

**Supplementary Table 1. Information of PTC patients**

<b>No.</b>	<b>gender</b>	<b>age</b>	<b>tumor size</b>	<b>Extrathyroidal invasion</b>	<b>Multicentricity</b>	<b>Cervical metastasis status</b>
1	female	41	1.8	-	-	NO
2	female	33	1.6	-	-	NO
3	male	55	3.2	+	+	N1a
4	female	40	1.1	-	-	NO
5	female	65	4.1	+	+	N1a
6	female	29	1.9	-	-	NO
7	female	44	1.8	-	-	NO
8	female	40	1.8	-	-	NO
9	male	58	2.3	-	-	NO
10	male	46	1.5	-	-	NO
11	female	56	3.6	+	+	N1b
12	female	63	2.8	-	-	NO
13	female	37	1.7	-	-	NO
14	female	69	3.7	+	+	N1a
15	female	43	1.9	-	-	NO
16	female	40	1.6	-	-	NO
17	female	75	3	-	+	N1a
18	female	41	1.8	-	-	NO
19	male	64	2.6	-	-	N1a
20	male	42	1.9	-	-	NO
21	female	58	3.3	-	+	N1b
22	male	48	1.5	-	+	N1a
23	female	39	1	-	-	NO
24	female	36	1.2	-	-	NO
25	male	71	4.5	+	+	N1a
26	female	80	4.6	+	-	N1a
27	female	64	1.8	-	-	NO
28	female	42	1	-	-	N1a
29	female	51	1.6	-	-	NO
30	male	69	5.6	+	+	N1a
31	female	32	1.1	-	-	NO
32	male	63	6	+	-	N1b
33	female	47	1	-	-	NO
34	female	69	4.4	+	+	N1b
35	female	35	1.9	-	-	NO
36	female	77	2.4	-	-	N1a
37	female	41	1.5	-	-	NO
38	female	74	1.2	-	+	NO
39	male	49	1.8	-	-	NO
40	female	68	2.6	-	+	N1a

41	female	43	1.8	-	-	NO
42	female	71	2.8	-	-	NO
43	female	42	1	-	-	NO
44	male	59	3.5	-	+	N1a
45	female	63	5.1	+	+	N1b
46	female	40	1.5	-	-	NO
47	male	75	2.2	-	-	NO
48	female	66	2.9	-	-	N1a
49	male	42	1.4	-	+	NO
50	female	74	0.9	-	-	N1a
51	male	60	5.5	+	+	N1b
52	female	41	1.8	-	-	NO
53	female	57	2.4	-	-	NO
54	female	38	1.9	-	-	NO
55	female	61	4.1	+	-	N1a
56	female	44	1.6	-	+	NO
57	female	76	3.9	+	+	N1b