.1)	5 (10.9)	2.62 [0.92–7.49]	0.072	9 (16.1)	1 (2.2)	9.01 [1.06–500.00]	0.041	4 (5.0)	0 (0.0)	1.79 [0.273–inf]	0.319
Fully encapsulated	0 (0.0)	0 (0.0)	ND	ND	0 (0.0)	0 (0.0)	ND	ND	0 (0.0)	0 (0.0)	ND	ND
<b>Tumor capsule invasion<sup>c</sup></b>	6 (100)	9 (64.3)	1.00 [1.00–1.00]	0.003	10 (100.0)	9 (100)	0.00 [0.00–inf]	1.000	28 (82.4)	16 (59.3)	3.84 [1.10–13.33]	0.034

<sup>a</sup>Sporadic PTC group was used as the reference.

<sup>b</sup>Adjusted for age and sex.

<sup>c</sup>For fully encapsulated tumors only.