Basic Survey (Radiation Dose Estimates)

Reported on 14 September 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% (565,484 of 2,055,350) as of 30 June 2016. Among the respondents, 72,181 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 June 2016

Survey population		2,055,350	
Responses	Original questionnaire	493,303	24.0%
	Simplified questionnaire*	72,181	3.5%
	Total	565,484	27.5%

*Preliminary figures

Fractions have been rounded.

Table 2 Response rates by age group

As of 30 June 2016

Age group (years)	0-9	10-19	20-29	30-39	40-49	50-59	60-	Total
Response rate	46.4%	35.7%	18.0%	24.6%	22.3%	22.9%	27.9%	27.5%

1.2 Radiation Dose Estimates

Doses have been estimated for 551,233 of 565,484 respondents (97.5%) as of 30 June 2016, and results have been returned to 549,863 respondents. (See Table 3.)

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.

Table 3 Response rates to the Basic Survey

As of 30 June 2016

Area	Survey population a	Responses b	Response rate c=b/a	Completed dose estimates d	Proportion e=d/b	Returned results f	Proportion g=f/b
Kempoku	504,042	151,811	30.1%	148,864	98.1%	148,767	98.0%
Kenchu	557,243	136,176	24.4%	133,044	97.7%	132,748	97.5%
Kennan	152,228	35,040	23.0%	34,211	97.6%	34,126	97.4%
Aizu	267,205	57,779	21.6%	55,540	96.1%	54,963	95.1%
Minami-aizu	30,789	6,388	20.7%	6,069	95.0%	6,048	94.7%
Soso	195,606	90,020	46.0%	87,349	97.0%	87,251	96.9%
Iwaki	348,237	88,270	25.3%	86,156	97.6%	85,960	97.4%
Total	2,055,350	565,484	27.5%	551,233	97.5%	549,863	97.2%

Including areas covered by the initial survey of people in Yamakiya, Namie and Iitate.

* 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.)

Table 4 Response rates to the Basic Survey (Visitors)

As of 30 June 2016

Number of requests a	Responses b	Response rate c=b/a	Completed dose estimates d	Proportion e=d/b	Returned results f	Proportion g=f/b
3,977	2,219	55.8%	2,000	90.1%	1,989	89.6%

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

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 472,572 residents have been estimated to date. The results for 463,394 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 Estimated external radiation doses (initial and full-scale surveys) As of 30 June 2016

Effective Dose (mSv)	Total	Excluding radiation workers				By area (excluding radiation workers)													
						Kempoku *		Kenchu		Kennan		Aizu		Minami-aizu		Soso **		Iwaki	
<1	293,955	288,240	62.2%	93.8%	99.8%	24,881	20.0%	58,071	51.5%	25,935	88.3%	45,656	99.3%	4,939	99.3%	55,751	77.3%	73,007	99.1%
1-2	148,958	146,618	31.6%			83,506	67.0%	46,040	40.8%	3,421	11.6%	303	0.7%	35	0.7%	12,681	17.6%	632	0.9%
2-3	25,943	25,570	5.5%	5.8%		15,636	12.6%	8,174	7.3%	17	0.1%	25	0.1%	0	-	1,688	2.3%	30	0.0%
3-4	1,575	1,495	0.3%			472	0.4%	423	0.4%	0	-	1	0.0%	0	-	595	0.8%	4	0.0%
4-5	551	505	0.1%	0.2%		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%			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	-	41	0.1%	0	-
10-11	69	36	0.0%	0.0%	0.0%	0	-	0	-	0	-	0	-	0	-	36	0.0%	0	-
11-12	52	30	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	-	13	0.0%	0	-
13-14	36	12	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	-
≥15	315	15	0.0%		0.0%	0	-	0	-	0	-	0	-	0	-	15	0.0%	0	-
Total	472,572	463,394	100.0%	100.0%	100.0%	124,567	100%	112,717	100%	29,373	100%	45,986	100%	4,974	100%	72,102	100%	73,675	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		0.3mSv	
Median	0.6mSv	0.6mSv				1.4mSv		0.9mSv		0.5mSv		0.2mSv		0.1mSv		0.5mSv		0.3mSv	

* Including Yamakiya.

** Including Namie and Iitate.

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

Excluding those with estimation period less than four months.

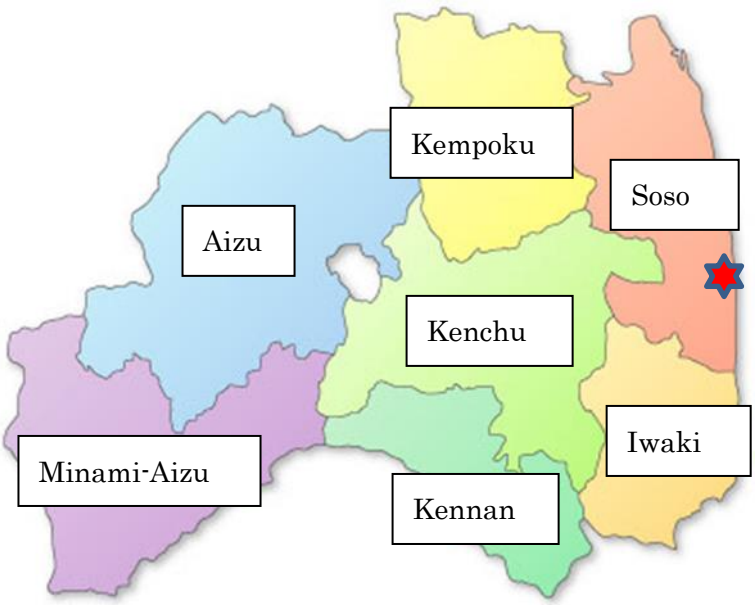
3. Evaluation of the results

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.

References

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.



Appendix 1

Response rates to the Basic Survey by district

Initial and full-scale surveys

As of 30 June 2016

Area	District	Survey population a	Responses b	Response rate c=b/a	Completed dose estimates d	Proportion e=d/b	Returned results f	Proportion g=f/b
Kempoku	Fukushima	295,645	93,654	31.7%	92,116	98.4%	92,065	98.3%
	Nihonmatsu	60,857	16,872	27.7%	16,504	97.8%	16,489	97.7%
	Date	67,577	18,237	27.0%	17,771	97.4%	17,758	97.4%
	Motomiya	31,762	9,081	28.6%	8,912	98.1%	8,903	98.0%
	Kori	13,207	3,879	29.4%	3,770	97.2%	3,770	97.2%
	Kunimi	10,316	3,023	29.3%	2,935	97.1%	2,935	97.1%
	Kawamata	15,885	5,153	32.4%	4,988	96.8%	4,980	96.6%
	Otama	8,793	1,912	21.7%	1,868	97.7%	1,867	97.6%
	Subtotal	504,042	151,811	30.1%	148,864	98.1%	148,767	98.0%
Kenchu	Koriyama	339,723	86,768	25.5%	84,974	97.9%	84,787	97.7%
	Sukagawa	80,164	17,143	21.4%	16,694	97.4%	16,647	97.1%
	Tamura	41,723	10,510	25.2%	10,156	96.6%	10,149	96.6%
	Kagamiishi	13,109	2,887	22.0%	2,824	97.8%	2,818	97.6%
	Tenei	6,470	1,229	19.0%	1,198	97.5%	1,198	97.5%
	Ishikawa	17,488	4,202	24.0%	4,099	97.5%	4,082	97.1%
	Tamakawa	7,337	1,500	20.4%	1,452	96.8%	1,440	96.0%
	Hirata	7,053	1,655	23.5%	1,599	96.6%	1,598	96.6%
	Asakawa	7,163	1,508	21.1%	1,472	97.6%	1,470	97.5%
	Furudono	6,319	1,309	20.7%	1,274	97.3%	1,270	97.0%
	Miharu	18,993	4,860	25.6%	4,761	98.0%	4,758	97.9%
	Ono	11,701	2,605	22.3%	2,541	97.5%	2,531	97.2%
	Subtotal	557,243	136,176	24.4%	133,044	97.7%	132,748	97.5%
Kennan	Shirakawa	65,428	15,974	24.4%	15,633	97.9%	15,614	97.7%
	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%	1,339	97.0%
	Nakajima	5,306	1,001	18.9%	976	97.5%	970	96.9%
	Yabuki	18,341	4,088	22.3%	3,978	97.3%	3,959	96.8%
	Tanagura	15,384	3,026	19.7%	2,958	97.8%	2,942	97.2%
	Yamatsuri	6,491	1,464	22.6%	1,414	96.6%	1,412	96.4%
	Hanawa	10,062	2,313	23.0%	2,262	97.8%	2,242	96.9%
	Samegawa	4,196	819	19.5%	791	96.6%	791	96.6%
	Subtotal	152,228	35,040	23.0%	34,211	97.6%	34,126	97.4%
Aizu	Aizuwakamatsu	127,817	29,589	23.1%	28,591	96.6%	28,202	95.3%
	Kitakata	53,202	11,055	20.8%	10,620	96.1%	10,522	95.2%
	Kitashiobara	3,276	607	18.5%	583	96.0%	580	95.6%
	Nishiaizu	7,725	1,453	18.8%	1,350	92.9%	1,335	91.9%
	Bandai	3,888	793	20.4%	775	97.7%	772	97.4%
	Inawashiro	16,271	3,647	22.4%	3,513	96.3%	3,505	96.1%
	Aizubange	17,881	3,259	18.2%	3,114	95.6%	3,093	94.9%
	Yugawa	3,513	713	20.3%	680	95.4%	676	94.8%
	Yanaizu	4,077	719	17.6%	687	95.5%	685	95.3%
	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%	4,388	95.6%	4,354	94.9%
	Subtotal	267,205	57,779	21.6%	55,540	96.1%	54,963	95.1%
Minami-aizu	Shimogo	6,650	1,251	18.8%	1,186	94.8%	1,182	94.5%
	Hinoemata	614	142	23.1%	133	93.7%	133	93.7%
	Tadami	5,030	1,143	22.7%	1,080	94.5%	1,077	94.2%
	Minami-aizu	18,495	3,852	20.8%	3,670	95.3%	3,656	94.9%
	Subtotal	30,789	6,388	20.7%	6,069	95.0%	6,048	94.7%
Soso	Soma	37,373	13,293	35.6%	12,764	96.0%	12,737	95.8%
	Minami-soma	70,013	30,202	43.1%	29,446	97.5%	29,414	97.4%
	Hirono	5,165	2,219	43.0%	2,140	96.4%	2,136	96.3%
	Naraha	7,963	4,185	52.6%	4,022	96.1%	4,018	96.0%
	Tomioka	15,751	8,617	54.7%	8,411	97.6%	8,405	97.5%
	Kawauchi	2,996	1,539	51.4%	1,487	96.6%	1,487	96.6%
	Okuma	11,473	6,080	53.0%	5,858	96.3%	5,855	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%	12,659	97.7%
	Katsurao	1,541	824	53.5%	768	93.2%	768	93.2%
	Shinchi	8,357	2,706	32.4%	2,606	96.3%	2,604	96.2%
	Iitate	6,588	3,443	52.3%	3,332	96.8%	3,325	96.6%
	Subtotal	195,606	90,020	46.0%	87,349	97.0%	87,251	96.9%
Iwaki	Iwaki	348,237	88,270	25.3%	86,156	97.6%	85,960	97.4%
Total		2,055,350	565,484	27.5%	551,233	97.5%	549,863	97.2%

Basic Survey, Fukushima Health Management Survey

Appendix 2

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

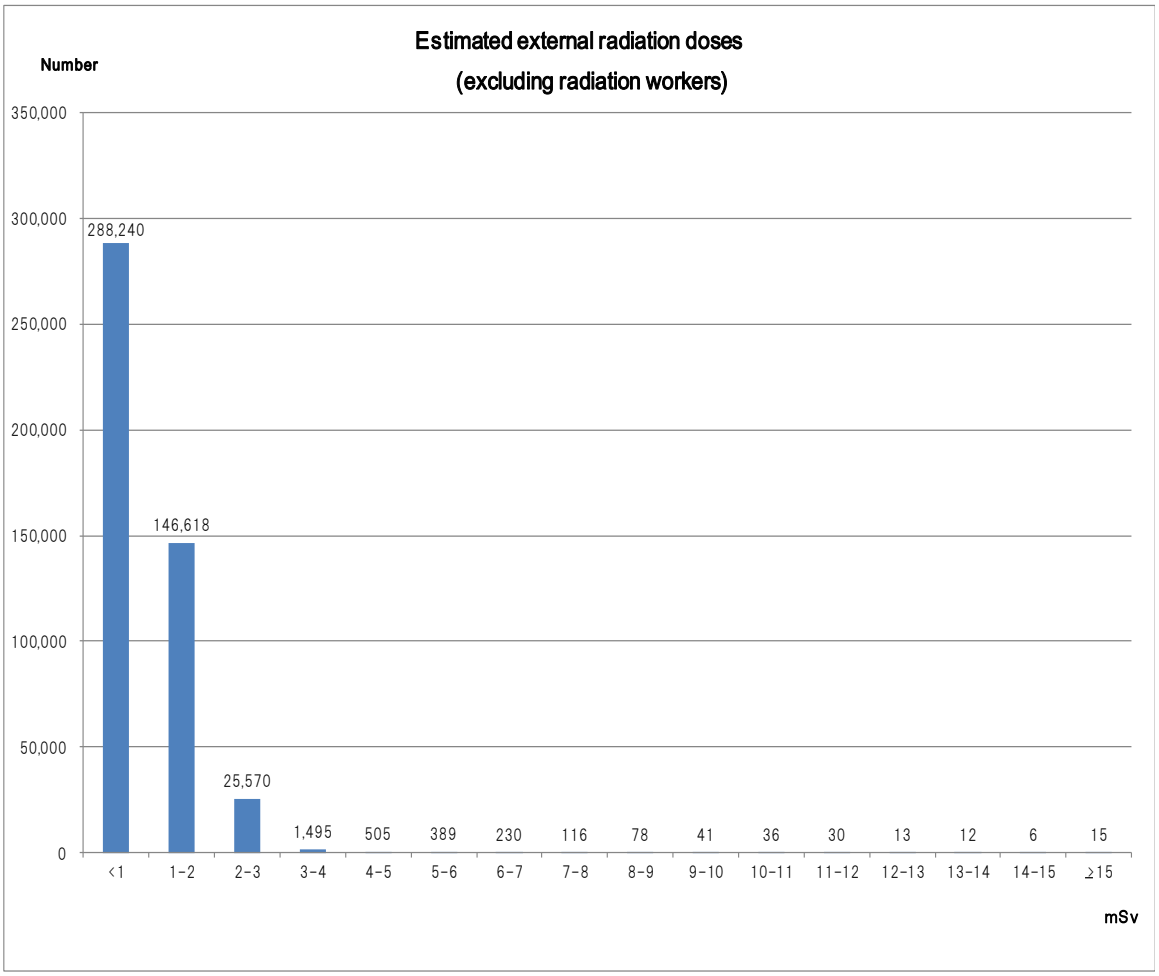
Initial and full-scale surveys

As of 30 June 2016

Estimated external radiation doses by region

Effective Dose (mSv)	Total	Excluding radiation workers	By region							Proportion (%) excluding radiation workers		
			Kempoku	Kenchu	Kennan	Aizu	Minami-aizu	Soso	Iwaki			
<1	293,955	288,240	24,881	58,071	25,935	45,656	4,939	55,751	73,007	62.2	93.8	99.8
1-2	148,958	146,618	83,506	46,040	3,421	303	35	12,681	632	31.6		
2-3	25,943	25,570	15,636	8,174	17	25	0	1,688	30	5.5	5.8	
3-4	1,575	1,495	472	423	0	1	0	595	4	0.3		
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		
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		
10-11	69	36	0	0	0	0	0	36	0	0.0	0.0	0.0
11-12	52	30	1	0	0	0	0	29	0	0.0		
12-13	37	13	0	0	0	0	0	13	0	0.0	0.0	
13-14	36	12	0	0	0	0	0	12	0	0.0		
14-15	27	6	0	0	0	0	0	6	0	0.0	0.0	
≥15	315	15	0	0	0	0	0	15	0	0.0	0.0	0.0
Total	472,572	463,394	124,567	112,717	29,373	45,986	4,974	72,102	73,675	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			

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



Appendix 3

As of 30 June 2016

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

Effective Dose (mSv)	Age at the time of the disaster (years)									Total
	0 - 9	10 - 19	20 - 29	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79	80 -	
<1	47,942	44,412	21,247	34,114	28,556	32,828	36,302	25,714	17,125	288,240
1-2	22,913	21,607	10,070	18,221	16,592	18,519	19,480	12,283	6,933	146,618
2-3	6,414	4,239	1,129	2,331	2,235	2,965	3,423	1,995	839	25,570
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
≥15	0	0	0	0	3	3	6	1	2	15
Total	77,562	70,493	32,616	54,944	47,716	54,863	59,722	40,397	25,081	463,394

Estimated external radiation doses by sex (excluding radiation workers)

Effective Dose (mSv)	By sex				Total	Proportion (%)
	Male	Proportion (%)	Female	Proportion (%)		
<1	128,649	60.6	159,591	63.5	288,240	62.2
1-2	67,952	32.0	78,666	31.3	146,618	31.6
2-3	13,887	6.5	11,683	4.7	25,570	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
≥15	12	0.0	3	0.0	15	0.0
Total	212,254	100.0	251,140	100.0	463,394	100.0

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

Basic Survey, Fukushima Health Management Survey

Estimated external radiation doses (initial and full-scale surveys)

Appendix 4

As of 30 June 2016

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

Area/region		Effective Doses (mSv)																Total
		<1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	≥15	
Kempoku	Fukushima	16,152	52,413	9,328	151	13	10	4	0	0	0	0	0	0	0	0	0	78,071
	Nihonmatsu	1,314	8,634	3,523	90	1	0	0	0	0	0	0	0	0	0	0	0	13,562
	Date	4,376	9,041	1,133	147	8	2	3	1	1	0	0	0	0	0	0	0	14,712
	Motomiya	741	5,444	1,256	24	1	0	0	0	0	0	0	0	0	0	0	0	7,466
	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	1,054	133	2	0	0	0	0	0	0	0	0	0	0	0	0	1,579
Kempoku Subtotal		24,881	83,506	15,636	472	40	19	10	1	1	0	0	1	0	0	0	0	124,567
Kenchu	Koriyama	23,928	40,521	7,728	413	5	3	1	0	0	0	0	0	0	0	0	0	72,599
	Sukagawa	10,730	3,184	334	4	0	0	0	0	0	0	0	0	0	0	0	0	14,252
	Tamura	7,644	677	23	3	0	0	0	0	0	0	0	0	0	0	0	0	8,347
	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
	Ishikawa	3,164	38	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3,203
	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	1,211	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,226
	Furudono	1,059	14	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1,075
	Miharu	3,115	809	24	2	0	0	0	0	0	0	0	0	0	0	0	0	3,950
	Ono	2,021	83	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2,106
Kenchu Subtotal		58,071	46,040	8,174	423	5	3	1	0	0	0	0	0	0	0	0	0	112,717
Kennan	Shirakawa	12,282	1,269	9	0	0	0	0	0	0	0	0	0	0	0	0	0	13,560
	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
	Yabuki	3,343	79	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3,423
	Tanagura	2,521	28	3	0	0	0	0	0	0	0	0	0	0	0	0	0	2,552
	Yamatsuri	1,138	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,147
	Hanawa	1,852	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,875
	Samegawa	650	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	660
Kennan Subtotal		25,935	3,421	17	0	0	0	0	0	0	0	0	0	0	0	0	0	29,373
Aizu	Aizuwakamatsu	23,603	157	13	0	0	0	1	0	0	0	0	0	0	0	0	0	23,774
	Kitakata	8,881	55	3	1	0	0	0	0	0	0	0	0	0	0	0	0	8,940
	Kitashiobara	474	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	478
	Nishiaizu	1,011	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,013
	Bandai	654	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	664
	Inawashiro	2,838	30	3	0	0	0	0	0	0	0	0	0	0	0	0	0	2,871
	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	3,566	21	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3,590
Aizu Subtotal		45,656	303	25	1	0	0	1	0	0	0	0	0	0	0	0	0	45,986
Minami-aizu	Shimogo	956	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	961
	Hinoemata	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103
	Tadami	874	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	878
	Minami-aizu	3,006	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,032
Minami-aizu Subtotal		4,939	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,974
Soso	Soma	9,998	458	87	20	5	0	0	0	0	2	0	0	0	0	0	0	10,570
	Minami-soma	19,094	6,217	513	99	35	3	7	4	1	0	0	1	0	0	0	0	25,974
	Hirono	1,836	58	2	0	0	0	1	0	1	0	0	0	0	0	0	0	1,898
	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
	Kawauchi	962	350	16	1	0	1	1	1	0	0	0	0	0	0	0	0	1,332
	Okuma	3,370	1,282	112	17	6	4	4	3	0	2	2	1	0	4	0	1	4,808
	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
	Iitate	186	316	363	348	364	333	189	85	62	30	23	17	8	4	3	4	2,335
Soso Subtotal		55,751	12,681	1,688	595	459	366	218	115	77	41	36	29	13	12	6	15	72,102
Iwaki	Iwaki	73,007	632	30	4	1	1	0	0	0	0	0	0	0	0	0	0	73,675
Total		288,240	146,618	25,570	1,495	505	389	230	116	78	41	36	30	13	12	6	15	463,394
Proportion (%)		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
		93.8		5.8		0.2		0.1		0.0		0.0		0.0		0.0		99.9
		99.8					0.2					0.0					0.0	100.0
Visitors		1,442	271	18	2	0	0	0	0	0	0	0	0	0	0	0	0	1,733
Total+Visitors		289,682	146,889	25,588	1,497	505	389	230	116	78	41	36	30	13	12	6	15	465,127

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

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

Reported on 14 September 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 June 2016, we provide the primary examination at 51 medical institutions under contract, and try to have more institutions inside Fukushima Prefecture.

One hundred four institutions outside Fukushima Prefecture have agreed to cooperate as of 30 June 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 29 institutions that provide the examination as of 30 June 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 ≥5.1 mm or cysts ≥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

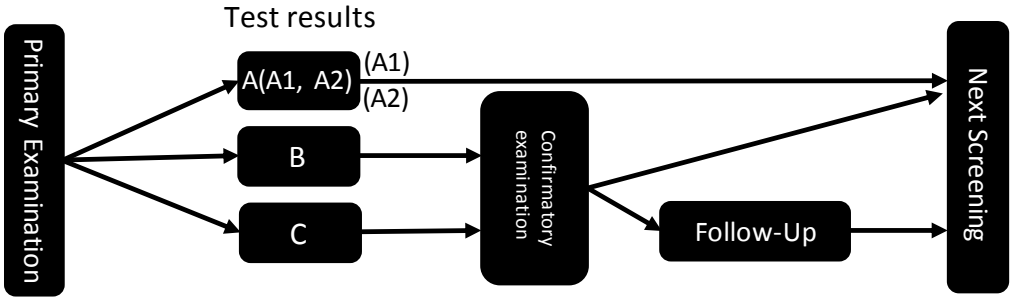


Fig.1 Flow chart

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 June 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 % (270,378 of 381,281) 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% (270,327) of the participants. (See Appendix 3.)

Those with A1 or A2 test results were 268,110 (99.2%), B were 2,217 (0.8%), and C was 0.

Table 1. Screening test coverage as of 30 June 2016

	Survey Population	Participants		Test results				
					Class (%)			
					A		Requiring confirmatory test	
	a	Proportion (%) b (b/a)	Screened outside Fukushima	Proportion (%) c (c/b)	A1 d (d/c)	A2 e (e/c)	B f (f/c)	C g (g/c)
FY 2014	216,875	159,104 (73.4)	11,381	159,090 (100.0)	66,408 (41.7)	91,379 (57.4)	1,303 (0.8)	0 (0.0)
FY 2015	164,406	111,274 (67.7)	4,171	111,237 (100.0)	42,211 (37.9)	68,112 (61.2)	914 (0.8)	0 (0.0)
Total	381,281	270,378 (70.9)	15,552	270,327 (100.0)	108,619 (40.2)	159,491 (59.0)	2,217 (0.8)	0 (0.0)

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

	Number of confirmed screening results	Number and proportion of children with nodules/cysts			
		Nodules		Cysts	
	a	≥5.1 mm b (b/a)	≤5.0 mm c (c/a)	≥20.1 mm d (d/a)	≤20.0 mm e (e/a)
FY 2014	159,090	1,299 (0.8)	1,006 (0.6)	2 (0.0)	91,794 (57.7)
FY 2015	111,237	910 (0.8)	560 (0.5)	4 (0.0)	68,473 (61.6)
Total	270,327	2,209 (0.8)	1,566 (0.6)	6 (0.0)	160,267 (59.3)

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

Because some duplicate records were found, numbers may vary slightly from previous reports.

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 27.7%, 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 23.3%, 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 25.5%, which was lower than other age groups.

Table 3. Participation rates in target municipalities by age group

As of 30 June 2016

		Total	Age group (years)			
FY 2014 target municipalities	Age group (years)		2-7	8-12	13-17	18-21
	Survey population (a)	216,875	56,485	53,374	57,781	49,235
	Participants (b)	159,104	45,329	49,783	50,338	13,654
	Proportion (%) (b/a)	73.4	80.2	93.3	87.1	27.7
FY 2015 target municipalities	Age group (years)		3-7	8-12	13-17	18-22
	Survey population (a)	164,406	33,763	38,762	44,020	47,861
	Participants (b)	111,274	25,837	36,189	38,106	11,142
	Proportion (%) (b/a)	67.7	76.5	93.4	86.6	23.3
Total	Survey population (a)	381,281	90,248	92,136	101,801	97,096
	Participants (b)	270,378	71,166	85,972	88,444	24,796
	Proportion (%) (b/a)	70.9	78.9	93.3	86.9	25.5

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

Among 245,218 participants who were diagnosed as A1 or A2 in the Preliminary Baseline Screening, 243,890 (99.5%) had A1 or A2 results, and 1,328 (0.5%) were diagnosed as B from the Full-scale Survey.

Among 1,366 participants who were diagnosed as B in the Preliminary Baseline Screening, 638 (46.7%) had A1 or A2 results, and 728 (53.3%) were diagnosed as B from the Full-scale Thyroid Screening Program.

Table 4. Comparison with the Preliminary Baseline Screening

As of 30 June 2016

			Number of test results of the Preliminary Baseline Screening* (%) a	Results of the Full-scale Thyroid Screening			
				A		B	C
				A1 b b/a (%)	A2 c c/a (%)	d d/a (%)	e e/a (%)
Results of the Preliminary Baseline Screening	A	A1	125,872 (100.0)	83,450 (66.3)	42,029 (33.4)	393 (0.3)	0 (0.0)
		A2	119,346 (100.0)	11,487 (9.6)	106,924 (89.6)	935 (0.8)	0 (0.0)
	B		1,366 (100.0)	108 (7.9)	530 (38.8)	728 (53.3)	0 (0.0)
	C		0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
	Non-participants		23,743 (100.0)	13,574 (57.2)	10,008 (42.2)	161 (0.7)	0 (0.0)
Total			270,327 (100.0)	108,619 (40.2)	159,491 (59.0)	2,217 (0.8)	0 (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 2,217, of whom 1,476 (66.6%) underwent confirmatory testing. Among them, 1,379 (93.4%) have completed the tests. (See Appendix 5.)

Of 1,379 participants, 350 (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 (25.4%).

Those who require 6- or 12-month follow-up provided by health insurance were 1,029 (74.6%).

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

	Number of those requiring confirmatory test	Participants	Confirmed test results				
		Proportion (%)	Confirmatory test coverage (%)	Next screening advised		Follow-up advised	
				A1	A2		Cytology
	a	b (b/a)	c (c/b)	d (d/c)	e (e/c)	f (f/c)	g (g/f)
FY 2014	1,303	1,044 (80.1)	1,010 (96.7)	36 (3.6)	233 (23.1)	741 (73.4)	145 (19.6)
FY 2015	914	432 (47.3)	369 (85.4)	11 (3.0)	70 (19.0)	288 (78.0)	31 (10.8)
Total	2,217	1,476 (66.6)	1,379 (93.4)	47 (3.4)	303 (22.0)	1,029 (74.6)	176 (17.1)

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, 59 had nodules classified as suspicious or malignant.

Twenty-five of them were male, and 34 were female. Age at the time of the confirmatory testing ranged from 9 to 23 years (mean age: 16.8 ±3.3 years). The minimum and maximum tumor size was 5.3-35.6 mm in diameter. Mean tumor diameter was 10.4 ±5.5 mm.

Results from the Preliminary Baseline Screening show that 54 of the 59 participants were categorized as A (A1: 28; A2: 26) and 5 as B.

Table 6. Results of FNAC

Target municipalities in FY 2014

Suspicious or malignant	48 *
Male to female ratio	19: 29
Mean age (SD, min-max)	17.2 (3.1, 10-23) 13.2 (3.1, 6-18) at the time of the disaster
Mean tumor size	9.2 mm (3.1 mm, 5.3-17.4 mm)

Target municipalities in FY 2015

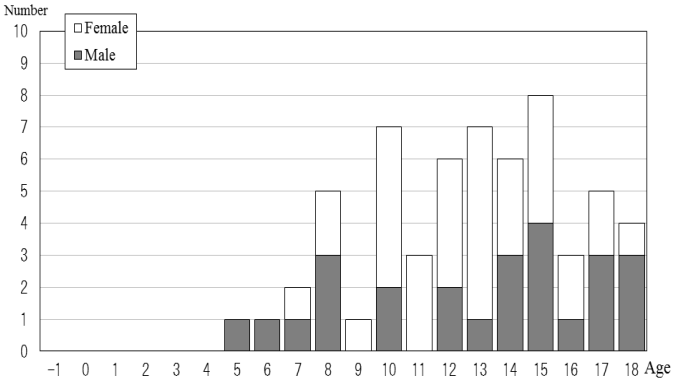
Suspicious or malignant	11 *
Male to female ratio	6: 5
Mean age (SD, min-max)	15.2 (4.1, 9-21) 10.5 (3.8, 5-16) at the time of the disaster
Mean tumor size	15.6 mm (9.6 mm, 5.7-35.6 mm)

Target municipalities in FY 2014-2015

Suspicious or malignant	59 *
Male to female ratio	25: 34
Mean age (SD, min-max)	16.8 (3.3, 9-23) 12.7 (3.3, 5-18) at the time of the disaster
Mean tumor size	10.4 mm (5.5 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

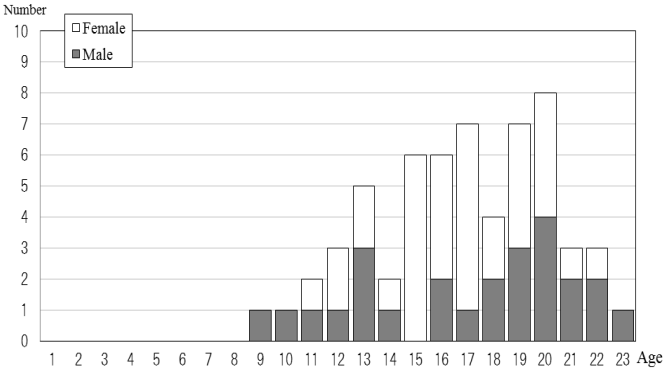


Fig. 4 Age as the date of confirmatory examination

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

Thirty-two (54.2%) of the 59 people participated in the Basic Survey (radiation dose estimates), and 32 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 June 2016

Effective dose (mSv)	Age at the time of the disaster									
	0-5		6-10		11-15		16-18		Total	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
<1	0	0	4	0	1	5	2	0	7	5
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	1	5	11	6	4	16	16

Estimates are based on effective external radiation doses.

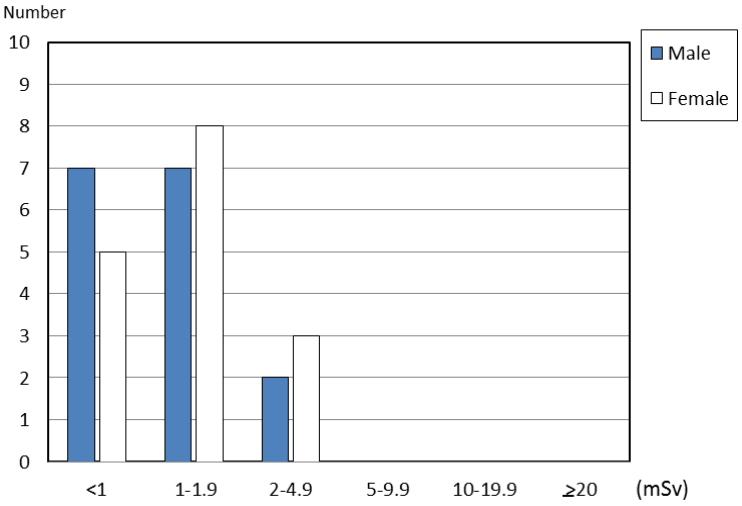


Fig. 5 Effective dose of the respondents

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

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

	FT4 1) (ng/dL)	FT3 2) (pg/mL)	TSH 3) (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
59 suspicious or malignant	1.2 ± 0.1 (3.4%)	3.5 ± 0.4 (1.7%)	1.7 ± 1.0 (11.9%)	46.1 ± 118.6 (20.3%)	− (20.3%)	− (11.9%)
Other 1,318	1.2 ± 0.2 (6.4%)	3.6 ± 0.7 (6.4%)	1.3 ± 1.0 (8.7%)	27.6 ± 142.0 (13.1%)	− (9.2%)	− (8.4%)

Table 9. Urinary iodine (μg/day)

	Minimum	25th percentile	Median	75th percentile	Maximum
59 suspicious or malignant	43	123	196	431	2280
Other 1,314	33	116	184.5	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.
4) 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 June 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), 0.01% in FY 2015 target municipalities (34 towns of Iwaki, the Kennan and Aizu areas).

Table 10.

Confirmatory test results by municipality in FY 2014

	Number of those screened	Participants who required confirmatory test	Proportion who required confirmatory test (%)	Number who underwent confirmatory test	Suspicious or malignant cases	Proportion of suspicious or malignant cases (%)
Kawamata	1,763	23	1.3	19	0	0.00
Namie	2,508	28	1.1	22	2	0.08
Iitate	763	14	1.8	11	0	0.00
Minami-soma	8,907	81	0.9	68	4	0.04
Date	9,110	86	0.9	78	7	0.08
Tamura	5,006	51	1.0	42	2	0.04
Hirono	679	9	1.3	7	0	0.00
Naraha	1,001	5	0.5	5	0	0.00
Tomioka	2,001	24	1.2	20	0	0.00
Kawauchi	213	2	0.9	2	0	0.00
Okuma	1,757	15	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	42,687	348	0.8	291	8	0.02
Nihonmatsu	7,885	59	0.7	50	1	0.01
Motomiya	4,809	31	0.6	26	3	0.06
Otama	1,263	6	0.5	6	0	0.00
Koriyama	48,023	364	0.8	274	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	9,665	63	0.7	48	1	0.01
Nishigo	3,178	28	0.9	20	0	0.00
Izumizaki	997	4	0.4	2	0	0.00
Miharu	2,386	24	1.0	13	0	0.00
Subtotal	159,104	1,303	0.8	1,044	48	0.03

Confirmatory test results by municipality in FY 2015

	Number of those screened	Participants who required confirmatory test	Proportion who required confirmatory test (%)	Number who underwent confirmatory test	Suspicious or malignant cases	Proportion of suspicious or malignant cases (%)
Iwaki	45,228	376	0.8	172	5	0.01
Sukagawa	11,444	105	0.9	76	1	0.01
Soma	4,747	32	0.7	25	1	0.02
Kagamiishi	1,978	16	0.8	13	1	0.05
Shinchi	1,036	13	1.3	10	0	0.00
Nakajima	754	5	0.7	3	1	0.13
Yabuki	2,410	16	0.7	12	0	0.00
Ishikawa	2,027	14	0.7	10	0	0.00
Yamatsuri	740	6	0.8	4	0	0.00
Asakawa	1,029	9	0.9	7	0	0.00
Hirata	855	7	0.8	5	0	0.00
Tanagura	2,160	17	0.8	9	0	0.00
Hanawa	1,166	11	0.9	8	0	0.00
Samegawa	493	6	1.2	5	0	0.00
Ono	1,262	12	1.0	6	0	0.00
Tamakawa	964	9	0.9	5	0	0.00
Furudono	793	5	0.6	3	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	5,725	44	0.8	6	0	0.00
Nishiaizu	654	4	0.6	3	0	0.00
Tadami	458	7	1.5	3	1	0.22
Inawashiro	1,728	12	0.7	9	0	0.00
Bandai	401	4	1.0	2	0	0.00
Kitashiobara	377	2	0.5	2	0	0.00
Aizumisato	2,537	21	0.8	2	0	0.00
Aizubange	2,063	18	0.9	4	0	0.00
Yanaizu	386	0	0.0	0	0	0.00
Aizuwakamatsu	14,566	118	0.8	14	1	0.01
Yugawa	516	4	0.8	0	0	0.00
Subtotal	111,274	914	0.8	432	11	0.01

Total	270,378	2,217	0.8	1,476	59	0.02

2.3 Mental Health Care

2.3-1 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, 738 participants (268 males and 470 females) have received support as of 30 June 2016. The number of consultations given to them was 1,345 in total. Of these, 786 (58.4%) received the support services during the first time of the examination, 516 (38.4 %) at the second time and after including 109 (8.1%) when undergoing FNAC, and 43 (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.

2.3-2 Briefing on the result 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 June 2016, 11,653 (72.4%) of 16,095 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.

Appendix 1

Thyroid Ultrasound Examination (TUE) coverage by municipality

As of 30 June 2016

	Survey Population	Participants		Proportion (%)	Number and proportion of participants by age group					Participants living outside Fukushima	Proportion (%)
			Screened outside Fukushima 3)		2-7	8-12	13-17	≥18			
	a	b		b/a						c	c/b
Screening coverage by municipality in FY 2014											
Kawamata	2,460	1,763	57	71.7	428	574	596	165	1)	73	4.1
					24.3	32.6	33.8	9.4	2)		
Namie	3,772	2,508	724	66.5	654	724	761	369		796	31.7
					26.1	28.9	30.3	14.7			
Iitate	1,123	763	38	67.9	186	275	239	63		50	6.6
					24.4	36.0	31.3	8.3			
Minami-soma	12,982	8,907	1,831	68.6	2,314	2,924	2,668	1,001		1,952	21.9
					26.0	32.8	30.0	11.2			
Date	11,741	9,110	348	77.6	2,263	2,748	2,972	1,127		361	4.0
					24.8	30.2	32.6	12.4			
Tamura	7,320	5,006	150	68.4	1,160	1,638	1,693	515		144	2.9
					23.2	32.7	33.8	10.3			
Hirono	1,108	679	110	61.3	167	194	220	98		101	14.9
					24.6	28.6	32.4	14.4			
Naraha	1,490	1,001	139	67.2	238	296	327	140		143	14.3
					23.8	29.6	32.7	14.0			
Tomioka	3,101	2,001	460	64.5	473	548	665	315		492	24.6
					23.6	27.4	33.2	15.7			
Kawauchi	360	213	23	59.2	49	75	69	20		23	10.8
					23.0	35.2	32.4	9.4			
Okuma	2,499	1,757	395	70.3	536	541	481	199		433	24.6
					30.5	30.8	27.4	11.3			
Futaba	1,258	685	260	54.5	182	229	190	84		271	39.6
					26.6	33.4	27.7	12.3			
Katsurao	241	150	15	62.2	34	56	47	13		11	7.3
					22.7	37.3	31.3	8.7			
Fukushima	55,736	42,687	2,458	76.6	11,035	12,769	13,355	5,528		2,934	6.9
					25.9	29.9	31.3	13.0			
Nihonmatsu	10,596	7,885	321	74.4	1,925	2,499	2,665	796		311	3.9
					24.4	31.7	33.8	10.1			
Motomiya	6,345	4,809	172	75.8	1,229	1,510	1,550	520		177	3.7
					25.6	31.4	32.2	10.8			
Otama	1,684	1,263	30	75.0	355	398	387	123		34	2.7
					28.1	31.5	30.6	9.7			
Koriyama	66,762	48,023	3,164	71.9	11,418	15,487	15,464	5,654		3,747	7.8
					23.8	32.2	32.2	11.8			
Kori	2,137	1,635	67	76.5	380	503	551	201		52	3.2
					23.2	30.8	33.7	12.3			
Kunimi	1,624	1,240	45	76.4	238	382	443	177		43	3.5
					19.2	30.8	35.7	14.3			
Tenei	1,101	793	27	72.0	214	264	251	64		28	3.5
					27.0	33.3	31.7	8.1			
Shirakawa	12,742	9,665	334	75.9	2,547	2,942	3,124	1,052		370	3.8
					26.4	30.4	32.3	10.9			
Nishigo	4,173	3,178	122	76.2	889	1,006	944	339		136	4.3
					28.0	31.7	29.7	10.7			
Izumizaki	1,337	997	24	74.6	265	314	304	114		14	1.4
					26.6	31.5	30.5	11.4			
Miharu	3,183	2,386	67	75.0	533	682	808	363		67	2.8
					22.3	28.6	33.9	15.2			
Subtotal	216,875	159,104	11,381	73.4	39,712	49,578	50,774	19,040		12,763	8.0
					25.0	31.2	31.9	12.0			

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

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

Fractions have been rounded and may not total to100%. Ages are at the time when the participants underwent the testing.

Because some duplicate records were found, numbers may vary slightly from previous reports.

Thyroid Ultrasound Examination (TUE) coverage by municipality

As of 30 June 2016

	Survey Population	Participants		Proportion (%)	Number and proportion of participants by age group				Participants living outside Fukushima	Proportion (%)
			Screened outside Fukushima 3)		2-7	8-12	13-17	≥18		
	a	b		b/a					c	c/b
Screening coverage by municipality in FY 2015										
Iwaki	64,309	45,228	2,226	70.3	8,299	14,274	15,528	7,127	2,322	5.1
					18.3	31.6	34.3	15.8		
Sukagawa	15,879	11,444	305	72.1	2,651	3,676	3,737	1,380	332	2.9
					23.2	32.1	32.7	12.1		
Soma	7,087	4,747	289	67.0	1,121	1,540	1,597	489	369	7.8
					23.6	32.4	33.6	10.3		
Kagamiishi	2,705	1,978	35	73.1	526	625	624	203	50	2.5
					26.6	31.6	31.5	10.3		
Shinchi	1,476	1,036	43	70.2	205	347	373	111	47	4.5
					19.8	33.5	36.0	10.7		
Nakajima	1,115	754	8	67.6	135	251	290	78	9	1.2
					17.9	33.3	38.5	10.3		
Yabuki	3,422	2,410	66	70.4	629	757	800	224	59	2.4
					26.1	31.4	33.2	9.3		
Ishikawa	2,956	2,027	42	68.6	482	592	718	235	49	2.4
					23.8	29.2	35.4	11.6		
Yamatsuri	1,056	740	26	70.1	195	225	232	88	14	1.9
					26.4	30.4	31.4	11.9		
Asakawa	1,389	1,029	42	74.1	209	317	362	141	38	3.7
					20.3	30.8	35.2	13.7		
Hirata	1,272	855	17	67.2	202	274	297	82	17	2.0
					23.6	32.0	34.7	9.6		
Tanagura	3,089	2,160	63	69.9	519	681	723	237	62	2.9
					24.0	31.5	33.5	11.0		
Hanawa	1,715	1,166	30	68.0	246	362	409	149	26	2.2
					21.1	31.0	35.1	12.8		
Samegawa	723	493	17	68.2	128	157	153	55	13	2.6
					26.0	31.8	31.0	11.2		
Ono	1,990	1,262	29	63.4	238	420	440	164	32	2.5
					18.9	33.3	34.9	13.0		
Tamakawa	1,372	964	15	70.3	208	339	319	98	12	1.2
					21.6	35.2	33.1	10.2		
Furudono	1,084	793	31	73.2	194	224	255	120	23	2.9
					24.5	28.2	32.2	15.1		
Hinoemata	110	35	4	31.8	0	0	35	0	3	4.5
					0.0	0.0	100.0	0.0		
Minami-aizu	2,913	1,762	48	60.5	365	578	640	179	42	2.4
					20.7	32.8	36.3	10.2		
Kaneyama	203	121	5	59.6	16	43	49	13	4	3.3
					13.2	35.5	40.5	10.7		
Showa	134	93	3	69.4	24	28	32	9	3	3.2
					25.8	30.1	34.4	9.7		
Mishima	197	121	0	61.4	15	45	50	11	1	0.8
					12.4	37.2	41.3	9.1		
Shimogo	1,011	614	15	60.7	101	204	240	69	12	2.0
					16.4	33.2	39.1	11.2		
Kitakata	9,236	5,725	128	62.0	1,016	1,939	2,176	594	120	2.1
					17.7	33.9	38.0	10.4		
Nishiaizu	1,055	654	10	62.0	136	175	271	72	10	1.5
					20.8	26.8	41.4	11.0		
Tadami	735	458	6	62.3	98	157	158	45	6	1.3
					21.4	34.3	34.5	9.8		
Inawashiro	2,757	1,728	49	62.7	349	570	602	207	55	3.2
					20.2	33.0	34.8	12.0		
Bandai	628	401	10	63.9	77	151	128	45	8	2.0
					19.2	37.7	31.9	11.2		
Kitashiobara	581	377	11	64.9	99	126	119	33	11	2.9
					26.3	33.4	31.6	8.8		
Aizumisato	3,790	2,537	56	66.9	522	801	903	311	53	2.1
					20.6	31.6	35.6	12.3		
Aizubange	3,183	2,063	39	64.8	388	669	760	246	36	1.7
					18.8	32.4	36.8	11.9		
Yanaizu	612	386	4	63.1	81	132	136	37	3	0.8
					21.0	34.2	35.2	9.6		
Aizuwakamatsu	23,926	14,566	483	60.9	2,533	4,951	5,430	1,652	513	3.5
					17.4	34.0	37.3	11.3		
Yugawa	696	516	16	74.1	109	156	183	68	15	2.9
					21.1	30.2	35.5	13.2		
Subtotal	164,406	111,274	4,171	67.7	22,124	35,806	38,769	14,575	4,369	3.9
					19.9	32.2	34.8	13.1		
Total	381,281	270,378	15,552	70.9	61,836	85,384	89,543	33,615	17,132	6.3
					22.9	31.6	33.1	12.4		

Appendix 2

Thyroid Ultrasound Examination (TUE) coverage by prefecture

As of 31 May 2016

Prefecture	Number of test venues	Participants*
Hokkaido	6	**414**
Aomori	1	**178**
Iwate	3	**360**
Miyagi	2	**2,931**
Akita	1	**281**
Yamagata	3	**807**
Ibaraki	4	**892**
Tochigi	7	**906**
Gunma	2	**263**
Saitama	2	**780**
Chiba	4	**829**
Tokyo	12	**2,637**
Kanagawa	5	**1,361**
Niigata	2	**906**
Toyama	1	**25**
Ishikawa	1	**60**

Prefecture	Number of test venues	Participants*
Fukui	1	**20**
Yamanashi	2	**147**
Nagano	2	**153**
Gifu	1	**37**
Shizuoka	2	**134**
Aichi	3	**242**
Mie	1	**37**
Shiga	1	**27**
Kyoto	3	**122**
Osaka	6	**270**
Hyogo	1	**142**
Nara	2	**31**
Wakayama	1	**8**
Tottori	1	**10**
Shimane	1	**6**
Okayama	3	**65**

Prefecture	Number of test venues	Participants*
Hiroshima	1	**42**
Yamaguchi	1	**20**
Tokushima	1	**11**
Kagawa	1	**22**
Ehime	1	**17**
Kochi	1	**14**
Fukuoka	3	**87**
Saga	1	**15**
Nagasaki	2	**36**
Kumamoto	1	**29**
Oita	1	**35**
Miyazaki	1	**36**
Kagoshima	1	**26**
Okinawa	1	**81**
Total	104	**15,552**

* 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

Results of primary examination by municipality

As of 30 June 2016

	Participants a	Confirmed results b	Number by test results Proportion (%)				Nodules		Cysts	
			A		B	C	Proportion (%)		Proportion (%)	
		Proportion (%) b/a (%)	A1	A2			≥5.1 mm	≤5.0 mm	≥20.1 mm	≤20.0 mm
Screening coverage by municipality in FY 2014										
Kawamata	1,763	1,763	779	961	23	0	22	13	1	972
		100.0	44.2	54.5	1.3	0.0	1.2	0.7	0.1	55.1
Namie	2,508	2,508	1,023	1,457	28	0	28	18	0	1,467
		100.0	40.8	58.1	1.1	0.0	1.1	0.7	0.0	58.5
Iitate	763	763	358	391	14	0	14	3	0	396
		100.0	46.9	51.2	1.8	0.0	1.8	0.4	0.0	51.9
Minami-soma	8,907	8,907	3,814	5,012	81	0	81	62	0	5,037
		100.0	42.8	56.3	0.9	0.0	0.9	0.7	0.0	56.6
Date	9,110	9,108	3,958	5,064	86	0	86	69	0	5,089
		100.0	43.5	55.6	0.9	0.0	0.9	0.8	0.0	55.9
Tamura	5,006	5,006	2,050	2,905	51	0	51	30	0	2,924
		100.0	41.0	58.0	1.0	0.0	1.0	0.6	0.0	58.4
Hirono	679	679	285	385	9	0	9	6	0	385
		100.0	42.0	56.7	1.3	0.0	1.3	0.9	0.0	56.7
Naraha	1,001	1,001	418	578	5	0	5	8	0	578
		100.0	41.8	57.7	0.5	0.0	0.5	0.8	0.0	57.7
Tomioka	2,001	2,001	820	1,157	24	0	24	19	0	1,165
		100.0	41.0	57.8	1.2	0.0	1.2	0.9	0.0	58.2
Kawauchi	213	213	69	142	2	0	2	1	0	143
		100.0	32.4	66.7	0.9	0.0	0.9	0.5	0.0	67.1
Okuma	1,757	1,757	760	982	15	0	15	12	0	985
		100.0	43.3	55.9	0.9	0.0	0.9	0.7	0.0	56.1
Futaba	685	685	283	400	2	0	2	7	0	399
		100.0	41.3	58.4	0.3	0.0	0.3	1.0	0.0	58.2
Katsurao	150	150	74	74	2	0	2	1	0	74
		100.0	49.3	49.3	1.3	0.0	1.3	0.7	0.0	49.3
Fukushima	42,687	42,687	18,061	24,278	348	0	346	265	0	24,404
		100.0	42.3	56.9	0.8	0.0	0.8	0.6	0.0	57.2
Nihonmatsu	7,885	7,885	3,436	4,390	59	0	59	55	0	4,400
		100.0	43.6	55.7	0.7	0.0	0.7	0.7	0.0	55.8
Motomiya	4,809	4,808	2,089	2,688	31	0	31	20	0	2,698
		100.0	43.4	55.9	0.6	0.0	0.6	0.4	0.0	56.1
Otama	1,263	1,263	567	690	6	0	6	8	0	690
		100.0	44.9	54.6	0.5	0.0	0.5	0.6	0.0	54.6
Koriyama	48,023	48,015	19,237	28,414	364	0	364	279	0	28,530
		100.0	40.1	59.2	0.8	0.0	0.8	0.6	0.0	59.4
Kori	1,635	1,635	703	918	14	0	14	11	0	921
		100.0	43.0	56.1	0.9	0.0	0.9	0.7	0.0	56.3
Kunimi	1,240	1,239	491	739	9	0	8	10	1	740
		99.9	39.6	59.6	0.7	0.0	0.6	0.8	0.1	59.7
Tenei	793	793	328	454	11	0	11	11	0	462
		100.0	41.4	57.3	1.4	0.0	1.4	1.4	0.0	58.3
Shirakawa	9,665	9,664	4,159	5,442	63	0	63	50	0	5,461
		100.0	43.0	56.3	0.7	0.0	0.7	0.5	0.0	56.5
Nishigo	3,178	3,178	1,356	1,794	28	0	28	25	0	1,802
		100.0	42.7	56.5	0.9	0.0	0.9	0.8	0.0	56.7
Izumizaki	997	997	369	624	4	0	4	10	0	624
		100.0	37.0	62.6	0.4	0.0	0.4	1.0	0.0	62.6
Miharu	2,386	2,385	921	1,440	24	0	24	13	0	1,448
		100.0	38.6	60.4	1.0	0.0	1.0	0.5	0.0	60.7
Subtotal	159,104	159,090	66,408	91,379	1,303	0	1,299	1,006	2	91,794
		100.0	41.7	57.4	0.8	0.0	0.8	0.6	0.0	57.7

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

Results of primary examination by municipality

As of 30 June 2016

	Participants	Confirmed results b	Number by test results				Nodules		Cysts	
			Proportion (%)							
			A		B	C	Proportion (%)		Proportion (%)	
	a	Proportion (%) b/a (%)	A1	A2			≥5.1 mm	≤5.0 mm	≥20.1 mm	≤20.0 mm
Screening coverage by municipality in FY 2015										
Iwaki	45,228	45,205	16,880	27,949	376	0	372	232	4	28,075
		99.9	37.3	61.8	0.8	0.0	0.8	0.5	0.0	62.1
Sukagawa	11,444	11,442	4,435	6,902	105	0	105	56	0	6,955
		100.0	38.8	60.3	0.9	0.0	0.9	0.5	0.0	60.8
Soma	4,747	4,747	2,008	2,707	32	0	32	26	0	2,715
		100.0	42.3	57.0	0.7	0.0	0.7	0.5	0.0	57.2
Kagamiishi	1,978	1,978	787	1,175	16	0	16	10	0	1,179
		100.0	39.8	59.4	0.8	0.0	0.8	0.5	0.0	59.6
Shinchi	1,036	1,036	412	611	13	0	13	2	0	618
		100.0	39.8	59.0	1.3	0.0	1.3	0.2	0.0	59.7
Nakajima	754	754	305	444	5	0	5	4	0	444
		100.0	40.5	58.9	0.7	0.0	0.7	0.5	0.0	58.9
Yabuki	2,410	2,409	954	1,439	16	0	16	8	0	1,447
		100.0	39.6	59.7	0.7	0.0	0.7	0.3	0.0	60.1
Ishikawa	2,027	2,027	827	1,186	14	0	14	13	0	1,190
		100.0	40.8	58.5	0.7	0.0	0.7	0.6	0.0	58.7
Yamatsuri	740	740	269	465	6	0	6	1	0	467
		100.0	36.4	62.8	0.8	0.0	0.8	0.1	0.0	63.1
Asakawa	1,029	1,029	444	576	9	0	9	4	0	579
		100.0	43.1	56.0	0.9	0.0	0.9	0.4	0.0	56.3
Hirata	855	855	362	486	7	0	7	3	0	491
		100.0	42.3	56.8	0.8	0.0	0.8	0.4	0.0	57.4
Tanagura	2,160	2,159	862	1,280	17	0	17	10	0	1,288
		100.0	39.9	59.3	0.8	0.0	0.8	0.5	0.0	59.7
Hanawa	1,166	1,166	459	696	11	0	11	8	0	699
		100.0	39.4	59.7	0.9	0.0	0.9	0.7	0.0	59.9
Samegawa	493	492	184	302	6	0	6	4	0	305
		99.8	37.4	61.4	1.2	0.0	1.2	0.8	0.0	62.0
Ono	1,262	1,262	409	841	12	0	12	5	0	844
		100.0	32.4	66.6	1.0	0.0	1.0	0.4	0.0	66.9
Tamakawa	964	964	369	586	9	0	9	8	0	591
		100.0	38.3	60.8	0.9	0.0	0.9	0.8	0.0	61.3
Furudono	793	793	311	477	5	0	5	4	0	479
		100.0	39.2	60.2	0.6	0.0	0.6	0.5	0.0	60.4
Hinoemata	66	66	28	38	0	0	0	1	0	37
		100.0	42.4	57.6	0.0	0.0	0.0	1.5	0.0	56.1
Minami-aizu	1,762	1,762	688	1,058	16	0	16	5	0	1,069
		100.0	39.0	60.0	0.9	0.0	0.9	0.3	0.0	60.7
Kaneyama	121	121	39	82	0	0	0	0	0	82
		100.0	32.2	67.8	0.0	0.0	0.0	0.0	0.0	67.8
Showa	93	93	36	57	0	0	0	1	0	57
		100.0	38.7	61.3	0.0	0.0	0.0	1.1	0.0	61.3
Mishima	121	121	27	93	1	0	1	0	0	94
		100.0	22.3	76.9	0.8	0.0	0.8	0.0	0.0	77.7
Shimogo	614	613	250	359	4	0	4	3	0	361
		99.8	40.8	58.6	0.7	0.0	0.7	0.5	0.0	58.9
Kitakata	5,725	5,724	2,125	3,555	44	0	44	22	0	3,580
		100.0	37.1	62.1	0.8	0.0	0.8	0.4	0.0	62.5
Nishiaizu	654	653	288	361	4	0	4	5	0	360
		99.8	44.1	55.3	0.6	0.0	0.6	0.8	0.0	55.1
Tadami	458	458	176	275	7	0	7	2	0	278
		100.0	38.4	60.0	1.5	0.0	1.5	0.4	0.0	60.7
Inawashiro	1,728	1,728	689	1,027	12	0	12	9	0	1,034
		100.0	39.9	59.4	0.7	0.0	0.7	0.5	0.0	59.8
Bandai	401	401	157	240	4	0	4	1	0	243
		100.0	39.2	59.9	1.0	0.0	1.0	0.2	0.0	60.6
Kitashiobara	377	377	143	232	2	0	2	2	0	232
		100.0	37.9	61.5	0.5	0.0	0.5	0.5	0.0	61.5
Aizumisato	2,537	2,535	1,007	1,507	21	0	21	9	0	1,516
		99.9	39.7	59.4	0.8	0.0	0.8	0.4	0.0	59.8
Aizubange	2,063	2,063	705	1,340	18	0	18	18	0	1,347
		100.0	34.2	65.0	0.9	0.0	0.9	0.9	0.0	65.3
Yanaizu	386	386	154	232	0	0	0	1	0	232
		100.0	39.9	60.1	0.0	0.0	0.0	0.3	0.0	60.1
Aizuwakamatsu	14,566	14,562	5,241	9,203	118	0	118	80	0	9,251
		100.0	36.0	63.2	0.8	0.0	0.8	0.5	0.0	63.5
Yugawa	516	516	181	331	4	0	4	3	0	334
		100.0	35.1	64.1	0.8	0.0	0.8	0.6	0.0	64.7
Subtotal	111,274	111,237	42,211	68,112	914	0	910	560	4	68,473
		100.0	37.9	61.2	0.8	0.0	0.8	0.5	0.0	61.6
Total	270,378	270,327	108,619	159,491	2,217	0	2,209	1,566	6	160,267
		100.0	40.2	59.0	0.8	0.0	0.8	0.6	0.0	59.3

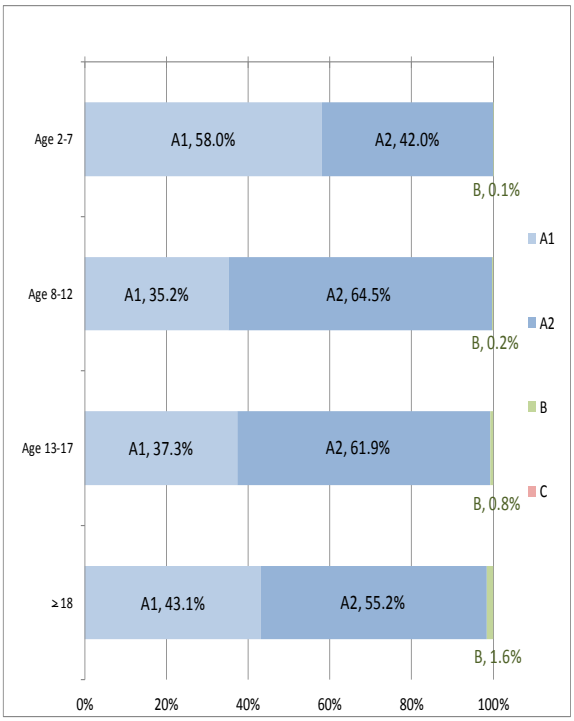
Appendix 4

1. Thyroid Ultrasound Examination results by age and sex

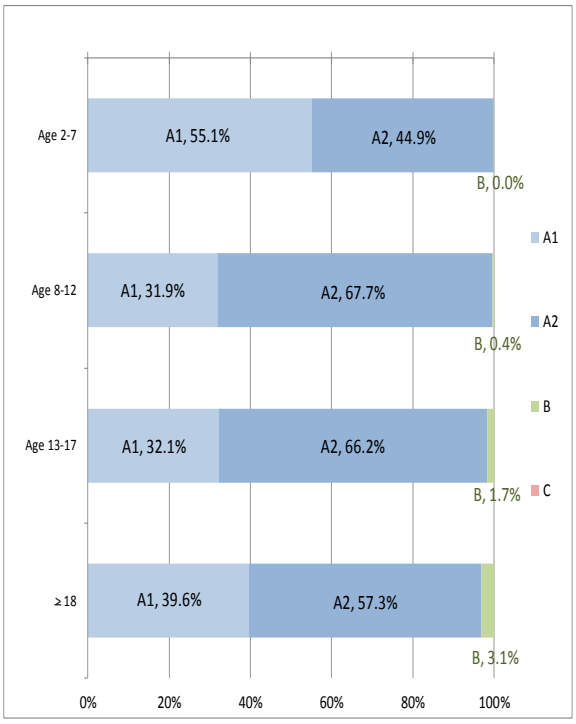
As of 30 June 2016

Ages	A						B			C			Total		
	A1			A2											
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
2-7	18,412	16,562	34,974	13,331	13,496	26,827	19	14	33	0	0	0	31,762	30,072	61,834
8-12	15,389	13,307	28,696	28,186	28,216	56,402	107	174	281	0	0	0	43,682	41,697	85,379
13-17	16,985	14,128	31,113	28,182	29,150	57,332	358	735	1,093	0	0	0	45,525	44,013	89,538
≥18	6,612	7,224	13,836	8,473	10,457	18,930	253	557	810	0	0	0	15,338	18,238	33,576
Total	57,398	51,221	108,619	78,172	81,319	159,491	737	1,480	2,217	0	0	0	136,307	134,020	270,327

Test results by age group (Male)



Test results by age group (Female)



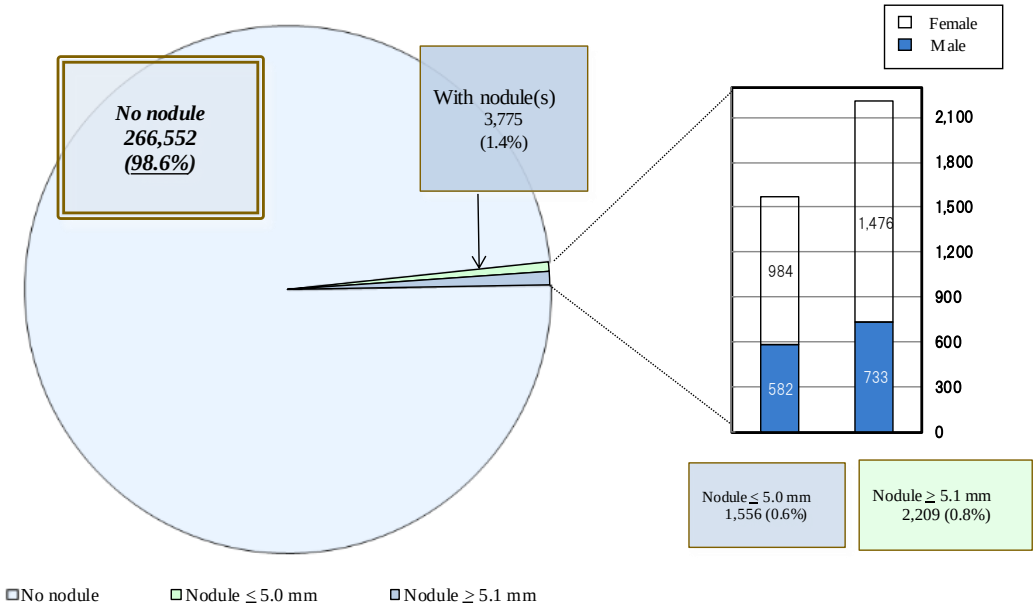
Percentages have been rounded and may not total to 100%.

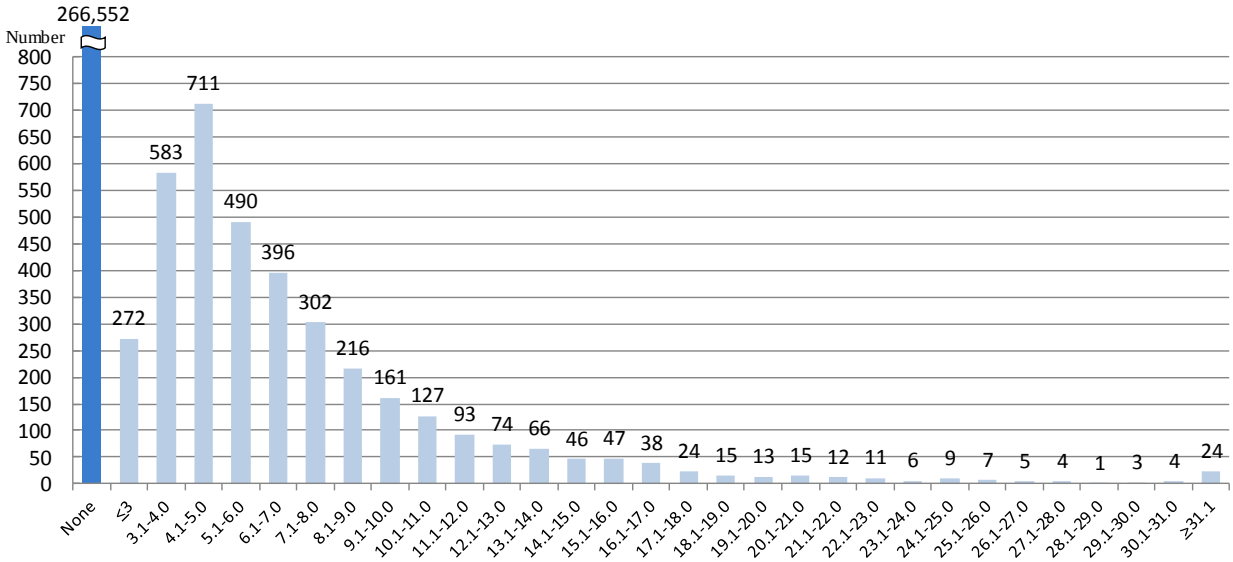
Ages are at the time when the participants underwent the testing.

2. Nodule size

As of 30 June 2016

Nodule size	Total	Male	Female	Class	Proportion
None	266,552	134,992	131,560	A 1	98.6%
≤ 3.0 mm	272	116	156	A 2	0.6%
3.1-5.0 mm	1,294	466	828		
5.1-10.0 mm	1,565	512	1,053	B	0.8%
10.1-15.0 mm	406	144	262		
15.1-20.0 mm	137	55	82		
20.1-25.0 mm	53	8	45		
≥ 25.1 mm	48	14	34		
Total	270,327	136,307	134,020		

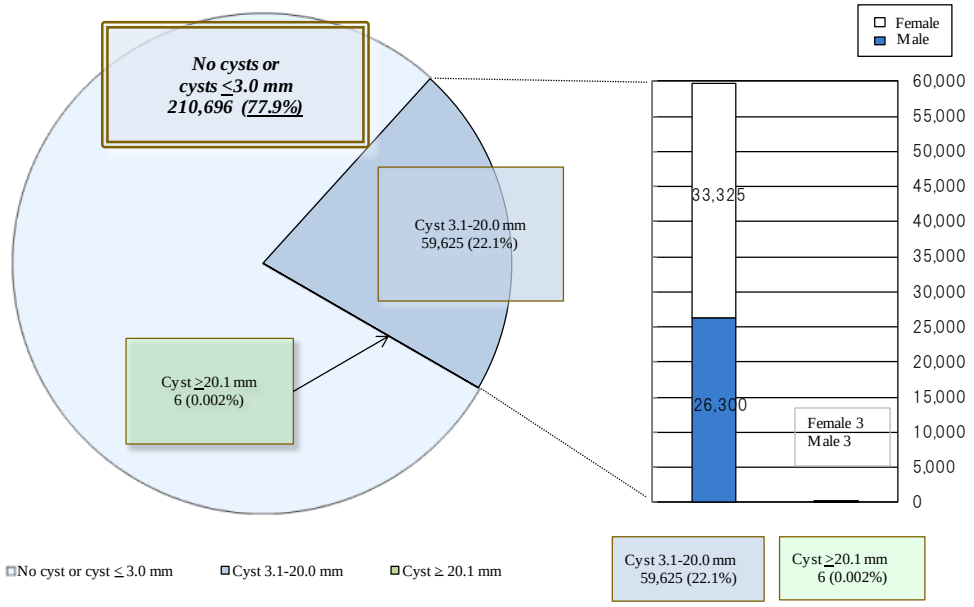


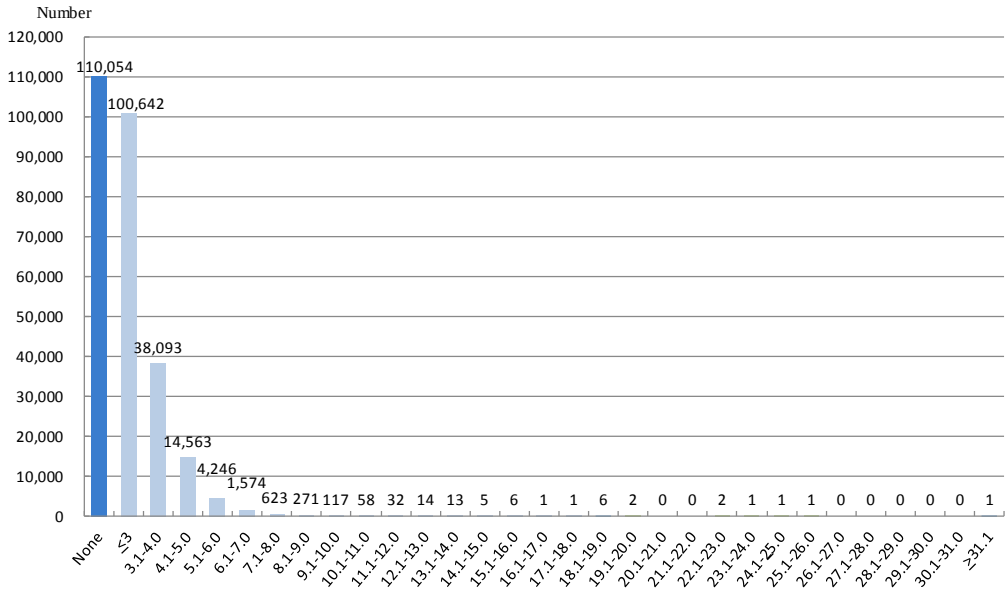


3. Cyst size

As of 30 June 2016

Cyst size	Total	Male	Female	Class	Proportion
None	110,054	57,916	52,138	A 1	77.9%
≤ 3.0 mm	100,642	52,088	48,554	A 2	22.1%
3.1-5.0 mm	52,656	23,923	28,733		
5.1-10.0 mm	6,831	2,334	4,497		
10.1-15.0 mm	122	39	83		
15.1-20.0 mm	16	4	12		
20.1-25.0 mm	4	2	2	B	0.002%
≥ 25.1 mm	2	1	1		
Total	270,327	136,307	134,020		





Appendix 5

Confirmatory test results by municipality

As of 30 June 2016

District	Number of those screened	Participants who required confirmatory test	Number of those who underwent confirmatory test					Number of confirmed results				
			Total	Ages 2-7	Ages 8-12	Ages 13-17	≥ 18	Total	Next screening advised		Follow-up advised	
												Aspiration biopsy cytology
	a	b	c	d	e	f	g	h	A1 i	A2 i	k	l
		Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)
Screening coverage by municipality in FY 2014												
Kawamata	1,763	23	19	0	3	12	4	19	3	7	9	1
		1.3	82.6	0.0	15.8	63.2	21.1	100.0	15.8	36.8	47.4	11.1
Namie	2,508	28	22	0	2	9	11	22	0	2	20	3
		1.1	78.6	0.0	9.1	40.9	50.0	100.0	0.0	9.1	90.9	15.0
Iitate	763	14	11	0	2	6	3	11	2	3	6	1
		1.8	78.6	0.0	18.2	54.5	27.3	100.0	18.2	27.3	54.5	16.7
Minami-soma	8,907	81	68	2	10	27	29	67	4	16	47	14
		0.9	84.0	2.9	14.7	39.7	42.6	98.5	6.0	23.9	70.1	29.8
Date	9,110	86	78	1	17	38	22	73	0	26	47	9
		0.9	90.7	1.3	21.8	48.7	28.2	93.6	0.0	35.6	64.4	19.1
Tamura	5,006	51	42	1	3	28	10	41	1	10	30	6
		1.0	82.4	2.4	7.1	66.7	23.8	97.6	2.4	24.4	73.2	20.0
Hirono	679	9	7	0	1	3	3	7	0	3	4	0
		1.3	77.8	0.0	14.3	42.9	42.9	100.0	0.0	42.9	57.1	0.0
Naraha	1,001	5	5	0	0	1	4	5	0	0	5	0
		0.5	100.0	0.0	0.0	20.0	80.0	100.0	0.0	0.0	100.0	0.0
Tomioka	2,001	24	20	0	3	4	13	19	1	5	13	1
		1.2	83.3	0.0	15.0	20.0	65.0	95.0	5.3	26.3	68.4	7.7
Kawauchi	213	2	2	0	0	1	1	2	0	0	2	0
		0.9	100.0	0.0	0.0	50.0	50.0	100.0	0.0	0.0	100.0	0.0
Okuma	1,757	15	13	0	1	6	6	13	0	2	11	3
		0.9	86.7	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	1	1	1	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	2	2	0	2	0	0	2	0	2	0	0
		1.3	100.0	0.0	100.0	0.0	0.0	100.0	0.0	100.0	0.0	0.0
Fukushima	42,687	348	291	5	38	140	108	282	12	52	218	48
		0.8	83.6	1.7	13.1	48.1	37.1	96.9	4.3	18.4	77.3	22.0
Nihonmatsu	7,885	59	50	1	6	23	20	50	1	9	40	4
		0.7	84.7	2.0	12.0	46.0	40.0	100.0	2.0	18.0	80.0	10.0
Motomiya	4,809	31	26	0	1	15	10	24	0	4	20	5
		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	5	0	2	3	0
		0.5	100.0	0.0	0.0	66.7	33.3	83.3	0.0	40.0	60.0	0.0
Koriyama	48,023	364	274	7	31	128	108	263	8	54	201	41
		0.8	75.3	2.6	11.3	46.7	39.4	96.0	3.0	20.5	76.4	20.4
Kori	1,635	14	10	0	1	5	4	9	0	3	6	1
		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	1	1	0	6	8	0	1	7	0
		0.7	88.9	12.5	12.5	0.0	75.0	100.0	0.0	12.5	87.5	0.0
Tenei	793	11	6	0	0	3	3	6	1	1	4	1
		1.4	54.5	0.0	0.0	50.0	50.0	100.0	16.7	16.7	66.7	25.0
Shirakawa	9,665	63	48	1	4	24	19	47	1	17	29	4
		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	20	0	2	12	6	19	0	8	11	3
		0.9	71.4	0.0	10.0	60.0	30.0	95.0	0.0	42.1	57.9	27.3
Izumizaki	997	4	2	0	0	1	1	2	0	0	2	0
		0.4	50.0	0.0	0.0	50.0	50.0	100.0	0.0	0.0	100.0	0.0
Miharu	2,386	24	13	0	0	10	3	13	1	6	6	0
		1.0	54.2	0.0	0.0	76.9	23.1	100.0	7.7	46.2	46.2	0.0
Subtotal	159,104	1,303	1044	19	128	500	397	1010	36	233	741	145
		0.8	80.1	1.8	12.3	47.9	38.0	96.7	3.6	23.1	73.4	19.6

h) Excluding participants who have not receive 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

As of 30 June 2016

District	Number of those screened	Participants who required confirmatory test	Number of those who underwent confirmatory test					Number of confirmed results				
			Total	Ages 2-7	Ages 8-12	Ages 13-17	≥ 18	Total	Next screening advised		Follow-up advised	
												Aspiration biopsy cytology
	a	b	c	d	e	f	g	h	A1 i	A2 j	k	l
		Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)
Screening coverage by municipality in FY 2015												
Iwaki	45,228	376	172	2	18	74	78	134	4	25	105	11
		0.8	45.7	1.2	10.5	43.0	45.3	77.9	3.0	18.7	78.4	10.5
Sukagawa	11,444	105	76	1	10	38	27	72	1	17	54	5
		0.9	72.4	1.3	13.2	50.0	35.5	94.7	1.4	23.6	75.0	9.3
Soma	4,747	32	25	3	2	13	7	23	0	5	18	2
		0.7	78.1	12.0	8.0	52.0	28.0	92.0	0.0	21.7	78.3	11.1
Kagamiishi	1,978	16	13	0	0	7	6	13	0	2	11	1
		0.8	81.3	0.0	0.0	53.8	46.2	100.0	0.0	15.4	84.6	9.1
Shinchi	1,036	13	10	0	2	4	4	10	1	2	7	2
		1.3	76.9	0.0	20.0	40.0	40.0	100.0	10.0	20.0	70.0	28.6
Nakajima	754	5	3	0	0	2	1	3	0	0	3	1
		0.7	60.0	0.0	0.0	66.7	33.3	100.0	0.0	0.0	100.0	33.3
Yabuki	2,410	16	12	0	3	5	4	12	0	3	9	0
		0.7	75.0	0.0	25.0	41.7	33.3	100.0	0.0	25.0	75.0	0.0
Ishikawa	2,027	14	10	0	1	8	1	9	1	2	6	1
		0.7	71.4	0.0	10.0	80.0	10.0	90.0	11.1	22.2	66.7	16.7
Yamatsuri	740	6	4	0	1	1	2	3	0	2	1	1
		0.8	66.7	0.0	25.0	25.0	50.0	75.0	0.0	66.7	33.3	100.0
Asakawa	1,029	9	7	1	0	3	3	7	1	0	6	1
		0.9	77.8	14.3	0.0	42.9	42.9	100.0	14.3	0.0	85.7	16.7
Hirata	855	7	5	0	2	3	0	4	0	1	3	0
		0.8	71.4	0.0	40.0	60.0	0.0	80.0	0.0	25.0	75.0	0.0
Tanagura	2,160	17	9	0	2	4	3	7	0	1	6	2
		0.8	52.9	0.0	22.2	44.4	33.3	77.8	0.0	14.3	85.7	33.3
Hanawa	1,166	11	8	0	0	5	3	8	1	1	6	1
		0.9	72.7	0.0	0.0	62.5	37.5	100.0	12.5	12.5	75.0	16.7
Samegawa	493	6	5	0	0	3	2	4	0	0	4	0
		1.2	83.3	0.0	0.0	60.0	40.0	80.0	0.0	0.0	100.0	0.0
Ono	1,262	12	6	0	2	2	2	5	1	0	4	0
		1.0	50.0	0.0	33.3	33.3	33.3	83.3	20.0	0.0	80.0	0.0
Tamakawa	964	9	5	0	0	4	1	4	0	1	3	0
		0.9	55.6	0.0	0.0	80.0	20.0	80.0	0.0	25.0	75.0	0.0
Furudono	793	5	3	0	1	1	1	3	0	1	2	0
		0.6	60.0	0.0	33.3	33.3	33.3	100.0	0.0	33.3	66.7	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	0.0	0.0	0.0	0.0	0.0	0.0
Minami-aizu	1,762	16	11	0	3	6	2	10	0	2	8	0
		0.9	68.8	0.0	27.3	54.5	18.2	90.9	0.0	20.0	80.0	0.0
Kaneyama	121	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
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
Mishima	121	1	1	0	0	1	0	1	0	0	1	0
		0.8	100.0	0.0	0.0	100.0	0.0	100.0	0.0	0.0	100.0	0.0
Shimogo	614	4	2	0	0	0	2	2	0	0	2	1
		0.7	50.0	0.0	0.0	0.0	100.0	100.0	0.0	0.0	100.0	50.0
Kitakata	5,725	44	6	0	0	4	2	5	0	1	4	0
		0.8	13.6	0.0	0.0	66.7	33.3	83.3	0.0	20.0	80.0	0.0
Nishiaizu	654	4	3	0	0	2	1	3	0	1	2	0
		0.6	75.0	0.0	0.0	66.7	33.3	100.0	0.0	33.3	66.7	0.0
Tadami	458	7	3	0	0	2	1	3	0	0	3	1
		1.5	42.9	0.0	0.0	66.7	33.3	100.0	0.0	0.0	100.0	33.3
Inawashiro	1,728	12	9	0	0	4	5	7	0	1	6	0
		0.7	75.0	0.0	0.0	44.4	55.6	77.8	0.0	14.3	85.7	0.0
Bandai	401	4	2	0	0	0	2	2	0	0	2	0
		1.0	50.0	0.0	0.0	0.0	100.0	100.0	0.0	0.0	100.0	0.0
Kitashiobara	377	2	2	0	1	0	1	2	0	0	2	0
		0.5	100.0	0.0	50.0	0.0	50.0	100.0	0.0	0.0	100.0	0.0
Aizumisato	2,537	21	2	1	0	0	1	1	0	0	1	0
		0.8	9.5	50.0	0.0	0.0	50.0	50.0	0.0	0.0	100.0	0.0
Aizubange	2,063	18	4	0	0	2	2	3	0	0	3	0
		0.9	22.2	0.0	0.0	50.0	50.0	75.0	0.0	0.0	100.0	0.0
Yanaizu	386	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
Aizuwakamatsu	14,566	118	14	0	1	10	3	9	1	2	6	1
		0.8	11.9	0.0	7.1	71.4	21.4	64.3	11.1	22.2	66.7	16.7
Yugawa	516	4	0	0	0	0	0	0	0	0	0	0
		0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal	111,274	914	432	8	49	208	167	369	11	70	288	31
		0.8	47.3	1.9	11.3	48.1	38.7	85.4	3.0	19.0	78.0	10.8
Total	270,378	2,217	1,476	27	177	708	564	1,379	47	303	1,029	176
		0.8	66.6	1.8	12.0	48.0	38.2	93.4	3.4	22.0	74.6	17.1

Appendix 6

Surgical cases for malignancy or suspicion of malignancy

1. Target municipalities in FY 2014

   Suspicious or malignant: 48 (31 surgical cases: 30 papillary thyroid carcinomas, 1 other thyroid carcinoma)

2. Target municipalities in FY 2015

   Suspicious or malignant: 11 (3 surgical cases: 3 papillary thyroid carcinomas)

3. Total for cases FY 2014 - 2015

   Suspicious or malignant: 59 (34 surgical cases: 33 papillary thyroid carcinomas, 1 other thyroid carcinoma)

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

Reported on 14 September 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 Policy on the Second Full-scale Thyroid Screening (third-round examination)

1.3-1 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.

1.3-2 Revision of the Primary Examination Consent Form (Examination Notice)

In the examination notice, we will detail the purpose of the examination and inform each examinee that the condition of their thyroid gland will be ascertained to an extent that may provoke some anxiety on the part of the examinee. In addition, we will set up a column where the examinee can grant or withhold consent for the examination in order to clearly confirm each examinee's volition before proceeding.

As for examinees residing in Fukushima Prefecture, we have thus far sent examination notices in accordance with examination schedules based on their residence at the time of the earthquake disaster. From this examination forward, however, we will send notices in accordance with examination schedules based on each examinee's current residence, for better convenience.

1.3-3 Revision of the Primary Examination Result Notice

Given that the total number of examinations will increase from the second-round Full-scale Thyroid Screening Program, the primary examination notice will specify the results of the previous two examinations along with those of the latest examination and use easy-to-understand expressions for explaining the results.

For each examinee whose results warrant a confirmatory examination, we will enclose a postcard with the examination results notice to ascertain whether the examinee wishes to undergo a confirmatory examination and how health insurance coverage applies to follow-up treatment.

1.4 Method

1.4-1 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 ≥5.1 mm or cysts ≥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.

1.4-2 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.

1.4-3 Flow chart

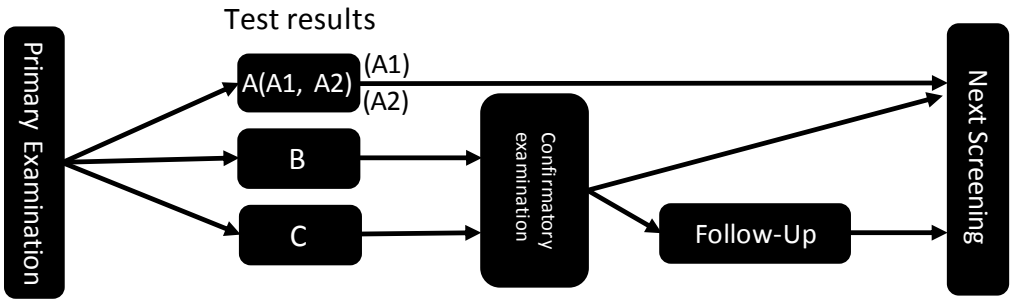


Fig.1 Flow chart

1.5 Target Municipalities

25 target municipalities for FY 2016

34 target municipalities for FY 2017

Fig.2 Target Municipalities

2. Results as of 30 June 2016

2.1 Results of Primary Examination

2.1-1 Progress Report

The Primary Examination started 1 May 2016, and the participation rate is 4.6% (17,481 of 381,172) from 59 municipalities (25 municipalities in FY 2016, and 34 in FY 2017). (See Appendix 1 and 2.)

As of 30 June 2016, examination results were not fully tabulated.

Table 1. Screening test coverage as of 30 June 2016

	Survey Population	Participants		Test results				
		Proportion (%)	Screened outside Fukushima	Proportion (%)	Class (%)			
					A		Requiring confirmatory test	
	a	b (b/a)		c (c/b)	A1 d (d/c)	A2 e (e/c)	B f (f/c)	C g (g/c)
FY 2016	216,815	17,026 (7.9)	42	–	–	–	–	–
FY 2017	164,357	455 (0.3)	33	–	–	–	–	–
Total	381,172	17,481 (4.6)	75	–	–	–	–	–

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

Appendix 1

Thyroid Ultrasound Examination (TUE) coverage by municipality

As of 30 June 2016

	Survey Population	Participants		Proportion (%)	Number and proportion of participants by age group					Participants living outside Fukushima	Proportion (%)
			Screened outside Fukushima 3)		4-9	10-14	15-19	≥ 20			
	a	b		b/a						c	c/b
Screening coverage by municipality in FY 2016											
Kawamata	2,459	914	0	37.2	279	507	114	14	1)	0	0.0
					30.5	55.5	12.5	1.5	2)		
Namie	3,772	196	1	5.2	40	88	57	11		2	1.0
					20.4	44.9	29.1	5.6			
Iitate	1,122	238	0	21.2	61	153	22	2		1	0.4
					25.6	64.3	9.2	0.8			
Minami-soma	12,979	4,053	14	31.2	1,107	1,891	1,009	46		18	0.4
					27.3	46.7	24.9	1.1			
Date	11,737	4,897	6	41.7	1,458	2,484	864	91		6	0.1
					29.8	50.7	17.6	1.9			
Tamura	7,316	2,720	3	37.2	891	1,473	333	23		3	0.1
					32.8	54.2	12.2	0.8			
Hirono	1,108	216	0	19.5	80	103	32	1		0	0.0
					37.0	47.7	14.8	0.5			
Naraha	1,490	149	0	10.0	45	73	30	1		1	0.7
					30.2	49.0	20.1	0.7			
Tomioka	3,100	117	0	3.8	24	46	43	4		1	0.9
					20.5	39.3	36.8	3.4			
Kawauchi	360	62	0	17.2	22	27	13	0		0	0.0
					35.5	43.5	21.0	0.0			
Okuma	2,498	142	0	5.7	38	60	44	0		3	2.1
					26.8	42.3	31.0	0.0			
Futaba	1,258	51	0	4.1	16	24	11	0		0	0.0
					31.4	47.1	21.6	0.0			
Katsurao	241	39	0	16.2	14	19	4	2		1	2.6
					35.9	48.7	10.3	5.1			
Fukushima	55,724	618	2	1.1	152	56	407	3		5	0.8
					24.6	9.1	65.9	0.5			
Nihonmatsu	10,592	705	3	6.7	136	448	71	50		2	0.3
					19.3	63.5	10.1	7.1			
Motomiya	6,345	368	3	5.8	190	136	9	33		2	0.5
					51.6	37.0	2.4	9.0			
Otama	1,683	235	0	14.0	1	209	18	7		0	0.0
					0.4	88.9	7.7	3.0			
Koriyama	66,748	139	5	0.2	61	33	42	3		11	7.9
					43.9	23.7	30.2	2.2			
Kori	2,135	655	0	30.7	166	383	93	13		0	0.0
					25.3	58.5	14.2	2.0			
Kunimi	1,622	429	5	26.4	207	153	49	20		2	0.5
					48.3	35.7	11.4	4.7			
Tenei	1,101	2	0	0.2	1	1	0	0		0	0.0
					50.0	50.0	0.0	0.0			
Shirakawa	12,733	11	0	0.1	3	3	5	0		0	0.0
					27.3	27.3	45.5	0.0			
Nishigo	4,173	1	0	0.0	0	0	1	0		0	0.0
					0.0	0.0	100.0	0.0			
Izumizaki	1,336	0	0	0.0	0	0	0	0		0	0.0
					0.0	0.0	0.0	0.0			
Miharu	3,183	69	0	2.2	22	12	35	0		0	0.0
					31.9	17.4	50.7	0.0			
Subtotal	216,815	17,026	42	7.9	5,014	8,382	3,306	324		58	0.3
					29.4	49.2	19.4	1.9			

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

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

Fractions have been rounded and may not total to100%. Ages are at the time when the participants underwent the testing.

Thyroid Ultrasound Examination (TUE) coverage by municipality

As of 30 June 2016

	Survey Population	Participants		Proportion (%)	Number and proportion of participants by age group				Participants living outside Fukushima	Proportion (%)
			Screened outside Fukushima 3)		4-9	10-14	15-19	≥ 20		
	a	b		b/a					c	c/b
Screening coverage by municipality in FY 2017										
Iwaki	64,294	146	15	0.2	37 25.3	21 14.4	79 54.1	9 6.2	20	13.7
Sukagawa	15,877	26	6	0.2	13 50.0	7 26.9	4 15.4	2 7.7	8	30.8
Soma	7,082	153	0	2.2	16 10.5	13 8.5	124 81.0	0 0.0	0	0.0
Kagamiishi	2,705	3	0	0.1	0 0.0	2 66.7	0 0.0	1 33.3	0	0.0
Shinchi	1,476	23	0	1.6	3 13.0	0 0.0	20 87.0	0 0.0	1	4.3
Nakajima	1,115	1	0	0.1	1 100.0	0 0.0	0 0.0	0 0.0	0	0.0
Yabuki	3,419	4	0	0.1	1 25.0	3 75.0	0 0.0	0 0.0	0	0.0
Ishikawa	2,957	1	0	0.0	1 100.0	0 0.0	0 0.0	0 0.0	0	0.0
Yamatsuri	1,055	0	0	0.0	0 0.0	0 0.0	0 0.0	0 0.0	0	0.0
Asakawa	1,387	0	0	0.0	0 0.0	0 0.0	0 0.0	0 0.0	0	0.0
Hirata	1,272	4	0	0.3	2 50.0	1 25.0	1 25.0	0 0.0	0	0.0
Tanagura	3,085	5	1	0.2	2 40.0	2 40.0	0 0.0	1 20.0	2	40.0
Hanawa	1,715	3	0	0.2	0 0.0	0 0.0	3 100.0	0 0.0	0	0.0
Samegawa	723	0	0	0.0	0 0.0	0 0.0	0 0.0	0 0.0	0	0.0
Ono	1,990	14	0	0.7	6 42.9	3 21.4	5 35.7	0 0.0	0	0.0
Tamakawa	1,372	4	0	0.3	1 25.0	3 75.0	0 0.0	0 0.0	0	0.0
Furudono	1,084	2	0	0.2	2 100.0	0 0.0	0 0.0	0 0.0	0	0.0
Hinoemata	110	0	0	0.0	0 0.0	0 0.0	0 0.0	0 0.0	0	0.0
Minami-aizu	2,913	4	0	0.1	1 25.0	2 50.0	1 25.0	0 0.0	0	0.0
Kaneyama	203	0	0	0.0	0 0.0	0 0.0	0 0.0	0 0.0	0	0.0
Showa	134	0	0	0.0	0 0.0	0 0.0	0 0.0	0 0.0	0	0.0
Mishima	197	0	0	0.0	0 0.0	0 0.0	0 0.0	0 0.0	0	0.0
Shimogo	997	1	0	0.1	0 0.0	0 0.0	1 100.0	0 0.0	0	0.0
Kitakata	9,235	8	1	0.1	2 25.0	2 25.0	4 50.0	0 0.0	5	62.5
Nishiaizu	1,055	0	0	0.0	0 0.0	0 0.0	0 0.0	0 0.0	0	0.0
Tadami	735	1	0	0.1	0 0.0	1 100.0	0 0.0	0 0.0	0	0.0
Inawashiro	2,757	11	0	0.4	3 27.3	2 18.2	6 54.5	0 0.0	6	54.5
Bandai	628	0	0	0.0	0 0.0	0 0.0	0 0.0	0 0.0	0	0.0
Kitashiobara	581	0	0	0.0	0 0.0	0 0.0	0 0.0	0 0.0	0	0.0
Aizumisato	3,790	3	1	0.1	0 0.0	1 33.3	2 66.7	0 0.0	1	33.3
Aizubange	3,181	7	2	0.2	1 14.3	0 0.0	6 85.7	0 0.0	3	42.9
Yanaizu	612	0	0	0.0	0 0.0	0 0.0	0 0.0	0 0.0	0	0.0
Aizuwakamatsu	23,925	30	7	0.1	6 20.0	4 13.3	14 46.7	6 20.0	13	43.3
Yugawa	696	1	0	0.1	0 0.0	0 0.0	1 100.0	0 0.0	0	0.0
Subtotal	164,357	455	33	0.3	98 21.5	67 14.7	271 59.6	19 4.2	59	13.0
Total	381,172	17,481	75	4.6	5,112 29.2	8,449 48.3	3,577 20.5	343 2.0	117	0.7

Appendix 2

Thyroid Ultrasound Examination (TUE) coverage by prefecture

As of 31 May 2016

Prefecture	Number of test venues	Participants*
Hokkaido	6	**0**
Aomori	1	**0**
Iwate	3	**0**
Miyagi	2	**0**
Akita	1	**0**
Yamagata	3	**1**
Ibaraki	4	**0**
Tochigi	7	**6**
Gunma	2	**1**
Saitama	2	**6**
Chiba	4	**0**
Tokyo	12	**41**
Kanagawa	5	**8**
Niigata	2	**3**
Toyama	1	**0**
Ishikawa	1	**0**

Prefecture	Number of test venues	Participants*
Fukui	1	**0**
Yamanashi	2	**0**
Nagano	2	**2**
Gifu	1	**0**
Shizuoka	2	**0**
Aichi	3	**3**
Mie	1	**0**
Shiga	1	**0**
Kyoto	3	**0**
Osaka	6	**1**
Hyogo	1	**0**
Nara	2	**0**
Wakayama	1	**3**
Tottori	1	**0**
Shimane	1	**0**
Okayama	3	**0**

Prefecture	Number of test venues	Participants*
Hiroshima	1	**0**
Yamaguchi	1	**0**
Tokushima	1	**0**
Kagawa	1	**0**
Ehime	1	**0**
Kochi	1	**0**
Fukuoka	3	**0**
Saga	1	**0**
Nagasaki	2	**0**
Kumamoto	1	**0**
Oita	1	**0**
Miyazaki	1	**0**
Kagoshima	1	**0**
Okinawa	1	**0**
Total	104	**75**

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

FY 2011 Pregnancy and Birth Survey Follow-up Survey Report

Reported on 14 September 2016

1. Outline

1.1 Purpose

Since FY 2011, Fukushima Medical University has conducted the Pregnancy and Birth Survey, which is a cross-sectional survey targeting a different group each year. Many of the respondents to the Pregnancy and Birth Survey in FY 2011 tended to have depressive symptoms and wrote about serious issues in the comment section of the survey. Children born at that time would be around four years old at present, when the number of mothers who have lost confidence in child rearing is increasing and some may be in need of support.

Then, we implemented a follow-up survey covering respondents to the FY 2011 Pregnancy and Birth Survey four years later, assessing their health conditions and providing support as necessary.

1.2 Target Group

The target group covered the FY 2011 Pregnancy and Birth Survey respondents who gave birth between 1 August 2010 and 8 April 2012 (excluding those who miscarried, aborted their pregnancy or lost unborn children). We referred to municipal offices about whether these respondents and their children are alive or not and conducted the follow-up survey on 7,252 respondents who were identified as being alive along with their children.

1.3 Methods

- Survey questionnaires were mailed to the participants.
- Survey questionnaires were sent on 11 September 2015.
- Survey questionnaires were not sent again to those who failed to respond.

1.4 Items

Survey items are as follows:

(1) Do you think of yourself as healthy?

(2) Have you often been feeling down or depressed for the past month?

(3) Have you lost interest in activities or found things unpleasurable for the past month?

(4) Do you sometimes lose confidence in child rearing?

(5) Check boxes for all matters of insecurity regarding the effects of radiation.

□Water □Food □Child's outdoor play □Child's health □Prejudice
□Genetic influences □Others

(6) Has your child caught any disease requiring hospitalization?

(7) Check boxes for all matters of concern regarding your child.

□Mental and physical development □Sickness □Lifestyle □Others

1.5 Data Tabulation Period

From 14 September 2015 through 31 May 2016

2. Survey Results

- Survey results are shown in the tables.
- The number of valid responses may not be equal to the survey total because of missing answers.

2.1 Response Rates

The total number of responses was 2,554 (35.2%) and the number of valid responses was 2,554 (Invalid responses: 0).

2.2 Respondents

The number of responses for the follow-up survey of the FY 2011 survey respondents by area was as follows: Kempoku, 679 (38.7%); Kenchu, 721 (32.7%), Kennan, 168 (34.1%); Soso, 256 (34.9%); Iwaki, 434 (35.9%); Aizu, 271 (34.5%); and Minami-Aizu, 25 (34.7%). The response rate was the highest in Kempoku and the lowest in Kenchu.

2.3 Mental Health of Mothers

The proportion of mothers with depressive symptoms was 25.6%. The proportion in the FY 2011 survey four years ago was 27.1%. Mothers who subjectively viewed their health as bad (who answered “not so healthy” or “not healthy”) accounted for 9.6%. (The FY 2011 Pregnancy and Birth Survey did not cover this item.) The highest proportion for mothers who subjectively viewed their health as bad was seen in Soso (13.3%).

2.4 Family and Child Rearing

The proportion of those who were not confident in child rearing was 15.8%. (The FY 2011 Pregnancy and Birth Survey did not cover this item.) According to the 2010 national survey to assess toddlers’ health status, the proportion of mothers with four-year-old children, who were not confident in child rearing, was 23.0%.

2.5 Insecurity Regarding Effects of Radiation

Mothers who checked at least one box among those for matters of insecurity regarding the effects of radiation accounted for 94.2%. The proportion of those who checked the box for the child’s health was the highest at 79.5%. The highest proportions of those who checked boxes for “water,” “prejudice” and “genetic influences” as matters of insecurity were seen in Soso.

2.6 Insecurity Regarding Child’s Health

The proportion of mothers whose children have caught diseases subject to hospitalization was 24.7%, meaning that one out of every four mothers had children who did so. Major diseases for hospitalization included pneumonia, respiratory syncytial virus infection and bronchitis.

The highest proportion of mothers whose children have been hospitalized was seen in Minami-Aizu at 32.0%, followed by 29.2% in Aizu.

Mothers who checked at least one box among those for matters of concern regarding their children accounted

for 70.8%. The proportion of mothers who checked the box for “sickness” was the highest at 57.6%, followed by 56.1% for those citing “mental and physical development.”

2.7 Free-answer Question

A total of 383 respondents (15.0%) answered the free-answer question, which was lower than 3,722 (42.2%) in FY 2011.

The most frequently discussed issue was “effects of radiation on fetus and child” (discussed by 13.8%), followed by “acceptance of this survey” (discussed by 12.3%).

2.8 Conclusion

Mothers feeling depressed accounted for 25.6%. Mothers who subjectively viewed their health as bad (who answered “not so healthy” or “not healthy”) accounted for 9.6%.

Mothers who checked at least one box among those for matters of insecurity regarding the effects of radiation accounted for 94.2%. The proportion of those who checked the box for the “child’s health” was the highest at 79.5%.

Mothers who answered the free-answer question accounted for 15.0%. Particularly, the proportion of mothers concerned about the effects of radiation on fetus or child was as high as 13.8%.

As noted above, a certain proportion of mothers were feeling depressed (25.6%) and/or harbored insecurity about the effects of radiation (94.2%). Therefore, we conclude that we should conduct a follow-up survey to the FY 2012 survey as well and continue to provide support via telephone to mothers as necessary.

3. Support after the Survey

3.1 Purpose

In order to address residents’ anxiety, midwives and public health nurses provided counseling via telephone or email for those who were screened to be in need of support among the respondents to the follow-up survey for the FY 2011 Pregnancy and Birth Survey.

3.2 Group for Support

Respondents to the follow-up survey for the FY 2011 Pregnancy and Birth Survey

3.3 Criteria for Support

Respondents who fit either of the following two criteria.

(1)Respondents who had two depression symptoms

(2)Respondents who were screened based on their opinions written in a given free-answer space.

Those who appeared to have a severely depressed mood

Those in need of support for child rearing

Those who are concerned about radiation exposure

Those who want detailed information

Those who requested support

3.4 Methods

・Support via telephone and email

4. Results of the Support

Support results are shown in the tables.

Data Collection Period: 14 September 2015 through 31 May 2016

4.1 Number of Supported Mothers

The number of those who required telephone support was 375 out of 2,554 who responded from 14 September 2015 through 31 May 2016. The proportion was 14.7%, which was almost the same as that of FY 2011: 1,401 (15.0%).

Among those who required support, 79.7% were identified based on their depression symptoms, and 20.3% based on their comments written in a free-answer space. Compared with the FY 2011 survey results (87.4% for those supported based on depression-related items and 12.6% for those supported based on free answers), the portion of respondents supported based on free answers increased.

4.2 Content

The most frequently discussed issue by the respondents was the physical and mental health of mothers (34.4%), followed by effects of and concerns about radiation (25.6%) and child rearing (21.6%). The proportion of those who received counselling about effects of and concerns about radiation through the follow-up survey was the highest after the FY 2011 survey among the past annual surveys, although the proportion followed a downtrend -- 29.2% in FY 2011, 23.7% in FY 2012, 17.1% in FY 2013 and 9.5% in FY 2014.

4.3 Reasons for Completing Support

The most frequently cited reason for completing support was that “we listened and dealt with issues of respondents,” covering 197 support receivers (52.5%), followed by 105 persons (28.0%) for the reason that “respondents were given information about counseling services.” The proportion for the absence as the reason for completing support was as high as 131 persons (34.9%).

Note: Response is shown by running number.

The denominator is the total number of respondents who required support.

4.4 Conclusion

Mothers who required telephone support through the follow-up survey accounted for 14.7% of the total respondents. Those receiving counseling on depression captured about 80% of the supported mothers.

Among major matters for counselling was “concerns about radiation,” cited by as many as 25.6% of the support receivers.

The most frequently cited reason for completing support was “listening,” accounting for the highest proportion of 50%, as seen on average in earlier surveys. However, the proportion for the absence increased.

5. Tabulation of FY 2011 Pregnancy and Birth Survey Follow-up Survey Results

5.1 Response rates

Responses received from 14 September 2015 through 31 May 2016

Area	Survey population		Responses (Response rate by area)	
Kempoku	1,755	24.2%	679	38.7%
Kenchu	2,205	30.4%	721	32.7%
Kennan	492	6.8%	168	34.1%
Soso	734	10.1%	256	34.9%
Iwaki	1,208	16.7%	434	35.9%
Aizu	786	10.8%	271	34.5%
Minami-Aizu	72	1.0%	25	34.7%
Total	7,252	100.0%	2,554	35.2%

5.2 Results by Items

The total number is 2,554 (Invalid responses: 0). Each item includes nonrespondents and invalid responses. Percentages have been rounded and may not total to 100%.

Q1. Do you think of yourself as healthy?

Area	Very healthy		Somewhat healthy		Not so healthy		Not healthy		No response		Total	
Kempoku	98	14.4%	522	76.9%	51	7.5%	7	1.0%	1	0.1%	679	100.0%
Kenchu	111	15.4%	537	74.5%	62	8.6%	8	1.1%	3	0.4%	721	100.0%
Kennan	28	16.7%	120	71.4%	14	8.3%	5	3.0%	1	0.6%	168	100.0%
Soso	23	9.0%	198	77.3%	31	12.1%	3	1.2%	1	0.4%	256	100.0%
Iwaki	80	18.4%	314	72.4%	37	8.5%	3	0.7%	0	0.0%	434	100.0%
Aizu	48	17.7%	202	74.5%	18	6.6%	3	1.1%	0	0.0%	271	100.0%
Minami-Aizu	4	16.0%	19	76.0%	2	8.0%	0	0.0%	0	0.0%	25	100.0%
Total	392	15.3%	1,912	74.9%	215	8.4%	29	1.1%	6	0.2%	2,554	100.0%

Q2. Have you often been feeling down or depressed for the past month?

Area	Yes		No		No response		Total	
Kempoku	164	24.2%	511	75.3%	4	0.6%	679	100.0%
Kenchu	172	23.9%	544	75.5%	5	0.7%	721	100.0%
Kennan	41	24.4%	125	74.4%	2	1.2%	168	100.0%
Soso	68	26.6%	184	71.9%	4	1.6%	256	100.0%
Iwaki	101	23.3%	329	75.8%	4	0.9%	434	100.0%
Aizu	56	20.7%	213	78.6%	2	0.7%	271	100.0%
Minami-Aizu	6	24.0%	19	76.0%	0	0.0%	25	100.0%
Total	608	23.8%	1,925	75.4%	21	0.8%	2,554	100.0%

Q3. Have you lost interest in activities or found things unpleasurable for the past month?

Area	Yes		No		No response		Total	
Kempoku	86	12.7%	589	86.7%	4	0.6%	679	100.0%
Kenchu	89	12.3%	627	87.0%	5	0.7%	721	100.0%
Kennan	26	15.5%	140	83.3%	2	1.2%	168	100.0%
Soso	44	17.2%	208	81.3%	4	1.6%	256	100.0%
Iwaki	56	12.9%	374	86.2%	4	0.9%	434	100.0%
Aizu	38	14.0%	231	85.2%	2	0.7%	271	100.0%
Minami-Aizu	7	28.0%	18	72.0%	0	0.0%	25	100.0%
Total	346	13.5%	2,187	85.6%	21	0.8%	2,554	100.0%

Depressive tendencies (Answers to Q2 and Q3)

Area	Yes to both questions		Yes to either of the questions		No to both questions		No response		Total	
Kempoku	78	11.5%	94	13.8%	503	74.1%	4	0.6%	679	100.0%
Kenchu	81	11.2%	99	13.7%	536	74.3%	5	0.7%	721	100.0%
Kennan	22	13.1%	23	13.7%	121	72.0%	2	1.2%	168	100.0%
Soso	38	14.8%	36	14.1%	178	69.5%	4	1.6%	256	100.0%
Iwaki	46	10.6%	65	15.0%	319	73.5%	4	0.9%	434	100.0%
Aizu	31	11.4%	32	11.8%	206	76.0%	2	0.7%	271	100.0%
Minami-Aizu	5	20.0%	3	12.0%	17	68.0%	0	0.0%	25	100.0%
Total	301	11.8%	352	13.8%	1,880	73.6%	21	0.8%	2,554	100.0%

Proportion of those with depressive tendencies: 25.6% [653(checked both boxes of Yes + checked either of Yes / total of 2,554)]

Q4. Do you sometimes lose confidence in child rearing?

Area	Yes		No		Not sure		No response		Total	
Kempoku	107	15.8%	253	37.3%	317	46.7%	2	0.3%	679	100.0%
Kenchu	103	14.3%	300	41.6%	318	44.1%	0	0.0%	721	100.0%
Kennan	31	18.5%	75	44.6%	62	36.9%	0	0.0%	168	100.0%
Soso	43	16.8%	86	33.6%	126	49.2%	1	0.4%	256	100.0%
Iwaki	80	18.4%	193	44.5%	160	36.9%	1	0.2%	434	100.0%
Aizu	37	13.7%	112	41.3%	121	44.6%	1	0.4%	271	100.0%
Minami-Aizu	3	12.0%	12	48.0%	10	40.0%	0	0.0%	25	100.0%
Total	404	15.8%	1,031	40.4%	1,114	43.6%	5	0.2%	2,554	100.0%

Q5. Check boxes for all matters of insecurity regarding the effects of radiation.

Area	Child's health		Food		Prejudice		Water		Child's outdoor play		Genetic influences		Other		Valid response
Kempoku	514	81.6%	277	44.0%	280	44.4%	223	35.4%	252	40.0%	212	33.7%	16	2.5%	630
Kenchu	558	80.6%	346	50.0%	326	47.1%	301	43.5%	294	42.5%	239	34.5%	21	3.0%	692
Kennan	122	78.7%	70	45.2%	67	43.2%	60	38.7%	55	35.5%	56	36.1%	3	1.9%	155
Soso	187	76.6%	136	55.7%	128	52.5%	131	53.7%	94	38.5%	93	38.1%	5	2.0%	244
Iwaki	331	80.3%	240	58.3%	156	37.9%	201	48.8%	151	36.7%	155	37.6%	6	1.5%	412
Aizu	182	72.8%	133	53.2%	93	37.2%	115	46.0%	98	39.2%	79	31.6%	7	2.8%	250
Minami-Aizu	19	82.6%	14	60.9%	9	39.1%	10	43.5%	6	26.1%	8	34.8%	0	0.0%	23
Total	1,913	79.5%	1,216	50.5%	1,059	44.0%	1,041	43.3%	950	39.5%	842	35.0%	58	2.4%	2,406

The denominator is the sum of valid responses (from respondents who checked boxes). Proportions do not add up to 100.0% because of multiple answers.

The following two questions are about children born between 1 August 2010 and 8 April 2012.

Q6. Has your child caught any disease requiring hospitalization?

Area	Yes		No		No response		Total	
Kempoku	184	27.1%	485	71.4%	10	1.5%	679	100.0%
Kenchu	190	26.4%	524	72.7%	7	1.0%	721	100.0%
Kennan	43	25.6%	124	73.8%	1	0.6%	168	100.0%
Soso	63	24.6%	185	72.3%	8	3.1%	256	100.0%
Iwaki	65	15.0%	363	83.6%	6	1.4%	434	100.0%
Aizu	79	29.2%	192	70.8%	0	0.0%	271	100.0%
Minami-Aizu	8	32.0%	17	68.0%	0	0.0%	25	100.0%
Total	632	24.7%	1,890	74.0%	32	1.3%	2,554	100.0%

Q6 Breakdown of diseases cited by respondents who answered yes to Q6 (multiple answers were allowed)

Pneumonia	162	Ventricular septal defect	3	Transposition of the great arteries	1	Mesenteric lymphangioma	1
Respiratory syncytial virus infection	101	Dehydration	3	Orbital cellulitis	1	Hypoglycemia	1
Bronchitis	60	Intussusception	3	Acute subdural hematoma	1	Infectious mononucleosis	1
Convulsion	47	Patent ductus arteriosus	3	Acute upper respiratory tract infection	1	Roseola infantum	1
Rotavirus infection	44	Pertussis	3	Acute pyelonephritis	1	Club foot	1
Gastroenteritis	41	EB virus infection	2	Acute respiratory distress syndrome	1	Hearing impairment	1
Bronchial asthma	41	Nephrotic syndrome	2	Hip dislocation	1	Rachischisis	1
Kawasaki disease	32	Human metapneumovirus infection	2	Cleft lip	1	Encephalitis	1
Inguinal hernia	13	Staphylococcal scalded skin syndrome	2	Neutropenia	1	Encephalopathy	1
Norovirus gastroenteritis	12	Herpetic gingivostomatitis	2	Hyperammonemia	1	Pulmonary artery stenosis	1
Adenovirus infection	11	Acute lymphoblastic leukemia	2	Imperforate anus	1	Atypical hemolytic uremic syndrome	1
Bronchopneumonia	11	Cleft palate	2	Aplastic anemia	1	Arrhythmia	1
Cold	9	Hand, foot and mouth disease	2	Aural fistula	1	Sinusitis	1
Otitis media	9	Atrial septal defect	2	Cyclic vomiting	1	Abdominal fissure	1
Influenza	8	Apneic attack	2	Pulmonary atresia with intact ventricular septum	1	Phakomatosis	1
Sore throat	8	Tonsillitis	2	Cerebellar ataxia	1	Cellulitis	1
Croupous bronchitis	7	Food allergies	2	Supraventricular premature contraction	1	Pyriform sinus fistula	1
Mycoplasma infection	7	Anaphylactic shock	1	Hydronephrosis	1	Arm fracture	1
Pyelonephritis	6	Ileus	1	Meningitis	1	Tonsillar hypertrophy	1
Epilepsy	5	Currarino syndrome	1	Pure red cell aplasia	1	Vesicoureteral reflux	1
Low birth weight infant	5	Cytomegalovirus infection	1	Congenital hypothyroidism	1	Umbilical hernia	1
Cleft lip and plate	4	Cyanosis	1	Small intestinal atresia	1	Exomphalos	1
Cryptorchidism	4	Tetralogy of Fallot	1	Esophageal atresia	1		
Urinary tract infection	4	Herpesvirus infection	1	Congenital mitral regurgitation	1		
Fever of unknown origin	4	Retractile testis	1	Congenital intestinal atresia	1		
Adenoid vegetation	3	Perimandibular inflammation	1	Urea cycle disorder	1		
Hives	3	Diarrhea	1	Premature infant	1		
Mumps	3	IDCM (idiopathic dilated cardiomyopathy)	1	Polydactyly	1		

Q7. Check boxes for all matters of concern regarding your child.

Area	Sickness		Mental and physical development		Lifestyle		Others		Valid response
Kempoku	269	55.0%	293	59.9%	181	37.0%	21	4.3%	489
Kenchu	308	58.2%	278	52.6%	189	35.7%	40	7.6%	529
Kennan	69	60.5%	67	58.8%	45	39.5%	6	5.3%	114
Soso	91	53.5%	104	61.2%	66	38.8%	9	5.3%	170
Iwaki	198	63.5%	166	53.2%	137	43.9%	10	3.2%	312
Aizu	95	54.6%	97	55.7%	69	39.7%	9	5.2%	174
Minami-Aizu	10	52.6%	8	42.1%	7	36.8%	1	5.3%	19
Total	1,040	57.6%	1,013	56.1%	694	38.4%	96	5.3%	1,807

The denominator is the sum of valid responses (from respondents who checked boxes). Proportions do not add up to 100.0% because of multiple answers.

5.3 Free-answer question

The participants are 383 of 2,554 respondents who answered the free-answer question.

Content

Effects of radiation on fetus and child	53	13.8%
Acceptance of this survey	47	12.3%
Opinion or complaint about the survey	44	11.5%
Request for information on radiation and research results	37	9.7%
Request for Thyroid Ultrasound Examination	23	6.0%
Mental illness	19	5.0%
Anxiety about radiation exposure of children when outside	18	4.7%
Anxiety and dissatisfaction about reliability or lack of information	17	4.4%
Effects of radiation on food or baby food	14	3.7%
Request for the overall examination	13	3.4%
Consultation of child rearing **	13	3.4%
Request for decontamination and provision of safe playgrounds	12	3.1%
Request for adequate child support services	10	2.6%
Anxiety and dissatisfaction about evacuation and family living apart	9	2.3%
Relationships **	8	2.1%
Issues related to the current pregnancy outcome	7	1.8%
Physical problems **	6	1.6%
Request for financial support	6	1.6%
Regarding financial anxiety and burden	5	1.3%
Request for Fukushima Health Management Survey	5	1.3%
Request for adequate mental health care services	5	1.3%
Anxiety over the effects of radiation on water	4	1.0%
Anxiety and dissatisfaction about inadequate medical services	4	1.0%
Request to measure internal radiation exposure (by whole body counter, etc.)	3	0.8%
Request for medical check-up and examinations	2	0.5%
Anxiety about the effects of radiation on the next pregnancy	1	0.3%
Regarding external radiation exposure (provision of glass badges and dosimeters)	1	0.3%
Request for adequate medical service and physical care	1	0.3%
Other	83	21.7%

The denominator is the sum of 383 of respondents.

Multiple answers allowed.

** Issue not mentioned in FY 2011 survey

5.4 Support

Follow-up Survey for FY 2011 Survey: 375 persons or 14.7% of the 2,544 respondents required support (against 15.0% in FY 2011, 15.4% in FY2012, 15.2% in FY 2013, 11.6% in FY 2014).

Data Collection Period: From 14 September 2015 through 31 May 2016

Number of respondents who required support

Area	Survey population	Response		Number of respondents who required support	
Kempoku	1,755	679	38.7%	94	13.8%
Kenchu	2,205	721	32.7%	106	14.7%
Kennan	492	168	34.1%	27	16.1%
Soso	734	256	34.9%	41	16.0%
Iwaki	1,208	434	35.9%	63	14.5%
Aizu	786	271	34.5%	39	14.4%
Minami-Aizu	72	25	34.7%	5	20.0%
Total	7,252	2,554	35.2%	375	14.7%

The denominator of response rate is the number of participants.

The denominator of number of respondents who required support is the number of responses.

Respondents requiring support by area

Area	Support required based on the categories of depression		Support required based on the free-answer question		Total	
Kempoku	77	81.9%	17	18.1%	94	100.0%
Kenchu	80	75.5%	26	24.5%	106	100.0%
Kennan	22	81.5%	5	18.5%	27	100.0%
Soso	38	92.7%	3	7.3%	41	100.0%
Iwaki	46	73.0%	17	27.0%	63	100.0%
Aizu	31	79.5%	8	20.5%	39	100.0%
Minami-Aizu	5	100.0%	0	0.0%	5	100.0%
Total	299	79.7%	76	20.3%	375	100.0%

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

Content of counseling by area

Area	Health of mothers		Effects of radiation		Childrearing		Health of children		Family life		Evacuation		Other		Number of respondents who required support
Kempoku	29	30.9%	20	21.3%	15	16.0%	8	8.5%	10	10.6%	2	2.1%	53	56.4%	94
Kenchu	43	40.6%	35	33.0%	24	22.6%	26	24.5%	15	14.2%	5	4.7%	44	41.5%	106
Kennan	7	25.9%	3	11.1%	5	18.5%	6	22.2%	3	11.1%	0	0.0%	17	63.0%	27
Soso	16	39.0%	10	24.4%	12	29.3%	6	14.6%	5	12.2%	3	7.3%	20	48.8%	41
Iwaki	20	31.7%	19	30.2%	15	23.8%	15	23.8%	15	23.8%	0	0.0%	31	49.2%	63
Aizu	10	25.6%	8	20.5%	6	15.4%	6	15.4%	4	10.3%	0	0.0%	26	66.7%	39
Minami-Aizu	4	80.0%	1	20.0%	4	80.0%	1	20.0%	0	0.0%	0	0.0%	1	20.0%	5
Total	129	34.4%	96	25.6%	81	21.6%	68	18.1%	52	13.9%	10	2.7%	192	51.2%	375

The denominator is the sum of respondents who required support.

Proportions do not add up to 100% because of multiple answers.

Reason for completing support

	A		B		C		D		E		F		G	
Kempoku	42	44.7%	21	22.3%	6	6.4%	4	4.3%	4	4.3%	0	0.0%	0	0.0%
Kenchu	66	62.3%	35	33.0%	13	12.3%	9	8.5%	8	7.5%	1	0.9%	0	0.0%
Kennan	11	40.7%	9	33.3%	1	3.7%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Soso	18	43.9%	13	31.7%	2	4.9%	1	2.4%	5	12.2%	0	0.0%	0	0.0%
Iwaki	39	61.9%	16	25.4%	5	7.9%	7	11.1%	2	3.2%	0	0.0%	0	0.0%
Aizu	17	43.6%	8	20.5%	2	5.1%	1	2.6%	3	7.7%	0	0.0%	0	0.0%
Minami-Aizu	4	80.0%	3	60.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Total	197	52.5%	105	28.0%	29	7.7%	22	5.9%	22	5.9%	1	0.3%	0	0.0%

	H		I		Absent		Phone number not shown		Denied Support		Other		Number of respondents who required support
Kempoku	0	0.0%	0	0.0%	40	42.6%	6	6.4%	1	1.1%	1	1.1%	94
Kenchu	0	0.0%	0	0.0%	23	21.7%	7	6.6%	1	0.9%	1	0.9%	106
Kennan	0	0.0%	0	0.0%	14	51.9%	1	3.7%	0	0.0%	0	0.0%	27
Soso	0	0.0%	0	0.0%	12	29.3%	6	14.6%	2	4.9%	0	0.0%	41
Iwaki	0	0.0%	0	0.0%	21	33.3%	2	3.2%	0	0.0%	0	0.0%	63
Aizu	0	0.0%	0	0.0%	20	51.3%	0	0.0%	0	0.0%	0	0.0%	39
Minami-Aizu	0	0.0%	0	0.0%	1	20.0%	0	0.0%	0	0.0%	0	0.0%	5
Total	0	0.0%	0	0.0%	131	34.9%	22	5.9%	4	1.1%	2	0.5%	375

The denominator is the sum of respondents who required support.

Breakdown is shown by running number.

A: We listened and dealt with issues of respondents.

B: Respondents were given information about counseling services.

C: Respondents who were confirmed to have visited clinics for consultation.

D: We answered respondents' questions.

E: Respondents were recommended to receive medical treatment.

F: Respondents were connected to a radiation consultation office.

G: Respondents were connected to municipal governments.

H: Respondents were referred to clinical psychologists.

I: Specialists answered the respondents' questions.