

Supplemental Table 1: Results of imaging, pre- and post- operative PTH levels and histological results in 144 operated patients

Patient	Age/sex	CU	MIBI Scintigraphy	FCH-PET/CT	PTH preoperative (pg/mL)	PTH postoperative (pg/mL)	Histology	Para-thyroid size (mm) PoidSPP SUL max	Para-thyroid weight (g)	Para-thyroid SUL _{max}	Thyroid SUL _{max}	Detectioncoefficient SUL _{max} (%)
1	33/M	LTC	Negative	LTC	182	54	LPA	20	0.4	6.99	3.87	81
2	30/M	LTC	LTC	LTC	120	6	LPA	20	0.4	3.86	2.03	90
3	74/M	RTC	RTC	RTC	168	35	RPA	15	1.2	9.3	2.43	283
4	61/F	RTC+LTC	RTC	RTC+LTC	124	12	RPA	18	1.8	8.57+4.81	2.68	220+80
5	66/F	LTC	LTC	LTC	189	10	LPA	20	0.7	7.9	3.1	155
6	63/F	RTC	RTC	RTC	150	37	RH	20	2	13.5	2.64	411
7	47/F	RTC	RTC	RTC	95	22	RPA	25	1.8	6.17	2.7	129
8	61/F	LTC	LTC	LTC	171	25	LPA	30	1.6	5.38	1.53	252
9	53/F	LTC	LTC	LTC	113	29	LPA	24	3	4.5	1.63	176
10	78/F	LTC	LTC	LTC	59	38	LPA	17	0.6	8.76	2.64	232
11	60/F	LTC	LTC	LTC	66	24	LPA	20	1.1	6.76	4.93	37
12	54/F	LTC	LTC	LTC	64	38	LPA	13	MD	8.43	2.2	283
13	69/M	LTC	Negative	LTC	72	23	LPA	29	0.7	10.47	1.94	440
14	75/F	LTC	Negative	LTC	70	10	LPA	MD	MD	7	3.11	125
15	69/F	LTC	LTC	LTC	100	15	LH	30	2	7	1.8	289
16	63/F	RTC	Negative	RTC	140	18	RPA	8	MD	2.17	2.11	51
17	62/F	RTC	RTC	RTC	105	29	RPA	7	MD	4.2	MD	MD
18	53/F	Negative	Negative	RTC	90	18	RPA	20	0.6	15.96	0.94	1598
19	53/F	LTC	LTC	LTC	51	11	LPA	15	MD	9.64	1.87	416
20	51/F	LTC	Negative	LTC	63	12	LPA	20	0.9	4.61	2.73	69
21	50/F	LTC	Negative	LTC	119	38	LPA	MD	MD	8	1.77	352
22	60/F	LTC	Negative	LTC	118	48	LPA	10	0.5	6.85	1.09	528
23	74/F	RTC	RTC	RTC	208	44	RPA	20	MD	4.43	MD	MD
24	80/M	LTC	LTC	LTC	117	24	LPA	30	1.2	14.42	2.99	382
25	66/F	RTC+LTC	Negative	LTC	112	35	LPA	22	3	4.6	1.78	158
26	65/F	LTC	LTC	LTC	91	48	LH	15	MD	8.94	2.85	214
27	63/F	Negative	RTC+LTC	RTC+LTC	259	11	RH+LH	30+25	4.5+1.3	10.6+6.8	1.75	506+289

28	80/F	Negative	Negative	LTC	165	9	LPA	24	2	6.14	5.31	15.6
29	59/M	RTC	RTC	RTC	91	6	RPA	20	MD	4.71	2.07	128
30	66/M	Negative	RTC	RTC	263	7	RPA	24	1.4	5.37	1.45	270
31	41/F	LTC	Negative	LTC	108	37	LPA	15	0.2	4	4.82	-17
32	33/F	LTC	Negative	LTC	95	55	LPA	10	0.2	5.04	2.54	98
33	63/F	LTC	Negative	LTC	104	17	LPA	7	2	4	1.57	155
34	70/F	RTC+LTC	Negative	RTC	110	45	RPA	15	0.5	5.18	2.11	145
35	69/F	LTC	RTC+LTC	RTC	74	28	RPA	15	0.4	6.06	2.63	130
36	62/M	Negative	Negative	EL	132	16	EPA	11	MD	3.52	2.32	52
37	68/F	LTC	LTC	LTC	638	35	LPA	25	2.7	22.9	2.95	676
38	70/F	RTC	Negative	RTC	80	28	RPA	12	1	5.69	MD	MD
39	90/F	LTC	LTC	LTC	69	23	LPA	15	0.5	12.35	2.89	327
40	39/F	LTC	LTC	LTC	111	38	LPA	15	0.4	8.3	2.85	191
41	64/F	RTC	Negative	RTC	153	18	RPA	23	1.6	4.9	2.17	126
42	66/F	RTC	RTC	RTC	88	32	RPA	14	0.6	7.58	2.19	246
43	54/F	RTC	RTC	RTC	113	65	RPA	15	1.4	7.85	3.62	117
44	48/F	RTC+LTC	Negative	RTC+LTC	77	44	RH+LH	7+8	0.2+0.1	3+4.4	2.1	43+110
45	23/F	LTC	LTC	LTC	173	40	LPA	MD	0.3	11.1	1.97	463
46	71/F	RTC	RTC	RTC	119	62	RPA	18	0.4	MD	MD	MD
47	72/F	LTC	LTC	LTC	72	16	LPA	17	1	4.82	1.77	172
48	47/F	LTC	LTC	LTC	125	53	LPA	20	0.8	6.73	2.04	230
49	65/F	RTC	RTC	RTC	130	44	RPA	20	0.7	3.61	2.15	68
50	64/F	RTC	RTC	RTC	80	19	RPA	11	0.4	5.84	1.59	267
51	73/F	Negative	RTC	EL	95	42	EPA	15	0.2	7	1.78	293
52	64/M	RTC+LTC	LTC	LTC	180	64	LPA	20	1.1	7	1.79	291
53	52/F	Negative	Negative	LTC	335	15	LPA	13	0.3	3.06	1.54	99
54	37/F	LTC	Negative	LTC	150	36	LPA	30	1.1	4.65	3.34	39
55	48/F	Negative	LTC	RTC	121	32	RPA	20	MD	MD	MD	MD
56	64/F	RTC	RTC	RTC	86	55	RPA	18	0.9	8.1	2.58	214
57	78/F	Negative	RTC	RTC	135	24	RPA	23	4	5.8	2.57	126
58	87/F	RTC	RTC	RTC	281	11	RPA	9	0.2	5.55	3.04	83
59	70/F	Negative	LTC	LTC	208	8	LPA	15	0.3	5.97	2.75	237

60	43/F	Negative	LTC	RTC	147	7	LPA	14	0.1	3.99	2.06	94
61	31/M	LTC	LTC	LTC	120	28	LPA	20	0.4	3.86	MD	MD
62	56/F	LTC	Negative	LTC	124	44	LPA	10	0.2	4.02	1.06	279
63	62/F	Negative	Negative	LTC	110	36	LPA	8	0.2	6.09	MD	MD
64	49/F	RTC+LTC	RTC	RTC+LTC	56	16	RPA	14	0.4	5.08+4.09	1.74	192+135
65	56/F	RTC	RTC	RTC	100	62	RPA	18	0.9	14.5	2.83	412
66	64/F	LTC	LTC	LTC	85	62	LPA	19	0.4	3.82	1.33	187
67	61/F	RTC	RTC	RTC+LTC	110	7	RH+LH	24+11	MD	4.94+6.25	1.66	198+277
68	72/F	LTC	LTC	LTC	67	30	LPA	9	0.3	4.3	1.23	250
69	69/F	Negative	LPA	LPA	80	34	LPA	16	0.7	5.92	1.28	363
70	67/F	RTC	Negative	RTC	135	17	RPA	11	0.1	3.87	2.27	70
71	55/F	RTC	Negative	RTC	104	57	RPA	10	1.9	5.83	1.53	281
72	65/F	RTC	LTC	LTC	240	55	LPA	7	MD	2.26	1.44	57
73	62/F	Negative	Negative	LTC	100	32	LPA	10	4	5.1	1.35	278
74	59/F	LTC	Negative	LTC	106	49	LPA	12	4	MD	MD	MD
75	61/F	Negative	RTC	RTC	100	19	RPA	13	0.7	MD	MD	MD
76	55/M	Negative	LTC	LTC	89	54	LPA	15	0.1	MD	MD	MD
77	38/F	RTC	Negative	RTC	251	64	RPA	14	3	6.12	2.13	187
78	71/F	Negative	Negative	EL	143	65	EPA	23	1	4.5	1.73	160
79	71/F	RTC	Negative	RTC	144	41	RPA	12	0.2	3.8	1.7	124
80	71/F	Negative	Negative	RTC	171	60	RPA	32	0.3	3.77	1.79	111
81	79/F	Negative	Negative	EL	171	31	EPA	25	0.9	3.85	2.91	32
82	72/F	Negative	Negative	RTC	98	66	Negative	8	MD	4.15	1.62	156
83	51/M	Negative	EL	EL	92	56	EPA	18	0.5	MD	MD	MD
84	81/F	LTC	LTC	LTC	135	31	LPA	15	MD	MD	MD	MD
85	49/F	RTC	RTC	RTC	76	32	RPA	20	0.7	MD	MD	MD
86	60/F	RTC	RTC	RTC	75	31	RPA	15	0.4	5.22	1.68	211
87	50/F	RTC	Negative	Negative	75	35	RPA	10	0.1	MD	MD	MD
88	32/F	RTC	Negative	RTC	136	65	RPA	25	1.6	4.85	1.24	291
89	55/F	RTC	Negative	RTC	135	31	RPA	17	1.2	10.44	1.76	493
90	54/F	LTC	LTC	LTC	120	58	LPA	20	0.5	9.29	1.7	446

91	59/F	LTC	Negative	LTC	150	64	LPA	17	MD	4.62	1.81	155
92	41/F	RTC	Negative	RTC	82	20	RPA	MD	MD	4.32	2.88	50
93	77/M	Negative	RTC	RTC	525	59	RPA	22	2.1	5.19	1.69	207
94	85/M	RTC	RTC	RTC	121	65	RPA	25	1.2	9.69	2.03	377
95	68/F	RTC	RTC	RTC	132	62	RPA	20	1.3	10.38	2.72	281
96	77/M	RTC	Negative	RTC	93	43	RPA	17	0.5	7.21	1.17	516
97	71/F	LTC	LTC	LTC	90	44	LPA	MD	MD	3.75	1.74	115
98	74/F	RTC	Negative	RTC	200	52	RPA	15	1.1	4.32	1.87	131
99	85/M	RTC	RTC	RTC	70	42	RPA	15	0.7	1.56	1.22	279
100	74/M	LTC	LTC	LTC	351	18	LPA	17	1	MD	MD	MD
101	54/F	RTC	RTC	RTC	230	11	RPA	26	4	6.94	1	594
102	40/F	RTC	RTC	RTC	74	82	RPA	20	MD	2.78	2.58	78
103	63/F	RTC	RTC	RTC	85	73	RPA	19	1,3	6.72	1.59	323
104	39/F	RTC	RTC	RTC	133	75	RPA	13	0,7	6.69	2.39	180
105	69/F	RTC	RTC	RTC	224	22	RPA	MD	MD	3.68	1.63	126
106	65/F	LTC	LTC	LTC	102	45	LPA	17	1,1	10	2.03	393
107	67/F	RTC	Negative	RTC	227	76	RPA	18	1	3.1	1.42	118
108	45/F	Negative	RTC	RTC	98	11	RPA	14	0,4	9.48	1.52	524
109	54/F	LTC	LTC	LTC	160	54	LPA	MD	MD	3.1	2.92	62
110	48/F	RTC	RTC	RTC	79	44	RPA	12	0,8	8.91	1.08	725
111	57/F	RTC	RTC	RTC	109	77	RPA	21	0,9	13.14	2.92	350
112	47/M	RTC	Negative	RTC	75	11	RPA	21	0,9	MD	MD	MD
113	82/F	LTC	LTC	LTC	178	82	LPA	MD	MD	2.85	0.89	220
114	70/F	Negative	LTC	LTC	209	126	LPA	25	1,1	6.66	1.29	416
115	70/F	LTC	LTC	LTC	93	58	LPA	12	0,4	3.99	1.58	152
116	81/F	Negative	RTC	RTC	185	52	RPA	12	0.3	2.43	1.3	87
117	60/F	RTC	Negative	RTC	82	74	RPA	8	0.4	MD	MD	MD
118	60/M	RTC	RTC	RTC	115	39	RPA	17	0.7	3.12	1.17	167
119	65/F	RTC	RTC	RTC	125	53	RPA	15	MD	2.81	1.86	51
120	69/F	LTC	LTC	LTC	105	26	LPA	19	MD	10.3	2.51	310
121	69/F	Negative	LTC	LTC	113	105	LPA	11	MD	2.93	2.88	17
122	77/F	Negative	LTC	LTC	395	46	LPA	27	MD	7.17	0.44	153

123	77/F	LTC	LTC	LTC	90	52	LPA	17	0.8	13.6	2.75	395
124	74/F	RTC	Negative	RTC+LTC	144	30	LPA	15	2	6.35	2	217
125	46/F	RTC	RTC	RTC	849	94	RPA	29	6.8	8.86	1.94	357
126	82/M	Negative	Negative	LTC	146	85	LPA	27	1.9	6.74	2.14	215
127	69/F	LTC	Negative	RTC+LTC	139	62	RPA+LPA	18+14	MD	7.24+7.11	1.35	436+427
128	77/F	RTC	RTC	RTC	39	27	RPA	15	2	3.24	1.99	63
129	53/M	RTC	RTC	RTC	158	40	RPA	35	MD	4.82	2.04	136
130	70/M	RTC	RTC	RTC	273	65	RPA	25	1.8	8.64	2.5	25
131	51/M	RTC+LTC	RTC	RTC+LTC	75	23	RPA+LPA	25+15	0.7+0.3	4.77	1.84	159
132	59/F	LTC	LTC	LTC	102	13	LPA	12	0.4	5.29	2.31	129
133	56/F	Negative	LTC	LTC	140	43	LPA	16	MD	5.52	2.13	159
134	63/M	Negative	RTC	RTC	120	33	RPA	11	0.2	4.09	1.97	108
135	75/F	LTC	LTC	LTC	149	75	LPA	17	MD	3.64	2.99	22
136	51/F	RTC	RTC	RTC	120	50	RPA	12	0.3	4.3	3.97	83
137	37/M	Negative	Negative	LPA	164	94	LPA	12	0.7	10.82	2.43	345
138	59/F	Negative	RTC	RTC	109	6	RPA	20	0.8	4.3	1.79	140
139	72/F	RTC	RTC	RTC	137	20	RPA	15	0.5	MD	MD	MD
140	66/F	LTC	LTC	LTC	250	77	LPA	12	MD	8.8	2.02	336
141	63/M	LTC	LTC	LTC	293	99	LPA	35	7.5	4.74	1.87	153
142	74/F	LTC	LTC	LTC	165	95	LPA	MD	0.6	9.79	3.25	201
143	65/F	LTC	LTC	LTC	102	95	LPA	14	MD	6.39	3.73	71
144	73/F	RTC+LTC	Negative	RTC+LTC	200	90	RPA+LPA	12+9	0.5+0.8	4.79+3.93	2.16	122+81

PTH: parathormone; M: male; F: female; LTC: hyper-functional left parathyroid thyroid compartment; RTC: hyper-functional right parathyroid thyroid compartment; LH: left parathyroid hyperplasia; RH: right parathyroid hyperplasia; EL: ectopic location; LPA: left parathyroid adenoma; RPA: right parathyroid adenoma; EPA: ectopic parathyroid adenoma; MD: missing data