

Figure 2. Surgical Cases at the Thyroid Endocrinology Department of Fukushima Medical Hospital from 2012 to the end of 2018

Test	Total	Male	Female	Age at time of operation (M/F)			Max. diameter of tumor (Avg. + SD (mm))	Location of tumor	
				Under 15	15-19	20 or over		Lobe (Left. Right, Isthmus)	
							Range (mm)	Both lobes	
1 st Test (Preliminary)	94	32	62	10	54	28	15.8 ± 9.8	92 (49/42/1)	
				(2/8)	(23/31)	(7/21)	5.9 - 60.0	2	
2 nd Test	52	20	29	10	27	15	13.7 ± 6.5	49 (29/19/1)	
				(6/4)	(8/19)	(8/7)	6.4 - 35.6	3	
3 rd Test	15	9	6	3	10	2	17.8 ± 6.9	15 (11/4/0)	
				(2/1)	(5/5)	(2/0)	10.3 - 35.2	0	
Others	19	5	14	1	7	11	21.6 ± 12.1	17 (10/7/0)	
				(1/0)	(2/5)	(2/9)	7 - 43	2	
TOTALS	180	65	114	24	98	56	16.0 ± 9.3	173 (99/72/2)	
				(11/13)	(38/60)	(19/37)	5.9 - 60.0	7	

pTNM Observations		1 st (Prelim)	2nd	3rd	Other	Totals	%
pT1a	Max. diameter 1cm or less (microcancer) limited to thyroid	17	20	1	1	39	21.7%
pT1b	Max. diameter exceeding 1cm to 2cm or less limited to thyroid	33	7	2	6	48	26.7%
pT2	Max. diameter exceeding 2cm to 4cm or less limited to thyroid	3	0	0	1	4	2.2%
pT3	Tumor of max. diameter exceeding 4cm limited to thyroid or microtumors extending outside the thyroid membrane	41	25	11	11	88	48.9%
pT4	Tumors extending beyond the thyroid membrane to organs other than the sternothyroid muscle and surrounding adipose tissue	0	0	1	0	1	0.6%
pN0	No metastasis to lymph nodes	24	7	3	2	36	20.0%
pN1a	Metastasis to lymph node in central region of neck	53	42	11	9	115	63.9%
pN1b	Metastasis to lymph nodes in the outer side of neck from one or both or opposite lobe	17	3	1	2	23	12.8%
<i>pN1</i>	<i>Metastasis to adjacent lymph node</i>	<i>70</i>	<i>45</i>	<i>12</i>	<i>11</i>	<i>138</i>	<i>76.7%</i>
pNx	Assessment of adjacent lymph node not possible				6	6	3.3%
pEx0	Extension does not go beyond thyroid membrane	54	26	3	11	94	52.2%
pEx1	Extension exceeds thyroid membrane but is restricted to sternothyroid muscle or adipose tissue	40	25	11	8	84	46.7%
pEx2	Extension exceeds thyroid membrane and has clearly extended to tissues other than the above or other organs	0	0	1	0	1	0.6%
pExx	Assessment of extension beyond thyroid not possible	0	1	0	0	1	0.6%
cM0	Distant metastasis not recognized	91	52	15	19	177	98.3%
cM1	Distant metastasis recognized	3	0	0	0	3	1.7%
pT1a/pN0/M0 (low risk tumors)						13	7.2%
Operative procedures		1 st (Prelim)	2nd	3rd	Other	Totals	%
Total thyroidectomy		8	4	2	2	16	8.9%
Lobectomy		86	48	13	17	164	91.1%

Shinichi Suzuki, Childhood and Youth Thyroid Gland Consultations in Japan, Second Fukushima Health Management International Symposium on Radiology, January 31, 2020