Basic Survey (Radiation Dose Estimates)

Reported on 27 December 2016

1. Response Rates and Radiation Dose Estimates

1.1 Response Rates of Residents

The overall effective response rate to the Basic Survey (radiation dose estimates), for the entire population of Fukushima Prefecture, was 27.5% (565,904 of 2,055,305) as of 30 September 2016. Among the respondents, 72,513 answered through the simplified questionnaire. (See Table 1.)

Table 2 shows the response rates by age group.

Table 1 Response rates to the Basic Survey													
	As of 30 September 2016												
Survey	population	2,055,305											
	Original 493,391 24.0%												
Responses	Simplified questionnaire*	72,513	3.5%										
	Total 565,904 27.5%												
*Preliminary figures													
Fractions have been rounded.													

Table 2		Response rates by age group As of 30 September 2016											
Age group (years)	0-9	10-19	20-29	30-39	40-49	50-59	60-	Total					
Response rate	46.4%	35.7%	18.1%	24.7%	22.4%	22.9%	27.9%	27.5%					
		•	•	•	•		•	•					

1.2 Radiation Dose Estimates

Doses have been estimated for 551,510 of 565,904 respondents (97.5%) as of 30 September 2016, and results have been returned to 551,110 respondents. (See Table 3.)

Table 3	F	Response rat	es to the Ba	asic Survey							
		•				As of 30 Se	ptember 2016				
	Survey		Response	Completed		Returned					
Area	population	Responses	rate	dose	Proportion	results	Proportion				
Alca			Tale	estimates							
	а	b	c=b/a	d	e=d/b	f	g=f/b				
Kempoku	504,038	152,135	30.2%	148,951	97.9%	148,816	97.8%				
Kenchu	557,218	136,228	24.4%	133,095	97.7%	133,036	97.7%				
Kennan	152,228	35,042	23.0%	34,229	97.7%	34,204	97.6%				
Aizu	267,202	57,788	21.6%	55,585	96.2%	55,532	96.1%				
Minami-aizu	30,789	6,387	20.7%	6,078	95.2%	6,068	95.0%				
Soso	195,591	90,043	46.0%	87,371	97.0%	87,300	97.0%				
lwaki	348,239	88,281	25.4%	86,201	97.6%	86,154	97.6%				
Total 2,055,305 565,904 27.5% 551,510 97.5% 551,110 97.4%											
Including areas covered by the initial survey of people in Yamakiya, Namie and litate.											

^{*} Table 3 provides a more detailed view of the responses summarized in Table 1.

We have been estimating doses for non-residents who were visiting or staying in Fukushima Prefecture at the time of the accident. (See Table 4.)

Γ	Table 4	Response rates to the Basic Survey												
	(Visitors) As of 30 September 2016													
	Number of requests	Responses	Response rate	Completed dose estimates	Proportion	Returned results	Proportion							
	а	b	c=b/a	d	e=d/b	f	g=f/b							
	3,983	2,224	55.8%	2,007	90.2%	2,000	89.9%							

^{*} Table 3, 4, and Appendix 1 include the data in the estimation period less than four months.

^{*} In case uncertainties in the action record of a questionnaire prevented a radiation dose estimate, further inquiry was made to facilitate an estimate. This supplemental effort has been proceeding as much as possible, but failure to make contact with residents has prevented around 13,500 dose estimates from being completed.

2. Results of Radiation Dose Estimates

Table 5 shows a breakdown of completed dose estimates (from Table 3), excluding cases of data covering less than four months.

Radiation doses for a total of 472,841 residents have been estimated to date. The results for 463,659 respondents (excluding radiation workers) suggest that the doses for about 87% of the respondents in Kempoku area and about 92% in Kenchu area were <2 mSv. The doses for approximately 88% of the respondents in Kennan area and more than 99% of those in Aizu and Minami-aizu areas were <1 mSv. Doses for about 77% of respondents in the Soso area and more than 99% of respondents in Iwaki were also <1 mSv.

Table 5				Esti	mated e	xternal ra	diation	doses (in	itial a	nd full-so	ale su	ırveys)				As	of 30 S	Septembe	r 2016
Effective										By a	rea (ex	cluding rad	diation	workers)					
Dose (mSv)	Total	Exclu	iding radia	ation work	ers	Kempol	:u *	Kench	u	Kenn	an	Aizu	I	Minami-	-aizu	Soso	**	lwak	ci
<1	294,119	288,401	62.2%			24,893	20.0%	58,095	51.5%	25,953	88.3%	45,694	99.3%	4,947	99.3%	55,767	77.3%	73,052	99.1%
1-2	149,042	146,701	31.6%	93.8%		83,560	67.0%	46,058	40.8%	3,421	11.6%	308	0.7%	36	0.7%	12,686	17.6%	632	0.9%
2-3	25,964	25,591	5.5%		99.8%	15,650	12.6%	8,181	7.3%	17	0.1%	25	0.1%	0	-	1,688	2.3%	30	0.0%
3-4	1,575	1,495	0.3%	5.8%		472	0.4%	423	0.4%	0	-	1	0.0%	0	-	595	0.8%	4	0.0%
4-5	551	505	0.1%			40	0.0%	5	0.0%	0	-	0	-	0	-	459	0.6%	1	0.0%
5-6	441	389	0.1%	0.2%	***************************************	19	0.0%	3	0.0%	0	-	0	-	0	-	366	0.5%	1	0.0%
6-7	268	230	0.0%	0.1%		10	0.0%	1	0.0%	0	-	1	0.0%	0	-	218	0.3%	0	-
7-8	155	116	0.0%	0.1%	0.2%	1	0.0%	0	-	0	-	0	-	0	-	115	0.2%	0	-
8-9	118	78	0.0%	0.0%		1	0.0%	0	-	0	-	0	-	0	-	77	0.1%	0	-
9-10	72	41	0.0%	0.0%		0	-	0	-	0	-	0	-	0	-	41	0.1%	0	-
10-11	69	36	0.0%	0.0%		0	-	0	-	0	-	0	-	0	-	36	0.0%	0	-
11-12	52	30	0.0%	0.0%		1	0.0%	0	-	0	-	0	-	0	-	29	0.0%	0	-
12-13	37	13	0.0%	0.0%	0.0%	0	-	0	-	0	-	0	-	0	-	13	0.0%	0	-
13-14	36	12	0.0%	0.0%		0	-	0	-	0	-	0	-	0	-	12	0.0%	0	-
14-15	27	6	0.0%	0.0%		0	-	0	-	0	-	0	-	0	-	6	0.0%	0	-
<u>≥</u> 15	315	15	0.0%	0.0 /6	0.0%	0	-	0	-	0	-	0	-	0	-	15	0.0%	0	-
Total	472,841	463,659	100.0%	100.0%	100.0%	124,647	100%	112,766	100%	29,391	100%	46,029	100%	4,983	100%	72,123	100%	73,720	100%
Max	66mSv	25mSv				11mSv		6.3mSv		2.6mSv		6.0mSv		1.9mSv		25mSv		5.9mSv	
Mean value	0.9mSv	0.8mSv				1.4mSv		1.0mSv		0.6mSv		0.2mSv		0.1mSv		0.8mSv	$\overline{/}$	0.3mSv	
Median	0.6mSv	0.6mSv				1.4mSv		0.9mSv		0.5mSv		0.2mSv		0.1mSv		0.5mSv		0.3mSv	
* Including	Yamakiya.												Pe	rcentages h	nave bee	en rounded	and may	not total to	100%.
** Including	* Including Namie and litate. Excluding those with estimation period less than four months.																		

3. Evaluation of the results

The latest effective radiation dose estimates showed similar trends to those observed so far. Since previous epidemiological studies 1 indicate no significant health effects at doses ≤ 100 mSv, we concluded that radiation doses estimated so far are unlikely to cause adverse effects on health, although this conclusion is based on external radiation doses estimated only for the first four months following the accident.

Reference

1) Sources and effects of ionizing radiation, United Nations Scientific Committee on the Effects of Atomic Radiation, UNSCEAR 2008 Report to the General Assembly, with scientific annexes.



Response rates to the Basic Survey by district

Initial and full-scale surveys

As of 30 September 2016

	Initial and full-sc	ale surveys				,	As of 30 Sep	tember 2016
		Survey	Responses	Response	Completed dose	Proportion	Returned	Proportion
Area	District	population	Responses	rate	estimates	PIOPORTION	results	FIOPORTION
		а	b	c=b/a	d	e=d/b	f	g=f/b
	Fukushima	295,643	93,844	31.7%	92,149	98.2%	92,088	98.1%
	Nihonmatsu	60,857	16,908	27.8%	16,538	97.8%	16,502	97.6%
	Date	67,577	18,278	27.0%	17,772	97.2%	17,760	97.2%
	Motomiya	31,761	9,099	28.6%	8,928	98.1%	8,910	97.9%
Kempoku	Kori	13,207	3,883	29.4%	3,770	97.1%	3,770	97.1%
	Kunimi	10,316	3,028	29.4%	2,935	96.9%	2,935	96.9%
	Kawamata	15,885	5,174	32.6%	4,988	96.4%	4,983	96.3%
	Otama	8,792	1,921	21.8%	1,871	97.4%	1,868	97.2%
	Subtotal	504,038	152,135	30.2%	148,951	97.9%	148,816	97.8%
	Koriyama	339,705	86,778	25.5%	85,003	98.0%	84,969	97.9%
	Sukagawa	80,157 41,723	17,151 10,544	21.4% 25.3%	16,711 10,157	97.4% 96.3%	16,694 10,155	97.3% 96.3%
	Tamura Kagamiishi	13,109	2,887	22.0%	2,824	97.8%	2,824	97.8%
	Tenei	6,470	1,229	19.0%	1,198	97.5%	1,198	97.5%
	Ishikawa	17,488	4,202	24.0%	4,100	97.6%	4,099	97.5%
Kenchu	Tamakawa	7,337	1,500	20.4%	1,452	96.8%	1,452	96.8%
	Hirata	7,053	1,655	23.5%	1,599	96.6%	1,599	96.6%
	Asakawa	7,163	1,508	21.1%	1,473	97.7%	1,471	97.5%
	Furudono	6,319	1,309	20.7%	1,274	97.3%	1,274	97.3%
	Miharu	18,993	4,860	25.6%	4,763	98.0%	4,761	98.0%
	Ono	11,701	2,605	22.3%	2,541	97.5%	2,540	97.5%
	Subtotal	557,218	136,228	24.4%	133,095	97.7%	133,036	97.7%
	Shirakawa	65,428	15,976	24.4%	15,643	97.9%	15,629	97.8%
	Nishigo	20,089	4,975	24.8%	4,858	97.6%	4,857	97.6%
	Izumizaki	6,931	1,380	19.9%	1,341	97.2%	1,340	97.1%
	Nakajima	5,306	1,001	18.9%	976	97.5%	976	97.5%
Kennan	Yabuki	18,341	4,088	22.3%	3,982	97.4%	3,978	97.3%
	Tanagura	15,384	3,026	19.7%	2,961	97.9%	2,958	97.8%
	Yamatsuri	6,491	1,464	22.6%	1,415	96.7%	1,414	96.6%
	Hanawa	10,062	2,313	23.0% 19.5%	2,262	97.8% 96.6%	2,261	97.8% 96.6%
	Samegawa Subtotal	4,196 152,228	819 35,042	23.0%	791 34,229	97.7%	791 34,204	90.6%
	Aizuwakamatsu	127,817	29,596	23.2%	28,622	96.7%	28,590	96.6%
	Kitakata	53,199	11,055	20.8%	10,628	96.1%	10,615	96.0%
	Kitashiobara	3,276	607	18.5%	584	96.2%	583	96.0%
	Nishiaizu	7,725	1,453	18.8%	1,351	93.0%	1,350	92.9%
	Bandai	3,888	793	20.4%	775	97.7%	774	97.6%
	Inawashiro	16,271	3,647	22.4%	3,515	96.4%	3,512	96.3%
A:	Aizubange	17,881	3,261	18.2%	3,114	95.5%	3,114	95.5%
Aizu	Yugawa	3,513	713	20.3%	680	95.4%	680	95.4%
	Yanaizu	4,077	719	17.6%	687	95.5%	687	95.5%
	Mishima	2,031	373	18.4%	339	90.9%	339	90.9%
	Kaneyama	2,544	629	24.7%	573	91.1%	573	91.1%
	Showa	1,569	354	22.6%	327	92.4%	327	92.4%
	Aizumisato	23,411	4,588	19.6%	4,390	95.7%	4,388	95.6%
	Subtotal	267,202	57,788	21.6%	55,585	96.2%	55,532	96.1%
	Shimogo	6,650	1,251	18.8%	1,191	95.2%	1,186	94.8%
Minom: -:	Hinoemata	614	142	23.1%	133	93.7%	133	93.7%
Minami-aizu	Tadami Minomi oizu	5,030	1,143	22.7%	1,081	94.6% 95.4%	1,080	94.5%
	Minami-aizu	18,495	3,851 6,387	20.8% 20.7%	3,673 6,078	95.4% 95.2%	3,669 6,068	95.3% 95.0%
 	Subtotal Soma	30,789 37,363	13,294	35.6%	12,774	95.2%	12,758	96.0%
	Minami-soma	70,011	30,225	43.2%	29,455	97.5%	29,434	97.4%
	Hirono	5,164	2,219	43.0%	29,433	96.4%	2,138	96.3%
	Naraha	7,963	4,184	52.5%	4,022	96.1%	4,020	96.1%
	Tomioka	15,750	8,616	54.7%	8,411	97.6%	8,405	97.6%
	Kawauchi	2,996	1,539	51.4%	1,487	96.6%	1,487	96.6%
Soso	Okuma	11,473	6,080	53.0%	5,860	96.4%	5,858	96.3%
	Futaba	7,051	3,949	56.0%	3,845	97.4%	3,843	97.3%
	Namie	21,335	12,963	60.8%	12,670	97.7%	12,660	97.7%
	Katsurao	1,541	824	53.5%	768	93.2%	768	93.2%
	Shinchi	8,356	2,706	32.4%	2,606	96.3%	2,604	96.2%
	litate	6,588	3,444	52.3%	3,333	96.8%	3,325	96.5%
	Subtotal	195,591	90,043	46.0%	87,371	97.0%	87,300	97.0%
lwaki	lwaki	348,239	88,281	25.4%	86,201	97.6%	86,154	97.6%
1	Total	2,055,305	565,904	27.5%	551,510	97.5%	551,110	97.4%

Estimated external radiation doses in the first four months (from 11 March through 11 July)

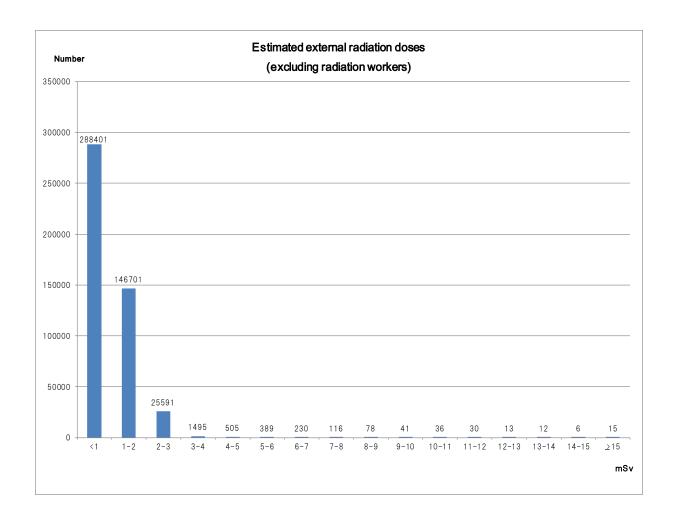
Initial and full-scale surveys

As of 30 September 2016

Estimated external radiation doses by region

Effective Dose	Total	Excluding radiation				Proportion (%) excluding						
(mSv)	lotai	workers	Kempoku	Kenchu	Kennan	Aizu	Minami-aizu	Soso	lw aki	radia	ation wor	kers
<1	294,119	288,401	24,893	58,095	25,953	45,694	4,947	55,767	73,052	62.2	93.8	
1-2	149,042	146,701	83,560	46,058	3,421	308	36	12,686	632	31.6	93.0	
2-3	25,964	25,591	15,650	8,181	17	25	0	1,688	30	5.5	5.8	99.8
3-4	1,575	1,495	472	423	0	1	0	595	4	0.3	5.0	
4-5	551	505	40	5	0	0	0	459	1	0.1	0.2	
5-6	441	389	19	3	0	0	0	366	1	0.1	0.2	
6-7	268	230	10	1	0	1	0	218	0	0.0	0.1	
7-8	155	116	1	0	0	0	0	115	0	0.0	0.1	0.2
8-9	118	78	1	0	0	0	0	77	0	0.0	0.0	
9-10	72	41	0	0	0	0	0	41	0	0.0	0.0	
10-11	69	36	0	0	0	0	0	36	0	0.0	0.0	
11-12	52	30	1	0	0	0	0	29	0	0.0	0.0	
12-13	37	13	0	0	0	0	0	13	0	0.0	0.0	0.0
13-14	36	12	0	0	0	0	0	12	0	0.0	0.0	
14-15	27	6	0	0	0	0	0	6	0	0.0	0.0	
<u>></u> 15	315	15	0	0	0	0	0	15	0	0.0	0.0	0.0
Total	472,841	463,659	124,647	112,766	29,391	46,029	4,983	72,123	73,720	100.0	100.0	100.0
Max	66	25	11	6.3	2.6	6.0	1.9	25	5.9			
Mean value	0.9	0.8	1.4	1.0	0.6	0.2	0.1	0.8	0.3			
Median	0.6	0.6	1.4	0.9	0.5	0.2	0.1	0.5	0.3	0.3		

Percentages have been rounded and may not total to 100%.



Estimated external radiation doses by age group (excluding radiation workers)

Effective			A	ge at the tin	ne of the dis	aster (years))			Total
Dose (mSv)	0 - 9	10 - 19	20 - 29	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79	80 -	Total
<1	47,978	44,466	21,263	34,144	28,568	32,835	36,305	25,716	17,126	288,401
1-2	22,931	21,629	10,079	18,232	16,600	18,526	19,487	12,284	6,933	14,701
2-3	6,420	4,247	1,129	2,332	2,240	2,966	3,423	1,995	839	25,591
3-4	250	157	81	158	153	230	233	164	69	1,495
4-5	19	47	35	39	75	95	81	76	38	505
5-6	14	13	29	34	46	86	73	66	28	389
6-7	3	6	10	22	24	45	52	47	21	230
7-8	4	4	8	9	13	35	22	14	7	116
8-9	2	6	2	7	8	16	16	12	9	78
9-10	0	1	2	3	3	12	11	5	4	41
10-11	1	1	1	2	6	11	5	6	3	36
11-12	0	0	1	3	0	5	8	11	2	30
12-13	0	0	0	0	1	6	4	1	1	13
13-14	0	0	1	1	1	4	3	2	0	12
14-15	0	0	0	0	0	3	3	0	0	6
<u>></u> 15	0	0	0	0	3	3	6	1	2	15
Total	77,622	70,577	32,641	54,986	47,741	54,878	59,732	40,400	25,082	463,659

Estimated external radiation doses by sex (excluding radiation workers)

Effective Dose		By sex			Total	Proportion (%)	
(mSv)	Male	Proportion (%)	Female	Proportion (%)		(70)	
<1	128,718	60.6	159,683	63.5	288,401	62.2	
1-2	67,995	32.0	78,706	31.3	146,701	31.6	
2-3	13,898	6.5	11,693	4.7	25,591	5.5	
3-4	951	0.4	544	0.2	1,495	0.3	
4-5	282	0.1	223	0.1	505	0.1	
5-6	199	0.1	190	0.1	389	0.1	
6-7	130	0.1	100	0.0	230	0.0	
7-8	64	0.0	52	0.0	116	0.0	
8-9	49	0.0	29	0.0	78	0.0	
9-10	24	0.0	17	0.0	41	0.0	
10-11	22	0.0	14	0.0	36	0.0	
11-12	16	0.0	14	0.0	30	0.0	
12-13	6	0.0	7	0.0	13	0.0	
13-14	8	0.0	4	0.0	12	0.0	
14-15	3	0.0	3	0.0	6	0.0	
<u>></u> 15	12	0.0	3	0.0	15	0.0	
Total	212,377	100.0	251,282	100.0	463,659	100.0	

Percentages have been rounded and may not total to 100%.

As of 30 September 2016

Estimated external radiation doses by region in the first four months (from 11 March through 11 July) excluding radiation workers

Estimated	external radiation	n doses b	y region i	in the first	four mo	onths (f) exclu	uding ra	diation	worker	S			
Are	ea/region	<1	1-2	2-3	3-4	4-5	5-6	Effective 6-7	Doses 7-8	(mSv) 8-9	9-10	10-11	11-12	12-13	13-14	14-15	<u>≥</u> 15	Total
	Fukushima	16,156	52,434	9,336	151	13	10	4	0	0	0	0	0	0	0	0	0	78,104
	Nihonmatsu	1,318	8,656	3,528	90	1	0	0	0	0	0	0	0	0	0	0	0	13,593
	Date	4,377	9,041	1,133	147	8	2	3	1	1	0	0	0	0	0	0	0	14,713
	Motomiya	744	5,452	1,257	24	1	0	0	0	0	0	0	0	0	0	0	0	7,478
Kempoku	Kori	315	2,747	66	2	0	1	0	0	0	0	0	0	0	0	0	0	3,131
	Kunimi	963	1,435	12	0	0	0	0	0	0	0	0	0	0	0	0	0	2,410
	Kawamata	630	2,738	185	56	17	6	3	0	0	0	0	1	0	0	0	0	3,636
	Otama	390	1,057	133	2	0	0	0	0	0	0	0	0	0	0	0	0	1,582
Kemno	oku Subtotal	24,893	83,560	15,650	472	40	19	10	1	1	0	0	1	0	0	0	0	124,647
Rompe	Koriyama	23,933	40,536	7,735	413	5	3	1	0	0	0	0	0	0	0	0	0	72,626
	-	10,744	3,187	334	4	0	0	0	0	0	0	0	0	0	0	0	0	14,269
	Sukagawa			23		0	0	0	0	0	0	0	0		0	0	0	
	Tamura	7,645	677		3									0				8,348
	Kagamiishi	2,337	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,411
	Tenei	395	573	57	1	0	0	0	0	0	0	0	0	0	0	0	0	1,026
Kenchu	Ishikawa	3,165	38	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3,204
	Tamakawa	1,175	18	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1,196
	Hirata	1,292	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,326
	Asakawa	1,212	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,227
	Furudono	1,059	14	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1,075
	Miharu	3,117	809	24	2	0	0	0	0	0	0	0	0	0	0	0	0	3,952
	Ono	2,021	83	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2,106
Kencl	hu Subtotal	58,095	46,058	8,181	423	5	3	1	0	0	0	0	0	0	0	0	0	112,766
	Shirakawa	12,292	1,269	9	0	0	0	0	0	0	0	0	0	0	0	0	0	13,570
	Nishigo	2,224	1,970	2	0	0	0	0	0	0	0	0	0	0	0	0	0	4,196
	Izumizaki	1,102	21	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1,124
	Nakajima	823	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	836
Kennan	Yabuki	3,347	79	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3,427
	Tanagura	2,524	28	3	0	0	0	0	0	0	0	0	0	0	0	0	0	2,555
	Yamatsuri	1,139	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,148
		1,852	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,875
	Hanawa	650	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	660
Vonn	Samegawa			17	0	0		0	0			0			0	0	0	
Kenna	an Subtotal	25,953	3,421				0			0	0		0	0				29,391
	Aizuwakamatsu	23,629	160	13	0	0	0	1	0	0	0	0	0	0	0	0	0	23,803
	Kitakata	8,888	56	3	1	0	0	0	0	0	0	0	0	0	0	0	0	8,948
	Kitashiobara	475	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	479
	Nishiaizu	1,012	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,014
	Bandai	654	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	664
	Inawashiro	2,840	30	3	0	0	0	0	0	0	0	0	0	0	0	0	0	2,873
Aizu	Aizubange	2,610	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,625
	Yugawa	579	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	583
	Yanaizu	544	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	548
	Mishima	246	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	246
	Kaneyama	405	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	408
	Showa	245	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	246
	Aizumisato	3,567	22	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3,592
Aizu	Subtotal	45,694	308	25	1	0	0	1	0	0	0	0	0	0	0	0	0	46,029
	Shimogo	961	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	966
	Hinoemata	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103
Minami-aizu	Tadami	874	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	879
	Minami-aizu	3,009	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,035
Minami-	aizu Subtotal	4,947	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,983
	Soma	10,008	458	87	20	5	0	0	0	0	2	0	0	0	0	0	0	10,580
	Minami-soma	19,100	6,219	513	99	35	3	7	4	1	0	0	1	0	0	0	0	25,982
		1,836	58	2	0	0	0	1	0	1	0	0	0	0	0	0	0	1,898
	Hirono									-			-		-	-		
	Naraha	3,393	131	13	2	0	1	1	0	0	0	0	0	0	0	0	0	3,541
	Tomioka	5,826	1,102	98	18	3	2	0	3	2	0	0	1	0	0	0	0	7,055
Soso	Kawauchi	962	350	16	1	0	1	1	1	0	0	0	0	0	0	0	0	1,332
	Okuma	3,370	1,284	112	17	6	4	4	3	0	2	2	1	0	4	0	1	4,810
	Futaba	2,671	468	77	18	6	4	3	6	2	1	0	2	0	0	0	2	3,260
	Namie	5,739	2,117	383	68	40	17	12	13	9	6	11	7	5	4	3	8	8,442
	Katsurao	502	162	24	4	0	1	0	0	0	0	0	0	0	0	0	0	693
	Shinchi	2,174	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,194
	litate	186	317	363	348	364	333	189	85	62	30	23	17	8	4	3	4	2,336
Soso	o Subtotal	55,767	12,686	1,688	595	459	366	218	115	77	41	36	29	13	12	6	15	72,123
lwaki	lwaki	73,052	632	30	4	1	1	0	0	0	0	0	0	0	0	0	0	73,720
	Total	288,401	146,701	25,591	1,495	505	389	230	116	78	41	36	30	13	12	6	15	463,659
		62.2	31.6	5.5	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.8
Prop	oortion (%)	93.		5.8		0.		0.1		0.0		0.		0.		0.0		99.9
•				99.8					0.2					0.0			0.0	100.0
V	/isitors	1,448	271	18	2	0	0	0	0	0	0	0	0	0	0	0	1	1,740
	al+Visitors	289,849	146,972	25,609	1,497	505	389	230	116	78	41	36	30	13	12	6	16	465,399
1016		_55,545		_0,000	.,	500	500	_50	. 10	. 0		00	00	10	12	J	10	. 50,500

Report of Second-Round Thyroid Ultrasound Examinations (First Full-Scale Thyroid Screening Program)

Reported on 27 December 2016

1. Summary

1.1 Purpose

In order to monitor the long-term health of children, we are now engaged in a Full-Scale Thyroid Screening Program (second round), to assess the condition of their thyroid glands following first round Preliminary Baseline Screening.

1.2 Group

Residents of Fukushima Prefecture including visitors who were born between 2 April 1992 and 1 April 2011 (Preliminary Baseline Screening), and those who were born between 2 April 2011 and 1 April 2012.

1.3 Implementation Period

Full-scale Screening started 2 April 2014 and proceeded for two years.

Thereafter we will repeat the examination every two years until the age of 20, and every five years afterwards. We will endeavor to make sure they do not let more than five years pass between the exams through age 25.

1.4 Responsible Organizations

Fukushima Prefecture commissioned Fukushima Medical University (FMU) to conduct the survey in cooperation with institutions inside and outside Fukushima.

As of 30 September 2016, we provide the primary examination at 57 medical institutions under contract, and try to have more institutions inside Fukushima Prefecture.

One hundred five institutions outside Fukushima Prefecture have agreed to cooperate as of 30 September 2016.

The confirmatory examination has been conducted in Koriyama and Iwaki in Fukushima Prefecture from July 2013, Aizuwakamatsu from August 2014, and several institutions outside Fukushima Prefecture from November 2013. There are 35 institutions that provide the examination as of 30 September 2016.

1.5 Method

1.5-1 Primary Examination

We use ultrasonography for examination of the thyroid gland.

Assessments are made by specialists on the basis of the following criteria.

-Diagnostic Criteria (A)

Those with A1 and A2 test results are recommended for watchful waiting until they undergo the next screening starting from April 2016.

A1: No nodules / cysts

A2: Nodules \leq 5.0 mm or cysts \leq 20.0 mm

-Diagnostic Criteria (B)

Those with B test results are advised to take the confirmatory examination.

B: Nodules \geq 5.1 mm or cysts \geq 20.1 mm

Some A2 test results may be re-classified as B results when clinically indicated.

-Diagnostic Criteria (C)

Those with C test results are advised to take the confirmatory examination.

C: Immediate need for confirmatory examination.

1.5-2 Confirmatory Examination

We conduct ultrasonography, blood test, urine test, and fine-needle aspiration cytology (FNAC) if needed for those with B or C test results. Priority is given to those in urgent clinical need.

1.5-3 Flow chart

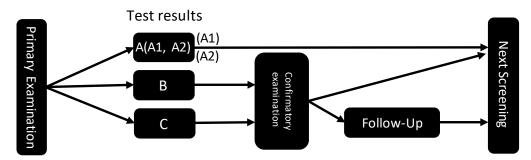


Fig.1 Flow chart

1.6 Target Municipalities

25 target municipalities for FY 2014

34 target municipalities for FY 2015



Fig.2 Target Municipalities

2. Results as of 30 September 2016

2.1 Results of Primary Examination

2.1-1 Progress Report

The Primary Examination started 2 April 2014, and the participation rate is 70.9 % (270,454 of 381,282) from 59 municipalities (25 municipalities in FY 2014, and 34 in FY 2015). (See Appendix 1 and 2.)

The results have been returned to 100.0% (270,431) of the participants. (See Appendix 3.)

Those with A1 or A2 test results were 268,209 (99.2%), B were 2,222 (0.8%), and C was 0.

Table 1. Screening test coverage as of 30 September 2016

	Survey	Participants	s		Test results					
	Population	Proportion (%)	Screened	Proportion (%)		Class	s (%)			
		1 Topor don (70)	outside	1 toportion (78)	I	A	Requiring confirmatory test			
	a	b (b/a)	Fukushima	c (c/b)	A1 d (d/c)	A2 e (e/c)	Bf(f/c)	C g (g/c)		
FY 2014	216,876	159,127 (73.4)	11,395	159,118 (100.0)	66,426 (41.7)	91,387 (57.4)	1,305 (0.8)	0 (0.0)		
FY 2015	164,406	111,327 (67.7)	4,213	111,313 (100.0)	42,249 (38.0)	68,147 (61.2)	917 (0.8)	0 (0.0)		
Total	381,282	270,454 (70.9)	15,608	270,431 (100.0)	108,675 (40.2)	159,534 (59.0)	2,222 (0.8)	0 (0.0)		

Table 2. Number and proportion of children with nodules/cysts as of 30 September 2016

	Number of confirmed	Numbe	Number and proportion of children with nodules/cysts									
	screening results	Nod	lules	Cysts								
		≥5.1 mm	≤5.0 mm	≥20.1 mm	≤20.0 mm							
	a	b (b/a)	c (c/a)	d (d/a)	e (e/a)							
FY 2014	159,118	1,301 (0.8)	1,007 (0.6)	2 (0.0)	91,802 (57.7)							
FY 2015	111,313	913 (0.8)	561 (0.5)	4 (0.0)	68,509 (61.5)							
Total	270,431	2,214 (0.8)	1,568 (0.6)	6 (0.0)	160,311 (59.3)							

Fractions have been rounded and may not total to 100%.

New records were identified, so numbers may vary slightly from previous reports.

In the case of residents age 25 with no prior visits for the First Full-Scale Thyroid Screening, they are added to the number of participants, so the numbers are expected to increase.

2.1-2 Participation rates by age group

Participation rate of age group 18-21 (as of 1 April 2014) in target municipalities for FY 2014 was 27.8%, which was lower than other age groups.

Participation rate of age group 18-22 (as of 1 April 2015) in target municipalities for FY 2015 was 23.4%, which was lower than other age groups.

Participation rate of the age group of 18 and older in target municipalities for FY 2014 and FY 2015 in total was 25.6%, which was lower than other age groups.

Table 3. Participation rates in target municipalities by age group

As of 30 September 2016

		Total		Age grou	ip (years)	•
	Age group (years)		2-7	8-12	13-17	18-21
EV 2014 toward municipalities	Survey population (a)	216,876	56,485	53,374	57,781	49,236
FY 2014 target municipalities	Participants (b)	159,127	45,329	49,783	50,338	13,677
	Proportion (%) (b/a)	73.4	80.2	93.3	87.1	27.8
	Age group (years)		3-7	8-12	13-17	18-22
	Survey population (a)	164,406	33,763	38,762	44,020	47,861
FY 2015 target municipalities	Participants (b)	111,327	25,837	36,189	38,106	11,195
	Proportion (%) (b/a)	67.7	76.5	93.4	86.6	23.4
	Survey population (a)	381,282	90,248	92,136	101,801	97,097
Total	Participants (b)	270,454	71,166	85,972	88,444	24,872
	Proportion (%) (b/a)	70.9	78.9	93.3	86.9	25.6

2.1-3 Comparison with the Preliminary Baseline Screening (Initial Screening)

Among 245,278 participants who were diagnosed as A1 or A2 in the Preliminary Baseline Screening, 243,948 (99.5%) had A1 or A2 results, and 1,330 (0.5%) were diagnosed as B from the Full-scale Survey.

Among 1,369 participants who were diagnosed as B in the Preliminary Baseline Screening, 638 (46.6%) had A1 or A2 results, and 731 (53.4%) were diagnosed as B from the Full-scale Thyroid Screening Program.

Table 4. Comparison with the Preliminary Baseline Screening

As of

Table 4. Com	paris	on with the Prelin	ninary Baseline Screeni	ng		As of 30	September 2016	
Number of test			Results of the Full-scale Thyroid Screening					
	1		results of the Preliminary Baseline	A	A			
			Screening* (%)	A1	A2	В	С	
			a	b	c	d	e	
				b/a (%)	c/a (%)	d/a (%)	e/a (%)	
		A1	125,903	83,474	42,036	393	0	
	Α	Ai	(100.0)	(66.3)	(33.4)	(0.3)	(0.0)	
	A	A2	119,375	11,493	106,945	937	0	
Results of the		AZ	(100.0)	(9.6)	(89.6)	(0.8)	(0.0)	
Preliminary		В	1,369	108	530	731	0	
Baseline		ь	(100.0)	(7.9)	(38.7)	(53.4)	(0.0)	
Screening		С	0	0	0	0	0	
		C	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	
	N	on-participants	23,784	13,600	10,023	161	0	
	110	ni-participants	(100.0)	(57.2)	(42.1)	(0.7)	(0.0)	
	Tot	a1	270,431	108,675	159,534	2,222	0	
	100	aı	(100.0)	(40.2)	(59.0)	(0.8)	(0.0)	

^{*} Results of the participants with confirmed test results of the Full-scale survey.

This is not the breakdown of the total (300,476) of confirmed screening results from the Preliminary Baseline Screening.

2.2 Results of Confirmatory Examination

2.2-1 Progress Report

The number of those who required further testing (started in June 2014) was 2,222, of whom 1,685 (75.8%) underwent confirmatory testing. Among them, 1,553 (92.2%) have completed the tests. (See Appendix 5.)

Of 1,553 participants, 378 (A1 and A2 results from Table 5) were found to be back within the range of A1 and A2, and were advised to take their next regularly scheduled examination (24.3%).

Those who require 6- or 12-month follow-up provided by health insurance were 1,175 (75.7%).

Table 5. Confirmatory testing coverage and results as of 30 September 2016

	Number of Participants those requiring		Confirmed test results						
	confirmatory test	Proportion (%)	Confirmatory test	Next screening advised		Follow-up advised			
	a	b (b/a)	coverage (%)	A1 d (d/c)	A2 e (e/c)	f (f/c)	Cytology g (g/f)		
FY 2014	1,305	1,077 (82.5)	1,036 (96.2)	37 (3.6)	237 (22.9)	762 (73.6)	148 (19.4)		
FY 2015	917	608 (66.3)	517 (85.0)	15 (2.9)	89 (17.2)	413 (79.9)	41 (9.9)		
Total	2,222	1,685 (75.8)	1,553 (92.2)	52 (3.3)	326 (21.0)	1,175 (75.7)	189 (16.1)		

Those confirmed within the range of A1 and A2 (including those with other thyroid conditions) were advised to take their next regularly scheduled examination.

Those who require 6- or 12-month follow-up provided by health insurance and those beyond the specified level of A2 were categorized as "Follow-up advised."

2.2-2 Results of Fine Needle Aspiration Biopsy and Cytology (FNAC)

Among those who underwent FNAC, 68 had nodules classified as suspicious or malignant.

Thirty-one of them were male, and 37 were female. Age at the time of the confirmatory testing ranged from 9 to 23 years (mean age: 16.9 ± 3.3 years). The minimum and maximum tumor size was 5.3-35.6 mm in diameter. Mean tumor diameter was 11.1 ± 5.7 mm.

Results from the Preliminary Baseline Screening show that 62 of the 68 participants were categorized as A (A1: 31; A2: 31), 5 as B and one other had no record.

Table 6. Results of FNAC

Target municipalities in FY 2014

Suspicious or malignant	51 *
Suspicious of mangnant	31
Male to female ratio	21: 30
Mean age (SD, min-max)	17.2 (3.1, 10-23)
	13.1 (3.1, 6-18) at the time of the disaster
Mean tumor size	9.4 mm (3.1 mm, 5.3-17.4 mm)

Target municipalities in FY 2015

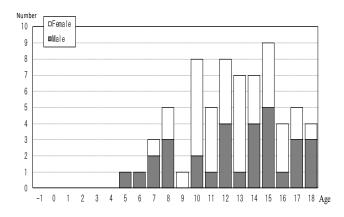
Suspicious or malignant	17 *
Male to female ratio	10: 7
Mean age (SD, min-max)	15.9 (3.6, 9-21)
	11.1 (3.3, 5-16) at the time of the disaster
Mean tumor size	16.0 mm (8.3 mm, 5.7-35.6 mm)

Target municipalities in FY 2014-2015

Suspicious or malignant	68 *
Male to female ratio	31: 37
Mean age (SD, min-max)	16.9 (3.3, 9-23)
	12.6 (3.3, 5-18) at the time of the disaster
Mean tumor size	11.1 mm (5.7 mm, 5.3-35.6 mm)

^{*} See Appendix 6 for details.

2.2-3 Suspicious or malignant cases per FNAC by age and sex



The horizontal axis begins at -1 to include residents of Fukushima Prefecture born between 2 April 2011 and 1 April 2012.

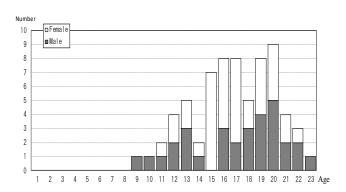


Fig.3 Age as of 11 March 2011

Fig. 4 Age as the date of confirmatory examination

2.2-4 Suspicious or malignant cases per FNAC by estimated radiation dose

Thirty-five (51.5%) of the 68 people participated in the Basic Survey (radiation dose estimates), and 35 received the results. The highest effective dose documented was 2.1 mSv.

Table 7. A breakdown of dose estimates for participants of the Basic Survey

As of 30 September 2016

Effective dose	Age at the time of the disaster										
(mSv)	0-	5	6-	10	11-	-15	16-	18	To	tal	
(IIDV)	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
<1	0	0	4	1	3	5	2	0	9	6	
1-1.9	0	0	0	1	4	4	3	3	7	8	
2-4.9	0	0	1	0	0	2	1	1	2	3	
5-9.9	0	0	0	0	0	0	0	0	0	0	
10-19.9	0	0	0	0	0	0	0	0	0	0	
≥20	0	0	0	0	0	0	0	0	0	0	
Total	0	0	5	2	7	11	6	4	18	17	

Estimates are based on effective external radiation doses.

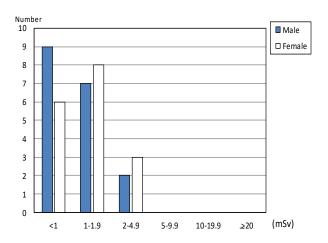


Fig. 5 Effective dose of the respondents

2.2-5 Blood and urinary iodine test results as of 30 September 2016

Table 8. Blood test results Mean±SD (Abnormal value)

Tuble of Blood test lesuns Tricks	niabb (rionomian value)					
	FT4 1) (ng/dL)	FT32) (pg/mL)	TSH3) (μIU/mL)	Tg 4) (ng/mL)	TgAb 5) (IU/mL)	TPOAb 6) (IU/mL)
Reference Range	0.95-1.74 7)	2.13-4.07 7)	0.340-3.880 7)	≤32.7	<28.0	<16.0
68 suspicious or malignant	1.2 ± 0.2 (4.4%)	3.5 ± 0.4 (2.9%)	1.7 ± 1.0 (11.8%)	42.9 <u>+</u> 111.2 (19.1%)	- (23.5%)	- (14.7%)
Other 1,483	1.2 ± 0.2 (7.3%)	3.6 ± 0.7 (6.5%)	1.3 <u>+</u> 1.0 (8.4%)	28.4 <u>+</u> 141.9 (13.4%)	- (9.2%)	- (8.1%)

Table 9. Urinary iodine (µg/day)

	Minimum	25th percentile	Median	75th percentile	Maximum
68 suspicious or malignant	43	123.8	193	439.3	2520
Other 1,477	33	116	183	357	36600

- 1) FT4: Free Thyroxine; higher among patients with thyrotoxicosis (representative disease: Graves' disease) and lower with hypothyroidism (representative disease: Hashimoto's thyroiditis).
- 2) FT3: Free Triiodothyronine; higher among patients with thyrotoxicosis (representative disease: Graves' disease) and lower with hypothyroidism (representative disease: Hashimoto's thyroiditis).
- 3) TSH: Thyroid Stimulating Hormone; higher among patients with Hashimoto's disease and lower with Graves' disease.
- Tg: Thyroglobulin; higher when thyroid tissue is destroyed or when thyroid cancer produces thyroglobulin.
 Laboratory reference range revised to ≤33.7 ng/mL as of 30 March 2015.
- 5) TgAb: Anti-Thyroglobulin Antibody; higher among patients with Hashimoto's disease and Graves' disease.
- 6) TPOAb: Anti-Thyroid Peroxidase Antibody; higher among patients with Hashimoto's disease or Graves' disease.
- 7) Reference range differs according to age.

2.2-6 Confirmatory test results by municipality as of 30 September 2016

The proportion of suspicious or malignant diagnoses was 0.03% in FY 2014 target municipalities (13 municipalities in the nationally designated evacuation zones and 12 towns of the Kempoku area), 0.02% in FY 2015 target municipalities (34 towns of Iwaki, the Kennan and Aizu areas).

Table 10. Confirmatory test results by municipality in FY 2014

Comminatory tes		Participants who	Proportion who	Number who		Proportion of
	Number of those	required	required	underwent	Suspicious or	suspicious or
	screened	confirmatory	confirmatory	confirmatory	malignant cases	malignant cases
		test	test (%)	test		(%)
Kawamata	1,763	23	1.3	20	0	0.00
Namie	2,508	28	1.1	22	2	0.08
Iitate	764	14	1.8	11	0	0.00
Minami-soma	8,908	81	0.9	70	4	0.04
Date	9,111	86	0.9	78	7	0.08
Tamura	5,006	51	1.0	43	2	0.04
Hirono	679	9	1.3	8	0	0.00
Naraha	1,001	5	0.5	5	0	0.00
Tomioka	2,002	24	1.2	21	0	0.00
Kawauchi	213	2	0.9	2	0	0.00
Okuma	1,758	16	0.9	13	2	0.11
Futaba	685	2	0.3	1	0	0.00
Katsurao	150	2	1.3	2	0	0.00
Fukushima	42,693	349	0.8	294	10	0.02
Nihonmatsu	7,885	59	0.7	51	1	0.01
Motomiya	4,809	31	0.6	26	3	0.06
Otama	1,263	6	0.5	6	0	0.00
Koriyama	48,034	364	0.8	293	17	0.04
Kori	1,635	14	0.9	10	1	0.06
Kunimi	1,240	9	0.7	8	0	0.00
Tenei	793	11	1.4	6	0	0.00
Shirakawa	9,666	63	0.7	48	1	0.01
Nishigo	3,178	28	0.9	21	1	0.03
Izumizaki	997	4	0.4	3	0	0.00
Miharu	2,386	24	1.0	15	0	0.00
Subtotal	159,127	1,305	0.8	1,077	51	0.03

Confirmatory test results by municipality in FY 2015

Confirmatory test	t results by mui	Participants who	2015 Proportion who	Number who		Proportion of
	Number of those	required	required	underwent	Suspicious or	suspicious or
	screened	confirmatory	confirmatory	confirmatory	malignant cases	malignant cases
		test	test (%)	test		(%)
Iwaki	45,252	376	0.8	240	7	0.02
Sukagawa	11,447	105	0.9	84	1	0.01
Soma	4,749	32	0.7	27	1	0.02
Kagamiishi	1,978	16	0.8	14	1	0.05
Shinchi	1,037	13	1.3	11	0	0.00
Nakajima	754	5	0.7	4	1	0.13
Yabuki	2,412	16	0.7	14	0	0.00
Ishikawa	2,027	14	0.7	12	0	0.00
Yamatsuri	740	6	0.8	4	0	0.00
Asakawa	1,030	9	0.9	8	0	0.00
Hirata	855	7	0.8	5	0	0.00
Tanagura	2,160	17	0.8	12	1	0.05
Hanawa	1,166	11	0.9	10	0	0.00
Samegawa	495	6	1.2	5	0	0.00
Ono	1,262	12	1.0	9	0	0.00
Tamakawa	964	9	0.9	5	0	0.00
Furudono	794	5	0.6	5	0	0.00
Hinoemata	66	0	0.0	0	0	0.00
Minami-aizu	1,762	16	0.9	11	0	0.00
Kaneyama	121	0	0.0	0	0	0.00
Showa	93	0	0.0	0	0	0.00
Mishima	121	1	0.8	1	0	0.00
Shimogo	614	4	0.7	2	0	0.00
Kitakata	5,727	44	0.8	27	3	0.05
Nishiaizu	654	5	0.8	3	0	0.00
Tadami	458	7	1.5	3	1	0.22
Inawashiro	1,730	12	0.7	10	0	0.00
Bandai	401	4	1.0	3	0	0.00
Kitashiobara	377	2	0.5	2	0	0.00
Aizumisato	2,538	21	0.8	10	0	0.00
Aizubange	2,063	18	0.9	11	0	0.00
Yanaizu	386	0	0.0	0	0	0.00
Aizuwakamatsu	14,578	120	0.8	54	1	0.01
Yugawa	516	4	0.8	2	0	0.00
Subtotal	111,327	917	0.8	608	17	0.02
Total	270,454	2,222	0.8	1,685	68	0.03

2.3 Mental Health Care

2.3-1 Support for participants of primary examination

Summary support results from the First and Second Full-Scale Thyroid Screening Programs are aggregated into the Report of Third-Round Thyroid Ultrasound Examinations.

2.3-2 Support for participants of confirmatory examination

We set up a support team for participants of the confirmatory examination to address their anxiety and concerns by offering online support.

Since the full-scale thyroid screening started, 774 participants (275 males and 499 females) have received support as of 30 September 2016. The number of consultations given to them was 1,460 in total. Of these, 844 (57.8%) received the support services during the first time of the examination, 570 (39%) at the second time and after including 115 (7.9%) when undergoing FNAC, and 46 (3.2%) when giving informed consent.

In cooperation with teams of medical staff at hospitals, we offer similar services to those who are recommended for a follow-up provided by health insurance.

Appendix 1

Thyroid Ultrasound Examination (TUE) coverage by municipa	ality
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As of 30 September 2016

	Survey Population	Particiţ	Screened outside	Proportion (%)	Number a	and proportion of	participants by ag	ge group		Participants living outside Fukushima	Proportion (%)
	a	b	Fukushima 3)	b/a	2-7	8-12	13-17	<u>≥</u> 18		с	c/b
Screening coverage by	y municipality in	n FY 2014	21	<u> </u>							
Kawamata	2,460	1,763	57	71.7	428	574	596	165	1	74	4.2
		·			24.3	32.6	33.8	9.4	2)		
Namie	3,772	2,508	724	66.5	654 26.1	724 28.9	761 30.3	369 14.7		791	31.5
Iitate	1,123	764	38	68.0	186 24.3	275 36.0	239 31.3	64 8.4		49	6.4
Minami-soma	12,982	8,908	1,831	68.6 -	2,314	2,924	2,668	1,002		1,885	21.2
		·			26.0	32.8	30.0	11.2			
Date	11,741	9,111	348	77.6	2,263 24.8	2,748 30.2	2,972 32.6	1,128 12.4		375	4.1
	5.00 0	# 00 c	4.50	£0.4	1,160	1,638	1,693	515			•
Tamura	7,320	5,006	150	68.4	23.2	32.7	33.8	10.3		147	2.9
Hirono	1,108	679	110	61.3	167	194	220	98		99	14.6
	,				24.6	28.6	32.4	14.4			
Naraha	1,490	1,001	139	67.2	238 23.8	296 29.6	327 32.7	140 14.0		145	14.5
					473	548	665	316			
Tomioka	3,101	2,002	461	64.6	23.6	27.4	33.2	15.8		489	24.4
77 1	260	212	22	50.2	49	75	69	20		22	10.2
Kawauchi	360	213	23	59.2	23.0	35.2	32.4	9.4		22	10.3
Okuma	2,499	1,758	396	70.3	536	541	481	200		442	25.1
Okuma	2,777	1,730	370	70.3	30.5	30.8	27.4	11.4		712	23.1
Futaba	1,258	685	260	54.5	182 26.6	229 33.4	190 27.7	12.3		265	38.7
					34	56	47	13			
Katsurao	241	150	15	62.2	22.7	37.3	31.3	8.7		12	8.0
Fukushima	55,737	42,693	2,461	76.6	11,035	12,769	13,355	5,534		3,021	7.1
Tukusiiiiia	33,131	42,093	2,401	70.0	25.8	29.9	31.3	13.0		3,021	7.1
Nihonmatsu	10,596	7,885	321	74.4	1,925	2,499	2,665	796	ļ	325	4.1
	.,	.,			24.4	31.7	33.8	10.1			
Motomiya	6,345	4,809	172	75.8	1,229 25.6	1,510 31.4	1,550 32.2	520 10.8		183	3.8
					355	398	387	123			
Otama	1,684	1,263	30	75.0	28.1	31.5	30.6	9.7		38	3.0
		40.024	2 172	71.0	11,418	15,487	15,464	5,665		2.055	0.0
Koriyama	66,762	48,034	3,172	71.9	23.8	32.2	32.2	11.8		3,855	8.0
Kori	2,137	1,635	67	76.5	380	503	551	201		56	3.4
Kon	2,137	1,033	07	70.3	23.2	30.8	33.7	12.3		30	3.4
Kunimi	1,624	1,240	45	76.4	238	382	443	177		44	3.5
	-,,,,	1,2.0	.5	70.1	19.2	30.8	35.7	14.3	-		2.5
Tenei	1,101	793	27	72.0	214	264	251	64	1	29	3.7
					27.0	33.3	31.7	8.1	1	-	
Shirakawa	12,742	9,666	335	75.9	2,547 26.4	2,942 30.4	3,124 32.3	1,053 10.9	1	394	4.1
					889	1,006	944	339	1		
Nishigo	4,173	3,178	122	76.2	28.0	31.7	29.7	10.7	1	144	4.5
Izumizala	1 227	997	24	74.6	265	314	304	114]	10	1.0
Izumizaki	1,337	997	24	74.6	26.6	31.5	30.5	11.4		19	1.9
Miharu	3,183	2,386	67	75.0	533	682	808	363	1	69	2.9
	-,	_,,,,,	~,		22.3	28.6	33.9	15.2	-		
Subtotal	216,876	159,127	11,395	73.4	39,712	49,578 31.2	50,774	19,063	ł	12,972	8.2
	1				25.0	31.2	31.9	12.0	1	L	

¹⁾ Number of participants. 2) Number of participants in the age group/Number of participants.

 $Fractions\ have\ been\ rounded\ and\ may\ not\ total\ to 100\%.\ Ages\ are\ at\ the\ time\ when\ the\ participants\ underwent\ the\ testing.$

New records were identified, so numbers may vary slightly from previous reports.

³⁾ Number of participants who underwent the test outside Fukushima.

Thyroid Ultrasound	Examination		coverage by municipality				As of 30	September 2016		
	Survey Population	Partici	Screened outside	Proportion (%)	Number	and proportion of	participants by a	ge group	Participants living outside Fukushima	Proportion (%)
	a	b	Fukushima 3)	b/a	2-7	8-12	13-17	≥18	c	c/b
Screening coverage by	y municipality ir	n FY 2015		1			1			1
Iwaki	64,309	45,252	2,244	70.4	8,299 18.3	14,274 31.5	15,528 34.3	7,151 15.8	2,432	5.4
Sukagawa	15,879	11,447	308	72.1	2,651 23.2	3,676 32.1	3,737 32.6	1,383 12.1	358	3.1
Soma	7,087	4,749	291	67.0	1,121 23.6	1,540 32.4	1,597 33.6	491 10.3	383	8.1
Kagamiishi	2,705	1,978	35	73.1	526 26.6	625	624 31.5	203	55	2.8
Shinchi	1,476	1,037	44	70.3	205 19.8	347 33.5	373	112	56	5.4
Nakajima	1,115	754	8	67.6	135	251	36.0 290	78	11	1.5
Yabuki	3,422	2,412	68	70.5	17.9 629	33.3 757	38.5 800	10.3 226	64	2.7
					26.1 482	31.4 592	33.2 718	9.4 235		
Ishikawa	2,956	2,027	42	68.6	23.8 195	29.2 225	35.4 232	11.6 88	59	2.9
Yamatsuri	1,056	740	26	70.1	26.4	30.4	31.4	11.9	15	2.0
Asakawa	1,389	1,030	43	74.2	209	317 30.8	362 35.1	142	45	4.4
Hirata	1,272	855	17	67.2	202 23.6	274 32.0	297 34.7	82 9.6	19	2.2
Tanagura	3,089	2,160	63	69.9	519	681	723	237	68	3.1
					24.0 246	31.5 362	33.5 409	11.0		
Hanawa	1,715	1,166	30	68.0	21.1	31.0	35.1	12.8	34	2.9
Samegawa	723	495	19	68.5	128 25.9	157 31.7	153 30.9	57 11.5	17	3.4
Ono	1,990	1,262	29	63.4	238 18.9	420 33.3	440 34.9	164 13.0	30	2.4
Tamakawa	1,372	964	15	70.3	208 21.6	339 35.2	319 33.1	98 10.2	11	1.1
Furudono	1,084	794	32	73.2	194 24.4	224 28.2	255 32.1	121 15.2	25	3.1
Hinoemata	110	66	4	60.0	8	20	35 53.0	3 4.5	3	4.5
Minami-aizu	2,913	1,762	48	60.5	365 20.7	578 32.8	640	179	46	2.6
Kaneyama	203	121	5	59.6	16	43	49	13	5	4.1
Showa	134	93	3	69.4	13.2 24	35.5 28	40.5 32	10.7	4	4.3
Mishima	197	121	0	61.4	25.8 15	30.1 45	34.4 50	9.7 11	1	0.8
					12.4 101	37.2 204	41.3 240	9.1 69		
Shimogo	1,011	614	15	60.7	16.4	33.2	39.1	11.2	13	2.1
Kitakata	9,236	5,727	129	62.0	1,016 17.7	1,939 33.9	2,176 38.0	596 10.4	134	2.3
Nishiaizu	1,055	654	10	62.0	136 20.8	175 26.8	271 41.4	72 11.0	13	2.0
Tadami	735	458	6	62.3	98 21.4	157 34.3	158 34.5	45 9.8	8	1.7
Inawashiro	2,757	1,730	51	62.7	349 20.2	570 32.9	602 34.8	209 12.1	59	3.4
Bandai	628	401	10	63.9	77 19.2	151 37.7	128 31.9	45 11.2	8	2.0
Kitashiobara	581	377	11	64.9	99	126	119	33	12	3.2
Aizumisato	3,790	2,538	57	67.0	26.3 522	33.4 801	31.6 903	8.8 312	56	2.2
Aizubange	3,183	2,063	39	64.8	20.6 388	31.6 669	35.6 760	12.3 246	37	1.8
Yanaizu					18.8 81	32.4 132	36.8 136	11.9 37		
	612	386	4	63.1	21.0 2,533	34.2 4,951	35.2 5,430	9.6 1,664	3	0.8
Aizuwakamatsu	23,926	14,578	491	60.9	17.4 109	34.0 156	37.2 183	11.4	559	3.8
Yugawa	696	516	16	74.1	21.1	30.2	35.5	13.2	17	3.3
Subtotal	164,406	111,327	4,213	67.7	22,124 19.9	35,806 32.2	38,769 34.8	14,628 13.1	4,660	4.2
Total	381,282	270,454	15,608	70.9	61,836 22.9	85,384 31.6	89,543 33.1	33,691 12.5	17,632	6.5

Appendix 2
Thyroid Ultrasound Examination (TUE) coverage by prefecture

As of 31 August 2016

August 2010	120 01 0.							
Participants*	Number of test venues	Prefecture	Participants*	Number of test venues	Prefecture	Participants*	Number of test venues	Prefecture
42	1	Hiroshima	20	1	Fukui	415	6	Hokkaido
20	1	Yamaguchi	147	2	Yamanashi	179	1	Aomori
11	1	Tokushima	156	2	Nagano	361	3	Iwate
22	1	Kagawa	37	1	Gifu	2,935	2	Miyagi
17	1	Ehime	135	2	Shizuoka	281	1	Akita
14	1	Kochi	243	3	Aichi	808	3	Yamagata
88	3	Fukuoka	37	1	Mie	894	4	Ibaraki
15	1	Saga	27	1	Shiga	907	7	Tochigi
36	2	Nagasaki	123	3	Kyoto	266	2	Gunma
29	1	Kumamoto	271	7	Osaka	781	2	Saitama
35	1	Oita	142	1	Hyogo	833	4	Chiba
36	1	Miyazaki	31	2	Nara	2,653	12	Tokyo
26	1	Kagoshima	8	1	Wakayama	1,372	5	Kanagawa
81	1	Okinawa	10	1	Tottori	907	2	Niigata
		,	6	1	Shimane	25	1	Toyama
15,608	105	Total	65	3	Okayama	61	1	Ishikawa

^{*} Participants who underwent testing at venues outside Fukushima carried out either by Fukushima Medical University staff (once in Niigata and Yamagata, Saitama, Chiba, and twice in Kanagawa) or by local specialists.

Appendix 3

ults of primary examinat	tion by municipality	Confirmed		Number by	tast rasults				As of 30 Sep	tember 2016
		results		Number by			Nod	ules	Су	sts
	Participants	b	A	Proporti	on (%)		Proport	ion (0/.)	Proport	ion (0/)
		Proportion (%) b/a (%)	Al	A2	В	С	≥5.1 mm	<u><</u> 5.0 mm	≥20.1 mm	<u><</u> 20.0 mm
eening coverage by mun	a nicipality in FY 201				'					
Kawamata	1,763	1,763	779	961	23	0	22	13	1	97
Kawamata	1,703	100.0	44.2	54.5	1.3	0.0	1.2	0.7	0.1	55.
Namie	2,508	2,508	1,023	1,457	28	0	28	18	0	1,46
Turne	2,500	100.0	40.8	58.1	1.1	0.0	1.1	0.7	0.0	58.
Iitate	764	764	359	391	14	0	14	3	0	39
	+	100.0	47.0	51.2	1.8	0.0	1.8	0.4	0.0	51
Minami-soma	8,908	8,908 100.0	3,815 42.8	5,012 56.3	0.9	0.0	0.9	62 0.7	0.0	5,03
		9,110	3,958	5,066	86	0.0	86	69	0.0	56.
Date	9,111	100.0	43.4	55.6	0.9	0.0	0.9	0.8	0.0	55.
		5,006	2,050	2,905	51	0.0	51	30	0.0	2,92
Tamura	5,006	100.0	41.0	58.0	1.0	0.0	1.0	0.6	0.0	58.
TT'	670	679	285	385	9	0	9	6	0	38
Hirono	679	100.0	42.0	56.7	1.3	0.0	1.3	0.9	0.0	56.
Naraha	1,001	1,001	418	578	5	0	5	8	0	57
Narana	1,001	100.0	41.8	57.7	0.5	0.0	0.5	0.8	0.0	57.
Tomioka	2,002	2,001	820	1,157	24	0	24	19	0	1,16
Tomoka	2,002	100.0	41.0	57.8	1.2	0.0	1.2	0.9	0.0	58.
Kawauchi	213	213	69	142	2	0	2	1	0	14
		100.0	32.4	66.7	0.9	0.0	0.9	0.5	0.0	67.
Okuma	1,758	1,758	760	982	16	0	16	12	0	98
		100.0	43.2	55.9	0.9	0.0	0.9	0.7	0.0	56.
Futaba	685	685	283	400	2	0	2	7	0	39
		100.0 150	41.3 74	58.4 74	0.3	0.0	0.3	1.0	0.0	58.
Katsurao	150	100.0	49.3	49.3	1.3	0.0	1.3	0.7	0.0	49
		42,692	18,064	24,279	349	0.0	347	265	0.0	24,40
Fukushima	42,693	100.0	42.3	56.9	0.8	0.0	0.8	0.6	0.0	57
277	7.005	7,885	3,436	4,390	59	0	59	55	0	4,40
Nihonmatsu	7,885	100.0	43.6	55.7	0.7	0.0	0.7	0.7	0.0	55
Motomiya	4,809	4,809	2,090	2,688	31	0	31	20	0	2,69
Wiotoililya	4,009	100.0	43.5	55.9	0.6	0.0	0.6	0.4	0.0	56
Otama	1,263	1,263	567	690	6	0	6	8	0	69
	1,200	100.0	44.9	54.6	0.5	0.0	0.5	0.6	0.0	54
Koriyama	48,034	48,028	19,246	28,418	364	0	364	280	0	28,53
	+	100.0	40.1	59.2	0.8	0.0	0.8	0.6	0.0	59
Kori	1,635	1,635 100.0	703 43.0	918 56.1	0.9	0.0	14	0.7	0.0	92
	+	1,240	492	739	9	0.0	0.9	10	1	56 74
Kunimi	1,240	100.0	39.7	59.6	0.7	0.0	0.6	0.8	0.1	59.
		793	328	454	11	0.0	11	11	0.1	46
Tenei	793	100.0	41.4	57.3	1.4	0.0	1.4	1.4	0.0	58.
		9,666	4,161	5,442	63	0	63	50	0	5,46
Shirakawa	9,666	100.0	43.0	56.3	0.7	0.0	0.7	0.5	0.0	56.
Niobi	2 170	3,178	1,356	1,794	28	0	28	25	0	1,80
Nishigo	3,178	100.0	42.7	56.5	0.9	0.0	0.9	0.8	0.0	56
Izumizaki	997	997	369	624	4	0	4	10	0	62
ızumzaki	99/	100.0	37.0	62.6	0.4	0.0	0.4	1.0	0.0	62
Miharu	2,386	2,386	921	1,441	24	0	24	13	0	1,44
17111til U	2,300	100.0	38.6	60.4	1.0	0.0	1.0	0.5	0.0	60.
Subtotal	159,127	159,118	66,426	91,387	1,305	0	1,301	1,007	2	91,80
	100,127	100.0	41.7	57.4	0.8	0.0	0.8	0.6	0.0	57.

Fractions have been rounded and may not total to 100%.

As of 30 September 2016 Results of primary examination by municipality Confirmed Number by test results Nodules Cvsts results Proportion (%) Participants Proportion (%) Proportion (%) Proportion (% \mathbf{C} A2 <5.0 mm >20.1 mm Screening coverage by municipality in FY 2015 45,245 16,904 27,965 376 0 372 232 4 28,091 45,252 Iwaki 100.0 37.4 61.8 0.8 0.0 0.8 0.5 0.0 62.1 11,446 4,439 6,902 105 105 56 0 6,955 0 11.447 Sukagawa 100.0 38.8 60.3 0.9 0.0 0.9 0.5 0.0 60.8 4,748 2,008 2,708 32 0 32 0 2,716 26 Soma 4,749 100.0 42.3 57.0 0.7 0.0 0.7 0.5 0.0 57.2 1.978 787 1.175 10 1.179 16 16 0 0 Kagamiishi 1,978 0.0 0.8 0.0 100.0 39.8 59.4 0.8 0.5 59.6 1.037 412 612 13 0 13 0 619 1,037 Shinchi 0.2 100.0 39.7 59.0 1.3 0.0 1.3 0.0 59.7 754 305 444 5 0 5 4 0 444 Nakajima 754 100.0 40.5 58.9 0.7 0.0 0.7 0.5 0.0 58.9 2,412 955 1,441 16 16 0 1,449 Yabuki 2,412 100.0 39.6 59.7 0.7 0.0 0.7 0.3 0.0 60.1 2,027 827 1,186 14 0 14 13 1,190 Ishikawa 2,027 0.0 0.0 100.0 40.8 58.5 0.7 0.7 0.6 58.7 740 269 465 467 0 0 6 6 Yamatsuri 740 100.0 36.4 62.8 0.8 0.0 0.8 0.1 0.0 63.1 1.030 444 577 9 0 9 4 0 580 Asakawa 1,030 0.4 0.9 0.0 0.9 0.0 100.0 43.1 56.0 56.3 855 362 486 7 0 7 0 491 Hirata 855 100.0 42.3 56.8 0.8 0.0 0.8 0.4 0.0 57.4 2,160 862 1,281 17 0 17 10 0 1,289 2,160 Tanagura 100.0 39.9 59.3 0.8 0.0 0.8 0.5 0.0 59.7 1,166 459 696 11 0 11 8 0 699 Hanawa 1.166 100.0 39.4 59.7 0.9 0.0 0.9 0.7 0.0 59.9 494 185 303 0 0 306 6 6 495 Samegawa 99.8 61.3 1.2 0.8 61.9 37.4 1.2 0.0 0.0 409 1,262 841 12 0 12 5 0 844 1,262 Ono 32.4 0.4 0.0 66.9 100.0 66.6 1.0 0.0 1.0 369 964 586 9 0 9 8 0 591 Tamakawa 964 0.9 100.0 38.3 60.8 0.9 0.0 0.8 0.0 61.3 794 312 477 5 0 5 4 0 479 794 Furudono 100.0 39.3 60.1 0.6 0.0 0.6 0.5 0.0 60.3 28 38 0 0 37 Hinoemata 66 100.0 42.4 57.6 0.0 0.0 0.0 1.5 0.0 56.1 1,762 688 1,058 16 5 0 1,069 16 1,762 Minami-aizu 100.0 39.0 60.0 0.9 0.0 0.9 0.3 0.0 60.7 121 39 82 0 0 0 82 0 0 Kaneyama 121 32.2 100.0 67.8 0.0 0.0 0.0 0.0 67.8 0.0 93 36 57 0 0 0 1 0 57 Showa 93 100.0 38.7 1.1 61.3 0.0 0.0 0.0 0.0 61.3 121 27 93 1 0 1 0 0 94 Mishima 121 100.0 22.3 76.9 0.8 0.0 0.8 0.0 0.0 77 7 614 250 360 4 0 4 0 362 Shimogo 614 100.0 40.7 58.6 0.7 0.0 0.7 0.5 0.0 59.0 2,126 3,556 44 44 22 3,581 5,726 0 0 5.727 Kitakata 100.0 37.1 62.1 0.8 0.0 0.8 0.4 0.0 62.5 654 288 361 0 0 361 Nishiaizu 654 100.0 44.0 55.2 0.0 0.8 0.8 55.2 0.8 0.0 278 176 275 7 458 0 0 Tadami 458 100.0 38.4 60.0 1.5 0.0 1.5 0.4 60.7 0.0 1.730 689 1.029 12 0 12 9 0 1.036 1,730 Inawashiro 100.0 39.8 59.5 0.7 0.0 0.7 0.5 0.0 59.9 401 157 240 4 0 4 1 0 243 Bandai 401 100.0 39.2 59.9 1.0 0.0 1.0 0.2 0.0 60.6 377 143 232 0 232 377 Kitashiobara 100.0 37.9 61.5 0.5 0.0 0.5 0.5 0.0 61.5 1,009 1,508 10 1,516 Aizumisato 2,538 100.0 39.8 59.4 0.8 0.0 0.8 0.0 59.7 0.4 2,063 705 1,340 18 0 18 18 0 1,347 Aizubange 2,063 0.0 0.9 100.0 34.2 65.0 0.9 0.9 0.0 65.3 386 154 232 0 0 0 0 232 Yanaizu 386 100.0 0.0 0.0 0.3 39.9 60.1 0.0 0.0 60.1 14,575 5.245 9.210 120 0 120 80 0 9,259 Aizuwakamatsu 14,578 100.0 36.0 63.2 0.8 0.0 0.8 0.5 0.0 63.5 516 181 331 4 0 4 3 0 334 516 Yugawa 100.0 35.1 64.1 0.8 0.0 0.8 0.6 0.0 64.7 111,313 42,249 917 913 68,509 68,147 0 561 4 Subtotal 111.327 0.0 0.8 0.0 61.5 100.0 61.2 0.8 270,431 159,534 2,222 108,675 0 2,214 1,568 6 160,311 270,454 Total 100.0 40.2 0.8 0.0 0.0

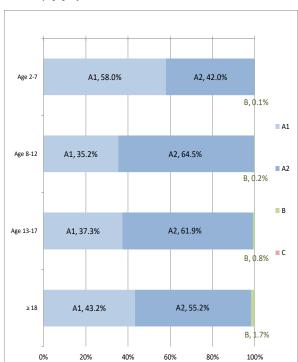
Appendix 4

1. Thyroid Ultrasound Examination results by age and sex

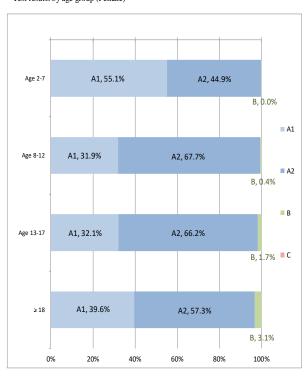
As of 30 September 2016

			A	١				В			С			Total	
		A1			A2									Total	
Ages	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
2-7	18,413	16,563	34,976	13,331	13,496	26,827	19	14	33	0	0	0	31,763	30,073	61,836
8-12	15,391	13,308	28,699	28,187	28,217	56,404	107	174	281	0	0	0	43,685	41,699	85,384
13-17	16,985	14,130	31,115	28,183	29,152	57,335	358	735	1,093	0	0	0	45,526	44,017	89,543
≥18	6,639	7,246	13,885	8,488	10,480	18,968	255	560	815	0	0	0	15,382	18,286	33,668
Total	57,428	51,247	108,675	78,189	81,345	159,534	739	1,483	2,222	0	0	0	136,356	134,075	270,431

Test results by age group (Male)



Test results by age group (Female)



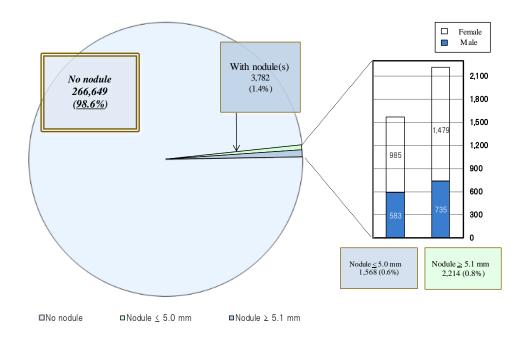
Percentages have been rounded and may not total to 100%.

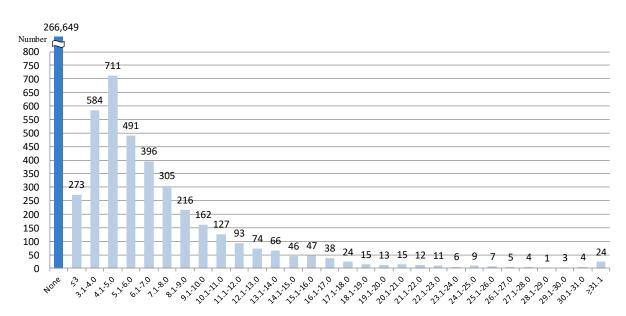
Ages are at the time when the participants underwent the testing.

2. Nodule size

As of 30 September 2016

Nodule size	Total			Class	Proportion
Nodule Size	1 Otai	M ale	Female	Class	Proportion
None	266,649	135,038	131,611	A1	98.6%
≤ 3.0 mm	273	117	156	A 2	0.6%
3.1-5.0 mm	1,295	466	829	AZ	0.0%
5.1-10.0 mm	1,570	514	1,056		
10.1-15.0 mm	406	144	262		
15.1-20.0 mm	137	55	82	В	0.8%
20.1-25.0 mm	53	8	45		
≥ 25.1 mm	48	14	34		
Total	270,431	136,356	134,075		

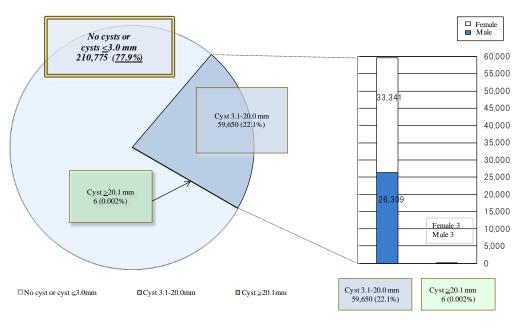


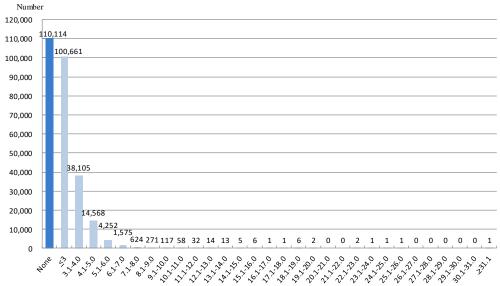


3. Cyst size

As of 30 September 2016

					•
Cyst size	Total			Class	Proportion
Cyst size	Total	Male	Female	Ciass	Troportion
None	110,114	57,948	52,166	A1	77.9%
≤ 3.0 mm	100,661	52,096	48,565		11.9%
3.1-5.0 mm	52,673	23,931	28,742		
5.1-10.0 mm	6,839	2,335	4,504	A2	22.1%
10.1-15.0 mm	122	39	83		22.1%
15.1-20.0 mm	16	4	12		
20.1-25.0 mm	4	2	2	В	0.002%
≥ 25.1 mm	2	1	1	Д	0.002%
Total	270,431	136,356	134,075		





Appendix 5

Confirmatory test results	by municipality											September 2016
		Participants who	Nun	nber of those w	ho underwent c	onfirmatory test	i .		Number	of confirmed r		ıp advised
	Number of those screened	required confirmatory test	Total	Ages 2-7	Ages 8-12	Ages 13-17	≥ 18	Total	Next screen	ning advised	1 onow-t	Aspiration biopsy
District	a	b	c	d	e	f	g	h	A1 i	A2 j	k	cytology 1
		Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%
Screening coverage by mu	ınicipality in FY 20	014		•	•		<u>. </u>		•			
Kawamata	1,763	23	20	0	3	12	5	20	3	7	10	1
THE WHITHER	1,705	1.3	87.0	0.0	15.0	60.0	25.0	100.0	15.0	35.0	50.0	10.0
Namie	2,508	28	78.6	0.0	9.1	9 40.9	50.0	100.0	0.0	9.1	90.9	15.0
Tit-t-	764	14	11	0	2	6	3	11	2	3	6	1
Iitate	764	1.8	78.6	0.0	18.2	54.5	27.3	100.0	18.2	27.3	54.5	16.7
Minami-soma	8,908	81 0.9	70 86.4	2.9	10 14.3	27	31 44.3	68 97.1	5.9	23.5	48 70.6	14 29.2
		86	78	2.9	14.3	38.6	22	75	0	23.3	70.6	29.2
Date	9,111	0.9	90.7	1.3	21.8	48.7	28.2	96.2	0.0	36.0	64.0	18.8
Tamura	5,006	51	43	1	3	29	10	41	1	10	30	6
	3,000	1.0	84.3	2.3	7.0	67.4	23.3	95.3	2.4	24.4	73.2	20.0
Hirono	679	9	8 88.9	0.0	12.5	37.5	50.0	87.5	0.0	42.9	57.1	0.0
	1.001	5	5	0.0	0	1	4	5	0.0	0	57.1	0.0
Naraha	1,001	0.5	100.0	0.0	0.0	20.0	80.0	100.0	0.0	0.0	100.0	0.0
Tomioka	2,002	24	21	0	3	4	14	20	1	5	14	1
	, , , , , , , , , , , , , , , , , , ,	1.2	87.5 2	0.0	14.3	19.0	66.7	95.2	5.0	25.0	70.0	7.1
Kawauchi	213	0.9	100.0	0.0	0.0	50.0	50.0	100.0	0.0	0.0	100.0	0.0
OI.	1 750	16	13	0	1	6	6	13	0	2	11	3
Okuma	1,758	0.9	81.3	0.0	7.7	46.2	46.2	100.0	0.0	15.4	84.6	27.3
Futaba	685	2	1	0	0	0	100.0	100.0	1 100.0	0	0	0
		0.3	50.0	0.0	0.0	0.0	100.0	100.0	100.0	0.0	0.0	0.0
Katsurao	150	1.3	100.0	0.0	100.0	0.0	0.0	100.0	0.0	100.0	0.0	0.0
Fukushima	42,693	349	294	5	39	140	110	287	12	53	222	50
T UNUDINING	12,075	0.8	84.2	1.7	13.3	47.6	37.4	97.6	4.2	18.5	77.4	22.5
Nihonmatsu	7,885	59 0.7	51 86.4	2.0	11.8	23 45.1	41.2	98.0	2.0	18.0	40 80.0	10.0
		31	26	0	11.0	15	10	24	0	4	20	5
Motomiya	4,809	0.6	83.9	0.0	3.8	57.7	38.5	92.3	0.0	16.7	83.3	25.0
Otama	1,263	6	6	0	0	4	2	6	0	3	3	0
		0.5 364	100.0	0.0	0.0	66.7 132	33.3 123	100.0	0.0	50.0	50.0 211	0.0
Koriyama	48,034	0.8	80.5	2.4	10.6	45.1	42.0	93.9	3.3	20.0	76.7	19.4
Kori	1,635	14	10	0	1	5	4	9	0	3	6	1
KUH	1,033	0.9	71.4	0.0	10.0	50.0	40.0	90.0	0.0	33.3	66.7	16.7
Kunimi	1,240	9	8	12.5	12.5	0	75.0	100.0		12.5	7 97 5	0.0
		0.7	88.9	12.5	12.5	0.0	75.0	100.0	0.0	12.5	87.5 4	0.0
Tenei	793	1.4	54.5	0.0	0.0	50.0	50.0	100.0	16.7	16.7	66.7	25.0
Shirakawa	9,666	63	48	1	4	24	19	47	1	17	29	4
	,,000	0.7	76.2	2.1	8.3	50.0	39.6	97.9	2.1	36.2	61.7	13.8
Nishigo	3,178	28 0.9	75.0	0.0	9.5	13 61.9	28.6	100.0	0.0	38.1	61.9	30.8
_		4	3	0.0	9.3	1	28.0	2	0.0	0	2	0
Izumizaki	997	0.4	75.0	0.0	0.0	33.3	66.7	66.7	0.0	0.0	100.0	0.0
Miharu	2,386	24	15	0	0	10	5	14	1	6	7	0
	2,500	1.0 1,305	62.5	0.0	0.0	66.7	33.3	93.3	7.1	42.9	50.0	0.0
,		1 205	1077	19	129	506	423	1036	37	237	762	148

h) Excluding participants who have not received the test results.

 $Fractions\ have\ been\ rounded\ and\ may\ not\ total\ to\ 100\%.\ Ages\ are\ at\ the\ time\ when\ the\ participants\ underwent\ the\ testing.$

Confirmatory test results	by municipality		Nu	mber of those w	ho underwent c	onfirmatory tes	. 1			Number	of confirmed re		eptember 2016
	Number of those	Participants who required								Number	or commune re		p advised Aspiration
	screened	confirmatory test	Total	Ages 2-7	Ages 8-12	Ages 13-17	≥18	Total		Next screer	ning advised		biopsy
District	a	ь	Ċ	d	e	f	g	h		A1 i	A2 j	k	1
		Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion	1(%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)
Screening coverage by m	unicipality in FY 20	376	240	2	22	95	121		199	6	33	160	17
Iwaki	45,252	0.8	63.8	0.8	9.2	39.6	50.4	***************************************	82.9	3.0	16.6	80.4	10.6
Sukagawa	11,447	105 0.9	84 80.0	2.4	10 11.9	39 46.4	33 39.3		75 89.3	1.3	24.0	56 74.7	5 8.9
Soma	4,749	32 0.7	27 84.4	3 11.1	7.4	14 51.9	8 29.6		24 88.9	0.0	5 20.8	19 79.2	10.5
Kagamiishi	1,978	16 0.8	14 87.5	0.0	0.0	7 50.0	7 50.0		13	0.0	2 15.4	11 84.6	9.1
Shinchi	1,037	13	11	0	2	5	4		11	1	2	8	2
Nakajima	754	1.3	84.6 4	0.0	18.2	45.5	36.4		00.0 4	9.1 0	18.2	72.7 4	25.0 1
-		0.7 16	80.0 14	0.0	0.0	75.0 5	25.0	10	14	0.0	0.0	100.0 10	25.0 0
Yabuki	2,412	0.7 14	87.5 12	0.0	21.4	35.7 8	42.9 3	10	00.0	0.0	28.6	71.4 8	0.0
Ishikawa	2,027	0.7	85.7	0.0	8.3	66.7	25.0	10	0.00	8.3	25.0	66.7	12.5
Yamatsuri	740	0.8	66.7	0.0	25.0	25.0	50.0		75.0	0.0	66.7	33.3	100.0
Asakawa	1,030	9 0.9	8 88.9	1 12.5	0.0	50.0	3 37.5	10	8	1 12.5	0.0	7 87.5	1 14.3
Hirata	855	7 0.8	5 71.4	0.0	40.0	60.0	0.0	1/	5	0.0	40.0	3 60.0	0.0
Tanagura	2,160	17	12	0	2	6	4		10	0	1	9	3
Hanawa	1,166	0.8	70.6 10	0.0	16.7 0	50.0	33.3	***************************************	83.3 9	0.0	10.0	90.0	33.3 1
		0.9	90.9	0.0	0.0	50.0	50.0	9	90.0	11.1	11.1	77.8 5	14.3
Samegawa	495	1.2 12	83.3 9	0.0	0.0	60.0	40.0	10	0.00	0.0	0.0	100.0 7	0.0
Ono	1,262	1.0	75.0	0.0	22.2	44.4	33.3	1	88.9	12.5	0.0	87.5	0.0
Tamakawa	964	9 0.9	5 55.6	0.0	0.0	80.0	20.0	10	5	0.0	20.0	80.0	0.0
Furudono	794	0.6	100.0	0.0	20.0	20.0	60.0	10	5	0.0	40.0	60.0	0.0
Hinoemata	66	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
Minami-aizu	1,762	16	11 68.8	0.0	3 27.3	6 54.5	18.2		10	0.0	20.0	80.0	0.0
Kaneyama	121	0	0	0	0	0	0		0	0	0	0	0
Showa	93	0.0	0.0	0.0	0.0	0.0	0.0	******************	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
Mishima	121	0.8	100.0	0.0	0.0	100.0	0.0	10	20.0	0.0	0.0	100.0	0.0
Shimogo	614	0.7	50.0	0.0	0.0	0.0	100.0	10	0.00	0.0	0.0	100.0	50.0
Kitakata	5,727	0.8	27 61.4	0.0	3.7	51.9	12 44.4		20 74.1	0.0	10.0	18 90.0	3 16.7
Nishiaizu	654	5 0.8	60.0	0.0	0.0	66.7	33.3	10	3	0.0	33.3	66.7	0.0
Tadami	458	7 1.5	3 42.9	0.0	0.0	66.7	33.3	10	3	0.0	0.0	3 100.0	1 33.3
Inawashiro	1,730	12 0.7	10 83.3	0.0	0.0	50.0	50.0		8 80.0	0.0	1 12.5	7 87.5	0.0
Bandai	401	4	3 75.0	0.0	0.0	0.0	3		3	0.0	0.0	3 100.0	0.0
Kitashiobara	377	2	2	0	1	0	1		2	0	0	2	0
Aizumisato	2,538	0.5	100.0 10	0.0	50.0	0.0	50.0		7	0.0	0.0	100.0	0.0
Aizubange	2,063	0.8	47.6 11	10.0	10.0	30.0	50.0		70.0 7	14.3	28.6	57.1 7	0.0
		0.9	61.1 0	0.0	0.0	45.5 0	54.5 0		63.6 0	0.0	0.0	100.0	0.0
Yanaizu	386	0.0 120	0.0 54	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
Aizuwakamatsu	14,578	0.8	45.0	0.0	3.7	55.6	40.7		74.1	5.0	12.5	82.5	3.0
Yugawa	516	0.8	50.0	0.0	0.0	100.0	0.0		50.0	0.0	0.0	100.0	0.0
Subtotal	111,327	917 0.8	608 66.3	9 1.5	56 9.2	277 45.6	266 43.8		369 85.4	15 2.9	89 17.2	413 79.9	41 9.9
		2,222	1,685	28	185	783	689	1	553	52	326	1,175	189
Total	270,454	0.8	75.8	1.7	11.0	46.5	40.9		92.2	3.3	21.0	75.7	16.1

Appendix 6

Surgical cases for malignancy or suspicion of malignancy

1. Target municipalities in FY 2014

Suspicious or malignant: 51 (36 surgical cases: 35 papillary thyroid carcinomas, 1 other thyroid carcinoma)

2. Target municipalities in FY 2015

Suspicious or malignant: 17 (8 surgical cases: 8 papillary thyroid carcinomas)

3. Total for cases FY 2014 - 2015

Suspicious or malignant: 68 (44 surgical cases: 43 papillary thyroid carcinomas, 1 other thyroid carcinoma)

Report of Third-Round Thyroid Ultrasound Examinations (Second Full-Scale Thyroid Screening Program)

Reported on 27 December 2016

1. Summary

1.1 Purpose

In order to monitor the long-term health of children, we are now engaged in the second Full-scale Thyroid Screening Program (third-round examinations). The first round was Preliminary Baseline Screening for initial assessment of thyroid glands, and the second round was the first Full-scale Thyroid Screening Program to assess any changes.

1.2 Group

In addition to those residing in Fukushima Prefecture – including visitors – who were born between 2 April 1992 and 1 April 2011, included in Preliminary Baseline Screening, the Full-scale Thyroid Screening (second- and third-round examinations) also includes those who were born between 2 April 2011 and 1 April 2012.

1.3 Implementation Period

The Second Full-scale Screening Program started 1 May 2016 and will cover examinees up to age 20 on a municipality-by-municipality schedule to FY 2017. Thereafter, we will revise the schedule to screen examinees every five years – at ages 25 and 30 for example – to make it easier for examinees to remember when they are due for examination. However, we will endeavor to make sure they do not let more than five years pass between the examinations through age 25.

1.4 Responsible Organizations

Fukushima Prefecture commissioned Fukushima Medical University (FMU) to conduct the survey in cooperation with institutions inside and outside Fukushima.

As of 30 September 2016, we provide the primary examination at 57 medical institutions under contract, and try to have more institutions inside Fukushima Prefecture.

One hundred five institutions outside Fukushima Prefecture have agreed to cooperate as of 30 September 2016.

The confirmatory examination has been conducted in Koriyama and Iwaki in Fukushima Prefecture from July 2013, Aizuwakamatsu from August 2014, and several institutions outside Fukushima Prefecture from November 2013. There are 35 institutions that provide the examination as of 30 September 2016.

1.5 Method

1.5-1 Primary Examination

We use ultrasonography for examination of the thyroid gland.

Assessments are made by specialists on the basis of the following criteria:

-Diagnostic Criteria (A)

Those with A1 and A2 test results are recommended for watchful waiting until they undergo the next screening starting from April 2018.

A1: No nodules / cysts

A2: Nodules ≤5.0 mm or cysts ≤20.0 mm

-Diagnostic Criteria (B)

Those with B test results are advised to take the confirmatory examination.

B: Nodules \geq 5.1 mm or cysts \geq 20.1 mm

Some A2 test results may be re-classified as B results when clinically indicated.

-Diagnostic Criteria (C)

Those with C test results are advised to take the confirmatory examination.

C: Immediate need for confirmatory examination.

1.5-2 Confirmatory Examination

We conduct ultrasonography, blood test, urine test, and fine-needle aspiration cytology (FNAC) if needed for those with B or C test results. Priority is given to those in urgent clinical need.

1.5-3 Flow chart

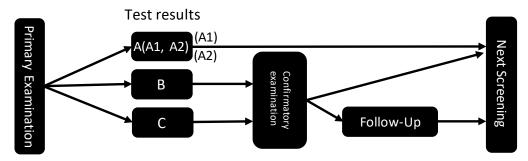


Fig.1 Flow chart

1.6 Target Municipalities

25 target municipalities for FY 2016

34 target municipalities for FY 2017



Fig.2 Target Municipalities

2. Results as of 30 September 2016

2.1 Results of Primary Examination

2.1-1 Progress Report

The Primary Examination started 1 May 2016, and the participation rate is 14.7% (49,387 of 336,609) from 59 municipalities (25 municipalities in FY 2016, and 34 in FY 2017). (See Appendix 1 and 2.)

The results have been returned to 61.3% (30,253) of the participants. (See Appendix 3.)

Those with A1 or A2 test results were 30,042 (99.3%), B were 211 (0.7%), and C was 0.

Table 1. Screening test coverage as of 30 September 2016

	Survey	Participar	ts	Test results							
	Population	Proportion (%)	Screened outside Fukushima Proportion (%)				5 (%)	<u> </u>			
	a	b (b/a)			A1 d (d/c)	A2 e (e/c)	B f (f/c)	firmatory test C g (g/c)			
FY 2016	191,843	48,482 (25.3)	2,362	29,606 (61.1)	10,711 (36.2)	18,688 (63.1)	207 (0.7)	0 (0.0)			
FY 2017	144,766	905 (0.6)	133	647 (71.5)	273 (42.2)	370 (57.2)	4 (0.6)	0 (0.0)			
Total	336,609	49,387 (14.7)	2,495	30,253 (61.3)	10,984 (36.3)	19,058 (63.0)	211 (0.7)	0 (0.0)			

Table 2. Number and proportion of children with nodules/cysts as of 30 September 2016

	Number of confirmed	Numbe	Number and proportion of children with nodules/cysts								
	screening results	Nod	ules	Су	sts						
		≥5.1 mm	≤5.0 mm	≥20.1 mm	≤20.0 mm						
	a	b (b/a)	c (c/a)	d (d/a)	e (e/a)						
FY 2016	29,606	207 (0.7)	116 (0.4)	0 (0.0)	18,789 (63.5)						
FY 2017	647	4 (0.6)	2 (0.3)	0 (0.0)	374 (57.8)						
Total	30,253	211 (0.7)	118 (0.4)	0 (0.0)	19,163 (63.3)						

Fractions have been rounded and may not total to 100%.

Excluding examinees born in FY 1992 and FY 1993, now scheduled to undergo testing every five years. Hereafter, these examinees will be accounted for separately.

2.1-2 Comparison with the First Full-scale Thyroid Screening (Second-Round Examination)

Among 28,246 participants who were diagnosed as A1 or A2 in the First Full-scale Thyroid Screening, 28,142 (99.6%) had A1 or A2 results, and 104 (0.4%) were diagnosed as B from the Second Full-scale Thyroid Screening Program.

Among 168 participants who were diagnosed as B in the First Full-scale Thyroid Screening, 73 (43.5%) had A1 or A2 results, and 95 (56.5%) were diagnosed as B from the Second Full-scale Thyroid Screening Program.

Table 3. Comparison with the First Full-scale Thyroid Screening

As of 30 September 2016

Table 5. Com	paris	on whit the Prist i	full-scale Thyrold Scre	As of 50 September					
			Number of test	Results	of the Second Ful	ll-scale Thyroid S	creening		
			results of the First Full-scale Thyroid	1	A				
			Screening*	A1	A2	В	С		
			(%)	b	с	d	e		
			a	b/a (%)	c/a (%)	d/a (%)	e/a (%)		
		A1	12,628	8,753	3,852	23	0		
	Α	Ai	(100.0)	(69.3)	(30.5)	(0.2)	(0.0)		
	A	A2	15,618	1,358	14,179	81	0		
Results of the		AZ	(100.0)	(8.7)	(90.8)	(0.5)	(0.0)		
First Full-		В	168	12	61	95	0		
scale Thyroid		ь	(100.0)	(7.1)	(36.3)	(56.5)	(0.0)		
Screening		С	0	0	0	0	0		
			(0.0)	(0.0)	(0.0)	(0.0)	(0.0)		
	N	on-participants	1,839	861	966	12	0		
	140	on paracipants	(100.0)	(46.8)	(52.5)	(0.7)	(0.0)		
	Tota	a1	30,253	10,984	19,058	211	0		
	100	w1	(100.0)	(36.3)	(63.0)	(0.7)	(0.0)		

^{*} Results of the participants with confirmed test results of the Second Full-scale Thyroid Screening.

This is not the breakdown of the total (270,431) of confirmed screening results from the First Full-scale Thyroid Screening.

2.2 Results of Confirmatory Examination

2.2-1 Progress Report

Confirmatory Examinations start October 2016, so as of 30 September 2016 they have not been implemented. There are 211 of them. (See Appendix 5.)

Table 4. Confirmatory testing coverage and results as of 30 September 2016

	Number of Participants those requiring		Confirmed test results							
	confirmatory test	Proportion (%)	Confirmatory test	Next screening advised		Follow-up advised				
	a	b (b/a)	coverage (%)	A1 d (d/c)	A2 e (e/c)	f (f/c)	Cytology g (g/f)			
FY 2016	207	-	-	- -	-	-	-			
FY 2017	4	-	-	-	-	-	-			
Total	211	-	1	-	-	-	-			

2.2-2 Confirmatory test results by municipality as of 30 September 2016

The Confirmatory Examination is due to start October 2016.

Table 5.
Confirmatory test results by municipality in FY 2016

		Participants who required confirmatory		Number who underwent confirmatory	Suspicious or malignant cases	Proportion of suspicious or malignant cases
		test	test (%)*	test		(%)
Kawamata	1,286	3	0.2	-	-	-
Namie	810	3	0.4	-	-	-
Iitate	445	3	0.7	-	-	-
Minami-soma	5,195	34	0.7	-	-	-
Date	6,540	31	0.5	-	-	-
Tamura	3,127	26	0.8	-	-	-
Hirono	269	2	0.7	-	-	-
Naraha	205	0	0.0	-	-	-
Tomioka	314	2	0.6	-	-	-
Kawauchi	79	0	0.0	-	-	-
Okuma	344	3	0.9	-	-	-
Futaba	109	1	0.9	-	-	-
Katsurao	49	0	0.0	-	-	-
Fukushima	16,613	34	0.2	-	-	-
Nihonmatsu	5,783	36	0.6	-	-	-
Motomiya	3,302	9	0.3	-	-	-
Otama	943	5	0.5	-	-	-
Koriyama	712	5	0.7	-	-	-
Kori	1,251	4	0.3	-	-	-
Kunimi	957	6	0.6	-	-	-
Tenei	10	0	0.0	-	-	-
Shirakawa	34	0	0.0	-	-	-
Nishigo	10	0	0.0	-	-	-
Izumizaki	7	0	0.0	-	-	-
Miharu	88	0	0.0	-	-	-
Subtotal	48,482	207	0.4	=	=	=

Confirmatory test results by municipality in FY 2017

Communatory tes		Participants who	Proportion who	Number who		Proportion of
	Number of those	required	required	underwent	Suspicious or	suspicious or
	screened	confirmatory test	confirmatory test (%)*	confirmatory test	malignant cases	malignant cases
Iwaki	325	2	0.6	test -	_	(%)
Sukagawa	56	0	0.0	_	_	_
Soma	204	1	0.5		_	
Kagamiishi	6	0	0.0		_	
Shinchi	26	0	0.0	_	_	_
Nakajima	1	0	0.0		_	_
Yabuki	9	0	0.0	-	-	-
Ishikawa	12	0	0.0	-	-	
Yamatsuri	2	0	0.0	-	-	-
Asakawa	1	0	0.0	-	-	
Hirata	7	0	0.0	-	-	-
Tanagura	9	0	0.0	-	-	-
Hanawa	5	0	0.0	-	-	-
Samegawa	2	0	0.0	-	-	-
Ono	21	0	0.0	-	-	-
Tamakawa	7	0	0.0	-	-	-
Furudono	5	0	0.0	-	-	-
Hinoemata	0	0	0.0	-	-	-
Minami-aizu	10	0	0.0	-	-	-
Kaneyama	0	0	0.0	-	-	
Showa	0	0	0.0	-	-	
Mishima	0	0	0.0	-	-	
Shimogo	3	0	0.0	-	-	
Kitakata	28	0	0.0	-	-	
Nishiaizu	3	0	0.0	-	-	
Tadami	5	0	0.0	_	-	
Inawashiro	23	0	0.0	-	-	
Bandai	0	0	0.0	-	-	
Kitashiobara	2	0	0.0	-	-	
Aizumisato	10	0	0.0	-	-	
Aizubange	16	0	0.0	-	-	-
Yanaizu	0	0	0.0	-	-	
Aizuwakamatsu	100	1	1.0	-	-	
Yugawa	7	0	0.0	-	-	
Subtotal	905	4	0.4	-	-	-

^{*} Because this table shows the proportion of confirmatory test examinees among participants of the primary examination, it is different from the proportion of primary test results in table 1 on P.4.

2.3 Mental Health Care

2.3-1 Support for participants of primary examination

Since July 2015, we offer person-to-person explanations to participants at public venues where primary examinations take place. After an examination, this service is provided on request, with physicians using an online video link to private consultation booths at the venue. As of 30 September 2016, 16,519 (76.9%) of 21,469 participants visited the consultation booth. When the booth cannot be set up at a venue, phone support or briefing sessions at schools are offered as an alternative.

2.3-2 Support for participants of confirmatory examination

The Confirmatory Examination had not been implemented at the time of this report.

Appendix 1

Thyroid Ultrasound Examination (TUE) coverage by municipality

As of 30 September 2016

	Survey Population	Particiţ	Screened outside	Proportion (%)	Number	and proportion of	participants by a	ge group		Participants living outside Fukushima	Proportion (%)
	a	b	Fukushima 3)	b/a	4-9	10-14	15-19	≥ 20		c	c/b
Screening coverage by	y municipality ir	r FY 2016	2,	,							
V	2.142	1 200	16	(0.0	376	524	352	34	1)	20	1.6
Kawamata	2,142	1,286	16	60.0	29.2	40.7	27.4	2.6	2)	20	1.6
N	2 214	910	216	24.4	210	239	292	69		207	37.9
Namie	3,314	810	216	24.4	25.9	29.5	36.0	8.5		307	37.9
Iitate	987	445	10	45.1	106	198	131	10		18	4.0
mate	967	443	10	45.1	23.8	44.5	29.4	2.2		16	4.0
Minami-soma	11,540	5,195	486	45.0	1,606	2,106	1,310	173		735	14.1
IVIIIIaiiii-30iiia	11,540	3,173	400	45.0	30.9	40.5	25.2	3.3		133	17.1
Date	10,208	6,540	99	64.1	1,884	2,574	1,867	215		118	1.8
Date	10,200	0,540	,,,	04.1	28.8	39.4	28.5	3.3		110	1.0
Tamura	6,344	3,127	49	49.3	1,148	1,499	418	62		59	1.9
Tamura	0,544	3,127	77	47.5	36.7	47.9	13.4	2.0		37	1.7
Hirono	975	269	30	27.6	100	109	46	14		35	13.0
Thiono	713	207	30	27.0	37.2	40.5	17.1	5.2		33	13.0
Naraha	1,281	205	42	16.0	72	87	41	5		58	28.3
rarara	1,201	203	72	10.0	35.1	42.4	20.0	2.4		30	20.3
Tomioka	2,751	314	128	11.4	86	97	107	24		180	57.3
Tomoku	2,731	314	120	11.4	27.4	30.9	34.1	7.6		100	37.3
Kawauchi	297	79	6	26.6	25	32	22	0		8	10.1
Kawauciii	291	19	U	20.0	31.6	40.5	27.8	0.0		0	10.1
Okuma	2,258	344	131	15.2	133	110	87	14		182	52.9
Okuma	2,236	344	131	13.2	38.7	32.0	25.3	4.1		162	32.9
Futaba	1 122	109	40	9.6	36	43	27	3		64	58.7
Futaba	1,133	109	40	9.0	33.0	39.4	24.8	2.8		04	36.7
Katsurao	211	49	3	23.2	18	20	7	4		4	8.2
Katsurao	211	49	3	23.2	36.7	40.8	14.3	8.2		4	0.2
Fukushima	49,339	16,613	834	33.7	4,829	3,610	7,233	941		1,280	7.7
Tukusiiiiia	49,339	10,013	034	33.7	29.1	21.7	43.5	5.7		1,200	7.7
Nihonmetou	0.208	5 702	100	62.1	1,815	2,355	1,470	143		110	2.1
Nihonmatsu	9,308	5,783	108	62.1	31.4	40.7	25.4	2.5		119	2.1
Matamina	5.614	2 202	<i>(</i> 0	50.0	1,187	1,365	671	79			2.0
Motomiya	5,614	3,302	60	58.8	35.9	41.3	20.3	2.4		66	2.0
0.	1.460	0.42	10	(12	344	397	178	24		21	2.2
Otama	1,468	943	18	64.2	36.5	42.1	18.9	2.5		21	2.2
					270	110	295	37			
Koriyama	59,447	712	40	1.2	37.9	15.4	41.4	5.2		41	5.8
					396	490	319	46			
Kori	1,853	1,251	19	67.5	31.7	39.2	25.5	3.7		15	1.2
					267	377	274	39			
Kunimi	1,405	957	19	68.1	27.9	39.4	28.6	4.1		17	1.8
					4	4	20.0	0			
Tenei	966	10	3	1.0	40.0	40.0	20.0	0.0		3	30.0
						40.0					
Shirakawa	11,353	34	4	0.3	22.4		12	2		3	8.8
					32.4	26.5	35.3	5.9		-	
Nishigo	3,721	10	1	0.3	10.0	3	50.0	10.0		1	10.0
-					10.0	30.0	50.0	10.0			
Izumizaki	1,163	7	0	0.6	20.6	14.2	4 57.1	0		1	14.3
					28.6	14.3	57.1	0.0		-	
Miharu	2,765	88	0	3.2	31	15	40	2 2 2		1	1.1
					35.2	17.0	45.5	2.3			
Subtotal	191,843	48,482	2,362	25.3	14,957	16,374	15,210	1,941		3,356	6.9
	<u> </u>				30.9	33.8	31.4	4.0	l	<u> </u>	

¹⁾ Number of participants. 2) Number of participants in the age group/Number of participants.

Fractions have been rounded and may not total to100%. Ages are at the time when the participants underwent the testing (the Second Full-scale Thyroid Screening).

³⁾ Number of participants who underwent the test outside Fukushima.

	Survey Population	Partici]					Participants	
			Screened outside	Proportion (%)	Number a	and proportion of	participants by ag	e group	living outside Fukushima	Proportion (%)
	a	b	Fukushima 3)	b/a	4-9	10-14	15-19	≥ 20	c	c/b
Screening coverage by	municipality in	FY 2017		1	,	,				ı
Iwaki	56,789	325	62	0.6	108 33.2	56 17.2	121 37.2	12.3	58	17.8
Sukagawa	14,109	56	9	0.4	27 48.2	14 25.0	12 21.4	3 5.4	9	16.1
Soma	6,256	204	5	3.3	42	20	138	4	3	1.5
	·				20.6	9.8	67.6	2.0		
Kagamiishi	2,417	6	1	0.2	0.0	33.3 1	33.3 21	33.3	1	16.7
Shinchi	1,319	26	1	2.0	11.5	3.8	80.8	3.8	1	3.8
Nakajima	972	1	0	0.1	100.0	0.0	0.0	0.0	0	0.0
Yabuki	3,042	9	4	0.3	3 33.3	3 33.3	1 11.1	22.2	3	33.3
Ishikawa	2,537	12	1	0.5	4 33.3	2 16.7	6 50.0	0.0	2	16.7
Yamatsuri	931	2	0	0.2	0.0	0.0	2 100.0	0.0	0	0.0
Asakawa	1,211	1	0	0.1	0	0	0	1	0	0.0
Hirata	1,101	7	0	0.6	0.0	0.0	0.0	100.0	0	0.0
	·				42.9 3	28.6	28.6	0.0		
Tanagura	2,750	9	3	0.3	33.3 2	33.3 0	11.1	22.2	3	33.3
Hanawa	1,492	5	0	0.3	40.0	0.0	60.0	0.0	1	20.0
Samegawa	616	2	1	0.3	0.0	50.0	50.0	0.0	1	50.0
Ono	1,720	21	5	1.2 -	7 33.3	6 28.6	38.1	0.0	2	9.5
Tamakawa	1,211	7	0	0.6	2 28.6	4 57.1	1 14.3	0.0	0	0.0
Furudono	945	5	1	0.5	3 60.0	0.0	20.0	20.0	1	20.0
Hinoemata	94	0	0	0.0	0.0	0.0	0.0	0.0	0	0.0
Minami-aizu	2,512	10	0	0.4	20.0	20.0	60.0	0.0	0	0.0
Kaneyama	177	0	0	0.0	0.0	0.0	0.0	0.0	0	0.0
Showa	127	0	0	0.0	0.0	0.0	0.0	0.0	0	0.0
Mishima	174	0	0	0.0	0.0	0.0	0.0	0.0	0	0.0
Shimogo	870	3	0	0.3	0.0	0.0	3	0.0	0	0.0
Kitakata	8,077	28	6	0.3	5	7	10	6	8	28.6
Nishiaizu	885	3	1	0.3	17.9 1	25.0 0	35.7 1	21.4	1	33.3
Tadami	641	5	0	0.8	33.3 2	0.0	33.3 1	33.3	0	0.0
					40.0 11	40.0 4	20.0	0.0		
Inawashiro	2,383	23	0	1.0	47.8 0	17.4 0	34.8	0.0	6	26.1
Bandai	555	0	0	0.0	0.0	0.0	0.0	0.0	0	0.0
Kitashiobara	502	2	0	0.4	0.0	0.0	100.0	0.0	0	0.0
Aizumisato	3,311	10	1	0.3	30.0	40.0	30.0	0.0	1	10.0
Aizubange	2,790	16	4	0.6	2 12.5	0.0	9 56.3	31.3	4	25.0
Yanaizu	537	0	0	0.0	0.0	0.0	0.0	0.0	0	0.0
Aizuwakamatsu	21,107	100	28	0.5	32 32.0	17 17.0	33 33.0	18 18.0	24	24.0
Yugawa	606	7	0	1.2	0.0	0.0	7 100.0	0.0	0	0.0
Subtotal	144,766	905	133	0.6	266 29.4	150 16.6	403 44.5	86 9.5	129	14.3
Total	336,609	49,387	2,495	14.7	15,223 30.8	16,524 33.5	15,613 31.6	2,027 4.1	3,485	7.1

Appendix 2 Thyroid Ultrasound Examination (TUE) coverage by prefecture

As of 31 August 2016

Prefecture	Number of test venues	Participants*	Prefecture	Number of test venues	Participants*
Hokkaido	6	100	Fukui	1	6
Aomori	1	53	Yamanashi	2	38
Iwate	3	87	Nagano	2	40
Miyagi	2	277	Gifu	1	12
Akita	1	23	Shizuoka	2	29
Yamagata	3	125	Aichi	3	59
Ibaraki	4	161	Mie	1	10
Tochigi	7	229	Shiga	1	5
Gunma	2	52	Kyoto	3	25
Saitama	2	142	Osaka	7	40
Chiba	4	133	Hyogo	1	12
Tokyo	12	421	Nara	2	2
Kanagawa	5	117	Wakayama	1	4
Niigata	2	147	Tottori	1	6
Toyama	1	5	Shimane	1	9
Ishikawa	1	17	Okayama	3	14

	As 01 3	1 August 2010
Prefecture	Number of test venues	Participants*
Hiroshima	1	5
Yamaguchi	1	13
Tokushima	1	1
Kagawa	1	3
Ehime	1	0
Kochi	1	5
Fukuoka	3	21
Saga	1	4
Nagasaki	2	8
Kumamoto	1	9
Oita	1	5
Miyazaki	1	6
Kagoshima	1	7
Okinawa	1	8
Total	105	2,495

^{*} Participants who underwent testing at venues outside Fukushima carried out either by Fukushima Medical University staff or by local specialists.

Appendix 3

As of 30 September 2016 Results of primary examination by municipality Confirmed Number by test results results Nodules Cysts Proportion (%) Participants Proportion (%) Proportion (%) C В Proportion (%) A1 A2 ≥5.1 mm <5.0 mm ≥20.1 mm <20.0 mm b/a (%) Screening coverage by municipality in FY 2016 1,085 379 703 3 0 0 705 3 6 Kawamata 1,286 84.4 34.9 64.8 0.3 0.0 0.3 0.6 0.0 65.0 451 160 288 3 0 3 5 0 287 810 Namie 55.7 35.5 63.9 0.7 0.0 0.7 1.1 0.0 63.6 302 196 103 3 0 3 0 196 445 **Iitate** 67.9 34.1 64.9 1.0 0.0 1.0 0.3 0.0 64.9 4,440 1,530 2,876 34 0 34 20 0 2,891 5,195 Minami-soma 85.5 34.5 64.8 0.8 0.0 0.8 0.5 0.0 65.1 5,521 1,870 3,620 31 0 31 17 0 3,637 Date 6,540 33.9 0.6 0.0 0.6 0.3 0.0 65.9 84.4 65.6 2,883 1,047 1,810 26 0 26 16 0 1,824 Tamura 3,127 0.9 0.0 0.0 92.2 36.3 62.8 0.9 0.6 63.3 173 244 70 172 2 0 2 1 0 Hirono 269 90.7 28.7 70.5 0.8 0.0 0.8 0.4 0.0 70.9 115 0 177 62 0 0 0 0 115 Naraha 205 86.3 35.0 65.0 0.0 0.0 0.0 0.0 0.0 65.0 129 192 62 128 2 0 2 0 0 Tomioka 314 61.1 32.3 66.7 1.0 0.0 1.0 0.0 0.0 67.2 68 20 48 0 0 0 0 0 48 Kawauchi 79 0.0 0.0 86.1 29.4 70.6 0.0 0.0 0.0 70.6 210 136 136 71 3 0 0 3 1 Okuma 344 61.0 33.8 64.8 1.4 0.0 1.4 0.5 0.0 64.8 74 30 43 1 0 0 0 43 Futaba 109 67.9 40.5 58.1 1.4 0.0 1.4 0.0 0.0 58.1 28 44 28 0 0 16 0 0 0 49 Katsurao 89.8 0.0 0.0 0.0 0.0 0.0 63.6 36.4 63.6 2,402 34 2,411 4,400 1,964 34 0 25 0 Fukushima 16,613 44.6 54.6 0.8 0.0 0.8 0.0 54.8 26.5 0.6 3,873 1,372 2,465 36 0 36 14 0 2,487 Nihonmatsu 5,783 67.0 0.9 0.9 0.0 0.4 0.0 35.4 63.6 64.2 2,334 779 1.546 9 0 9 0 1.553 3 3,302 Motomiva 0.4 0.4 0.1 0.0 70.7 33.4 66.2 0.0 66.5 886 318 563 0 0 568 5 Otama 943 94.0 35.9 63.5 0.6 0.0 0.6 0.1 0.0 64.1 183 297 484 296 5 0 5 3 0 712 Koriyama 68.0 37.8 61.2 1.0 0.0 1.0 0.6 0.0 61.4 1,060 383 673 4 0 4 2 0 676 1,251 Kori 84.7 36.1 63.5 0.4 0.0 0.4 0.2 0.0 63.8 770 250 514 6 0 6 1 0 519 Kunimi 957 80.5 32.5 0.8 0.0 0.8 0.1 0.0 67.4 66.8 5 1 4 0 0 0 0 0 4 10 Tenei 50.0 20.0 80.0 0.0 0.0 0.0 0.0 0.0 80.0 16 0 0 0 0 0 Shirakawa 34 47.1 43.8 56.3 0.0 0.0 0.0 0.0 0.0 56.3 3 0 0 0 0 4 1 0 1 10 Nishigo 40.0 75.0 25.0 0.0 0.0 0.0 0.0 0.0 25.0 2 0 0 0 0 0 0 0 Izumizaki 7 28.6 100.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 81 29 52 0 0 0 0 0 52 88 Miharu 92.0 0.0 0.0 0.0 0.0 0.0 35.8 64.2 64.2 10,711 18,688 207 0 207 116 0 18,789 29,606 Subtotal 48,482 63.1 0.7 0.0 0.7 0.4 0.0 63.5

Fractions have been rounded and may not total to 100%.

As of 30 September 2016 Results of primary examination by municipality Confirmed Number by test results Nodules Cvsts results Proportion (%) Participants Proportion (%) Proportion (%) Proportion (%) \mathbf{C} ≤5.0 mm A2 ≥20.1 mm Screening coverage by municipality in FY 2017 220 92 126 2 0 0 0 128 Iwaki 325 67.7 41.8 57.3 0.9 0.0 0.9 0.0 0.0 58.2 35 17 18 0 0 0 0 0 18 Sukagawa 56 62.5 48.6 51.4 0.0 0.0 0.0 0.0 0.0 51.4 174 73 100 0 0 101 1 1 Soma 204 42.0 85.3 57.5 0.6 0.0 0.6 0.6 0.0 58.0 0 0 0 0 0 Kagamiishi 6 83.3 80.0 80.0 20.0 0.0 0.0 0.0 0.0 0.0 25 10 15 0 0 0 0 0 15 Shinchi 96.2 40.0 60.0 0.0 0.0 0.0 0.0 0.0 60.0 1 1 0 0 0 0 0 0 0 Nakajima 100.0 100.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 0 0 Yabuki 77.8 42.9 57.1 0.0 0.0 0.0 0.0 0.0 57.1 0 Ishikawa 12 58.3 57.1 42.9 0.0 0.0 0.0 0.0 0.0 42.9 0 0 0 0 0 0 0 0 Yamatsuri 2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 0 0 0 0 0 0 0 0 Asakawa 1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 0 0 0 0 0 7 Hirata 100.0 0.0 100.0 0.0 0.0 0.0 0.0 0.0 100.0 7 2 0 0 0 0 0 9 Tanagura 77.8 28.6 71.4 0.0 0.0 0.0 0.0 0.0 71.4 0 0 0 0 0 5 Hanawa 100.0 60.0 40.0 0.0 0.0 0.0 0.0 0.0 40.0 0 0 0 0 0 0 2 Samegawa 50.0 0.0 100.0 0.0 0.0 0.0 100.0 0.0 0.0 0 18 8 10 0 0 1 0 10 Ono 21 44.4 0.0 0.0 0.0 55.6 85.7 55.6 0.0 5.6 0 0 0 0 0 0 7 Tamakawa 100.0 100.0 100.0 0.0 0.0 0.0 0.0 0.0 0.0 4 2 2 0 0 0 0 0 2 Furudono 5 80.0 50.0 50.0 0.0 0.0 0.0 0.0 0.0 50.0 0 0 0 Hinoemata 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 0 0 0 10 Minami-aizu 50.0 80.0 20.0 0.0 0.0 0.0 0.0 0.0 20.0 0 0 0 0 0 0 0 0 0 Kaneyama 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 0 0 0 0 0 0 0 0 Showa 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 0 0 0 0 0 0 0 0 Mishima 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1 0 0 0 0 0 0 Shimogo 3 33.3 0.0 100.0 0.0 0.0 0.0 0.0 0.0 100.0 19 10 9 0 0 0 0 28 Kitakata 67.9 52.6 47.4 0.0 0.0 0.0 0.0 0.0 47.4 0 0 0 0 0 0 3 Nishiaizu 66.7 100.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 0 0 0 0 0 Tadami 5 40.0 0.0 100.0 0.0 0.0 0.0 0.0 0.0 100.0 17 11 6 0 0 0 0 0 6 Inawashiro 23 73.9 64.7 35.3 0.0 0.0 0.0 0.0 0.0 35.3 0 0 0 0 0 0 0 0 0 Bandai 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 0 0 0 Kitashiobara 2 100.0 50.0 50.0 0.0 0.0 0.0 0.0 0.0 50.0 Aizumisato 10 30.0 33.3 66.7 0.0 0.0 0.0 0.0 0.0 66.7 10 4 0 0 0 0 0 6 6 Aizubange 16 62.5 40.0 60.0 0.0 0.0 0.0 60.0 0.0 0.0 0 0 0 0 0 0 0 0 0 Yanaizu 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 61 23 37 1 0 1 0 0 38 Aizuwakamatsu 100 37.7 61.0 60.7 1.6 0.0 1.6 0.0 0.0 62.3 2 1 1 0 0 0 0 0 1 7 Yugawa 28.6 50.0 50.0 0.0 0.0 0.0 0.0 0.0 50.0 647 273 370 0 374 4 Subtotal 905 42.2 57.2 0.6 0.0 0.6 0.3 0.0 57.8 30,253 10,984 19,058 211 211 0 118 19,163 49,387 Total 61.3 63.0 0.0 0.7 0.4 0.0 63.3 36.3

Appendix 4

1. Thyroid Ultrasound Examination results by age and sex

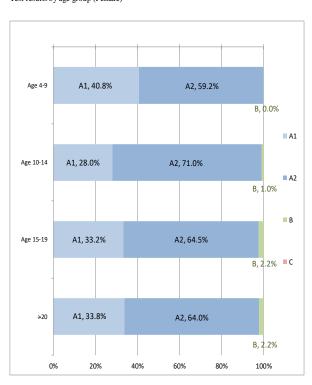
As of 30 September 2016

			A	1				В			С		Total		
		A1			A2								Total		
Ages	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
4-9	2,455	2,127	4,582	2,886	3,089	5,975	3	1	4	0	0	0	5,344	5,217	10,561
10-14	1,829	1,546	3,375	3,851	3,920	7,771	12	55	67	0	0	0	5,692	5,521	11,213
15-19	1,444	1,126	2,570	2,385	2,186	4,571	40	75	115	0	0	0	3,869	3,387	7,256
<u>≥</u> 20	223	234	457	298	443	741	10	15	25	0	0	0	531	692	1,223
Total	5,951	5,033	10,984	9,420	9,638	19,058	65	146	211	0	0	0	15,436	14,817	30,253

Test results by age group (Male)

A1, 45.9% A2, 54.0% Age 4-9 B, 0.1% ■ A1 A1, 32.1% Age 10-14 A2, 67.7% B, 0.2% ■ B A2, 61.6% Age 15-19 A1, 37.3% B, 1.0% C A1, 42.0% A2, 56.1% ≥20 B, 1.9% 0% 60% 80% 100% 20% 40%

Test results by age group (Female)



Percentages have been rounded and may not total to 100%.

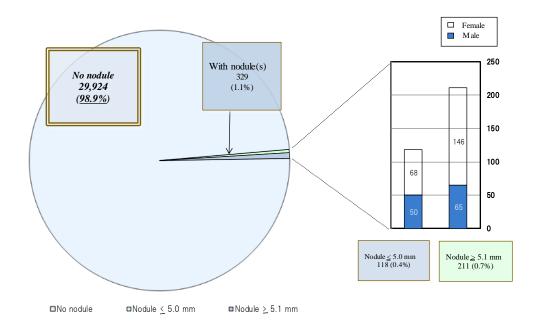
Ages are at the time when the participants underwent the testing (the Second Full-scale Thyroid Screening).

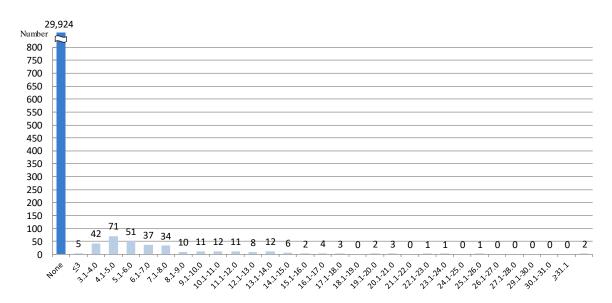
.

2. Nodule size

As of 30 September 2016

Nodule size	Total			Class	Droportion
Nodule Size	1 otai	M ale	Female	Class	Proportion
None	29,924	15,321	14,603	A1	98.9%
≤ 3.0 mm	5	2	3	A 2	0.4%
3.1-5.0 mm	113	48	65	A2	0.4%
5.1-10.0 mm	143	47	96		
10.1-15.0 mm	49	9	40		
15.1-20.0 mm	11	5	6	В	0.7%
20.1-25.0 mm	5	3	2		
≥ 25.1 mm	3	1	2		
Total	30,253	15,436	14,817		

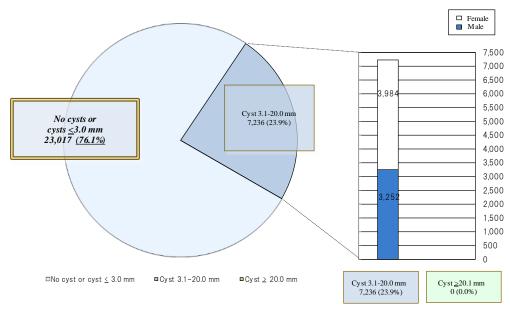


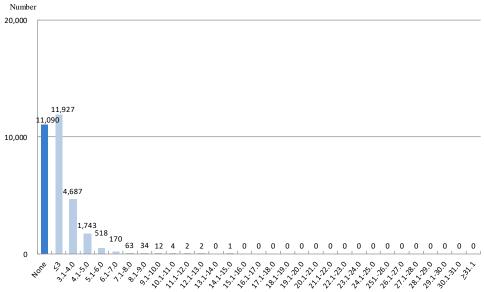


3. Cyst size

As of 30 September 2016

Cyst size	Total			Class	Proportion
Cyst size	Total	Male	Female	Class	Troportion
None	11,090	5,992	5,098	A1	76.1%
≤ 3.0 mm	11,927	6,192	5,735		70.1%
3.1-5.0 mm	6,430	2,951	3,479		
5.1-10.0 mm	797	297	500	A 2	23.9%
10.1-15.0 mm	9	4	5		23.9%
15.1-20.0 mm	0	0	0		
20.1-25.0 mm	0	0	0	В	0.000%
≥ 25.1 mm	0	0	0	Б	0.000%
Total	30,253	15,436	14,817		





Appendix 5

Confirmatory test results by municipality As of 30 September 2016 Number of those who underwent confirmatory test Number of confirmed re-Follow-up advised Participants who Number of those required confirmatory test Total Ages 10-14 Ages 15-19 \geq 20 Total Next screening advised biopsy cytology District d Proportion (%) Proportion (%) Proportion (%) Proportion (%) Proportion (%) Proportion (% Proportion (%) Proportion (%) Proportion (%) Proportion (%) Screening coverage by municipality in FY 2016 3 Kawamata 1,286 0.2 810 Namie 0.4 3 445 Iitate 0.7 34 5,195 Minami-soma 0.7 31 Date 6,540 0.5 26 3,127 Tamura 0.8 269 Hirono 0.7 0 Naraha 205 0.0 2 Tomioka 314 0.6 0 79 Kawauchi 0.0 3 Okuma 344 0.9 1 Futaba 109 0.9 0 49 Katsurao 0.0 34 Fukushima 16,613 0.2 36 5,783 Nihonmatsu 0.6 9 3,302 Motomiya 0.3 5 943 Otama 0.5 5 Koriyama 712 0.7 4 1,251 Kori 0.3 6 957 Kunimi 0.6 0 10 Tenei 0.0 0 34 Shirakawa 0.0 0 Nishigo 10 0.0 0 Izumizaki 7 0.0 0 88 Miharu 0.0 207 Subtotal 48,482 0.4

Fractions have been rounded and may not total to 100%. Ages are at the time when the participants underwent the testing (the Second Full-scale Thyroid Screening).

h) Excluding participants who have not receive the test results.

onfirmatory test results	by municipality		None	abor of those w	ho undormont o	onfirmatory to			Numbor	of confirmed r		eptember 201
	Number of those	Participants who	Nur	nber of those w	no underwent c	onfirmatory tes			Number	of confirmed re	Follow-u	
	screened	required confirmatory test	Total	Ages 4-9	Ages10-14	Ages 15-19	≥ 20	Total	Next screen	ning advised		Aspiration biopsy cytology
District	a	b	c	d	e	f	g	h	A1 i	A2 j	k	1
		Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (9
creening coverage by m	unicipality in FY 20					1				1	1	I
Iwaki	325	0.6	-	-	-	-	-	-	-	-	-	
Sukagawa	56	0.0	-	-	-	-	-	-	-	-	-	
Soma	204	0.5	-	-	-	-	-			-	-	
Kagamiishi	6	0.0	-	-	-	-	-	-	-	-	-	
Shinchi	26	0.0	-	-	-	-	-		_	-	-	
Nakajima	1	0.0		-	-	-	-	-		-	-	
Yabuki	9	0.0	-	-	-	-	-			-	-	
Ishikawa	12	0.0	-	-		-	-			-	-	
Yamatsuri	2	0.0	-	-		-	-		_	-	-	
Asakawa	1	0.0	_	-	-	-	-		_	-	-	
Hirata	7	0.0		-		-	-		_	-	-	
Tanagura	9	0.0	-	-	-	-	-		_	-	-	
Hanawa	5	0.0	-	-		-	_		_	-	-	
Samegawa	2	0.0	-	-	-	-				-	-	
Ono	21	0		-	-	-	-			-	-	
Tamakawa	7	0.0		-		-	-			-	-	
Furudono	5	0.0	-	-	-	-	-	-	-	-	-	
Hinoemata	0	0.0	-	-	-	-	-	-	-	-	-	
Minami-aizu	10	0.0	-	-	-	-	-		-	-	-	
Kaneyama	0	0.0	-	-	-	-	-	-	-	-	-	
Showa	0	0.0	-	-	-	-	-	-		-	-	
Mishima	0	0.0	-	-	-	-	-	-	-	-	-	
Shimogo	3	0.0	-	-	-	-	-	-		-	-	
Kitakata	28	0.0	-	-	-	-	-	-	-	-	-	
Nishiaizu	3	0.0	-	-	-	-	-	-	-	-	-	
		0.0	-	-	-	-	-	-	-	-	-	
Tadami Inawashiro	5	0.0	-	-	-	-	-	-	-	-	-	
	23	0.0	-	-	-	-	-	-	-	-	-	
Bandai	0	0.0	-	-	-	-	-	-	-	-	-	
Kitashiobara	2	0.0	-	-	-	-	-	-	-	-	-	
Aizumisato	10	0.0	-	-		-	-	-	-	-	-	
Aizubange	16	0.0	-	-	-	-	-	-	-	-	-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Yanaizu	0	0.0	-	-	-	-	-	-	_	-	-	
Aizuwakamatsu	100	1.0	-	-		-	-	-		-	-	
Yugawa	7	0.0	-	-	-	-	-	-	_	-	-	
Subtotal	905	0.4	-	-	-	-	-		-	-	-	
Total	49,387	211 0.4	-	-		-	-	-	_	-	-	