

sTable 1. Characteristics of explanatory variables of eligible people (Imputed Data)

Imputed Data^a N=253346							
	N	Detected suspected thyroid cancer cases (DSTC cases)	Total person years (PY) ^b	DR ^c (per 100000 PY)	DRR ^d	DRR 95%CI ^e	
ALL	253346	97	939207.2	10.328	—	—	
missing	0	—	—	—	—	—	
External radiation exposure mSv							
[0,1) ^f (reference)	140153	49	515253.7	9.510	1	—	
[1,2)	96195	40	359329.8	11.132	1.173	0.773-1.781	
[2,3)	16470	8	62509.1	12.798	1.343	0.636-2.836	
[3,4)	446	0	1779.7	0	—	—	
[4,5)	44	0	174.5	0	—	—	
[5,6)	22	0	93.2	0	—	—	
[6,7)	5	0	22.2	0	—	—	
[7,8)	5	0	20.8	0	—	—	
[8,9)	6	0	24.2	0	—	—	
[9,∞)	0	0	—	—	—	—	
External radiation exposure mSv							
<1 (reference)	140153	49	515253.7	9.510	1	—	
1+	113193	48	423953.4	11.322	1.193	0.801-1.776	
missing	0	—	—	—	—	—	
Sex							
Boy (reference)	127373	41	471312.4	8.699	1	—	
Girl	125973	56	467894.7	11.969	1.381	0.923-2.065	
missing	0	0	—	—	—	—	
Age (years)							
[3,9)	62126	0	246577.7	0	0	—	
[9,12) (reference)	49500	10	201164.8	4.971	1	—	
[12,15)	52849	24	208325.8	11.520	2.320	1.110-4.850	
[15,18)	50091	31	162664.8	19.058	3.834	1.880-7.820	
[18,25)	28456	30	79000.9	37.974	8.764	4.280-17.900	
[25,∞)	1	0	4.112	0	0	—	
missing	10323	2	—	—	—	—	
Past medical history (PMH)							
No (reference)	219913	79	814084.9	9.704	1	—	
Yes	33433	18	125122.2	14.386	1.484	0.889-2.476	
missing	0	—	—	—	—	—	
Family history of thyroid cancer (FTC)							
No (reference)	233404	90	864569	10.410	1	—	
Yes	19942	7	74638.1	9.379	0.902	0.418-1.947	
missing	0	—	—	—	—	—	
Frequency of eating seafood (FESF)							
0 or 1-2/week (reference)	188666	73	696322.5	10.484	1	—	
3-5 or 6-7/week	64680	24	242884.7	9.881	0.938	0.592-1.488	
missing	0	—	—	—	—	—	
Frequency of eating seaweed (FESW)							

0 or 1-2/week (reference)	201348	79	744322.6	10.614	1	
3-5 or 6-7/week	51998	18	194884.5	9.236	0.867	0.52-1.446
missing	0	—	—	—	—	—
Six districts						
North (reference)	66729	29	252114.4	11.503	1	—
Central	70545	23	253836	9.061	0.786	0.455-1.358
South	20328	5	72802.6	6.868	0.594	0.23-1.535
Soso	23103	12	94917.9	12.643	1.102	0.562-2.159
Iwaki	42948	19	167604.4	11.336	0.984	0.552-1.754
Aizu + Minami Aizu	29693	9	97931.8	9.190	0.793	0.376-1.676
missing	0	—	—	—	—	—
Overweight						
No (reference)	200222	70	740582.5	9.452	1	—
Yes	53124	27	198624.7	13.594	1.429	0.917-2.228
missing	0	—	—	—	—	—

^aImputed Data: for cases in which missing external radiation-dose data were estimated by imputation,

^bPY: person-years,

^cDR: detection rate per 10⁵ people,

^d95%CI: 95% Confidence Interval,

^eDRR : detection rate ratio,

^f[a,b): the interval with greater than or equal to a and less than b