

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.

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%		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%			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%	5.8%		472	0.4%	423	0.4%	0	-	1	0.0%	0	-	595	0.8%	4	0.0%		
4-5	551	505	0.1%			40	0.0%	5	0.0%	0	-	0	-	0	-	459	0.6%	1	0.0%		
5-6	441	389	0.1%	0.2%		19	0.0%	3	0.0%	0	-	0	-	0	-	366	0.5%	1	0.0%		
6-7	268	230	0.0%			10	0.0%	1	0.0%	0	-	1	0.0%	0	-	218	0.3%	0	-		
7-8	155	116	0.0%	0.1%		1	0.0%	0	-	0	-	0	-	0	-	115	0.2%	0	-		
8-9	118	78	0.0%			1	0.0%	0	-	0	-	0	-	0	-	77	0.1%	0	-		
9-10	72	41	0.0%	0.0%		0	-	0	-	0	-	0	-	0	-	41	0.1%	0	-		
10-11	69	36	0.0%			0	-	0	-	0	-	0	-	0	-	36	0.0%	0	-		
11-12	52	30	0.0%	0.0%		1	0.0%	0	-	0	-	0	-	0	-	29	0.0%	0	-		
12-13	37	13	0.0%			0	-	0	-	0	-	0	-	0	-	13	0.0%	0	-		
13-14	36	12	0.0%	0.0%		0	-	0	-	0	-	0	-	0	-	12	0.0%	0	-		
14-15	27	6	0.0%			0	-	0	-	0	-	0	-	0	-	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.

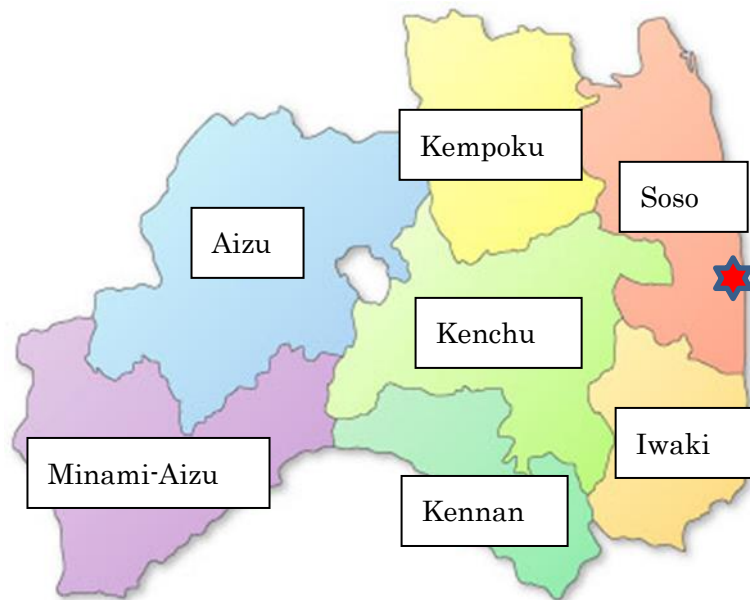
3. Evaluation of the results

The latest effective radiation dose estimates showed similar trends to those observed so far.

Since previous epidemiological studies¹ 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.



Response rates to the Basic Survey by district

Initial and full-scale surveys

As of 30 June 2016

Area	District	Survey population	Responses	Response rate	Completed dose estimates	Proportion	Returned results	Proportion
		a	b	c=b/a	d	e=d/b	f	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%
	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%
	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%

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

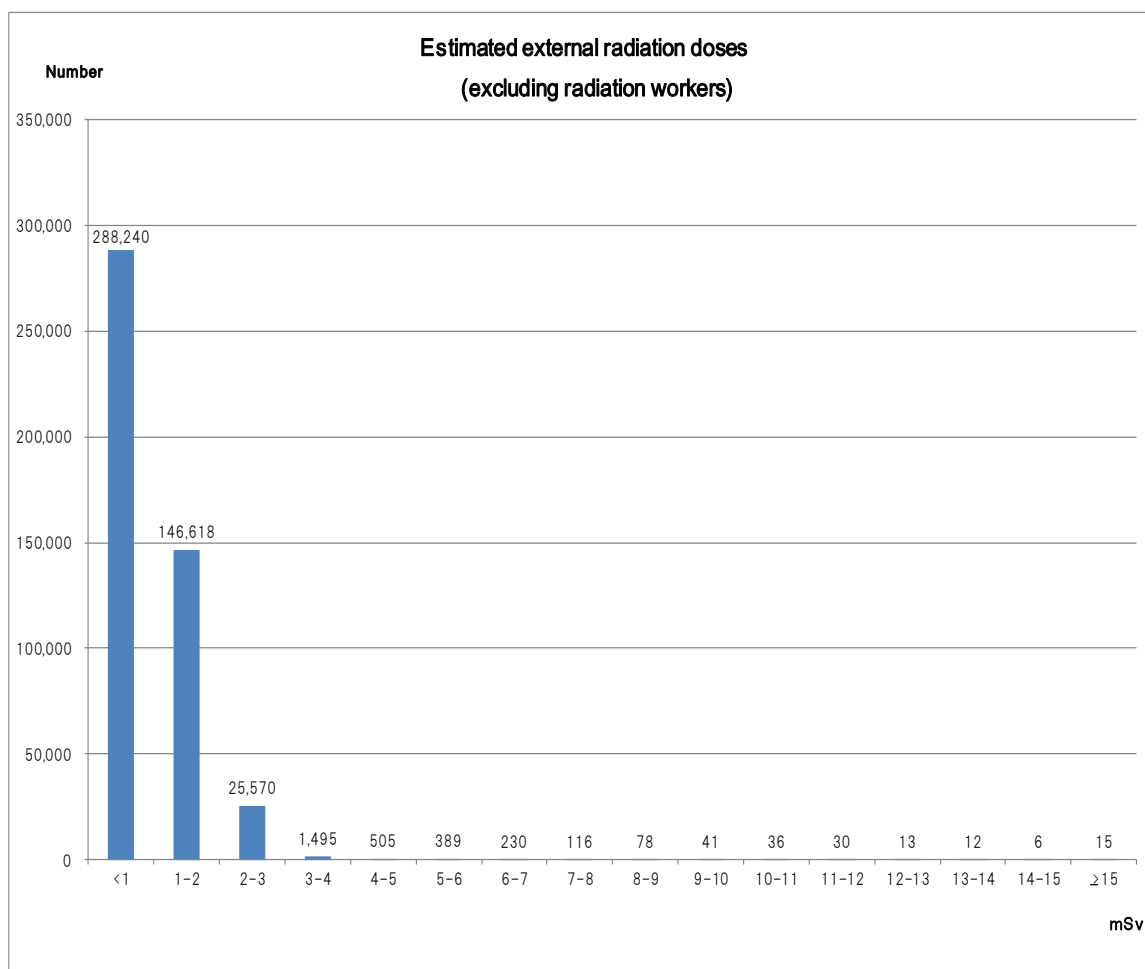
Initial and full-scale surveys

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	0.2
5-6	441	389	19	3	0	0	0	366	1	0.1		
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%.



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%.

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
	Tomiooka	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 ≤ 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.

1.5-2 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

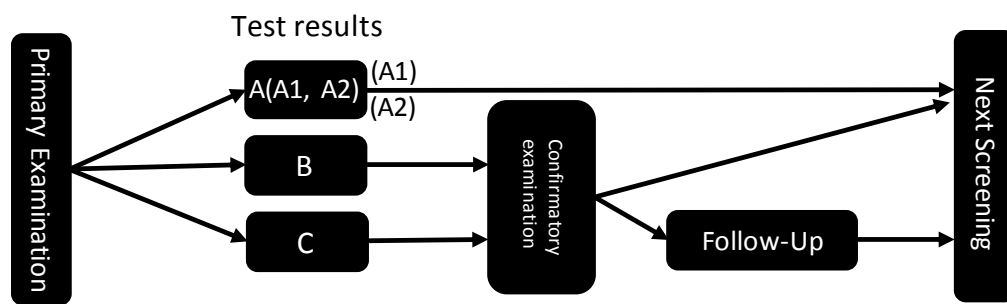


Fig.1 Flow chart

1.6 Target Municipalities

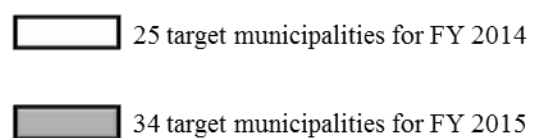


Fig.2 Target Municipalities

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		Proportion (%)	Test results			
		Proportion (%)	Screened outside Fukushima		Class (%)			
					A		Requiring confirmatory test	
					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 a	Number and proportion of children with nodules/cysts			
		Nodules		Cysts	
		≥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)			
			2-7	8-12	13-17	18-21
FY 2014 target municipalities	Age group (years)					
	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 d d/a (%)	C e e/a (%)
				A1 b b/a (%)	A2 c c/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 a	Participants Proportion (%) b (b/a)	Confirmatory test coverage (%) c (c/b)	Confirmed test results			
				Next screening advised		Follow-up advised	
				A1 d (d/c)	A2 e (e/c)	f (f/c)	Cytology 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

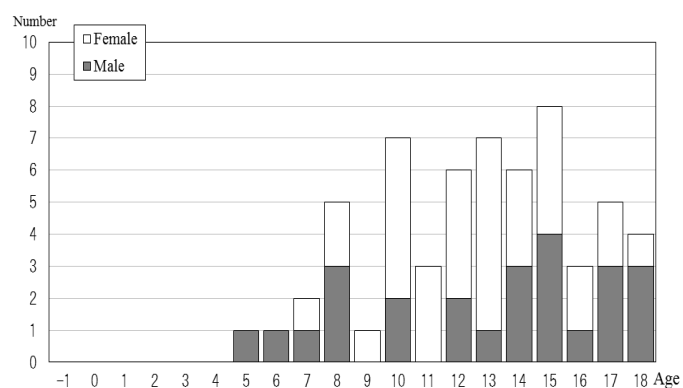
Suspicious or malignant	11 *
Male to female ratio	6: 5
Mean age (SD, min-max)	15.2 (4.1, 9-21) 10.5 (3.8, 5-16) at the time of the disaster
Mean tumor size	15.6 mm (9.6 mm, 5.7-35.6 mm)

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

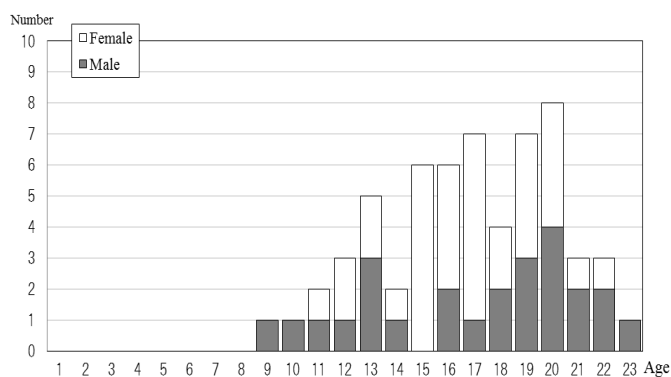


Fig. 4 Age as the date of confirmatory examination

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.

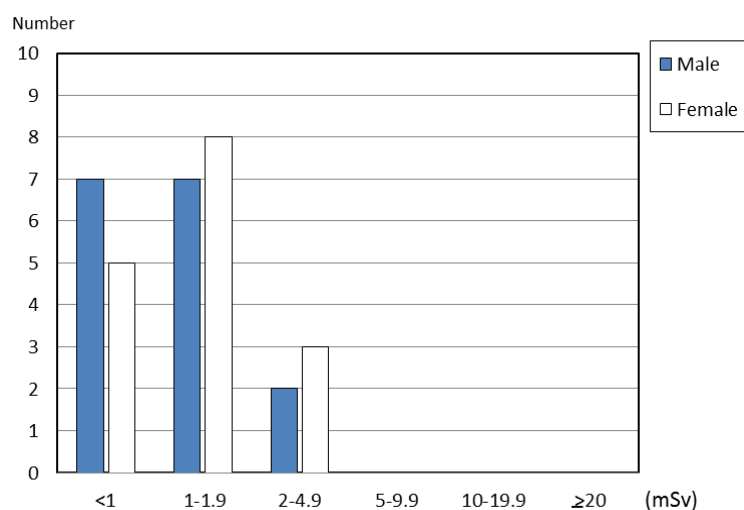


Fig. 5 Effective dose of the respondents

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	3)	b/a					c	c/b
Screening coverage by municipality in FY 2014										
Kawamata	2,460	1,763	57	71.7	428	574	596	165	73	4.1
					24.3	32.6	33.8	9.4		
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 to 100%. 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 a	Participants		Proportion (%) b/a	Number and proportion of participants by age group				Participants living outside Fukushima c	Proportion (%) c/b
		b	Screened outside Fukushima 3)		2-7	8-12	13-17	≥18		
Screening coverage by municipality in FY 2015										
Iwaki	64,309	45,228	2,226	70.3	8,299 18.3	14,274 31.6	15,528 34.3	7,127 15.8	2,322	5.1
Sukagawa	15,879	11,444	305	72.1	2,651 23.2	3,676 32.1	3,737 32.7	1,380 12.1	332	2.9
Soma	7,087	4,747	289	67.0	1,121 23.6	1,540 32.4	1,597 33.6	489 10.3	369	7.8
Kagamiishi	2,705	1,978	35	73.1	526 26.6	625 31.6	624 31.5	203 10.3	50	2.5
Shinchi	1,476	1,036	43	70.2	205 19.8	347 33.5	373 36.0	111 10.7	47	4.5
Nakajima	1,115	754	8	67.6	135 17.9	251 33.3	290 38.5	78 10.3	9	1.2
Yabuki	3,422	2,410	66	70.4	629 26.1	757 31.4	800 33.2	224 9.3	59	2.4
Ishikawa	2,956	2,027	42	68.6	482 23.8	592 29.2	718 35.4	235 11.6	49	2.4
Yamatsuri	1,056	740	26	70.1	195 26.4	225 30.4	232 31.4	88 11.9	14	1.9
Asakawa	1,389	1,029	42	74.1	209 20.3	317 30.8	362 35.2	141 13.7	38	3.7
Hirata	1,272	855	17	67.2	202 23.6	274 32.0	297 34.7	82 9.6	17	2.0
Tanagura	3,089	2,160	63	69.9	519 24.0	681 31.5	723 33.5	237 11.0	62	2.9
Hanawa	1,715	1,166	30	68.0	246 21.1	362 31.0	409 35.1	149 12.8	26	2.2
Samegawa	723	493	17	68.2	128 26.0	157 31.8	153 31.0	55 11.2	13	2.6
Ono	1,990	1,262	29	63.4	238 18.9	420 33.3	440 34.9	164 13.0	32	2.5
Tamakawa	1,372	964	15	70.3	208 21.6	339 35.2	319 33.1	98 10.2	12	1.2
Furudono	1,084	793	31	73.2	194 24.5	224 28.2	255 32.2	120 15.1	23	2.9
Hinoemata	110	35	4	31.8	0 0.0	0 0.0	35 100.0	0 0.0	3	4.5
Minami-aizu	2,913	1,762	48	60.5	365 20.7	578 32.8	640 36.3	179 10.2	42	2.4
Kaneyama	203	121	5	59.6	16 13.2	43 35.5	49 40.5	13 10.7	4	3.3
Showa	134	93	3	69.4	24 25.8	28 30.1	32 34.4	9 9.7	3	3.2
Mishima	197	121	0	61.4	15 12.4	45 37.2	50 41.3	11 9.1	1	0.8
Shimogo	1,011	614	15	60.7	101 16.4	204 33.2	240 39.1	69 11.2	12	2.0
Kitakata	9,236	5,725	128	62.0	1,016 17.7	1,939 33.9	2,176 38.0	594 10.4	120	2.1
Nishiaizu	1,055	654	10	62.0	136 20.8	175 26.8	271 41.4	72 11.0	10	1.5
Tadami	735	458	6	62.3	98 21.4	157 34.3	158 34.5	45 9.8	6	1.3
Inawashiro	2,757	1,728	49	62.7	349 20.2	570 33.0	602 34.8	207 12.0	55	3.2
Bandai	628	401	10	63.9	77 19.2	151 37.7	128 31.9	45 11.2	8	2.0
Kitashiobara	581	377	11	64.9	99 26.3	126 33.4	119 31.6	33 8.8	11	2.9
Aizumisato	3,790	2,537	56	66.9	522 20.6	801 31.6	903 35.6	311 12.3	53	2.1
Aizubange	3,183	2,063	39	64.8	388 18.8	669 32.4	760 36.8	246 11.9	36	1.7
Yanaizu	612	386	4	63.1	81 21.0	132 34.2	136 35.2	37 9.6	3	0.8
Aizuwakamatsu	23,926	14,566	483	60.9	2,533 17.4	4,951 34.0	5,430 37.3	1,652 11.3	513	3.5
Yugawa	696	516	16	74.1	109 21.1	156 30.2	183 35.5	68 13.2	15	2.9
Subtotal	164,406	111,274	4,171	67.7	22,124 19.9	35,806 32.2	38,769 34.8	14,575 13.1	4,369	3.9
Total	381,281	270,378	15,552	70.9	61,836 22.9	85,384 31.6	89,543 33.1	33,615 12.4	17,132	6.3

Appendix 2

Thyroid Ultrasound Examination (TUE) coverage by prefecture

As of 31 May 2016

Prefecture	Number of test venues	Participants*	Prefecture	Number of test venues	Participants*	Prefecture	Number of test venues	Participants*
Hokkaido	6	414	Fukui	1	20	Hiroshima	1	42
Aomori	1	178	Yamanashi	2	147	Yamaguchi	1	20
Iwate	3	360	Nagano	2	153	Tokushima	1	11
Miyagi	2	2,931	Gifu	1	37	Kagawa	1	22
Akita	1	281	Shizuoka	2	134	Ehime	1	17
Yamagata	3	807	Aichi	3	242	Kochi	1	14
Ibaraki	4	892	Mie	1	37	Fukuoka	3	87
Tochigi	7	906	Shiga	1	27	Saga	1	15
Gunma	2	263	Kyoto	3	122	Nagasaki	2	36
Saitama	2	780	Osaka	6	270	Kumamoto	1	29
Chiba	4	829	Hyogo	1	142	Oita	1	35
Tokyo	12	2,637	Nara	2	31	Miyazaki	1	36
Kanagawa	5	1,361	Wakayama	1	8	Kagoshima	1	26
Niigata	2	906	Tottori	1	10	Okinawa	1	81
Toyama	1	25	Shimane	1	6			
Ishikawa	1	60	Okayama	3	65			
						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 Proportion (%) b/a (%)	Number by test results				Nodules		Cysts	
			Proportion (%)				Proportion (%)		Proportion (%)	
			A		B	C	Proportion (%)		Proportion (%)	
			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
Nemie	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%.

	Participants a	Confirmed results b Proportion (%) b/a (%)	Number by test results				Nodules		Cysts	
			Proportion (%)				Proportion (%)		Proportion (%)	
			A		B	C	Proportion (%)		Proportion (%)	
			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	59.9
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

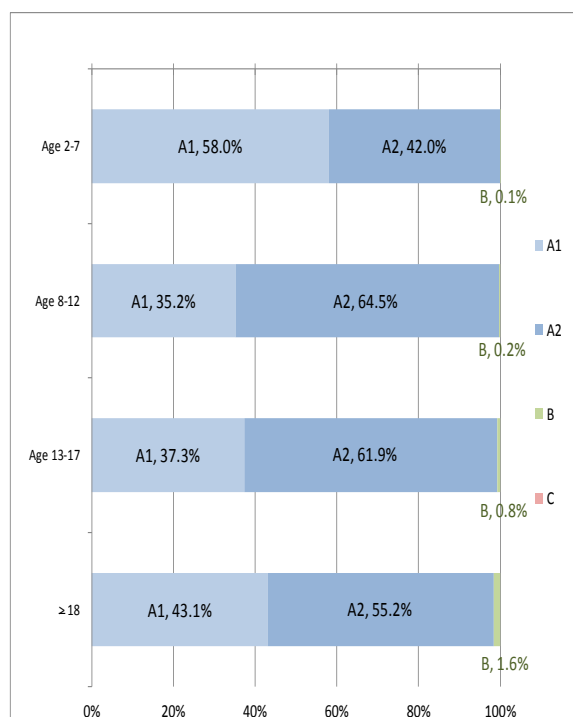
Appendix 4

1. Thyroid Ultrasound Examination results by age and sex

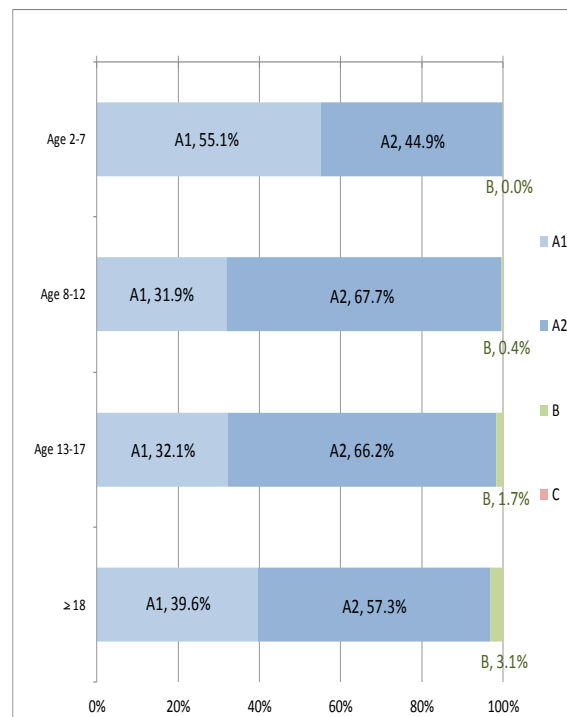
As of 30 June 2016

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)



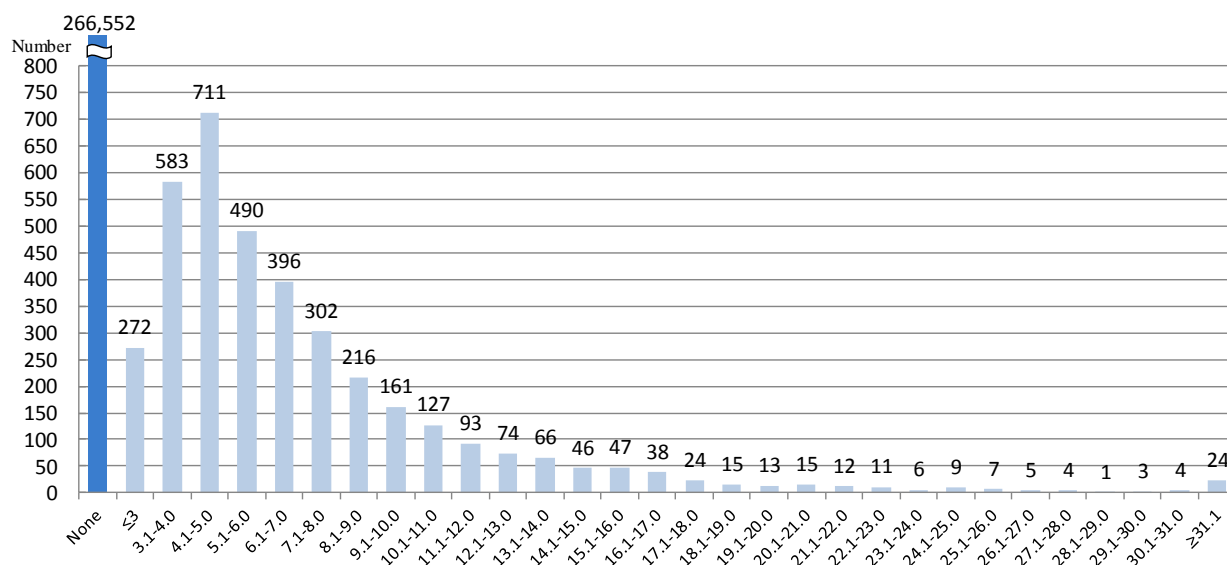
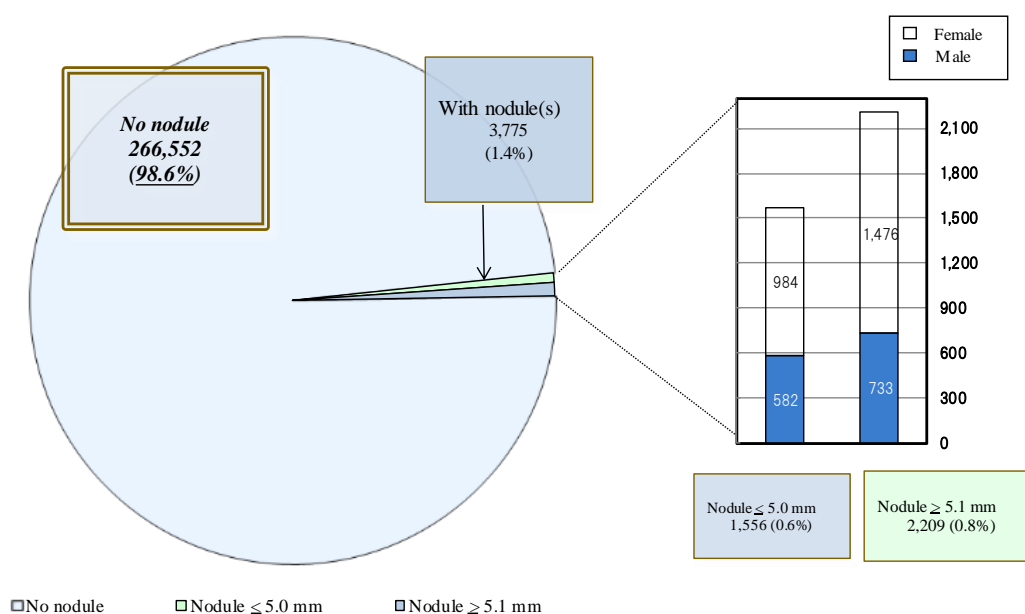
Percentages have been rounded and may not total to 100%.

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

2. Nodule size

As of 30 June 2016

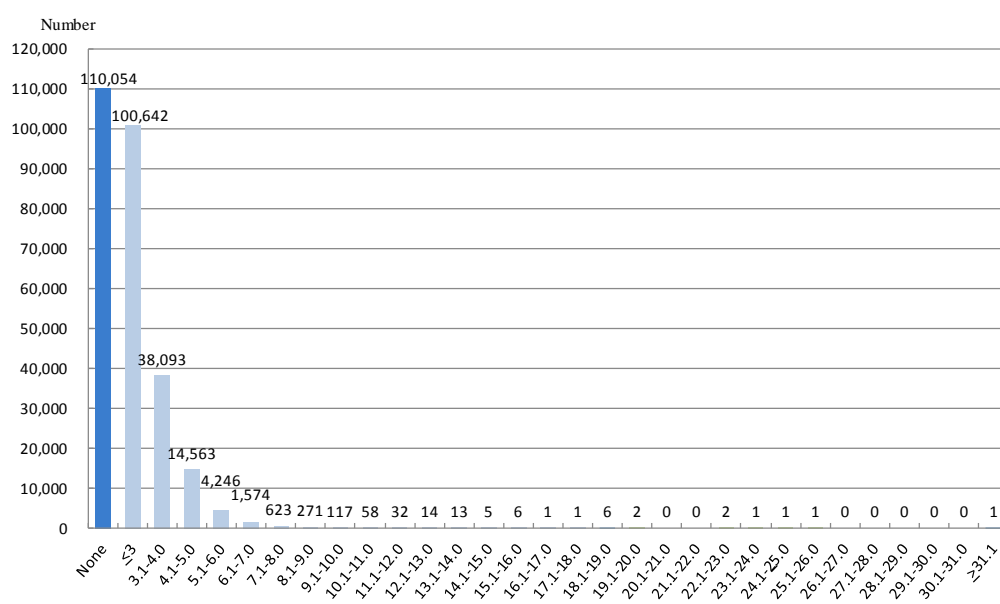
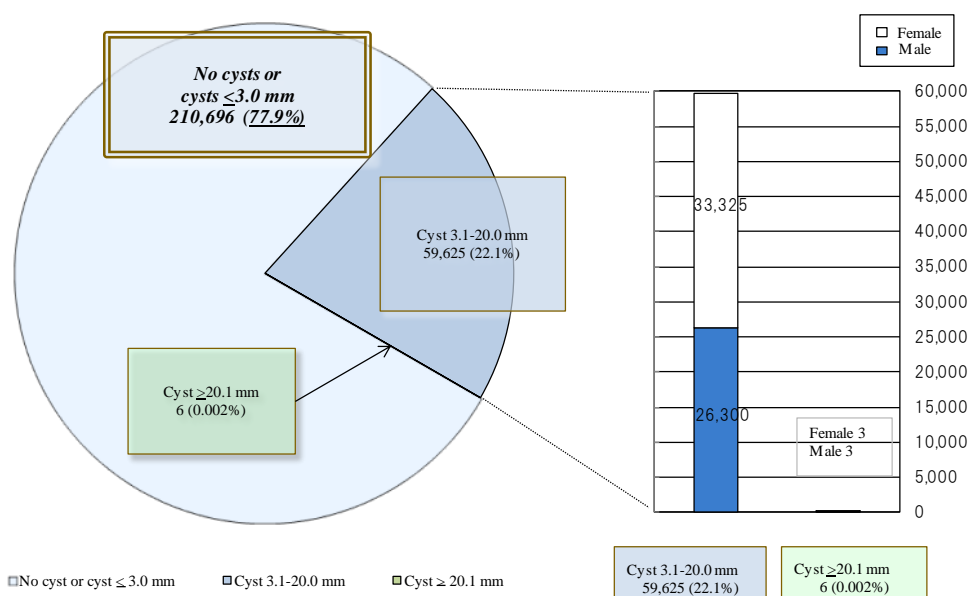
Nodule size	Total	Gender		Class	Proportion
		Male	Female		
None	266,552	134,992	131,560	A 1	98.6%
≤ 3.0 mm	272	116	156	A 2	0.6%
3.1-5.0 mm	1,294	466	828		
5.1-10.0 mm	1,565	512	1,053	B	0.8%
10.1-15.0 mm	406	144	262		
15.1-20.0 mm	137	55	82		
20.1-25.0 mm	53	8	45		
≥ 25.1 mm	48	14	34		
Total	270,327	136,307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



3. Cyst size

As of 30 June 2016

Cyst size	Total	Gender		Class	Proportion
		Male	Female		
None	110,054	57,916	52,138	A 1	77.9%
≤ 3.0 mm	100,642	52,088	48,554	A 2	
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	22.1%
≥ 25.1 mm	2	1	1		
Total	270,327	136,307	134,020		



Appendix 5

Confirmatory test results by municipality

District	Number of those screened a	Participants who required confirmatory test b Proportion (%)	Number of those who underwent confirmatory test				
			Total c Proportion (%)	Ages 2-7 d Proportion (%)	Ages 8-12 e Proportion (%)	Ages 13-17 f Proportion (%)	≥ 18 g Proportion (%)

As of 30 June 2016

Total h Proportion (%)	Number of confirmed results			
	Next screening advised		Follow-up advised	
	A1 i Proportion (%)	A2 j Proportion (%)	k Proportion (%)	Aspiration biopsy cytology l Proportion (%)

Screening coverage by municipality in FY 2014

Kawamata	1,763	23 1.3	19 82.6	0 0.0	3 15.8	12 63.2	4 21.1	19 100.0	3 15.8	7 36.8	9 47.4	1 11.1
Namie	2,508	28 1.1	22 78.6	0 0.0	2 9.1	9 40.9	11 50.0	22 100.0	0 0.0	2 9.1	20 90.9	3 15.0
Iitate	763	14 1.8	11 78.6	0 0.0	2 18.2	6 54.5	3 27.3	11 100.0	2 18.2	3 27.3	6 54.5	1 16.7
Minami-soma	8,907	81 0.9	68 84.0	2 2.9	10 14.7	27 39.7	29 42.6	67 98.5	4 6.0	16 23.9	47 70.1	14 29.8
Date	9,110	86 0.9	78 90.7	1 1.3	17 21.8	38 48.7	22 28.2	73 93.6	0 0.0	26 35.6	47 64.4	9 19.1
Tamura	5,006	51 1.0	42 82.4	1 2.4	3 7.1	28 66.7	10 23.8	41 97.6	1 2.4	10 24.4	30 73.2	6 20.0
Hirono	679	9 1.3	7 77.8	0 0.0	1 14.3	3 42.9	3 42.9	7 100.0	0 0.0	3 42.9	4 57.1	0 0.0
Naraha	1,001	5 0.5	5 100.0	0 0.0	0 0.0	1 20.0	4 80.0	5 100.0	0 0.0	0 0.0	5 100.0	0 0.0
Tomioka	2,001	24 1.2	20 83.3	0 0.0	3 15.0	4 20.0	13 65.0	19 95.0	1 5.3	5 26.3	13 68.4	1 7.7
Kawauchi	213	2 0.9	2 100.0	0 0.0	0 0.0	1 50.0	1 50.0	2 100.0	0 0.0	0 0.0	2 100.0	0 0.0
Okuma	1,757	15 0.9	13 86.7	0 0.0	1 7.7	6 46.2	6 46.2	13 100.0	0 0.0	2 15.4	11 84.6	3 27.3
Futaba	685	2 0.3	1 50.0	0 0.0	0 0.0	0 0.0	1 100.0	1 100.0	1 100.0	0 0.0	0 0.0	0 0.0
Katsurao	150	2 1.3	2 100.0	0 0.0	2 100.0	0 0.0	0 0.0	2 100.0	0 0.0	2 100.0	0 0.0	0 0.0
Fukushima	42,687	348 0.8	291 83.6	5 1.7	38 13.1	140 48.1	108 37.1	282 96.9	12 4.3	52 18.4	218 77.3	48 22.0
Nihonmatsu	7,885	59 0.7	50 84.7	1 2.0	6 12.0	23 46.0	20 40.0	50 100.0	1 2.0	9 18.0	40 80.0	4 10.0
Motomiya	4,809	31 0.6	26 83.9	0 0.0	1 3.8	15 57.7	10 38.5	24 92.3	0 0.0	4 16.7	20 83.3	5 25.0
Otama	1,263	6 0.5	6 100.0	0 0.0	0 0.0	4 66.7	2 33.3	5 83.3	0 0.0	2 40.0	3 60.0	0 0.0
Koriyama	48,023	364 0.8	274 75.3	7 2.6	31 11.3	128 46.7	108 39.4	263 96.0	8 3.0	54 20.5	201 76.4	41 20.4
Kori	1,635	14 0.9	10 71.4	0 0.0	1 10.0	5 50.0	4 40.0	9 90.0	0 0.0	3 33.3	6 66.7	1 16.7
Kunimi	1,240	9 0.7	8 88.9	1 12.5	1 12.5	0 0.0	6 75.0	8 100.0	0 0.0	1 12.5	7 87.5	0 0.0
Tenei	793	11 1.4	6 54.5	0 0.0	0 0.0	3 50.0	3 50.0	6 100.0	1 16.7	1 16.7	4 66.7	1 25.0
Shirakawa	9,665	63 0.7	48 76.2	1 2.1	4 8.3	24 50.0	19 39.6	47 97.9	1 2.1	17 36.2	29 61.7	4 13.8
Nishigo	3,178	28 0.9	20 71.4	0 0.0	2 10.0	12 60.0	6 30.0	19 95.0	0 0.0	8 42.1	11 57.9	3 27.3
Izumizaki	997	4 0.4	2 50.0	0 0.0	0 0.0	1 50.0	1 50.0	2 100.0	0 0.0	0 0.0	2 100.0	0 0.0
Miharu	2,386	24 1.0	13 54.2	0 0.0	0 0.0	10 76.9	3 23.1	13 100.0	1 7.7	6 46.2	6 46.2	0 0.0
Subtotal	159,104	1,303 0.8	1,044 80.1	19 1.8	128 12.3	500 47.9	397 38.0	1,010 96.7	36 3.6	233 23.1	741 73.4	145 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

District	Number of those screened a	Participants who required confirmatory test b	Number of those who underwent confirmatory test				
			Total	Ages 2-7	Ages 8-12	Ages 13-17	≥ 18
			c	d	e	f	g
		Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)

As of 30 June 2016

Total	Number of confirmed results			
	Next screening advised		Follow-up advised	
	A1 i	A2 j	k	Aspiration biopsy cytology l
h	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)

Screening coverage by municipality in FY 2015

Iwaki	45,228	376	172	2	18	74	78
		0.8	45.7	1.2	10.5	43.0	45.3
Sukagawa	11,444	105	76	1	10	38	27
		0.9	72.4	1.3	13.2	50.0	35.5
Soma	4,747	32	25	3	2	13	7
		0.7	78.1	12.0	8.0	52.0	28.0
Kagamiishi	1,978	16	13	0	0	7	6
		0.8	81.3	0.0	0.0	53.8	46.2
Shinchi	1,036	13	10	0	2	4	4
		1.3	76.9	0.0	20.0	40.0	40.0
Nakajima	754	5	3	0	0	2	1
		0.7	60.0	0.0	0.0	66.7	33.3
Yabuki	2,410	16	12	0	3	5	4
		0.7	75.0	0.0	25.0	41.7	33.3
Ishikawa	2,027	14	10	0	1	8	1
		0.7	71.4	0.0	10.0	80.0	10.0
Yamatsuri	740	6	4	0	1	1	2
		0.8	66.7	0.0	25.0	25.0	50.0
Asakawa	1,029	9	7	1	0	3	3
		0.9	77.8	14.3	0.0	42.9	42.9
Hirata	855	7	5	0	2	3	0
		0.8	71.4	0.0	40.0	60.0	0.0
Tanagura	2,160	17	9	0	2	4	3
		0.8	52.9	0.0	22.2	44.4	33.3
Hanawa	1,166	11	8	0	0	5	3
		0.9	72.7	0.0	0.0	62.5	37.5
Samegawa	493	6	5	0	0	3	2
		1.2	83.3	0.0	0.0	60.0	40.0
Ono	1,262	12	6	0	2	2	2
		1.0	50.0	0.0	33.3	33.3	33.3
Tamakawa	964	9	5	0	0	4	1
		0.9	55.6	0.0	0.0	80.0	20.0
Furudono	793	5	3	0	1	1	1
		0.6	60.0	0.0	33.3	33.3	33.3
Hinoemata	66	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
		0.9	68.8	0.0	27.3	54.5	18.2
Kaneyama	121	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
Mishima	121	1	1	0	0	1	0
		0.8	100.0	0.0	0.0	100.0	0.0
Shimogo	614	4	2	0	0	0	2
		0.7	50.0	0.0	0.0	0.0	100.0
Kitakata	5,725	44	6	0	0	4	2
		0.8	13.6	0.0	0.0	66.7	33.3
Nishiaizu	654	4	3	0	0	2	1
		0.6	75.0	0.0	0.0	66.7	33.3
Tadami	458	7	3	0	0	2	1
		1.5	42.9	0.0	0.0	66.7	33.3
Inawashiro	1,728	12	9	0	0	4	5
		0.7	75.0	0.0	0.0	44.4	55.6
Bandai	401	4	2	0	0	0	2
		1.0	50.0	0.0	0.0	0.0	100.0
Kitashiobara	377	2	2	0	1	0	1
		0.5	100.0	0.0	50.0	0.0	50.0
Aizumisato	2,537	21	2	1	0	0	1
		0.8	9.5	50.0	0.0	0.0	50.0
Aizubange	2,063	18	4	0	0	2	2
		0.9	22.2	0.0	0.0	50.0	50.0
Yanaizu	386	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
		0.8	11.9	0.0	7.1	71.4	21.4
Yugawa	516	4	0	0	0	0	0
		0.8	0.0	0.0	0.0	0.0	0.0
Subtotal	111,274	914	432	8	49	208	167
		0.8	47.3	1.9	11.3	48.1	38.7

Total	270,378	2,217	1,476	27	177	708	564
		0.8	66.6	1.8	12.0	48.0	38.2

134	4	25	105	11
77.9	3.0	18.7	78.4	10.5
72	1	17	54	5
94.7	1.4	23.6	75.0	9.3
23	0	5	18	2
92.0	0.0	21.7	78.3	11.1
13	0	2	11	1
100.0	0.0	15.4	84.6	9.1
10	1	2	7	2
100.0	10.0	20.0	70.0	28.6
3	0	0	3	1
100.0	0.0	0.0	100.0	33.3
12	0	3	9	0
100.0	0.0	25.0	75.0	0.0
9	1	2	6	1
90.0	11.1	22.2	66.7	16.7
3	0	2	1	1
75.0	0.0	66.7	33.3	100.0
7	1	0	6	1
100.0	14.3	0.0	85.7	16.7
4	0	1	3	0
80.0	0.0	25.0	75.0	0.0
7	0	1	6	2
77.8	0.0	14.3	85.7	33.3
8	1	1	6	1
100.0	12.5	12.5	75.0	16.7
4	0	0	4	0
80.0	0.0	0.0	100.0	0.0
5	1	0	4	0
83.3	20.0	0.0	80.0	0.0
4	0	1	3	0
80.0	0.0	25.0	75.0	0.0
3	0	1	2	0
100.0	0.0	33.3	66.7	0.0
0	0	0	0	0
0.0	0.0	0.0	0.0	0.0
10	0	2	8	0
90.9	0.0	20.0	80.0	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
1	0	0	1	0
100.0	0.0	0.0	100.0	0.0
2	0	0	2	1
100.0	0.0	0.0	100.0	50.0
5	0	1	4	0
83.3	0.0	20.0	80.0	0.0
3	0	1	2	0
100.0	0.0	33.3	66.7	0.0
3	0	0	3	1
100.0	0.0	0.0	100.0	33.3
7	0	1	6	0
77.8	0.0	14.3	85.7	0.0
2	0	0	2	0
100.0	0.0	0.0	100.0	0.0
2	0	0	2	0
100.0	0.0	0.0	100.0	0.0
1	0	0	1	0
50.0	0.0	0.0	100.0	0.0
3	0	0	3	0
75.0	0.0	0.0	100.0	0.0
0	0	0	0	0
0.0	0.0	0.0	0.0	0.0
9	1	2	6	1
64.3	11.1	22.2	66.7	16.7
0	0	0	0	0
0.0	0.0	0.0	0.0	0.0
369	11	70	288	31
85.4	3.0	19.0	78.0	10.8

1,379	47	303	1,029	176
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

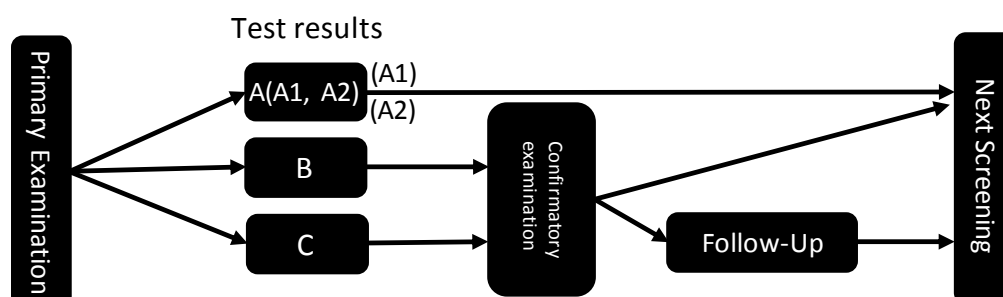


Fig.1 Flow chart

1.5 Target Municipalities

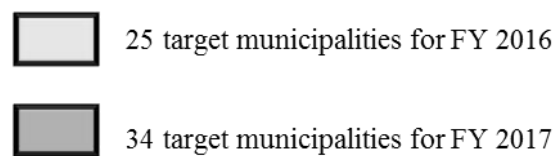


Fig.2 Target Municipalities

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 a	Participants		Proportion (%) c (c/b)	Test results			
		Proportion (%) b (b/a)	Screened outside Fukushima		Class (%)			
					A		Requiring confirmatory test	
					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	3)	b/a					c	c/b
Screening coverage by municipality in FY 2016										
Kawamata	2,459	914	0	37.2	279	507	114	14	0	0.0
					30.5	55.5	12.5	1.5		
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 to 100%. Ages are at the time when the participants underwent the testing.

Thyroid Ultrasound Examination (TUE) coverage by municipality

As of 30 June 2016

Hybrid Ultrasound Examination (FUE) coverage by municipality										July 1 to June 30, 2017	
	Survey Population	Participants		Proportion (%)	Number and proportion of participants by age group				Participants living outside Fukushima	Proportion (%)	
		b	Screened outside Fukushima 3)		4-9	10-14	15-19	≥ 20			
											a
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*	Prefecture	Number of test venues	Participants*	Prefecture	Number of test venues	Participants*
Hokkaido	6	0	Fukui	1	0	Hiroshima	1	0
Aomori	1	0	Yamanashi	2	0	Yamaguchi	1	0
Iwate	3	0	Nagano	2	2	Tokushima	1	0
Miyagi	2	0	Gifu	1	0	Kagawa	1	0
Akita	1	0	Shizuoka	2	0	Ehime	1	0
Yamagata	3	1	Aichi	3	3	Kochi	1	0
Ibaraki	4	0	Mie	1	0	Fukuoka	3	0
Tochigi	7	6	Shiga	1	0	Saga	1	0
Gunma	2	1	Kyoto	3	0	Nagasaki	2	0
Saitama	2	6	Osaka	6	1	Kumamoto	1	0
Chiba	4	0	Hyogo	1	0	Oita	1	0
Tokyo	12	41	Nara	2	0	Miyazaki	1	0
Kanagawa	5	8	Wakayama	1	3	Kagoshima	1	0
Niigata	2	3	Tottori	1	0	Okinawa	1	0
Toyama	1	0	Shimane	1	0			
Ishikawa	1	0	Okayama	3	0			
						Total	104	75

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

Report on the Results of the Follow-up Survey for the FY2011 Pregnancy and Birth Survey

I . Outline of the Survey

1. Purpose

Since FY2011, the Fukushima Medical University (FMU) has been conducting the Pregnancy and Birth Survey as a cross-sectional survey covering different groups every year. Among the respondents to the FY2011 Pregnancy and Birth Survey, the percentage of those showing depressive tendencies was especially high, and many of their free comments contained serious issues. Children born around the time of the survey became four years old or so, and mothers with children around those ages often feel a lack of confidence concerning child-rearing. It was supposed that there were mothers newly in need of support.

Accordingly, FMU conducted a Follow-up Survey covering the respondents to the FY2011 Pregnancy and Birth Survey after the lapse of four years, ascertained their health conditions, and offered support as needed.

2. Survey population

Out of the respondents to the FY2011 Pregnancy and Birth Survey, mothers who gave birth during the period from August 1, 2010, to April 8, 2012 (*excluding those who experienced a miscarriage, abortion, or stillbirth) were covered. FMU made inquiries with municipal governments regarding information on the life and death of the mothers and babies and conducted the Follow-up Survey for 7,252 mothers confirmed alive together with their babies.

3. Method

- Questionnaire sheets (self-administered questionnaire sheets) were sent to the survey population mentioned above.
- Questionnaire sheets were distributed on September 11, 2015.
- Questionnaire sheets were not resent to non-respondents.

4. Survey items

Survey items were as follows.

- (1) Do you usually consider yourself healthy?
- (2) Have you often felt down or depressed during the past month?
- (3) During the past month, have you often felt uninterested in or unable to truly enjoy things?
- (4) Do you sometimes feel a lack of confidence concerning child-rearing?
- (5) Please check all the boxes that describe what you are worried about regarding radiation effects.
☐ Water ☐ Food ☐ Outdoor activities ☐ Child's health ☐ Prejudice ☐ Genetic effects ☐ Other
- (6) Has your child ever had a disease that required hospitalization?
- (7) Please check all the boxes that describe what you are anxious about regarding your child.
☐ Mental and physical development ☐ Diseases ☐ Lifestyle habits ☐ Other

5. Data tabulation period

September 14, 2015 – May 31, 2016

II . Summary of the Survey Results

Responses to each item of the questionnaire were tabulated. The results are shown in the tables below. Note that the total may not match the sum of valid responses due to missing values in each question item.

1. Response rate

The number of respondents (response rate) was 2,554 (35.2%), and the number of valid responses that were tabulated was 2,554 (there were no invalid responses).

2. Number of respondents

By area of residence, the number of respondents to the Follow-up Survey for the FY2011 Main Survey was as follows: 679 (38.7%) in the Kenpoku Region, 721 (32.7%) in the Kenchu Region, 168 (34.1%) in the Kennan Region, 256 (34.9%) in the Soso Region, 434 (35.9%) in the Iwaki Region, 271 (34.5%) in the Aizu Region, and 25 (34.7%) in the Minamiaizu Region. The response rate was the highest in the Kenpoku Region and the lowest in the Kenchu Region.

3. Maternal mental health

The percentage of mothers judged as having depressive tendencies was 25.6%. The relevant percentage was 27.1% four years before in the 2011 Pregnancy and Birth Survey.

The percentage of mothers who responded that their subjective health was poor ("Not so healthy" or "Not healthy") was 9.6%. (This item was not included in the FY2011 Pregnancy and Birth Survey.) The relevant percentage was the highest in the Soso Region (13.3%).

4. Status of family life and child-rearing

The percentage of mothers who responded that they sometimes feel a lack of confidence concerning child rearing was 15.8%. (This item was not included in the FY2011 Pregnancy and Birth Survey.) For reference, according to the 2010 Infants and Children's Health Degree Survey, 23.0% of the surveyed mothers responded that they sometimes feel a lack of confidence in rearing their children aged four.

5. Anxieties about radiation effects

The percentage of mothers who checked at least one box in the list of anxieties about radiation effects was 94.2%. Among them, the percentage was the highest at 79.5% for mothers who responded that they are anxious about "Child's health." The percentage of mothers who are anxious about "Water," "Prejudice" and "Genetic effects" was the highest in the Soso Region.

6. Health conditions of and anxieties about born children

The percentage of mothers who responded that hospitalization had been required for a child's disease was 24.7%, nearly one in four. Major diseases that required hospitalization were pneumonia, respiratory syncytial virus infection, and bronchitis.

The percentage of children who received hospital treatment was the highest in the Minamiaizu Region (32.0%), followed by the Aizu Region (29.2%).

The percentage of mothers who checked at least one box in the list of anxieties about their children was 70.8%. Among them, the percentage of mothers who are anxious about their children's "Diseases" was the highest (57.6%), followed by that of mothers who are anxious about the "Mental and physical development" of their children (56.1%).

7. Free comments

383 mothers (15.0%) entered free comments. The number and the percentage were lower compared with those for the FY2011 Main Survey (3,722 mothers (42.2%)).

The most frequently raised topic was "Anxieties about radiation effects on fetus/child," which accounted for 13.8%, followed by "Positive comments about this survey" (12.3%).

8. Conclusion

The percentage of mothers judged as having depressive tendencies was 25.6%, and the percentage of mothers who responded that their subjective health is poor ("Not so healthy" or "Not healthy") was 9.6%.

The percentage of mothers who checked at least one box in the list of anxieties about radiation effects was 94.2%. Among them, the percentage was the highest at 79.5% for mothers who responded that they are anxious about "Child's health."

15% of the mothers entered free comments, and the percentage of mothers who are anxious about radiation effects on fetus/child was especially high at 13.8%.

Given these, it is found that certain percentages of mothers still have depressive tendencies (25.6%) and anxieties about radiation effects (94.2%). Accordingly, it is considered necessary to conduct a Follow-up Survey also for the FY2012 Main Survey and continue providing support by phone to those in need of support.

III. Outline of Post-Survey Support

1. Purpose

For mothers, out of the respondents to the Follow-up Survey for the FY2011 Pregnancy and Birth Survey, who were judged as needing consultations and/or support, midwives and public health nurses provided consultations and/or support by phone or by email to alleviate their worries and have them live peaceful lives.

2. Eligible respondents

Respondents to the Follow-up Survey for the FY2011 Pregnancy and Birth Survey

3. Criteria for selecting eligible respondents

Mothers falling under either (1) or (2) below:

- (1) Mothers falling under two survey items relating to depression
- (2) Mothers considered to need support based on the content of free comments

Examples: A mother who entered a depressive comment; a mother in need of child-rearing support; a mother worrying about figures of radiation doses; a mother directly making a request or seeking concrete answers; a mother requesting support, etc.

4. Method

- Consultations and/or support by phone or by email

IV. Summary of Results of Post-Survey Support

The results of the provided support are shown in the tables below.

* Data tabulation period: September 14, 2015 – May 31, 2016

1. Number of support candidates

Out of 2,554 mothers who responded to the questionnaire during the period from September 14, 2015, to May 31, 2016, the number of mothers who were judged as needing consultations and/or support by phone (mothers in need of support) was 375, accounting for 14.7%. The percentage of mothers in need of support was almost the same as that in FY2011 (1,401 mothers (15.0%)).

Support provided based on responses to questions regarding depressive tendencies accounted for 79.7%, while support provided based on the content of free comments accounted for 20.3%. The percentage of support based on the content of free comments increased compared with the results of the FY2011 Main Survey (support based on responses to questions regarding depressive tendencies: 87.4%; support based on the content of free comments: 12.6%).

2. Topics of consultations

The most frequent topic of consultations by phone was "Mothers' mental and/or physical health" (34.4%), followed by "Anxieties about radiation and its effects" (25.6%) and "Matters concerning child rearing (daily life)" (21.6%). The percentage of consultations on "Anxieties about radiation and its effects" was on a decline, from 29.2% in FY2011 to 23.7% in FY2012, 17.1% in FY2013, and 9.5% in FY2014. However, the latest percentage of 25.6% was the second highest, following the relevant percentage in the 2011 Main Survey.

3. Reasons for completing support

As reasons for completing support, the number of cases where support was "Ended by sorting out problems through carefully listening to participants' statements" was the largest (for 197 mothers (52.5%)), followed by cases where support was "Ended by providing information and introducing administrative service offices" (for 105 mothers (28.0%)). The percentage of cases where support was discontinued due to the absence of the respondents was also high at 34.9% (131 mothers). (Percentages are calculated based on the aggregated total number of reasons for completion divided by the number of mothers in need of support.)

4. Conclusion

The percentage of mothers who were judged as needing support by phone through the Follow-up Survey was 14.7%, of which, cases where support was considered necessary based on responses to questions regarding depressive tendencies accounted for approximately 80%.

As a major topic of consultations, "Anxieties about radiation and its effects" accounted for a high percentage (25.6%).

As usual, cases where support was completed through "Carefully listening to participants' statements" were the largest in number (approx. 50%), while the percentage of cases where support was discontinued due to the absence of the respondents increased.

V. Results of the Follow-up Survey for the FY2011 Pregnancy and Birth Survey

1. Number of questionnaires distributed and returned

Response period: From September 14, 2015 to May 31, 2016

Region	Survey population		Number of responses (Response rate by region)	
Kenpoku	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%
Minamiaizu	72	1.0%	25	34.7%
Total	7,252	100.0%	2,554	35.2%

2. Tabulated results by question item

Responses from 2,554 respondents were tabulated (invalid response: 0). Individual question items may contain non-responses or invalid responses.

The sum of individual percentages for each question item may not add up to 100% due to rounding.

Q1 Do you think of yourself as healthy?

Region	Very healthy		Somewhat healthy		Not so healthy		Not healthy		Non-response/ invalid response		Total	
Kenpoku	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%
Minamiaizu	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?

Region	Yes		No		Non-response/ invalid response		Total	
Kenpoku	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%
Minamiaizu	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? ?

Region	Yes		No		Non-response/ invalid response		Total	
Kenpoku	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%
Minamiaizu	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%

Those with depressive symptoms (Those who answered “yes” to Q2 and/or Q3)

Region	“Yes” for both		“Yes” for either one		“No” for both		Non-response/ invalid response		Total	
Kenpoku	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%
Minamiaizu	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%

*Depressive tendency 25.6% [653 persons (“Yes” for both + “Yes” for either one) / Total 2,554 persons]

Q4 Do you occasionally feel unconfident about child-rearing?

Region	Yes		No		Neither yes nor no		Non-response/ invalid response		Total	
Kenpoku	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%
Minamiaizu	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 Please check (✓) all the boxes that describe what you are worried about regarding radiation effects

Region	Child's health		Food		Prejudice		Water		Outdoor activities		Genetic effects		Other		Valid responses
Kenpoku	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
Minamiaizu	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 of percentages is the number of valid responses (those who checked at least one box). The sum of individual percentages for each question item may not add up to 100% because multiple answers were allowed

Q6 & Q7 are the questions for the children who were born between August 1, 2010 and April 4, 2012.

Q6 Has your child ever had a disease that required hospitalization?

Region	Yes		No		Non-response/ invalid response		Total	
Kenpoku	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%
Minamiaizu	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 Diseases that caused hospitalization mentioned in Q6

(Has your child ever had a disease that required hospitalization?) (Multiple answers were allowed.)

Pneumonia	162	Ventricular septal defect	3	Complete transposition of the great arteries	1	Lymphangioma	1
RS virus infection	101	Dehydration	3	Cellulitis	1	Hypoglycemia	1
Bronchitis	60	Intussusception	3	Acute subdural hematoma	1	infectious mononucleosis	1
Seizure	47	Patent ductus arteriosus	3	Upper respiratory inflammation	1	Exanthem subitum	1
Rotavirus infection	44	Pertussis	3	Acute pyelonephritis	1	Clubfoot	1
Gastroenteritis	41	EB Virus Infection	2	Acute respiratory distress syndrome	1	Hearing loss	1
Bronchial asthma	41	Nephrotic syndrome	2	Hip dislocation	1	Spina bifida fissure	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 infection	12	Herpetic gingivostomatitis	2	Hyperammonemia	1	Pulmonary artery stenosis	1
Adenovirus infection	11	Acute lymphoblastic leukemia	2	Ankyloproctia	1	Atypical hemolytic uremic syndrome	1
Bronchial pneumonia	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	Artrial septal defect	2	Acetonemic vomiting	1	Abdominal wall rupture	1
Influenza	8	Apnea attack	2	Pulmonary atresia	1	Nevus	1
Pharyngitis	8	Tonsillitis	2	Cerebellar ataxia	1	Cellulitis	1
Croup syndrome	7	Food allergy	2	Supraventricular premature contractions	1	Priform fistula	1
Mycoplasma infection	7	Umbilical hernia	2	Hydronephrosis	1	Arm fracture	1
Pyelonephritis	6	Ileus	1	Meningitis	1	Tonsillar hypertrophy	1
Epilepsy	5	Currarino' s syndrome	1	Pure red cell aplasia	1	Vesicoureteral reflux	1
Low birth weight	5	Cytomegalovirus infection	1	Congenital hypothyroidism	1	Anaphylactic shock	1
Cleft lip and palate	4	Cyanosis	1	Small intestine atresia	1		
Migratory testis	4	Tetralogy of Fallot	1	Esophageal atresia	1		
Urinary tract infection	4	Herpes simplex virus (HSV) infection	1	Congenital mitral regurgitation	1		
Unknown fever	4	Migratory testis	1	Congenital intestinal obstruction	1		
Adenoid hyperplasia	3	Erimaxillary inflammation	1	Urea cycle disorder	1		
Hives	3	Diarrhea	1	Premature baby	1		
Parotitis	3	Idiopathic dilated cardiomyopathy	1	Polydactyly	1		

Q7 Please check (

3. Free comments

The tabulation was made for 383 responses on the free comments section out of 2,554 participants.

Contents of free comments

Anxiety about radiation effects on fetus and child health	53	13.8%
Positive comments about this survey	47	12.3%
Opinions/complaints about this survey	44	11.5%
Request regarding information dissemination and publication of survey results	37	9.7%
Request regarding thyroid examination	23	6.0%
Mother's poor mental health	19	5.0%
Anxiety about radiation exposure of the children when playing outside	18	4.7%
Anxiety and/or dissatisfaction about reliability or lack of information	17	4.4%
Anxiety about radiation effects on babies and/or general foods	14	3.7%
Request regarding the overall examinations and health checks	13	3.4%
Consultation about child rearing**	13	3.4%
Request for decontamination and provision of safe playgrounds	12	3.1%
Request for improved parenting support services	10	2.6%
Anxiety related to the evacuation	9	2.3%
Personal relationship(s)**	8	2.1%
Anxiety related to the outcome of the latest pregnancy	7	1.8%
Mother's poor physical health**	6	1.6%
Request for financial support	6	1.6%
Anxiety-related with financial issues	5	1.3%
Request regarding Fukushima Health Management Survey	5	1.3%
Request for improved mental care and consultation services	5	1.3%
Anxiety about radiation effects on water	4	1.0%
Opinions/complaints about lack of medical services	4	1.0%
Request for internal exposure examinations (whole body counter etc.)	3	0.8%
Request for health check and prenatal checkups	2	0.5%
Anxiety about radiation effects for next pregnancy	1	0.3%
Comments related to external exposure	1	0.3%
Request for improved medical services and physical care	1	0.3%
Others	83	21.7%

*The denominator of percentages is 383 (those who wrote comments in the free comment section).

*Multiple answers are allowed.

** Responses that did not appear in the 2011 survey

4. Status of post-survey support

The number of respondents considered in need of support in the Follow-up survey for FY2011 was 375 (14.7% of 2,554 respondents) (FY2011:15.0%, FY2012: 15.4%, FY2013: 15.2%, FY2014: 11.6%)

Tabulation period: From September 14, 2015 through May 31, 2016

Number and proportion of support candidates

Region	Number of distributions	Respondents		Support candidates	
Kenpoku	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%
Minamiaizu	72	25	34.7%	5	20.0%
Total	7,252	2,554	35.2%	375	14.7%

*The denominator for percentage calculation is the number of responses.

Details of support candidates, by region

Region	Based on depression symptoms		Based on the contents of free comments		Total	
Kenpoku	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%
Minamiaizu	5	100.0%	0	0.0%	5	100.0%
総計	299	79.7%	76	20.3%	375	100.0%

*The sum of individual percentages for each question item may not add up to 100% due to rounding.

Major Topics of the Consultations by Region.

Region	Mother's own physical and/or mental health		Questions and anxiety about radiation effects		Child rearing (daily life)		Child's physical and/or mental health		Family life		Evacuation life		Other		Support Candidates
Kenpoku	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
Minamiaizu	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 for percentage calculations is the number of respondents requiring support. The sum of individual percentages may be other than 100% because multiple answers were allowed.

Reasons for ending support

Region	Listened carefully ¹⁾		Provided information ²⁾		Confirmed consultation availability ³⁾		Answered questions ⁴⁾		Recommended medical care ⁵⁾		Referred to radiation consultation ⁶⁾		Referred to municipalities ⁷⁾	
Kenpoku	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%
Minamiaizu	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%

Region	Referred to Mental Health Support Team ⁸⁾		Referred to medical specialists ⁹⁾		Absent		Contact number unknown		Support declined		Other reasons		Support candidates
Kenpoku	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
Minamiaizu	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 for percentage calculations is the number of respondents requiring support. The numbers are cumulative totals. The sum of individual percentages may be other than 100% because multiple answers were allowed.

- 1) Support ended after listening carefully and helping to sort out the mother's problems.
- 2) Support ended after providing information on relevant municipal service contact points and other useful information.
- 3) Support ended after confirming that the mother has already consulted doctors or other specialists.
- 4) Support ended after recommending that the mother seek medical consultation.
- 5) Support ended after answering questions from the mother.
- 6) Support ended after forwarding the mother's information to radiation consultation desk (with consent).
- 7) Support ended after forwarding the mother's information to relevant sections of the municipality of residence (with consent).
- 8) Support ended after forwarding the mother's information to FMU's Mental Health Support Team (with consent).
- 9) Support ended after forwarding the mother's information to medical specialists at FMU.