Basic Survey (Radiation Dose Estimates)

Reported on 12 February 2015

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), which targeted the entire population of Fukushima Prefecture, was 27.0% (554,241/2,055,383) as of 31 December 2014. Response rate of the simplified questionnaire was 3.1% (63,451/2,055,383). (See Table 1)

Table 1												
Response rates to the Basic Survey												
As of 31 December 2014												
Target population 2,055,383												
	Original	490.790	23.9%									
	questionnaire	400,700	20.070									
Response	Simplified	63,451	3.1%									
	questionnaire*	00,401	5.1%									
	Total	554,241	27.0%									
*Preliminary figures												
Fractions have been rounded.												

The following tables show the results of the original and simplified questionnaires combined.

1.2 Radiation Dose Estimates

It has been almost four years since the Great East Japan Earthquake and the Fukushima Daiichi nuclear disaster, and we continue to receive responses from participants. Doses have been estimated for 536,394 of 554,241 respondents (96.8%) as of 31 December 2014, and the results have been returned to 531,454 respondents. (See Table 2)

The number of returned results has increased by 19,260 since 31 October 2014.

Table 2	Table 2 Response rates to the Basic Survey As of 31 December 2014													
Area(preceding and full-scale	Target population	Responses	Response rate	Completed dose estimates	Proportion	Returned	Proportion							
surveys)	surveys) a b c=b/a d e=d/b f g=f/b													
Kempoku	504,062	150,493	29.9%	146,074	97.1%	144,569	96.1%							
Kenchu	557,266	132,179	23.7%	128,633	97.3%	127,849	96.7%							
Kennan	152,229	33,465	22.0%	32,360	96.7%	31,955	95.5%							
Aizu	267,205	55,907	20.9%	53,301	95.3%	52,482	93.9%							
Minami-aizu	30,787	6,171	20.0%	5,795	93.9%	5,726	92.8%							
Soso	195,608	88,916	45.5%	86,268	97.0%	86,099	96.8%							
lwaki	348,226	87,110	25.0%	83,963	96.4%	82,774	95.0%							
Total	Total 2,055,383 554,241 27.0% 536,394 96.8% 531,454 95.9%													
Including Yamaki	Including Yamakiya of Kawamata, Namie and litate.													

We have been estimating doses for non-residents who were visiting or staying in Fukushima Prefecture at the time of the accident. (See Table 3)

ſ	Table 3	Response rates to the Basic Survey												
l	(Visitors) As of 31 December 2014													
	Number of requests	Responses	Response rate	Completed dose estimates	Proportion	Returned results	Proportion							
l	а	b	c=b/a	d	e=d/b	f	g=f/b							
	3,875	2,137	55.1%	1,879	87.9%	1,869	87.5%							

2. Results of Radiation Dose Estimates

Table 4 shows the numbers of completed dose estimates (see Table 2) —excluding the data in the estimation period less than four months—within a range of values.

Radiation doses for a total of 457,859 residents have been estimated to date. The results for 448,948 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 78% of respondents in the Soso area and more than 99% of respondents in Iwaki were also <1 mSv.

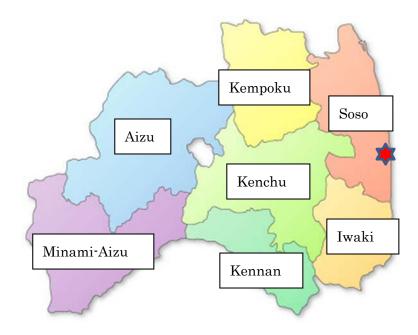
Table 4			E	Estimate	d exteri	nal radiat	ion de	oses (pre	cedir	ig and fu	III-sca	ale surve	ey)			As	of 31	December	r 2014
Effective										By ar	ea (exc	cluding rad	diation	workers)					
Dose (mSv)	Total	Exclu	ding radia	ation work	ers	Kempoł	(u *	Kenchu		Kenn	Kennan		Aizu		-aizu	Soso	**	lwak	d
<1	284,668	279,118	62.2%	93.9%		24,590	20.2%	55,961	51.6%	24,353	88.4%	43,496	99.3%	4,672	99.3%	55,144	77.6%	70,902	99.1%
1-2	144,618	142,344	31.7%	93.976		81,671	67.0%	44,184	40.8%	3,182	11.5%	279	0.6%	34	0.7%	12,377	17.4%	617	0.9%
2-3	24,954	24,597	5.5%	5.8%	99.8%	15,057	12.4%	7,827	7.2%	17	0.1%	21	0.0%	0	-	1,647	2.3%	28	0.0%
3-4	1,532	1,457	0.3%	5.076		457	0.4%	413	0.4%	0	-	1	0.0%	0	-	583	0.8%	3	0.0%
4-5	537	495	0.1%	0.2%		39	0.0%	5	0.0%	0	-	0	-	0	-	450	0.6%	1	0.0%
5-6	429	376	0.1%	0.270		18	0.0%	3	0.0%	0	-	0	-	0	-	354	0.5%	1	0.0%
6-7	265	227	0.1%	0.1%		10	0.0%	1	0.0%	0	-	1	0.0%	0	-	215	0.3%	0	-
7-8	151	114	0.0%	0.170	0.2%	1	0.0%	0	-	0	-	0	-	0	-	113	0.2%	0	-
8-9	113	73	0.0%	0.0%	0.0%	1	0.0%	0	-	0	-	0	-	0	-	72	0.1%	0	-
9-10	69	39	0.0%	0.076		0	-	0	-	0	-	0	-	0	-	39	0.1%	0	-
10-11	66	34	0.0%	0.0%		0	-	0	-	0	-	0	-	0	-	34	0.0%	0	-
11-12	52	31	0.0%	0.076		1	0.0%	0	-	0	-	0	-	0	-	30	0.0%	0	-
12-13	36	13	0.0%	0.0%	0.0%	0	-	0	-	0	-	0	-	0	-	13	0.0%	0	-
13-14	34	12	0.0%	0.078		0	-	0	-	0	-	0	-	0	-	12	0.0%	0	-
14-15	27	6	0.0%	0.0%		0	-	0	-	0	-	0	-	0	-	6	0.0%	0	-
<u>></u> 15	308	12	0.0%	0.078	0.0%	0	-	0	-	0	-	0	-	0	-	12	0.0%	0	-
Total	457,859	448,948	100.0%	100.0%	100.0%	121,845	100%	108,394	100%	27,552	100%	43,798	100%	4,706	100%	71,101	100%	71,552	100%
Max	66mSv	25mSv				11mSv		6.3mSv		2.6mSv		6.0mSv	\checkmark	1.9mSv		25mSv		5.9mSv	\nearrow
Mean value	0.9mSv	0.8mSv				1.4mSv		1.0mSv		0.6mSv		0.2mSv		0.1mSv		0.8mSv		0.3mSv	
* Including	Yamakiya	of Kawama	ata.										Percen	tages hav	e been	rounded ar	id may	not total to	100%.
** Including	g Namie ar	id litate.										E	Excludin	ig those wi	ith estin	nation perio	od less	than four m	onths.

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

	Preceding and	Response r I full-scale s					s of 31 Dece	mber 2014
Area	District	Target population	Response	Response rate	Completed dose estimates	Proportion	Returned results	Proportior
		а	b	c=b/a	d	e=d/b	f	g=f/b
	Fukushima	295,654	93,227	31.5%	91,113	97.7%	89,993	96.5%
	Nihonmatsu	60,859	16,480	27.1%	15,748	95.6%	15,649	95.0%
	Date	67,581	18,162	26.9%	17,592	96.9%	17,436	96.0%
	Motomiya	31,766	8,734	27.5%	8,260	94.6%	8,191	93.8%
Kempoku	Kori	13,207	3,878	29.4%	3,743	96.5%	3,739	96.4%
-	Kunimi	10,316	3,019	29.3%	2,876	95.3%	2,862	94.8%
	Kawamata	15,886	5,084	32.0%	4,917	96.7%	4,887	96.1%
	Otama	8,793	1,909	21.7%	1,825	95.6%	1,812	94.9%
	Subtotal	504,062	150,493	29.9%	146,074	97.1%	144,569	96.1%
	Koriyama	339,736	84,127	24.8%	82,046	97.5%	81,571	97.0%
	Sukagawa	80,162	16,666	20.8%	16,156	96.9%	16,033	96.2%
	Tamura	41,726	10,018	24.0%	9,676	96.6%	9,594	95.8%
	Kagamiishi	13,109	2,852	21.8%	2,778	97.4%	2,770	97.1%
	Tenei	6,469	1,169	18.1%	1,137	97.3%	1,131	96.7%
	Ishikawa	17,490	4,162	23.8%	4,041	97.1%	4,022	96.6%
Kenchu	Tamakawa	7,338	1,468	20.0%	1,418	96.6%	1,417	96.5%
	Hirata	7,057	1,630	23.1% 20.6%	1,569	96.3% 97.4%	1,563	95.9% 97.1%
	Asakawa	7,163	1,476	20.6%	1,437	97.4% 96.8%	1,433 1,247	97.1% 96.2%
	Furudono Miharu	6,319 18,994	1,296 4,775	20.5% 25.1%	1,255 4,657	96.8% 97.5%	1,247 4,619	96.2%
	Ono	11,703	2,540	25.1%	2,463	97.0%	2,449	96.4%
	Subtotal	557,266	132,179	21.7%	128,633	97.3%	127,849	96.7%
	Shirakawa	65,428	14,930	22.8%	14,396	96.4%	14,088	94.4%
	Nishigo	20,091	4,809	23.9%	4,667	97.0%	4,637	96.4%
	Izumizaki	6,931	1,318	19.0%	1,272	96.5%	1,269	96.3%
	Nakajima	5,306	964	18.2%	939	97.4%	928	96.3%
	Yabuki	18,343	4,017	21.9%	3,901	97.1%	3,887	96.8%
Kennan	Tanagura	15,383	2,936	19.1%	2,852	97.1%	2,840	96.7%
	Yamatsuri	6,489	1,434	22.1%	1,377	96.0%	1,374	95.8%
	Hanawa	10,062	2,260	22.5%	2,191	96.9%	2,169	96.0%
	Samegawa	4,196	797	19.0%	765	96.0%	763	95.7%
	Subtotal	152,229	33,465	22.0%	32,360	96.7%	31,955	95.5%
	Aizuwakamatsu	127,815	28,939	22.6%	27,753	95.9%	27,294	94.3%
	Kitakata	53,201	10,142	19.1%	9,598	94.6%	9,312	91.8%
	Kitashiobara	3,275	595	18.2%	566	95.1%	562	94.5%
	Nishiaizu	7,725	1,432	18.5%	1,329	92.8%	1,327	92.7%
	Bandai	3,888	752	19.3%	733	97.5%	729	96.9%
	Inawashiro	16,272	3,588	22.1%	3,426	95.5%	3,400	94.8%
Aizu	Aizubange	17,881	3,202	17.9%	3,035	94.8%	3,022	94.4%
	Yugawa	3,514	705	20.1%	671	95.2%	670	95.0%
	Yanaizu	4,077	710	17.4%	674	94.9%	672	94.6%
	Mishima	2,031	372	18.3%	338	90.9%	336	90.3%
	Kaneyama	2,544	619	24.3%	562	90.8%	559	90.3%
	Showa	1,569	344	21.9%	317	92.2%	317	92.2%
	Aizumisato	23,413	4,507 55,907	19.2% 20.9%	4,299	95.4% 95.3%	4,282 52,482	95.0% 93.9%
	Subtotal Shimogo	267,205	55,907	20.9%	53,301 1,150	95.3% 94.7%		93.9%
	Hinoemata	6,650 614	1,215	23.1%	1,150	94.7% 91.5%	1,144 130	94.2%
Minami-aizu	Tadami	5,030	142	23.1%	1,015	91.5%	1,013	91.5%
	Minami-aizu	18,493	3,731	21.3%	3,500	93.8%	3,439	92.2%
	Subtotal	30,787	6,171	20.2%	5,795	93.9%	5,726	92.8%
	Soma	37,371	12,990	34.8%	12,461	95.9%	12,436	95.7%
	Minami-soma	70,012	29,824	42.6%	29,066	97.5%	29,012	97.3%
	Hirono	5,165	2,197	42.5%	2,116	96.3%	2,113	96.2%
	Naraha	7,963	4,137	52.0%	3,976	96.1%	3,969	95.9%
	Tomioka	15,753	8,561	54.3%	8,359	97.6%	8,351	97.5%
	Kawauchi	2,996	1,525	50.9%	1,475	96.7%	1,472	96.5%
Soso	Okuma	11,476	6,009	52.4%	5,793	96.4%	5,768	96.0%
	Futaba	7,051	3,915	55.5%	3,819	97.5%	3,810	97.3%
	Namie	21,333	12,879	60.4%	12,597	97.8%	12,580	97.7%
	Katsurao	1,541	811	52.6%	756	93.2%	756	93.2%
	Shinchi	8,357	2,652	31.7%	2,545	96.0%	2,535	95.6%
	litate	6,590	3,416	51.8%	3,305	96.8%	3,297	96.5%
		6,590 195,608	3,416 88,916	51.8% 45.5%	3,305 86,268	96.8% 97.0%	3,297 86,099	96.5% 96.8%
Iwaki	litate		88,916					

*Including Yamakiya of Kawamata, Namie and litate.

Basic Survey, Fukushima Health Management Survey

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

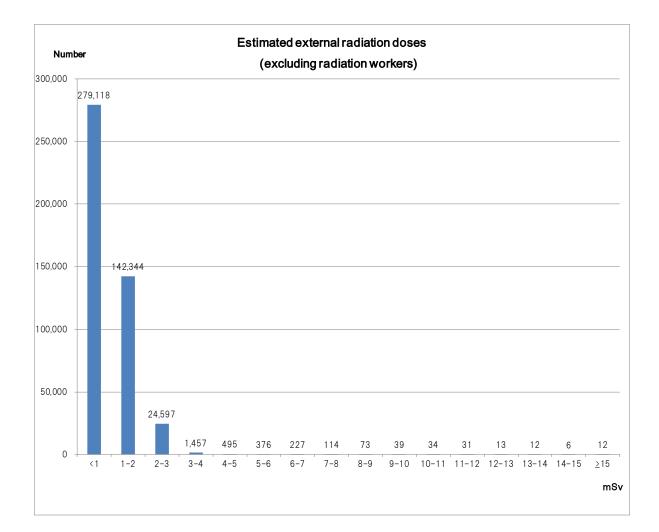
Preceding Survey and full-scale survey

Appendix 2

As of 31 December 2014

	Estimated external radiation doses by region												
Effective Dose	Total	Excluding radiation				By region					portion (ding rad		
(mSv)	TOLAI	workers	Kempoku	Kenchu	Kennan	Aizu	Minami-aizu	Soso	lwaki		workers	ation	
<1	284,668	279,118	24,590	55,961	24,353	43,496	4,672	55,144	70,902	62.2	93.9		
1-2	144,618	142,344	81,671	44,184	3,182	279	34	12,377	617	31.7	93.9		
2-3	24,954	24,597	15,057	7,827	17	21	0	1,647	28	5.5	5.8	99.8	
3-4	1,532	1,457	457	413	0	1	0	583	3	0.3	5.0		
4-5	537	495	39	5	0	0	0	450	1	0.1	0.2		
5-6	429	376	18	3	0	0	0	354	1	0.1	0.2		
6-7	265	227	10	1	0	1	0	215	0	0.1	0.1		
7-8	151	114	1	0	0	0	0	113	0	0.0	0.1	0.2	
8-9	113	73	1	0	0	0	0	72	0	0.0	0.0		
9-10	69	39	0	0	0	0	0	39	0	0.0	0.0		
10-11	66	34	0	0	0	0	0	34	0	0.0	0.0		
11-12	52	31	1	0	0	0	0	30	0	0.0	0.0		
12-13	36	13	0	0	0	0	0	13	0	0.0	0.0	0.0	
13-14	34	12	0	0	0	0	0	12	0	0.0	0.0		
14-15	27	6	0	0	0	0	0	6	0	0.0	0.0		
<u>></u> 15	308	12	0	0	0	0	0	12	0	0.0	0.0	0.0	
Total	457,859	448,948	121,845	108,394	27,552	43,798	4,706	71,101	71,552	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				

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



As of 31 December 2014

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

Effective				Age at the	e time of th	e disaster				Total
Dose (mSv)	0 - 9	10 - 19	20 - 29	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79	80 -	Total
<1	46,407	42,629	20,455	32,823	27,664	31,871	35,190	25,090	16,989	279,118
1-2	22,056	20,814	9,672	17,497	16,217	18,189	19,010	12,008	6,881	142,344
2-3	6,091	4,086	1,072	2,225	2,161	2,880	3,313	1,940	829	24,597
3-4	245	156	79	150	148	229	222	161	67	1,457
4-5	19	45	36	40	76	91	77	72	39	495
5-6	13	14	27	33	43	83	73	63	27	376
6-7	4	5	11	21	25	45	51	44	21	227
7-8	3	6	7	8	13	34	22	14	7	114
8-9	2	4	3	8	7	15	14	10	10	73
9-10	0	1	1	2	4	12	11	5	3	39
10-11	1	1	1	2	5	11	4	6	3	34
11-12	0	0	1	3	0	6	8	11	2	31
12-13	0	0	0	0	1	6	4	1	1	13
13-14	0	0	1	1	1	4	3	2	0	12
14-15	0	0	0	0	0	3	3	0	0	6
<u>></u> 15	0	0	0	0	2	2	5	1	2	12
Total	74,841	67,761	31,366	52,813	46,367	53,481	58,010	39,428	24,881	448,948

Estimated external radiation doses by sex in the first four months (excluding radiation workers)

Effective Dose		By sex			Total	Proportion
(mSv)	Male	Proportion (%)	Female	Proportion (%)	TOtal	(%)
<1	124,856	60.6	154,262	63.5	279,118	62.2
1-2	66,093	32.1	76,251	31.4	142,344	31.7
2-3	13,376	6.5	11,221	4.6	24,597	5.5
3-4	927	0.4	530	0.2	1,457	0.3
4-5	277	0.1	218	0.1	495	0.1
5-6	194	0.1	182	0.1	376	0.1
6-7	127	0.1	100	0.0	227	0.1
7-8	67	0.0	47	0.0	114	0.0
8-9	43	0.0	30	0.0	73	0.0
9-10	23	0.0	16	0.0	39	0.0
10-11	21	0.0	13	0.0	34	0.0
11-12	17	0.0	14	0.0	31	0.0
12-13	6	0.0	7	0.0	13	0.0
13-14	8	0.0	4	0.0	12	0.0
14-15	3	0.0	3	0.0	6	0.0
<u>></u> 15	9	0.0	3	0.0	12	0.0
Total	206,047	100.0	242,901	100.0	448,948	100.0

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

Basic Survey, Fukushima Health Management Survey

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

As of 31 December 2014

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

			s by regi				E	ffective	Doses	(mSv)								
Агеа	a/region	<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	<u>≥</u> 15	Tota
	Fukushima	16,004	51,747	9,173	149	12	10	4	0	0	0	0	0	0	0	0	0	77,0
	Nihonmatsu	1,279	8,163	3,286	86	1	0	0	0	0	0	0	0	0	0	0	0	12,8
	Date	4,332	8,927	1,120	145	8	2	3	1	1	0	0	0	0	0	0	0	14,5
Kempoku	Motomiya	718	5,000	1,093	20	1	0	0	0	0	0	0	0	0	0	0	0	6,8
	Kori	311	2,724	66	2	0	1	0	0	0	0	0	0	0	0	0	0	3,1
	Kunimi	941	1,398	12	0	0	0	0	0	0	0	0	0	0	0	0	0	2,3
	Kawamata	624	2,686	179	53	17	5 0	3	0	0	0	0	1	0	0	0	0	3,
Komno	Otama ku Subtotal	381	1,026	128 15,057	2 457	0 39	18	10	0	0	0	0	0	0	0	0	0	1,1
Kempo	Koriyama	24,590 23,080	81,671 38,831	7,402	403	5	3	1	0	0	0	0	0	0	0	0	0	121, 69,
		10,317	3,085	320	403	0	0	0	0	0	0	0	0	0	0	0	0	13,
	Sukagawa Tamura	7,190	664	22	4	0	0	0	0	0	0	0	0	0	0	0	0	7,
	Kagamiishi	2,294	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,3
	Tenei	366	548	53	1	0	0	0	0	0	0	0	0	0	0	0	0	2,
	Ishikawa	3,107	38	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3,
Kenchu	Tamakawa	1,143	17	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1,
	Hirata	1,262	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,2
	Asakawa	1,176	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,
	Furudono	1,040	10	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1,0
	Miharu	3,039	786	22	2	0	0	0	0	0	0	0	0	0	0	0	0	3,
	Ono	1,947	81	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2,
Kench	u Subtotal	55,961	44,184	7,827	413	5	3	1	0	0	0	0	0	0	0	0	0	108,
	Shirakawa	11,188	1,144	9	0	0	0	0	0	0	0	0	0	0	0	0	0	12,
	Nishigo	2,149	1,861	2	0	0	0	0	0	0	0	0	0	0	0	0	0	4,
	Izumizaki	1,036	19	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1,
	Nakajima	787	11	1	0	0	0	0	0	0	0	0	0	0	0	0	0	,
Kennan	Yabuki	3,267	78	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3,
	Tanagura	2,417	28	3	0	0	0	0	0	0	0	0	0	0	0	0	0	2,
	Yamatsuri	1,101	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,
	Hanawa	1,784	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,
	Samegawa	624	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Kenna	n Subtotal	24,353	3,182	17	0	0	0	0	0	0	0	0	0	0	0	0	0	27,
	Aizuwakamatsu	22,796	146	11	0	0	0	1	0	0	0	0	0	0	0	0	0	22,
	Kitakata	7,885	49	1	1	0	0	0	0	0	0	0	0	0	0	0	0	7,
	Kitashiobara	458	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Nishiaizu	992	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Bandai	618	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Inawashiro	2,756	28	3	0	0	0	0	0	0	0	0	0	0	0	0	0	2,
Aizu	Aizubange	2,535	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,
	Yugawa	571	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	:
	Yanaizu	531	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	;
	Mishima	245	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	:
	Kaneyama	394	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	:
	Showa	235	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	:
	Aizumisato	3,480	19	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3,
Aizu	Subtotal	43,496	279	21	1	0	0	1	0	0	0	0	0	0	0	0	0	43,
	Shimogo	921	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
linami-aizu	Hinoemata	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
aai2u	Tadami	810	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Minami-aizu	2,841	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,
Minami-a	aizu Subtotal	4,672	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,
	Soma	9,719	439	86	20	5	0	0	0	0	2	0	0	0	0	0	0	10,
	Minami-soma	18,845	6,108	507	99	35	3	6	4	1	0	0	1	0	0	0	0	25,
	Hirono	1,819	54	2	0	0	0	1	0	1	0	0	0	0	0	0	0	1,
	Naraha	3,355	127	13	2	0	1	1	0	0	0	0	0	0	0	0	0	3,
	Tomioka	5,787	1,098	98	18	3	2	0	3	2	0	0	1	0	0	0	0	7,
Soso	Kawauchi	957	345	16	1	0	1	1	1	0	0	0	0	0	0	0	0	1,
	Okuma	3,334	1,266	111	17	6	4	4	3	0	2	2	1	0	4	0	1	4,
	Futaba	2,656	464	75	18	6	4	3	6	2	1	0	2	0	0	0	1	3,
	Namie	5,868	1,972	355	64	38	17	15	12	9	5	11	8	5	4	3	6	8,
	Katsurao	495	161	24	4	0	1	0	0	0	0	0	0	0	0	0	0	0
	Shinchi	2,113	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,
-	litate	196	323	360	340	357	321	184	84	57	29	21	17	8	4	3	4	2,
	Subtotal	55,144	12,377	1,647	583	450	354	215	113	72	39	34	30	13	12	6	12	71,
lwaki -	lwaki	70,902	617	28	3	1	1	0	0	0	0	0	0	0	0	0	0	71,
Т	Total	279,118	142,344	24,597	1,457	495	376	227	114	73	39	34	31	13	12	6	12	448,
-		62.2	31.7	5.5	0.3	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10
Propo	ortion (%)	93.		5.8		0.	2	0.1		0.0	J	0.	U	0.0	U	0.0		10
				99.8					0.2					0.0			0.0	10
	isitors	1,331	264	18	2	0	0	0	0	0	0	0	0	0	0	0	0	1,

Interim Report of Thyroid Ultrasound Examination (Initial Screening)

Reported on 12 February 2015 Revised on 5 June 2015

1. Summary

1.1 Purpose

One of the health problems caused by the Chernobyl nuclear power plant accident was thyroid cancer in childhood caused by internal exposure to radioactive iodine.

In response to the Tokyo Electric Power Company's (TEPCO's) Fukushima Daiichi nuclear accident, Fukushima Prefecture started a Thyroid Ultrasound Examination program to protect the health of children over their lifetimes. Initial Screening aims to check the baseline condition of participants' thyroid glands.

1.2 Group

Residents of Fukushima Prefecture, including visitors, as of 11 March 2011, aged 0-18 years (born between 2 April 1992 and 1 April 2011).

1.3 Implementation Period

The Initial Screening started from 9 October 2011 and was planned to end on 31 March 2014, but we continued these examinations until notice of the Full-scale Thyroid Screening program was sent to residents. The data tabulation period lasted to 31 December 2014.

We continue to conduct confirmatory testing on the basis of the primary test results.

1.4 Responsible Organizations

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

We started the primary examination from 1 November 2012 outside Fukushima, and 92 institutions have agreed to cooperate as of 31 December 2014.

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. As of 31 December 2014, 26 institutions conduct the examination.

1.5 Method

1.5-1 Primary Examination

We used ultrasonography for examination of the thyroid gland.

Assessments were 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 2014.

(A1) No nodules / cysts

(A2) Nodules $\leq 5.0 \text{ mm} \text{ or cysts} \leq 20.0 \text{ mm}$

-Diagnostic Criteria: B

Those with B test result are advised to take the Confirmatory Examination.

(B) Nodules \geq 5.1 mm or cysts \geq 20.1 mm

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

-Diagnostic Criteria: C

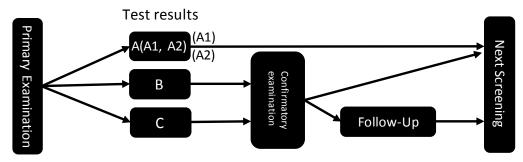
Those with C test result are advised to take the Confirmatory Examination.

(C) Immediate need for confirmatory examination.

1.5-2 Confirmatory Examination

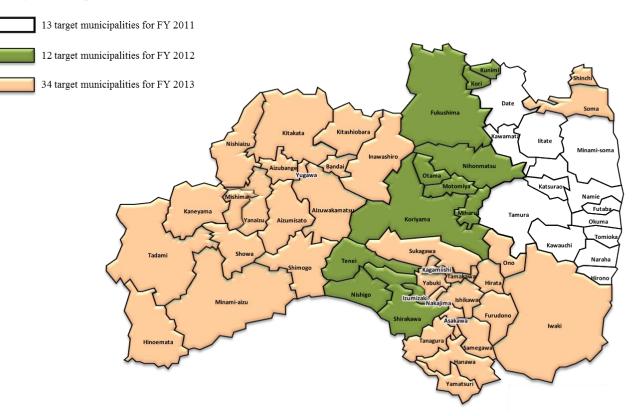
We conduct ultrasonography, blood test, urine test, and fine-needle aspiration cytology (FNAC) if needed for those with B or C test results. Priority is given to those in urgent clinical need.

1.5-3 Flow chart



1.6 Target Municipalities

Е



2.1 Results (As of 31 December 2014)

2.1-1 Primary Examination

The participation rate as of 31 December 2014 is 81.2% (298,577/367,687). (See Appendix 2 and 3) The results have been returned to 99.5% of the 297,046 participants. (See Appendix 4 and 5) Those with A1 or A2 test results were 294,795 (99.2%), B were 2,250 (0.8%), and C was 1.

Table 1. Screening test coverage as of 31 December 2014

	Target	Participants	;	Test results								
	Population	Proportion (%)	Screened	Proportion (%)		Class	-					
		-	outside	outside		1	1	Requiring con	firmatory test			
	а	b (b/a)	Fukushima	c (c/b)	A1 d (d/c)	A2 e (e/c)	Bf(f/c)	C g (g/c)				
FY 2011	47,768	41,810 (87.5)	2,025	41,810 (100.0)	26,373 (63.1)	15,216 (36.4)	221 (0.5)	0 (0.0)				
FY 2012	161,135	139,339 (86.5)	4,266	139,317 (100.0)	76,183 (54.7)	62,146 (44.6)	987 (0.7)	1 (0.0)				
FY 2013	158,784	117,428 (74.0)	3,111	115,919 (98.7)	50,461 (43.5)	64,416 (55.6)	1,042 (0.9)	0 (0.0)				
Total	367,687	298,577 (81.2)	9,402	297,046 (99.5)	153,017 (51.5)	141,778 (47.7)	2,250 (0.8)	1 (0.0)				

Table 2. Number and proportion of children with nodules/cysts as of 31 December 2014

	Number of confirmed	Number and proportions of children with nodules/cysts										
	screening results	No	dules	Су	vsts							
		<u>></u> 5.1mm	<u><</u> 5.0mm	<u>>20.1mm</u>	<u><</u> 20.0mm							
	a	b (b/a)	c (c/a)	d (d/a)	e (e/a)							
FY 2011	41,810	219 (0.5)	232 (0.6)	1 (0.0)	15,140 (36.2)							
FY 2012	139,317	973 (0.7)	730 (0.5)	9 (0.0)	62,259 (44.7)							
FY 2013	115,919	1,040 (0.9)	718 (0.6)	2 (0.0)	64,704 (55.8)							
Total	297,046	2,232 (0.8)	1,680 (0.6)	12 (0.0)	142,103 (47.8)							

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

Because of the duplication of the participants, some numbers are not consistent with the previous ones.

2.1-2 Confirmatory Examination

The number of participants with B or C test results who required further testing is 2,251, of whom 2,067 (91.8%) underwent confirmatory testing. Among them, 2,010 (97.2%) have completed the tests (Appendix 6).

Of 2,010 children, 681 (33.9%), specifically 117 with A1 and 564 with A2 results (Table 3), were recommended for watchful waiting.

Of 1, 329 (66.1%) needed 6 to 12 months follow-up provided by health insurance, 523 (39.4%) underwent FNAC.

	Number of children	Participants	Confirmed test results						
	requiring confirmatory	Proportion (%)	Confirmatory test	matory test Next screening advised Follow-t		Follow-u	up advised		
	test a	b (b/a)	coverage (%) c (c/b)	A1 d (d/c)	A2 e (e/c)	f (f/c)	Cytology g (g/f)		
FY 2011	221	199 (90.0)	197 (99.0)	12 (6.1)	44 (22.3)	141 (71.6)	91 (64.5)		
FY 2012	988	919 (93.0)	899 (97.8)	54 (6.0)	246 (27.4)	599 (66.6)	262 (43.7)		
FY 2013	1,042	949 (91.1)	914 (96.3)	51 (5.6)	274 (30.0)	589 (64.4)	170 (28.9)		
Total	2,251	2,067 (91.8)	2,010 (97.2)	117 (5.8)	564 (28.1)	1,329 (66.1)	523 (39.4)		

Table 3. Confirmatory testing coverage and results as of 31 December 2014

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 Fine Needle Aspiration Biopsy and Cytology (FNAC)

2.2-1 Aspiration biopsy cytology results as of 31 December 2014

Those who were not diagnosed as suspicious or malignant were recommended for 6- to 12-months follow-up.

Target municipalities in FY 2011

Suspicious or malignant	15 (15 surgical cases: 1 of benign thyroid nodules; 13 of papillary thyroid
	carcinoma;
	1 poorly differentiated thyroid carcinoma)
Male to female ratio	5:10
Mean age (SD, min-max)	17.3 (2.0, 13-20)
	15.7 (1.9, 11-18) at the time of the disaster
Mean tumor size	14.1 mm (6.6 mm, 6.0-33.0 mm)

Target municipalities in FY 2012

Suspicious or malignant	56 (50 surgical cases: 49 of papillary thyroid carcinoma ;
	1 poorly differentiated thyroid carcinoma)
Male to female ratio	21:35
Mean age (SD, min-max)	17.2 (2.7, 8-21)
	14.9 (2.6, 6-18) at the time of the disaster
Mean tumor size	14.5 mm (7.8 mm, 5.2-40.5 mm)

Target municipalities in FY 2013

Suspicious or malignant	39 (22 surgical cases: 21 of papillary thyroid carcinoma;
	1 poorly differentiated thyroid carcinoma)
Male to female ratio	12:27
Mean age (SD, min-max)	17.2 (3.0, 11-21)
	14.4 (2.8, 8-18) at the time of the disaster
Mean tumor size	13.3 mm (6.9 mm, 5.1-35.9 mm)

Total for cases FY 2011 - FY 2013

Suspicious or malignant	110 (87 surgical cases: 1 of benign thyroid nodules; 83 of papillary thyroid
	carcinoma;
	3 poorly differentiated thyroid carcinoma)
Male to female ratio	38:72
Mean age(SD, min-max)	17.2 (2.7, 8-21)
	14.8 (2.6, 6-18) at the time of the disaster
Mean tumor size	14.0 mm (7.3 mm, 5.1-40.5 mm)

2.2-2 Suspicious or malignant cases on FNAC by age and sex

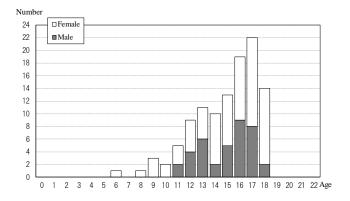


Fig.3 Age as of 11 March 2011

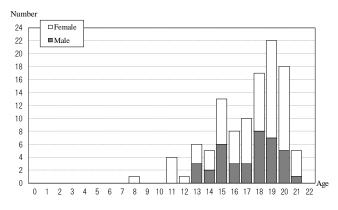


Fig. 4 Age as the date of confirmatory examination

2.2-3 Suspicious or malignant cases on FNAC by estimated radiation dose

Sixty-two of the 110 cases (56.4%) participated in the Basic Survey (radiation dose estimates) and 59 of them, including 5 with less than four months' data, have received the results. Among those, 41 (69.5%) had estimated radiation exposure dose below 1 mSv, and the highest effective dose was 2.2 mSv.

Table 5. Number of suspicious of malignant cases by age and sex As of 31 December 2014								
Effective dose	Sex	Age at the time of disaster						
(mSv)	BCA	0-5	6-10	11-15	16-18	Total		
<0.5	Male	0	0	2	5(1)	7(1)		
<0.5	Female	0	4(1)	6	10(2)	20(3)		
0.5-0.9	Male	0	0	4(1)	2	6(1)		
0.3-0.9	Female	0	1	1	6	8		
1.0-1.4	Male	0	0	2	2	4		
1.0-1.4	Female	0	0	5	1	6		
1.5-1.9	Male	0	0	1	0	1		
1.3-1.9	Female	0	0	4	2	6		
2.0-2.4	Male	0	0	1	0	1		
2.0-2.4	Female	0	0	0	0	0		
Total	Male	0	0	10(1)	9(1)	19(2)		
Total	Female	0	5(1)	16	19(2)	40(3)		

 Table 5. Number of suspicious or malignant cases by age and sex
 As of 31 December 2014

Numbers inside the brackets are estimates for participants with less than four months' data.

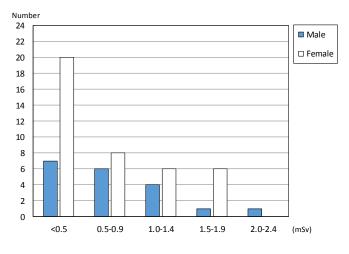


Fig. 5 Effective dose of the respondents

2.2-4 Blood and urinary iodine test results as of 31 December 2014

	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	2.13-4.07 7)	0.340-3.880	<u><</u> 32.7	<28.0	<16.0
110 suspicious or malignant	1.2 <u>+</u> 0.2 (6.4%)	3.4 <u>+</u> 0.4 (5.5%)	1.3 <u>+</u> 0.7 (5.5%)	38.3 <u>+</u> 77.7 (35.5%)	- (27.3%)	- (15.5%)
Other 1,898	1.3 <u>+</u> 0.3 (7.2%)	3.6 <u>+</u> 0.9 (6.2%)	1.8 <u>+</u> 12.3 (8.4%)	33.7 <u>+</u> 182.6 (17.8%)	- (13.2%)	- (9.6%)

Table 6. Blood test results Mean±SD (Abnormality rate)

Table 7. Urinary iodine ($\mu g/day$)

	Minimum	25th percentile	Median	75th percentile	Maximum
110 suspicious or malignant	42	134	229.5	373.25	6,020
Other 1,895	24	120	196	368	35,700

1) FT4: Free Thyroxine; higher among patients with Graves' disease and lower with Hashimoto's disease.

2) FT3: Free Triiodothyronine; higher among patients with Graves' disease and lower with Hashimoto's disease.

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.

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.

2.2-5 Confirmatory test results by municipality as of 31 December 2014

The proportion of suspicious or malignant is 0.03% in FY 2011 target municipalities (13 municipalities in the nationally designated evacuation zones), 0.04% in FY 2012 target municipalities (12 towns of the Kenchu area), and 0.03% in FY 2013 target municipalities (34 towns of the Iwaki, Kennan, and Aizu areas).

Table 8.Confirmatory test results in FY 2011

(13 municipalities	in the n	ationally	designated	evacuation	zones)
(10 11010000000		in the second se	a oblighter a	• • • • • • • • • • • • • • • • • • • •	201100)

	Number of children screened	Number who required confirmatory test	Proportion who required confirmatory test (%)	Number who underwent confirmatory test	Suspicious or malignant cases ¹	Proportion of suspicious or malignant cases (%)
Kawamata	2,221	8	0.4	8	2	0.09
Namie	3,249	26	0.8	24	2	0.06
Iitate	943	6	0.6	6	0	0.00
Minami-soma	10,789	52	0.5	48	2	0.02
Date	10,605	50	0.5	45	2	0.02
Tamura	6,325	32	0.5	26	3	0.05
Hirono	838	5	0.6	4	0	0.00
Naraha	1,153	7	0.6	6	0	0.00
Tomioka	2,302	13	0.6	12	1	0.04
Kawauchi	280	4	1.4	4	1	0.36
Okuma	1,973	14	0.7	13	1	0.05
Futaba	949	3	0.3	2	0	0.00
Katsurao	183	1	0.5	1	0	0.00
Subtotal	41,810	221	0.5	199	14	0.03

1) Excluding one suspected case found benign by aspiration biopsy cytology.

	Number of children screened	Number who required confirmatory test	Proportion who required confirmatory test (%)	Number who underwent confirmatory test	Suspicious or malignant cases	Proportion of suspicious or malignant cases (%)
Fukushima	47,307	283	0.6	271	12	0.03
Nihonmatsu	8,857	57	0.6	54	5	0.06
Motomiya	5,234	29	0.6	29	3	0.06
Otama	1,373	7	0.5	7	2	0.15
Koriyama	54,063	458	0.8	415	25	0.05
Kori	1,874	14	0.7	13	0	0.00
Kunimi	1,437	15	1.0	13	0	0.00
Tenei	878	7	0.8	6	0	0.00
Shirakawa	10,811	61	0.6	59	6	0.06
Nishigo	3,618	30	0.8	26	1	0.03
Izumizaki	1,157	5	0.4	5	1	0.09
Miharu	2,730	22	0.8	21	1	0.04
Subtotal	139,339	988	0.7	919	56	0.04

Confirmatory test results by municipality in FY 2012

	Number of children screened	Number 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*	48,810	436	0.9	401	22	0.05
Sukagawa	12,018	103	0.9	98	4	0.03
Soma	5,088	46	0.9	42	0	0.00
Kagamiishi	2,021	10	0.5	8	0	0.00
Shinchi	1,114	7	0.6	7	0	0.00
Nakajima	830	2	0.2	2	0	0.00
Yabuki	2,555	17	0.7	13	0	0.00
Ishikawa	2,145	11	0.5	10	1	0.05
Yamatsuri	793	3	0.4	2	0	0.00
Asakawa	1,089	12	1.1	11	0	0.00
Hirata	864	9	1.0	9	1	0.12
Tanagura	2,314	22	1.0	22	1	0.04
Hanawa	1,246	8	0.6	7	0	0.00
Samegawa	521	3	0.6	1	0	0.00
Ono	1,433	14	1.0	13	0	0.00
Tamakawa	1,011	10	1.0	8	0	0.00
Furudono	816	6	0.7	6	0	0.00
Hinoemata	61	0	0.0	0	0	0.00
Minami-aizu	1,822	16	0.9	15	0	0.00
Kaneyama	137	0	0.0	0	0	0.00
Showa	101	0	0.0	0	0	0.00
Mishima	129	1	0.8	1	0	0.00
Shimogo	694	10	1.4	9	1	0.14
Kitakata	5,740	46	0.8	40	0	0.00
Nishiaizu	640	5	0.8	4	0	0.00
Tadami	494	7	1.4	6	0	0.00
Inawashiro	1,908	13	0.7	13	1	0.05
Bandai	414	4	1.0	3	0	0.00
Kitashiobara	388	1	0.3	1	0	0.00
Aizumisato	2,551	26	1.0	23	0	0.00
Aizubange	2,082	25	1.2	23	1	0.05
Yanaizu	376	23	0.5	23	0	0.00
Aizuwakamatsu		160	1.1	142	6	0.04
Yugawa	508	7	1.4	7	1	0.20
Subtotal	117,428	1,042	0.9	949	39	0.03
Total	298,577	2,251	0.8	2,067	109	0.04

Confirmatory test results by municipality in FY 2013

* Including districts of FY 2012

3. Primary and confirmatory test results by municipality (Interim report)

In order to compare the results by municipality, we divided the area into three regions, Hamadori, Nakadori, and Aizu. Hamadori and Nakadori are divided into 13 municipalities in the nationally designated evacuation zones and otherwise.

The below is the interim report since the results of the Confirmatory Examination in Aizu area are not fully available yet.

Table 9. Proportion of B or C test results, and susp	icious (or ma	lignant (Interim 1	report)		As of 31 Dec	ember 2014
			13 municipalities	Nakadori ¹⁵	Hamadori ¹⁶	Aizu ¹⁷	Total
Target population			47,768	199,456	70,536	49,927	367,687
Number of participants of Primary Examination	A ¹⁰		41,810	168,214	54,345	32,677	297,046
Mean age (SD) Total			10.4 (5.3)	10.7 (5.1)	11.1 (4.9)	11.1 (4.5)	-
Mean age (SD) Female			10.4 (5.3)	10.8 (5.2)	11.3 (5.0)	11.3 (4.6)	-
Mean age (SD) Male			10.3 (5.2)	10.5 (5.1)	10.9 (4.9)	10.9 (4.4)	-
Female (%)		%	49.6	49.3	50.0	49.7	49.5
B or C test results	В		221	1,218	489	323	2,251
Proportion of B or C test results	(B/A)	%	0.53	0.72	0.90	0.99	0.76
Number of participants of Confirmatory Examination	C ¹¹		197	1,100	437	276	2,010
Proportion of participants	(C/B)	%	89.1	90.3	89.4	85.4	89.3
Participants of FNAC	D 12		94	295	94	46	529
Proportion of participants of Confirmatory Examination	(D/C)	%	47.7	26.8	21.5	16.7	26.3
Proportion of participants of Primary Examination	(D/A)	%	0.22	0.18	0.17	0.14	0.18
Number of suspicious or malignant	E 13		14	63	22	10	109
Proportion	(E/D)	%	14.9	21.4	23.4	21.7	20.6
Proportion per 100,000	(E/A)		33.5	37.5	40.5	30.6	36.7
		%	(0.033)	(0.037)	(0.040)	(0.031)	(0.037)

10) Excluding duplicates and unconfirmed results.

11) Excluding number of unconfirmed test results.

12) Number of those who underwent FNAC including A1 and A2 test results among participants of Confirmatory Examination.

13) Excluding one suspected case found benign by aspiration biopsy cytology.

14) Tamura, Minami-soma, Date, Kawamata, Hirono, Naraha, Tomioka, Kawauchi, Okuma, Futaba, Namie, Katsurao, Iitate

15) Fukushima, Koriyama, Shirakawa, Sukagawa, Nihonmatsu, Motomiya, Kori, Kunimi, Otama, Kagamiishi, Tenei, Nishigo, Izumizaki, Nakajima, Yabuki, Tanagura, Yamatsuri, Hanawa, Samegawa, Ishikawa, Tamakawa, Hirata, Asakawa, Furudono, Miharu, Ono

16) Iwaki, Soma, Shinchi

17) Aizuwakamatsu, Kitakata, Shimogo, Hinoemata, Tadami, Minami-aizu, Kitashiobara, Nishiaizu, Bandai, Inawashiro, Aizubange, Yugawa, Yanaizu, Mishima, Kaneyama, Showa, Aizumisato

Summary

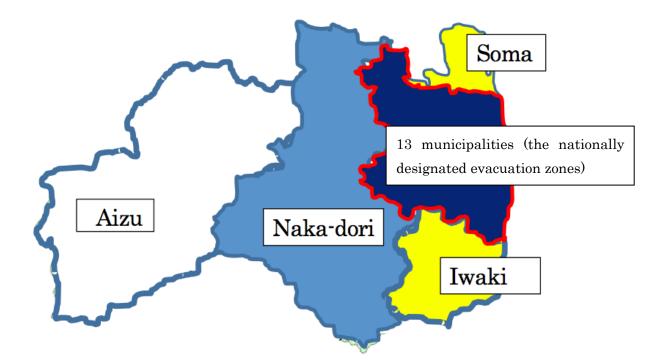
Among the 297,046 participants of Primary Examination excluding duplicates and unconfirmed test results, proportion of B or C test results increased in all areas, and was highest in Aizu followed by Hamadori, Nakadori, and 13 municipalities of the nationally designated evacuation zones.

The proportion of suspicious or malignant was almost the same among 13 municipalities in the nationally designated evacuation zones, Nakadori, and Hamadori, but lower in Aizu since the proportion of those completed the Confirmatory Examination is lower.

FY 2011 is from 1 April 2011 through 31 March 2012.

FY 2012 is from 1 April 2012 through 31 March 2013.

FY 2013 is from 1 April 2013 through 31 March 2014.



			Age	•	
	Target Population	0-5	6-10	11-15	16-18
Y 2011					
Kawamata	2,394	588	631 920	719	45
Namie Iitate	3,643	1,023 281	300	1,031 301	20
Minami-soma	12,526	3,697	3,418	3,297	2,11
Date	11,400	2,755	3,023	3,401	2,22
Tamura	7,068	1,738	1,807	2,073	1,45
Hirono	1,077	258	250	348	22
Naraha	1,432	351	362	415	30
Tomioka	2,962	767	740	897	55
Kawauchi	357	90	99	89	
Okuma Futaba	2,385	782 369	634 300	619 337	3:
Katsurao	233	56	62	67	
Subtotal	47,768	12,755	12,546	13,594	8,8
Y 2012	,	12,700	12,010	10,071	0,0
Fukushima	53,553	15,248	14,062	14,880	9,30
Nihonmatsu	10,256	2,784	2,646	2,945	1,88
Motomiya	6,112	1,760	1,583	1,691	1,0
Otama	1,617	486	399	430	30
Koriyama	64,383	19,216	16,911	17,497	10,7:
Kori	2,065	526	547	595	39
Kunimi	1,594	381	420	484	30
Tenei	1,061	300	284	280	19
Shirakawa	12,161	3,357	3,258	3,478	2,0
Nishigo	3,977	1,143	1,081	1,075	6
Izumizaki	1,289	353	355	335	24
Miharu Subtotal	3,067	750	776	931	07.8
Y 2013	161,135	46,304	42,322	44,621	27,8
I 2013 Iwaki*	62,289	17,231	16,181	17,755	11,12
Sukagawa	15,309	4,344	4,096	4,256	2,6
Soma	6,813	1,941	1,778	1,849	1,2
Kagamiishi	2,597	740	707	723	42
Shinchi	1,434	392	394	411	23
Nakajima	1,079	270	282	317	2
Yabuki	3,277	981	850	896	5:
Ishikawa	2,848	711	722	831	5
Yamatsuri	1,010	287	236	315	1′
Asakawa	1,340	340	379	372	24
Hirata	1,209	330	298	342	23
Tanagura	2,988	867	744	882	49
Hanawa	1,662	415	391	531	32
Samegawa	694	178	172	186	1:
Ono	1,936	496	490	568	3
Tamakawa Furudono	1,332	384 287	347 242	369	23
Hinoemata	1,040	287	30	315	
Minami-aizu	2,823	713	682	841	5
Kaneyama	2,823	40	52	72	
Showa	128	44	38	33	
Mishima	192	43	55	53	
Shimogo	1,007	265	252	293	19
Kitakata	8,910	2,293	2,334	2,578	1,7
Nishiaizu	1,019	216	245	334	22
Tadami	710	195	177	201	1:
Inawashiro	2,662	704	659	768	5
Bandai	617	180	163	166	1
Kitashiobara	557	159	140	156	1
Aizumisato	3,658	916	909	1,098	7
Aizubange	3,081	766	800	958	5
Yanaizu	590	158	142	175	1
Aizuwakamatsu	22,987	6,261	5,965	6,578	4,1
Yugawa	676	179	177	192	12
Subtotal	158,784	43,389	41,129	45,448	28,8
	367,687	102,448	95,997	103,663	

Because of the duplication of the participants, some numbers are not consistent with the previous ones.

Thyroid Ultrasound Examination (TUE) coverage by municipality

Screening coverage by municipality in FY 2011 (13 municipalities in the nationally designated zones)

As of 31 December 2014

	Target	Parti	cipants	Proportion						Participants	Proportion
	Population		Screened outside Fukushima	(%)	Number and	l proportion of j	participants by a	age group		living outside Fukushima	(%)
	а	b	5)	b/a	0-5	6-10	11-15	16-18		C 4)	c/b
					560	612	687	362	1)		
Kawamata	2,394	2,221	34	92.8	95.2	97.0	95.5	79.4	2)	125	5.6
					25.2	27.6	30.9	16.3	3)		
					920	858	918	553			
Namie	3,643	3,249	192	89.2	89.9	93.3	89.0	82.7		1,194	36.7
					28.3	26.4	28.3	17.0			
				-	248	271	264	160			
Iitate	1,084	943	16	87.0	88.3	90.3	87.7	79.2		88	9.3
					26.3	28.7	28.0	17.0			
					3,205	3,052	2,929	1,603			
Minami-soma	12,526	10,789	875	86.1	86.7	89.3	88.8	75.8		2,877	26.7
					29.7	28.3	27.1	14.9			
					2,573	2,977	3,287	1,768			
Date	11,400	10,605	155	93.0	93.4	98.5	96.6	79.6		579	5.5
					24.3	28.1	31.0	16.7			
					1,557	1,762	1,969	1,037			
Tamura	7,068	6,325	61	89.5	89.6	97.5	95.0	71.5		221	3.5
					24.6	27.9	31.1	16.4			
					204	216	294	124			
Hirono	1,077	838	57	77.8	79.1	86.4	84.5	56.1		151	18.0
					24.3	25.8	35.1	14.8			
					285	319	353	196			
Naraha	1,432	1,153	77	80.5	81.2	88.1	85.1	64.5		224	19.4
					24.7	27.7	30.6	17.0			
					594	638	720	350			
Tomioka	2,962	2,302	237	77.7	77.4	86.2	80.3	62.7		632	27.5
					25.8	27.7	31.3	15.2			
					72	92	70	46			
Kawauchi	357	280	22	78.4	80.0	92.9	78.7	58.2		53	18.9
					25.7	32.9	25.0	16.4			
					656	579	529	209			
Okuma	2,385	1,973	183	82.7	83.9	91.3	85.5	59.7		500	25.3
	+ +				33.2	29.3	26.8	10.6			
T . 1	1.005	0.10			289	246	277	137			
Futaba	1,207	949	113	78.6	78.3	82.0	82.2	68.2		423	44.6
					30.5	25.9	29.2	14.4			
17 .		102	2	70 -	43	55	57	28		1.5	
Katsurao	233	183	3	78.5	76.8	88.7	85.1	58.3		15	8.2
	<u> </u>				23.5	30.1	31.1	15.3			
0.14.4.1	47.750	41.010	0.005	07.7	11,206	11,677	12,354	6,573		7.002	1.0
Subtotal	47,768	41,810	2,025	87.5	87.9	93.1	90.9	74.1		7,082	16.9
					26.8	27.9	29.5	15.7			

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

3) Number of participants in the age group/Number of participants.

4) Number of participants currently living outside Fukushima.

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

Because of the duplication of the participants, some numbers are not consistent with the previous ones.

Fractions have been rounded and may not total to100%. Ages are at the time of the disaster.

While some participants who underwent the test at their schools had been categorized according to the municipalities of their schools in the previous

survey, they were categorized into the municipalities they belonged at the time of the disaster.

Screening coverage by municipality in FY 2012

As of 31 December 2014

	Target Population	Partic	ipants Screened	Proportion	Number and	proportion of	participants by	age group	Participants living outside	Proportion (%)
	1 optiation		outside Fukushima						Fukushima	(70)
	а	b	5)	b/a	0-5	6-10	11-15	16-18	C 4)	c/b
					13,370	13,565	13,670	6,702		
Fukushima	53,553	47,307	1,238	88.3	87.7	96.5	91.9	71.6	3,566	7.5
					28.3	28.7	28.9	14.2		
					2,528	2,589	2,672	1,068		
Nihonmatsu	10,256	8,857	174	86.4	90.8	97.8	90.7	56.8	441	5.0
					28.5	29.2	30.2	12.1		
					1,534	1,554	1,506	640		
Motomiya	6,112	5,234	110	85.6	87.2	98.2	89.1	59.4	231	4.4
					29.3	29.7	28.8	12.2		
					447	397	385	144		
Otama	1,617	1,373	18	84.9	92.0	99.5	89.5	47.7	43	3.1
					32.6	28.9	28.0	10.5		
					16,317	16,148	15,492	6,106		
Koriyama	64,383	54,063	2,217	84.0	84.9	95.5	88.5	56.8	3,965	7.3
					30.2	29.9	28.7	11.3		
					494	541	570	269		
Kori	2,065	1,874	34	90.8	93.9	98.9	95.8	67.8	68	3.6
					26.4	28.9	30.4	14.4		
					349	412	464	212		
Kunimi	1,594	1,437	29	90.2	91.6	98.1	95.9	68.6	53	3.7
					24.3	28.7	32.3	14.8		
					285	281	229	83		
Tenei	1,061	878	13	82.8	95.0	98.9	81.8	42.1	31	3.5
					32.5	32.0	26.1	9.5		
					3,083	3,193	3,242	1,293		
Shirakawa	12,161	10,811	296	88.9	91.8	98.0	93.2	62.5	603	5.6
					28.5	29.5	30.0	12.0		
					1,089	1,062	1,012	455		
Nishigo	3,977	3,618	83	91.0	95.3	98.2	94.1	67.1	197	5.4
-					30.1	29.4	28.0	12.6		
					339	346	311	161		
Izumizaki	1,289	1,157	14	89.8	96.0	97.5	92.8	65.4	43	3.7
					29.3	29.9	26.9	13.9		
					696	760	859	415		
Miharu	3,067	2,730	40	89.0	92.8	97.9	92.3	68.0	105	3.8
					25.5	27.8	31.5	15.2		
					40,531	40,848	40,412	17,548		
Subtotal	161,135	139,339	4,266	86.5	87.5	96.5	90.6	62.9	9,346	6.7
	,	, /	, ,,		29.1	29.3	29.0	12.6	- ,	

		Particip	oants	- ·					Participants	
	Target Population		Screened outside Fukushima	Proportion (%)	Number and	d proportion gro			living outside Fukushima	Proportion (%)
	а	b	5)	b/a	0-5	6-10	11-15	16-18	C 4)	c/b
					14,194	15,478	14,129	5,009		
Iwaki*	62,289	48,810	1,640	78.4	82.4	95.7	79.6	45.0	2,184	4.
					29.1	31.7	28.9	10.3		
					3,748	3,978	3,270	1,022		
Sukagawa	15,309	12,018	259	78.5	86.3	97.1	76.8	39.1	334	2.
					31.2	33.1	27.2	8.5		
a	6.010				1,660	1,656	1,324	448	220	
Soma	6,813	5,088	226	74.7	83.8	93.1	71.6	37.2	339	6.
	-				32.6	32.5	26.0	8.8		
					636	685	542	158		-
Kagamiishi	2,597	2,021	33	77.8	85.9	96.9	75.0	37.0	42	2.
					31.5	33.9	26.8	7.8		
					342	377	302	93		
Shinchi	1,434	1,114	64	77.7	87.2	95.7	73.5	39.2	52	4.
					30.7	33.8	27.1	8.3		
					230	273	267	60		
Nakajima	1,079	830	9	76.9	85.2	96.8	84.2	28.6	13	1.
					27.7	32.9	32.2	7.2		
					880	828	681	166		
Yabuki	3,277	2,555	55	78.0	89.7	97.4	76.0	30.2	56	2.
					34.4	32.4	26.7	6.5		
					662	688	614	181		
Ishikawa	2,848	2,145	54	75.3	93.1	95.3	73.9	31.0	51	2.
					30.9	32.1	28.6	8.4		
					269	233	237	54		
Yamatsuri	1,010	793	17	78.5	93.7	98.7	75.2	31.4	19	2.
					33.9	29.4	29.9	6.8		
					320	374	303	92		
Asakawa	1,340	1,089	25	81.3	94.1	98.7	81.5	36.9	27	2.
					29.4	34.3	27.8	8.4		
					280	284	231	69		
Hirata	1,209	864	14	71.5	84.8	95.3	67.5	28.9	10	1.
					32.4	32.9	26.7	8.0		
					768	730	652	164		
Tanagura	2,988	2,314	41	77.4	88.6	98.1	73.9	33.1	54	2.
	-				33.2	31.5	28.2	7.1		
					373	382	388	103		
Hanawa	1,662	1,246	26	75.0	89.9	97.7	73.1	31.7	26	2.
	-				29.9	30.7	31.1	8.3		
					175	170	136	40		
Samegawa	694	521	14	75.1	98.3	98.8	73.1	25.3	17	3
	-				33.6	32.6	26.1	7.7		
					421	469	419	124		
Ono	1,936	1,433	35	74.0	84.9	95.7	73.8	32.5	30	2
	_				29.4	32.7	29.2	8.7		
					344	341	255	71		
Tamakawa	1,332	1,011	13	75.9	89.6	98.3	69.1	30.6	14	1
	<u> </u>				34.0	33.7	25.2	7.0		
					269	239	241	67		
Furudono	1,040	816	24	78.5	93.7	98.8	76.5	34.2	25	3
					33.0	29.3	29.5	8.2	1	

*Including districts of FY 2012

	Target	Partici		Proportion	Number and	1 proportion	of participa	nts by age	Participants	Proportion
	Population		Screened outside Fukushima	(%)		gro			living outside Fukushima	(%)
	а	b	5)	b/a	0-5	6-10	11-15	16-18	C 4)	c/b
					15	27	19	0		
Hinoemata	107	61	3	57.0	65.2	90.0	55.9	0.0	3	4
					24.6	44.3	31.1	0.0		
					610	641	464	107		
Minami-aizu	2,823	1,822	22	64.5	85.6	94.0	55.2	18.2	32	1
					33.5	35.2	25.5	5.9		
					34	50	47	6		
Kaneyama	203	137	7	67.5	85.0	96.2	65.3	15.4	6	4
					24.8	36.5	34.3	4.4		
					37	38	25	1		
Showa	128	101	0	78.9	84.1	100.0	75.8	7.7	4	4
bilo il u	120	101	0	1017	36.6	37.6	24.8	1.0		
					29	54	37	9		
Mishima	192	129	1	67.2		98.2	69.8	22.0	0	(
wiisiiiiia	192	129	1	07.2	67.4				0	,
					22.5	41.9	28.7	7.0		
					244	233	179	38		
Shimogo	1,007	694	13	68.9	92.1	92.5	61.1	19.3	15	-
					35.2	33.6	25.8	5.5		
					1,636	2,232	1,495	377		
Kitakata	8,910	5,740	69	64.4	71.3	95.6	58.0	22.1	85	
					28.5	38.9	26.0	6.6		
					203	238	172	27		
Nishiaizu	1,019	640	4	62.8	******	97.1	51.5	12.1	6	(
	,				31.7	37.2	26.9	4.2		
					161	169	147	17		
Tadami	710	494	4	69.6	82.6	95.5	73.1	12.4	4	(
1 adaini	/10	4/4	-	07.0	******	34.2		3.4	+	,
					32.6		29.8			
T	2.00	1 000	24	71 7	614	643	505	146	(2)	
Inawashiro	2,662	1,908	34	71.7	87.2	97.6	65.8	27.5	63	:
					32.2	33.7	26.5	7.7		
					133	159	94	28		
Bandai	617	414	9	67.1	73.9	97.5	56.6	25.9	11	
					32.1	38.4	22.7	6.8		
					144	137	96	11		
Kitashiobara	557	388	9	69.7	90.6	97.9	61.5	10.8	8	
					37.1	35.3	24.7	2.8		
					827	873	686	165		
Aizumisato	3,658	2,551	25	69.7	90.3	96.0	62.5	22.4	39	
					32.4	34.2	26.9	6.5		
					614	752	577	139		
Aizubange	3,081	2,082	29	67.6	80.2	94.0	60.2	25.0	33	
2					29.5	36.1	27.7	6.7		
					127	129	103	17		
Yanaizu	590	376	3	63.7	80.4	90.8	58.9	14.8	3	(
	570	570		35.7	33.8	34.3	27.4	4.5	5	·
					4,169	5,640	4,040	866		
Aizuwakamatsu	22,987	14,715	323	64.0					402	
Aizuwakamatsu	22,987	14,713	323	04.0		94.6	61.4	20.7	402	
	├ ───┤				28.3	38.3	27.5	5.9		
••			_		166	177	128	37	_	
Yugawa	676	508	7	75.1	92.7	100.0	66.7	28.9	8	
	ļ				32.7	34.8	25.2	7.3		
					35,334	39,377	32,805	9,912		
Subtotal	158,784	117,428	3,111	74.0	81.4	95.7	72.2	34.4	4,015	:
			1		30.1	33.5	27.9	8.4		

					87,071	91,902	85,571	34,033		
Total	367,687	298,577	9,402	81.2	85.0	95.7	82.5	51.9	20,443	6.8
					29.2	30.8	28.7	11.4		

Appendix 3 Thyroid Ultrasound Examination (TUE) coverage by prefecture

Prefecture	Number of test venues	Participants	Prefecture	Number of test venues	Participants	Prefecture	Number of test venues	Participants
Hokkaido	4	334	Fukui	1	22	Hiroshima	1	37
Aomori	1	162	Yamanashi	1	82	Yamaguchi	1	24
Iwate	3	187	Nagano	2	132	Tokushima	1	10
Miyagi	2	1,522	Gifu	1	43	Kagawa	1	29
Akita	1	208	Shizuoka	2	110	Ehime	1	23
Yamagata	3	455	Aichi	3	179	Kōchi	1	14
Ibaraki	4	446	Mie	1	38	Fukuoka	2	81
Tochigi	5	452	Shiga	1	20	Saga	1	7
Gunma	1	185	Kyōto	3	97	Nagasaki	2	25
Saitama	1	249	Ōsaka	6	210	Kumamoto	1	25
Chiba	3	282	Hyōgo	1	135	Ōita	1	35
Tōkyō	12	1,768	Nara	1	25	Miyazaki	1	35
Kanagawa	4	750	Wakayama	1	13	Kagoshima	1	31
Niigata	1	616	Tottori	1	15	Okinawa	1	117
Toyama	1	34	Shimane	1	13			
Ishikawa	1	45	Okayama	3	80	Total	92	9,402

As of 30 November 2014

Participants underwent testing at venues outside Fukushima carried out either by Fukushima Medical University staff (twice in Niigata and Kanagawa respectively, and three times in Yamagata) or by local specialists.

Primary test results in F		nicipalities in the	•	· ·)				As of 31 De	cember 2014
		Number confirmed		Number by	test results		Nod	ules	Су	ete
	Participants	b		Proport	ion (%)		Nou	ules	Cy	313
	-		A				Proport	ion (%)	Proport	ion (%)
	a	Proportion (%) b/a (%)	A1	A2	В	С	<u>></u> 5.1mm	<u><</u> 5.0mm	<u>></u> 20.1mm	<u><</u> 20.0mm
Kawamata	2,221	2,221	1,520	693	8	0	8	17	0	68
itu walikuu	2,221	100.0	68.4	31.2	0.4	0.0	0.4	0.8	0.0	30.7
Namie	3,249	3,249	2,119	1,104	26	0	26	42	0	1,08
Tunne	5,219	100.0	65.2	34.0	0.8	0.0	0.8	1.3	0.0	33.5
litate	943	943	693	244	6	0	6	15	0	233
nute	215	100.0	73.5	25.9	0.6	0.0	0.6	1.6	0.0	24.7
Minami-soma	10,789	10,789	6,789	3,948	52	0	52	87	0	3,905
William Sona	10,709	100.0	62.9	36.6	0.5	0.0	0.5	0.8	0.0	36.2
Date	10,605	10,605	6,748	3,807	50	0	48	31	1	3,808
Date	10,005	100.0	63.6	35.9	0.5	0.0	0.5	0.3	0.0	35.9
Tamura	6,325	6,325	4,000	2,293	32	0	32	11	0	2,299
1 annui a	0,323	100.0	63.2	36.3	0.5	0.0	0.5	0.2	0.0	36.3
Hirono	838	838	521	312	5	0	5	3	0	313
ппоно	030	100.0	62.2	37.2	0.6	0.0	0.6	0.4	0.0	37.4
Naraha	1,153	1,153	651	495	7	0	7	4	0	49
Indialla	1,155	100.0	56.5	42.9	0.6	0.0	0.6	0.3	0.0	43.2
Tomioka	2,302	2,302	1,350	939	13	0	13	8	0	939
Гоппока	2,302	100.0	58.6	40.8	0.6	0.0	0.6	0.3	0.0	40.8
Kawauchi	290	280	156	120	4	0	4	1	0	12
Kawauchi	280	100.0	55.7	42.9	1.4	0.0	1.4	0.4	0.0	42.9
Okuma	1.072	1,973	1,140	819	14	0	14	7	0	81
Okuma	1,973	100.0	57.8	41.5	0.7	0.0	0.7	0.4	0.0	41.4
Eastala a	0.40	949	570	376	3	0	3	3	0	37:
Futaba	949	100.0	60.1	39.6	0.3	0.0	0.3	0.3	0.0	39.:
V. A	100	183	116	66	1	0	1	3	0	6
Katsurao	183	100.0	63.4	36.1	0.5	0.0	0.5	1.6	0.0	35.:
Subtotal	41.010	41,810	26,373	15,216	221	0	219	232	1	15,14
Subtotal	41,810	100.0	63.1	36.4	0.5	0.0	0.5	0.6	0.0	36.2

Thyroid Ultrasound Examination (TUE) results by municipality Primary test results in FY 2011 (13 municipalities in the nationally designated zones)

Fractions are rounded and may not total to 100%.

Because of the duplication of the participants, some numbers are not consistent with the previous ones.

Fractions have been rounded and may not total to100%. Ages are at the time of the disaster.

While some participants who underwent the test at their schools had been categorized according to the municipalities of their schools in the previous

survey, they were categorized into the municipalities they belonged at the time of the disaster.

Primary test results in FY 2012

As of 31 December 2014

		Number confirmed		Number by	test results		Nod	uloc	C.	rsts
	Participants	b		Proport	ion (%)		Nou	ules	Cy	515
	-		A	1			Proport	ion (%)	Proport	ion (%)
	а	Proportion (%) b/a (%)	A1	A2	В	С	<u>≥</u> 5.1mm	<u><</u> 5.0mm	<u>></u> 20.1mm	<u><</u> 20.0mm
Fukushima	47,307	47,307	26,962	20,062	283	0	276	196	3	20,079
Гикизніпна	47,307	100.0	57.0	42.4	0.6	0.0	0.6	0.4	0.0	42.4
Nihonmatsu	8,857	8,857	5,198	3,602	56	1	56	46	1	3,605
Minofilliatsu	8,837	100.0	58.7	40.7	0.6	0.0	0.6	0.5	0.0	40.7
Motomiya	5,234	5,234	2,955	2,250	29	0	27	25	1	2,254
Wotoniiya	5,254	100.0	56.5	43.0	0.6	0.0	0.5	0.5	0.0	43.1
Otama	1,373	1,373	816	550	7	0	7	8	0	550
Otallia	1,575	100.0	59.4	40.1	0.5	0.0	0.5	0.6	0.0	40.1
Koriyama	54,063	54,041	27,915	25,668	458	0	454	332	3	25,751
Konyania	54,005	100.0	51.7	47.5	0.8	0.0	0.8	0.6	0.0	47.7
Kori	1,874	1,874	1,025	835	14	0	14	9	0	836
KOII	1,0/4	100.0	54.7	44.6	0.7	0.0	0.7	0.5	0.0	44.6
Kunimi	1,437	1,437	763	659	15	0	14	9	1	663
Kuiimi	1,437	100.0	53.1	45.9	1.0	0.0	1.0	0.6	0.1	46.1
Tenei	878	878	528	343	7	0	7	4	0	348
Tener	878	100.0	60.1	39.1	0.8	0.0	0.8	0.5	0.0	39.6
Shirakawa	10,811	10,811	6,111	4,639	61	0	61	54	0	4,636
Shinakawa	10,811	100.0	56.5	42.9	0.6	0.0	0.6	0.5	0.0	42.9
Nishigo	3,618	3,618	2,085	1,503	30	0	30	21	0	1,503
Nisiigo	5,018	100.0	57.6	41.5	0.8	0.0	0.8	0.6	0.0	41.5
Izumizaki	1,157	1,157	524	628	5	0	5	11	0	624
IZUITIIZAKI	1,137	100.0	45.3	54.3	0.4	0.0	0.4	1.0	0.0	53.9
Miharu	2,730	2,730	1,301	1,407	22	0	22	15	0	1,410
IVIIIIai u	2,730	100.0	47.7	51.5	0.8	0.0	0.8	0.5	0.0	51.6
Subtotal	139,339	139,317	76,183	62,146	987	1	973	730	9	62,259
Subtotal	139,339	100.0	54.7	44.6	0.7	0.0	0.7	0.5	0.0	44.7

Primary test results in F	1 2013								As of 31 De	centiber 2014
		Number confirmed		Number by	test results		Nod	ules	Су	sts
	Participants	<u>b</u>		Proport	ion (%)					
		Proportion (%)	A	1	В	С	Proport	ion (%)	Proport	ion (%)
	а	b/a (%)	A1	A2	Б	C	<u>></u> 5.1mm	<u><</u> 5.0mm	≥20.1mm	<u><</u> 20.0mm
Iwaki*	48,810	48,152	21,221	26,495	436	0	435	282	1	26,603
Iwaki	40,010	98.7	44.1	55.0	0.9	0.0	0.9	0.6	0.0	55.2
Sukagawa	12,018	11,777	5,368	6,306	103	0	103	51	0	6,341
Sukagawa	12,010	98.0	45.6	53.5	0.9	0.0	0.9	0.4	0.0	53.8
Soma	5,088	5,083	2,415	2,622	46	0	46	45	0	2,633
Soma	5,088	99.9	47.5	51.6	0.9	0.0	0.9	0.9	0.0	51.8
Kagamiishi	2,021	1,954	922	1,022	10	0	10	8	0	1,023
Kagaminsm	2,021	96.7	47.2	52.3	0.5	0.0	0.5	0.4	0.0	52.4
Chinahi	1 114	1,110	505	598	7	0	7	5	0	602
Shinchi	1,114	99.6	45.5	53.9	0.6	0.0	0.6	0.5	0.0	54.2
Nalmima	820	801	377	422	2	0	2	8	0	420
Nakajima	830	96.5	47.1	52.7	0.2	0.0	0.2	1.0	0.0	52.4
Valada	2.555	2,462	1,047	1,398	17	0	17	8	0	1,406
Yabuki	2,555	96.4	42.5	56.8	0.7	0.0	0.7	0.3	0.0	57.1
T 1 '1	0.145	2,084	953	1,120	11	0	11	15	0	1,120
Ishikawa	2,145	97.2	45.7	53.7	0.5	0.0	0.5	0.7	0.0	53.7
N/	502	785	320	462	3	0	3	4	0	459
Yamatsuri	793	99.0	40.8	58.9	0.4	0.0	0.4	0.5	0.0	58.5
A 1	1.090	1,070	461	597	12	0	12	10	0	603
Asakawa	1,089	98.3	43.1	55.8	1.1	0.0	1.1	0.9	0.0	56.4
TT (0.64	831	376	446	9	0	9	2	0	452
Hirata	864	96.2	45.2	53.7	1.1	0.0	1.1	0.2	0.0	54.4
T	2.214	2,269	1,001	1,246	22	0	22	11	0	1,254
Tanagura	2,314	98.1	44.1	54.9	1.0	0.0	1.0	0.5	0.0	55.3
11	1.246	1,220	497	715	8	0	8	9	0	718
Hanawa	1,246	97.9	40.7	58.6	0.7	0.0	0.7	0.7	0.0	58.9
0	501	508	237	268	3	0	3	4	0	268
Samegawa	521	97.5	46.7	52.8	0.6	0.0	0.6	0.8	0.0	52.8
0	1.400	1,355	526	815	14	0	14	13	0	817
Ono	1,433	94.6	38.8	60.1	1.0	0.0	1.0	1.0	0.0	60.3
T. 1	1.014	988	440	538	10	0	10	6	0	542
Tamakawa	1,011	97.7	44.5	54.5	1.0	0.0	1.0	0.6	0.0	54.9
Fumidono	017	793	383	404	6	0	6	5	0	408
Furudono	816	97.2	48.3	50.9	0.8	0.0	0.8	0.6	0.0	51.5

Primary test results in FY 2013

As of 31 December 2014

* Including districts of FY 2012

Primary test results in FY 2013

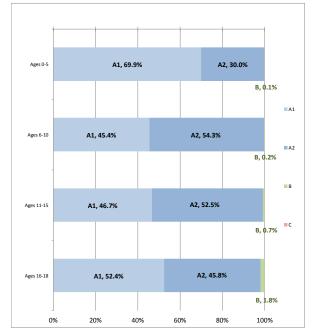
As of 31 October 2014

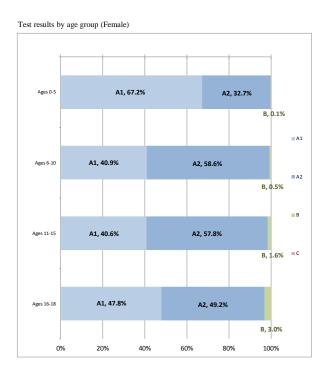
	1 2015									
		Number		Number by	test results					
	D	confirmed b		Proporti	on (%)		Nod	ules	Су	sts
	Participants		A	1			Proport	ion (%)	Proport	ion (%)
	а	Proportion(%) b/a(%)	A1	A2	В	С	<u>></u> 5.1mm	<u><</u> 5.0mm	<u>></u> 20.1mm	
	u	61	25	36	0	0	0	3	0	
Hinoemata	61	100.0	41.0	59.0	0.0	0.0	0.0	4.9	0.0	
		1,812	741	1,055	16	0	16	13	0	1,0
Minami-aizu	1,822	99.5	40.9	58.2	0.9	0.0	0.9	0.7	0.0	58
		137	64	73	0	0	0	1	0	
Kaneyama	137	100.0	46.7	53.3	0.0	0.0	0.0	0.7	0.0	53
		101	56	45	0	0	0	0	0	
Showa	101	100.0	55.4	44.6	0.0	0.0	0.0	0.0	0.0	44
	100	129	38	90	1	0	1	0	0	
Mishima	129	100.0	29.5	69.8	0.8	0.0	0.8	0.0	0.0	70
GI :	(04	691	318	363	10	0	10	4	0	3
Shimogo	694	99.6	46.0	52.5	1.4	0.0	1.4	0.6	0.0	53
Kit-last-	5 740	5,728	2,277	3,405	46	0	46	42	0	3,4
Kitakata	5,740	99.8	39.8	59.4	0.8	0.0	0.8	0.7	0.0	59
Nishiaizu	640	640	245	390	5	0	5	5	0	3
INISHIAIZU	040	100.0	38.3	60.9	0.8	0.0	0.8	0.8	0.0	6
Tadami	494	494	202	285	7	0	7	3	0	2
Tauann	494	100.0	40.9	57.7	1.4	0.0	1.4	0.6	0.0	58
Inawashiro	1,908	1,882	782	1,087	13	0	13	13	0	1,0
Inawashiro	1,900	98.6	41.6	57.8	0.7	0.0	0.7	0.7	0.0	57
Bandai	414	414	168	242	4	0	4	2	0	2
Dandar	414	100.0	40.6	58.5	1.0	0.0	1.0	0.5	0.0	58
Kitashiobara	388	383	160	222	1	0	1	3	0	2
Kitashiobara	500	98.7	41.8	58.0	0.3	0.0	0.3	0.8	0.0	58
Aizumisato	2,551	2,551	1,061	1,464	26	0	26	17	0	1,4
Aizumisato	2,551	100.0	41.6	57.4	1.0	0.0	1.0	0.7	0.0	57
Aizubange	2,082	2,081	843	1,213	25	0	25	9	0	1,2
Alzubalige	2,082	100.0	40.5	58.3	1.2	0.0	1.2	0.4	0.0	58
Yanaizu	376	376	178	196	2	0	2	0	0	1
Tanaizu	570	100.0	47.3	52.1	0.5	0.0	0.5	0.0	0.0	52
A :	14 715	14,690	6,068	8,462	160	0	159	115	1	8,5
Aizuwakamatsu	14,715	99.8	41.3	57.6	1.1	0.0	1.1	0.8	0.0	57
	500	507	186	314	7	0	7	2	0	3
Yugawa	508	99.8	36.7	61.9	1.4	0.0	1.4	0.4	0.0	62
Subtatal	117 400	115,919	50,461	64,416	1,042	0	1,040	718	2	64,7
Subtotal	117,428	98.7	43.5	55.6	0.9	0.0	0.9	0.6	0.0	55
Total	298,577	297,046	153,017	141,778	2,250	1	2,232	1,680	12	142,1
i otal	298,577	99.5	51.5	47.7	0.8	0.0	0.8	0.6	0.0	47

1. Thyroid Ultrasound Examination results by age and sex

	As of 31 December 2014														
	Α						В			С			Total		
	A1				A2										
Ages	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
0-5	31,054	28,323	59,377	13,339	13,791	27,130	41	57	98	0	0	0	44,434	42,171	86,605
6-10	21,420	18,303	39,723	25,594	26,192	51,786	116	236	352	0	0	0	47,130	44,731	91,861
11-15	19,965	17,128	37,093	22,440	24,371	46,811	319	655	974	0	0	0	42,724	42,154	84,878
16-18	8,212	8,612	16,824	7,179	8,872	16,051	282	544	826	0	1	1	15,673	18,029	33,702
Total	80,651	72,366	153,017	68,552	73,226	141,778	758	1,492	2,250	0	1	1	149,961	147,085	297,046

Test results by age group (Male)





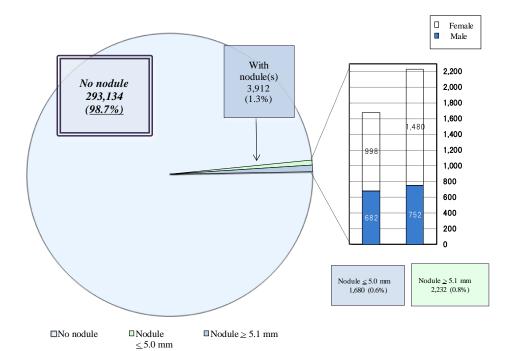
Percentages have been rounded and may not total to 100%.

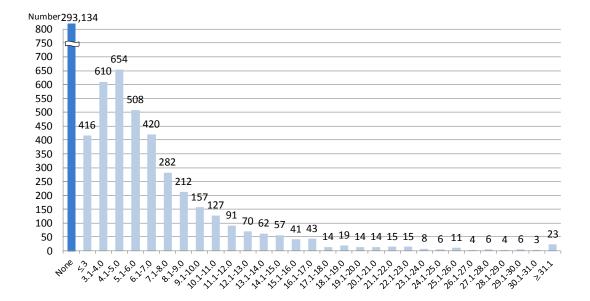
Ages are at the time of the disaster.

2. Nodule size

As of 31 December 2014

Nodule size	Total			Test result	Proportion	
Nodule size	Total	Male	Female	restresult		
None	293,134	148,527 144,607		A1	98.7%	
<u><</u> 3.0 mm	416	188 228		A2	0.6%	
3.1-5.0 mm	1,264	494	770	AZ	0.0%	
5.1-10.0 mm	1,579	565	1,014			
10.1-15.0 mm	407	115	292			
15.1-20.0 mm	131	39	92	В	0.8%	
20.1-25.0 mm	58	17	41			
<u>></u> 25.1 mm	57	16	41			
Total	297,046	149,961	147,085			

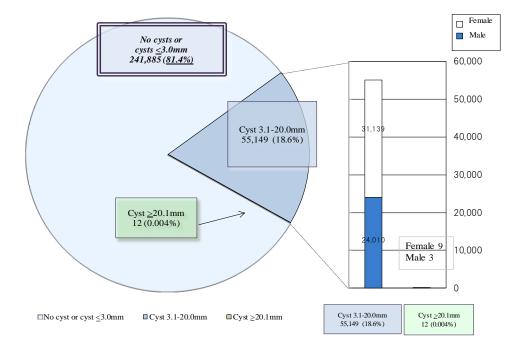


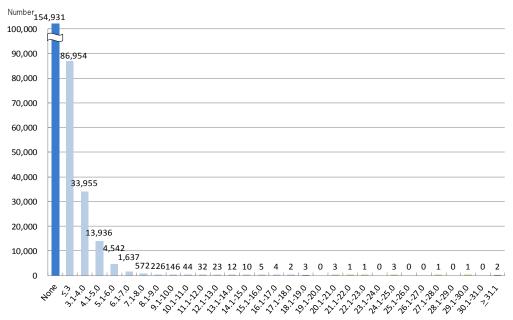


3. Cyst size

As of 31 December 2014

Cyst size	Total			Class	%	
Cyst size	Total	Male	Female	Class	70	
None	154,931	81,389	73,542	A1	81.4%	
≤ 3.0 mm	86,954	44,559	42,395		01.4%	
3.1-5.0 mm	47,891	21,444	26,447			
5.1-10.0 mm	7,123	2,524	4,599	A2	19.00	
10.1-15.0 mm	121	41	80		18.6%	
15.1-20.0 mm	14	1	13			
20.1-25.0 mm	8	1	7	D	0.0040	
<u>></u> 25.1 mm	4	2	2	В	0.004%	
Total	297,046	149,961	147,085			





Confirmatory test re	esults by mur	ncipality	N. 1			As of 31 December 2014 Number of confirmed results							
	Number of	Number who	Number of	children who	underwent co	confirmatory test by age			Number	or confirmed	Follow-up advised		
	children screened	required confirmatory test	Total	Ages 0-5	Ages 6-10	Ages 11-15	Ages 16-18	Total	Next screening advised			Aspiration biopsy cytology	
	а	b	с	d	e	f	g	h	Al i	A2 j	k	1	
		Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	
arget municipalities for	Confirmatory tes	st in FY 2011	. ,				, /		. ,		. /	. ,	
Kawamata	2,221	8	8	0	1	3	4	7	1	0	6	ŝ	
i ku wu ii ku u	2,221	0.4 26	100.0	0.0	12.5	37.5 8	50.0 12	87.5 23	14.3	0.0	85.7 18	83.3	
Namie	3,249	0.8	92.3	4.2	12.5	33.3	50.0	95.8	4.3	17.4	78.3	66.7	
litate	943	6	6	0	2	1	3	6	0	3	3		
nute	2.0	0.6	100.0	0.0	33.3	16.7	50.0	100.0	0.0	50.0	50.0	100.0	
Minami-soma	10,789	52 0.5	48 92.3	6 12.5	5 10.4	16 33.3	21 43.8	48 100.0	4 8.3	11 22.9	33 68.8	19 57.0	
Date	10,605	50	45	0	3	16	26	45	4	8	33	23	
Date	10,005	0.5	90.0	0.0	6.7	35.6	57.8	100.0	8.9	17.8	73.3	69.7	
Tamura	6,325	32 0.5	26 81.3	1 3.8	3 11.5	12 46.2	10 38.5	26 100.0	0.0	5 19.2	21 80.8	14 66.7	
		5	4	0	11.5	40.2	2	4	1	2	1	(
Hirono	838	0.6	80.0	0.0	25.0	25.0	50.0	100.0	25.0	50.0	25.0	0.0	
Naraha	1,153	7	6	1	0	1	4	6	0	2	4	2	
		0.6	85.7	16.7	0.0	<u>16.7</u> 5	66.7 6	100.0	0.0	33.3	66.7 10	50.0	
Tomioka	2,302	0.6	92.3	0.0	8.3	41.7	50.0	100.0	0.0	16.7	83.3	70.0	
Kawauchi	280	4	4	0	1	0	3	4	0	1	3	2	
Kawadehi	200	1.4	100.0	0.0	25.0	0.0	75.0	100.0	0.0	25.0	75.0	66.7	
Okuma	1,973	14 0.7	13 92.9	1 7.7	1 7.7	6 46.2	5 38.5	13 100.0	1	5 38.5	7 53.8	28.6	
E (I	0.40	3	2	0	0	40.2	1	2	0	0	2	20.0	
Futaba	949	0.3	66.7	0.0	0.0	50.0	50.0	100.0	0.0	0.0	100.0	100.0	
Katsurao	183	1	1	0	1	0	0	1	0	1	0.0	0.0	
		0.5	100.0	0.0	100.0 22	0.0 70	0.0	100.0 197	0.0	100.0 44	141	91	
Subtotal	41,810	0.5	90.0	5.0	11.1	35.2	48.7	99.0	6.1	22.3	71.6	64.5	
arget municipalities for	Confirmatory tes												
Fukushima	47,307	283 0.6	271 95.8	6 2.2	28 10.3	106 39.1	131 48.3	265 97.8	12 4.5	68 25.7	185 69.8	94 50.8	
N71		57	93.8 54	0	5	27	48.3	53	4.5	23.7	43	24	
Nihonmatsu	8,857	0.6	94.7	0.0	9.3	50.0	40.7	98.1	5.7	13.2	81.1	55.8	
Motomiya	5,234	29	29	1	4	14	10	28	0	9	19	7	
		0.6	100.0	3.4	13.8	48.3	34.5	96.6	0.0	32.1	67.9 6	36.8	
Otama	1,373	0.5	100.0	0.0	0.0	4 57.1	42.9	100.0	0.0	14.3	85.7	66.7	
Koriyama	54,063	458	415	21	65	172	157	403	24	127	252	99	
isoriyania	54,005	0.8	90.6	5.1	15.7	41.4	37.8	97.1	6.0	31.5	62.5	39.3	
Kori	1,874	14 0.7	13 92.9	1 7.7	2 15.4	3 23.1	7 53.8	13 100.0	0.0	2 15.4	11 84.6	27.3	
V	1.427	15	13	2	2	23.1	55.8	13	1	2	10	4	
Kunimi	1,437	1.0	86.7	15.4	15.4	15.4	53.8	100.0	7.7	15.4	76.9	40.0	
Tenei	878	7	6	1	2	1	2	6	1	2	3	(
		0.8	85.7	16.7	33.3 10	16.7 27	33.3 20	100.0	16.7	33.3 14	50.0 39	0.0	
Shirakawa	10,811	0.6		3.4	16.9	45.8	33.9	100.0	10.2	23.7	66.1	38.5	
Nishigo	3,618	30	26	2	6	9	9	26	2	8	16	4	
1151020	5,010	0.8	86.7	7.7	23.1	34.6	34.6	100.0	7.7	30.8	61.5	31.	
Izumizaki	1,157	5 0.4	5 100.0	0.0	2 40.0	0.0	3 60.0	5 100.0	1 20.0	2 40.0	2 40.0	50.0	
M:1-	0.700	22	21	0.0	40.0	11	9	21	4	40.0	40.0	50.	
Miharu	2,730	0.8	95.5	0.0	4.8	52.4	42.9	100.0	19.0	19.0	61.9	46.2	
		988	919	36	127	376	380	899	54	246	599	262	

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 of the disaster.

While some participants who underwent the test at their schools had been categorized according to the municipalities of their schools in the previous survey, they were categorized into the municipalities they belonged at the time of the disaster.

onfirmatory test re	sults by mur	nicipality			As of 31 December 2014 Number of confirmed results							
	Number of	Number who	Number of	children who	underwent co	onfirmatory te	st by age	l r	Number	of confirmed r	esults Follow-u	advised
	children screened	required confirmatory test	Total	Ages 0-5	Ages 6-10	Ages 11-15	Ages 16-18	Total	Next screen	ing advised		Aspiration biopsy cytology
	а	b	с	d	e	f	g	h	Al i	A2	k	1
		Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	j Proportion (%)	Proportion (%)	Proportion (%)
arget municipalities for	or Confirmatory	y test in FY 2013 436	3 401	21	59	196	125	390	20	124	246	84
Iwaki*	48,810	0.9	92.0	5.2	14.7	48.9	31.2	97.3	5.1	31.8	63.1	34.1
Sukagawa	12,018	103 0.9	98 95.1	6 6.1	16 16.3	52 53.1	24 24.5	95 96.9	7 7.4	32 33.7	56 58.9	12 21.4
Soma	5,088	46 0.9	42 91.3	3 7.1	9 21.4	19 45.2	11 26.2	41 97.6	3 7.3	16 39.0	22 53.7	6 27.3
Kagamiishi	2,021	10 0.5	8 80.0	0	4 50.0	3	1 12.5	8 100.0	0	1 12.5	7 87.5	1
Shinchi	1,114	0.5 7 0.6	7 100.0	0.0	3 42.9	3 42.9	14.3	6	0.0	0	6	3
Nakajima	830	2 0.2	2 100.0	0	0	1 50.0	1 50.0	2 100.0	0 0.0	0	2 100.0	1 50.0
Yabuki	2,555	17	13	0	2	6	5	12	0	3	9	1
Ishikawa	2,145	0.7	76.5 10	0.0	15.4 4	46.2	38.5 2	92.3 10	0.0	25.0 1	75.0	11.1 5
		0.5	90.9	0.0	40.0	40.0	20.0	100.0	0.0	10.0	90.0	55.6 0
Yamatsuri	793	0.4		0.0	0.0	50.0	50.0		0.0	0.0	100.0	0.0
Asakawa	1,089	1.1	91.7	9.1	9.1	54.5	27.3	100.0	0.0	27.3	72.7	25.0
Hirata	864	9 1.0	<u>9</u> 100.0	0.0	4 44.4	3 33.3	22.2	8 88.9	1 12.5	1 12.5	6 75.0	1 16.7
Tanagura	2,314	22 1.0	22 100.0	2 9.1	5 22.7	9 40.9	6 27.3	20 90.9	2 10.0	2 10.0	16 80.0	6 37.5
Hanawa	1,246	8 0.6	7 87.5	0 0.0	1 14.3	3 42.9	3 42.9	5 71.4	0.0	2 40.0	3 60.0	0 0.0
Samegawa	521	3	1 33.3	0.0	0.0	0.0	1 100.0	1 100.0	0.0	0.0	1 100.0	0.0
Ono	1,433	14 1.0	13 92.9	1	2 15.4	6 46.2	4 30.8	13 100.0	1 7.7	4 30.8	8 61.5	0
Tamakawa	1,011	10	8	1	2	2	3	8	0	2	6	1
Furudono	816	1.0 6	80.0	12.5 0	25.0	25.0	37.5	100.0	0.0	25.0 2	75.0	16.7 1
	61	0.7	100.0	0.0	16.7 0	66.7 0	16.7 0	100.0	0.0	33.3 0	66.7 0	25.0
Hinoemata		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Minami-aizu	1,822	0.9	93.8 0	0.0	46.7 0	46.7	6.7 0	86.7 0	7.7	23.1 0	69.2 0	22.2
Kaneyama	137	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Showa	101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 0.0	0.0	0.0	0.0
Mishima	129	1 0.8	1 100.0	0.0	1 100.0	0.0	0.0	1 100.0	0.0	0.0	1 100.0	0.0
Shimogo	694	10 1.4	9 90.0	0	1 11.1	5 55.6	3 33.3	9 100.0	0 0.0	3 33.3	6 66.7	2 33.3
Kitakata	5,740	46	40	1	11	17	11	40	2	11	27	11
Nishiaizu	640	0.8	87.0	2.5 0	27.5	42.5	27.5	100.0	5.0 0	27.5 0	67.5 2	40.7 0
Tadami	494	0.8	80.0	0.0	50.0	25.0	25.0 0	50.0	0.0	0.0	100.0	0.0
Inawashiro	1,908	1.4 13	85.7 13	0.0	50.0 1	50.0 8	0.0	100.0 13	0.0	33.3 3	66.7 8	25.0
Bandai	414	0.7	100.0	7.7	7.7	61.5 1	23.1	100.0	15.4 1	23.1 0	61.5 2	12.5 0
Kitashiobara	388	1.0	75.0	33.3	0.0	33.3	33.3	100.0	33.3	0.0	66.7	0.0
Aizumisato	2,551	0.3	100.0 23	100.0	0.0	0.0	0.0 7 20.4	100.0 22	0.0	100.0	0.0	0.0
Aizubange	2,082	1.0 25	88.5	0.0	17.4	52.2 9	30.4	95.7 23	9.1	40.9	50.0	27.3
Yanaizu	376	1.2	92.0	13.0 0	17.4 0	39.1 2	30.4	100.0	0.0	17.4	82.6 1	21.1
		0.5	100.0	0.0	0.0	100.0	0.0	100.0 134	0.0	50.0 44	50.0 82	0.0
Aizuwakamatsu	14,715	1.1	88.8	4.2	21.8	54.2	19.7	94.4	6.0	32.8	61.2	25.6
Yugawa	508	7	7 100.0	0.0	1 14.3	3 42.9	3 42.9	7 100.0	1 14.3	0 0.0	6 85.7	1 16.7
Subtotal	117,428	1,042 0.9	949 91.1	48 5.1	179 18.9	463 48.8	259 27.3	914 96.3	51 5.6	274 30.0	589 64.4	170 28.9
	298,577	2,251	2,067	94	328	909	736	2,010	117	564	1,329	523

*Including districts of FY 2012

Thyroid Ultrasound Examination (Full-scale Thyroid Screening Program)

Reported on 12 February 2015

1. Summary

1.1 Purpose

In order to protect the long-term health of children, we are now engaged in a Full-scale Thyroid Screening Program following a preliminary Initial Screening period.

1.2 Group

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

1.3 Implementation Period

The full-scale screening starts from 2 April 2014 and lasts for two years.

We repeat the examination every two years until the age of 20, and every five years afterwards.

1.4 Responsible Organizations

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

As of 31 December 2014, we provide the Primary Examination at 11 medical institutions under contract, and try to have more institutions inside Fukushima Prefecture.

Ninety-two institutions outside Fukushima Prefecture have agreed to cooperate as of 31 December 2014.

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 26 institutions that provide the examination as of 31 December 2014.

1.5 Method

1.5-1 Primary Examination

We used ultrasonography for examination of the thyroid gland.

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

-Diagnostic Criteria: A

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

(A1) No nodules / cysts

(A2) Nodules \leq 5.0 mm or cysts \leq 20.0 mm

-Diagnostic Criteria: B

Those with B test result are advised to take the Confirmatory Examination.

(B) Nodules \geq 5.1 mm or cysts \geq 20.1 mm

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

-Diagnostic Criteria: C

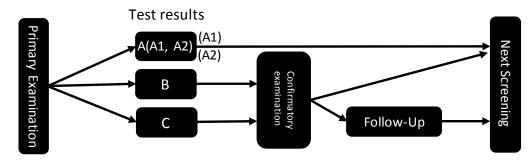
Those with C test result are advised to take the Confirmatory Examination.

(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



1.6 Target Municipalities



25 target municipalities for FY 2014



34 target municipalities for FY 2015



2. Results (As of 31 December 2014)

2.1-1 Primary Examination

The Primary Examination started from 2 April 2014, and the participation rate as of 31 December 2014 is 48.6% (106,068) out of around 220,000 from 25 municipalities. (See Appendix 1 and 2)

The results have been returned to 71.0% (75,311) of the participants. (See Appendix 3)

Those with A1 or A2 test results were 74,700 (99.2%), B were 611 (0.8%), and C was 0.

Table 1. Screening test coverage as of 31 December 2014

		Participants					Test results		
	Target Population	Target Population Proportion (%)		Screened	D		Cla	ass	
		riop	51 (1011 (76)	outside	Proportion (%)	Α		Requiring confirmatory test	
	а	b (b/	a)	Fukushima	c (c/b)	A1 d (d/c)	A2 e (e/c)	B f (f/c)	C g (g/c)
FY 2014	216,203	103,874	(48.0)	5,360	74,847 (72.1)	31,622 (42.2)	42,617 (56.9)	608 (0.8)	0 (0.0)
FY 2015	2,194	2,194	(100.0)	4	464 (21.1)	167 (36.0)	294 (63.4)	3 (0.6)	0 (0.0)
Total	218,397	106,068	(48.6)	5,364	75,311 (71.0)	31,789 (42.2)	42,911 (57.0)	611 (0.8)	0 (0.0)

Table 2. Number and proportion of children with nodules/cysts as of 31 December 2014

	Number of confirmed screening results	Number and proportions of children with nodules/cysts						
		Nod	lules	Су	vsts			
		<u>></u> 5.1mm	<u>≥5.1mm ≤5.0mm ≥2</u>		<u><</u> 20.0mm			
	a	b (b/a)	c (c/a)	d (d/a)	e (e/a)			
FY 2014	74,847	606 (0.8)	472 (0.6)	1 (0.0)	42,813 (57.2)			
FY 2015	464	3 (0.6)	3 (0.6)	0 (0.0)	293 (63.1)			
Total	75,311	609 (0.8)	475 (0.6)	1 (0.0)	43,106 (57.2)			

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

2.1-2 Comparison with the Initial Screening

Among 74,700 participants who were diagnosed as A1 or A2, 69,948 (93.6%) had A1 or A2 results from the Initial Screening. Among 611 participants who were diagnosed as B, 441 (72.2%) had A1 or A2 results from the Initial Screening.

			Number of	Results of the Initial Screening						
			confirmed test results of Full-scale	A				Non-		
			Thyroid Screening	A1	A2	В	С	participants		
		Program (%)	b	с	d	e	f			
			a	b/a (%)	c/a (%)	d/a (%)	e/a (%)	f/a (%)		
		A1	31,789	26,242	2,500	24	0	3,023		
	А		(100.0)	(82.6)	(7.9)	(0.1)	(0.0)	(9.5)		
Desults of	А	A2	42,911	15,349	25,857	90	0	1,615		
Results of the Full-			(100.0)	(35.8)	(60.3)	(0.2)	(0.0)	(3.8)		
scale		В	611	160	281	147	0	23		
Thyroid		Ъ	(100.0)	(26.2)	(46.0)	(24.1)	(0.0)	(3.8)		
Screening		С	0	0	0	0	0	0		
bereening		C	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)		
		Total	75,311	41,751	28,638	261	0	4,661		
		Total	(100.0)	(55.4)	(38.0)	(0.3)	(0.0)	(6.2)		

Table 3. Changes in the results of Initial Screening and Full-scale Thyroid Screening Program as of 31 December 2014

2.1-3 Confirmatory Examination

The number of children who required further testing (started in June 2014) is 611, of whom 377 (61.7%) underwent confirmatory testing. Among them, 262 (69.5%) have completed the tests. (See Appendix 4)

Of 262 participants, 94 (35.9%) with confirmed test results of Confirmatory Examination have been confirmed within the range of A1 and A2, and were advised to take their next regularly scheduled examination.

Those who require 6-12-month follow-up provided by health insurance were 168 (64.1%).

	Number of children requiring	Participants					
	confirmatory	Proportion (%)	Confirmatory test Next screening advised		Follow-u	ıp advised	
	test a	b (b/a)	coverage (%) c (c/b)	A1 d (d/c)	A2 e (e/c)	f (f/c)	Cytology g (g/f)
FY 2014	608	375 (61.7)	261 (69.6)	16 (6.1)	77 (29.5)	168 (64.4)	22 (13.1)
FY 2015	3	2 (66.7)	1 (50.0)	0 (0.0)	1 (100.0)	0 (0.0)	0 (0.0)
Total	611	377 (61.7)	262 (69.5)	16 (6.1)	78 (29.8)	168 (64.1)	22 (13.1)

Table 4. Confirmatory testing coverage and results as of 31 December 2014

Priority was given to those in urgent clinical need.

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 Fine Needle Aspiration Biopsy and Cytology (FNAC)

2.2-1 Aspiration biopsy cytology results

Table 5. Target municipalities in FY 2014

Suspicious or malignant	8 (1 surgical case: 1 of papillary thyroid carcinoma)
Male to female ratio	4:4
Mean age (SD, min-max)	15.6 (3.4, 10-20)
	12.1 (3.4, 6-17) at the time of the disaster
Mean tumor size	10.2 mm (3.9 mm, 6.0-17.3 mm)

2.2-2 Suspicious or malignant cases on FNAC by age and sex

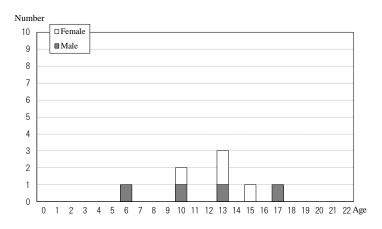


Fig.3 Age as of 11 March 2011

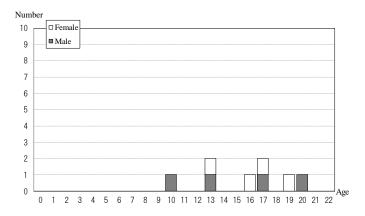


Fig. 4 Age as the date of confirmatory examination

2.2-3 Suspicious or malignant cases on FNAC by estimated radiation dose

Six of the 8 cases (75.0%) participated in the Basic Survey (radiation dose estimates) and have received the results. Among those, 2 had estimated radiation exposure dose below 1 mSv, and the highest effective dose was 2.1 mSv.

Effective dose	Sex		Age at	the time of d	isaster	
(mSv)	SCA	0-5	6-10	11-15	16-18	Total
<0.5	Male	0	0	0	0	0
<0.5	Female	0	0	0	0	0
0.5-0.9	Male	0	1	0	0	1
0.3-0.9	Female	0	0	1	0	1
1014	Male	0	0	1	1	2
1.0-1.4	Female	0	1	0	0	1
1.5-1.9	Male	0	0	0	0	0
1.3-1.9	Female	0	0	0	0	0
2.0-2.4	Male	0	1	0	0	1
2.0-2.4	Female	0	0	0	0	0
Total	Male	0	2	1	1	4
Total	Female	0	1	1	0	2

 Table 6. Estimated external radiation doses for participants of Basic Survey
 As of 31 December 2014

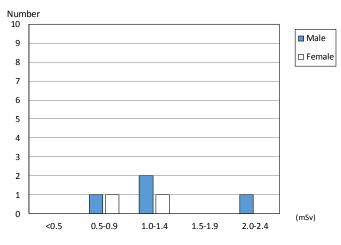


Fig. 5 Effective dose of the respondents

2.2-4 Blood and urinary iodine test results as of 31 December 2014

	FT4 1) (ng/dL)	FT3 2) (pg/mL)	, , , , , , , , , , , , , , , , , , , ,		TgAb 5) (IU/mL)	TPOAb 6) (IU/mL)	
Reference Range	Range 0.95-1.74 2.13-4.07 7)		0.340-3.880	<u><</u> 32.7	<28.0	<16.0	
8 suspicious or malignant	$1.2 \pm 0.1 \ (0.0\%)$	$3.6 \pm 0.5 (0.0\%)$	1.6 <u>+</u> 1.2 (0.0%)	36.7 <u>+</u> 50.5 (25.0%)	- (12.5%)	- (12.5%)	
Other 253	1.2 <u>+</u> 0.2 (7.5%)	3.6 <u>+</u> 0.5 (6.3%)	1.4 <u>+</u> 1.0 (9.1%)	22.8 <u>+</u> 45.4 (11.5%)	- (10.7%)	- (11.1%)	

Table 7. Blood test results Mean±SD (Abnormality rate)

Table 8. Urinary iodine (µg/day)

	Minimum	25th percentile	Median	75th percentile	Maximum
8 suspicious or malignant	61	126.25	165.5	386	690
Other 251	38	120	195	369	11,800

1) FT4: Free Thyroxine; higher among patients with Graves' disease and lower with Hashimoto's disease.

2) FT3: Free Triiodothyronine; higher among patients with Graves' disease and lower with Hashimoto's disease.

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.

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.

2.2-5 Confirmatory test results by municipality as of 31 December 2014

The proportion of suspicious or malignant is 0.01% in FY 2014 target municipalities (13 municipalities in the nationally designated evacuation zones and 12 towns of the Kempoku area), 0.00% in FY 2015 target municipalities (34 towns of the Iwaki, Kennan, and Aizu areas).

	Number of children screened	Number 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	1,675	20	1.2	17	0	0.00	
Namie	1,902	19	1.0	13	1	0.05	
Iitate	693	11	1.6	8	0	0.00	
Minami-soma	7,442	57	0.8	44	0	0.00	
Date	8,725	77	0.9	58	2	0.02	
Tamura	4,604	35	0.8	26	2	0.04	
Hirono	487	7	1.4	7	0	0.00	
Naraha	710	4	0.6	3	0	0.00	
Tomioka	1,278	14	1.1	11	0	0.00	
Kawauchi	162	0	0.0	0	0	0.00	
Okuma	1,261	8	0.6	5	1	0.08	
Futaba	458	2	0.4	0	0	0.00	
Katsurao	100	1	1.0	1	0	0.00	
Fukushima	40,210	308	0.8	171	2	0.00	
Nihonmatsu	7,405	25	0.3	7	0	0.00	
Motomiya	4,411	12	0.3	0	0	0.00	
Otama	1,194	0	0.0	0	0	0.00	
Koriyama	10,106	2	0.0	1	0	0.00	
Kori	1,502	2	0.1	0	0	0.00	
Kunimi	1,126	1	0.1	1	0	0.00	
Tenei	444	0	0.0	0	0	0.00	
Shirakawa	5,431	0	0.0	0	0	0.00	
Nishigo	1,368	0	0.0	0	0	0.00	
Izumizaki	668	0	0.0	0	0	0.00	
Miharu	512	3	0.6	2	0	0.00	
Subtotal	103,874	608	0.6	375	8	0.01	

Table 9. Confirmatory test results in FY 2014

Confirmatory te	Confirmatory test results in FY 2015							
Subtotal	2,194	3	0.1	2	0	0.00		
Total	106,068	611	0.6	377	8	0.01		

FY 2014 is from 1 April 2014 through 31 March 2015.

FY 2015 is from 1 April 2015 through 31 March 2016.

Appendix 1

Thyroid Ultrasound	Examination (TU	E) coverage hy	municipality
Inyiola Ollasouna	Examination (10)	L) coverage by	municipanty

As of 31 December 2014

	Target Population	Partici	Screened	Proportion (%)	Number ar	nd proportion of	participants by	age group	Participa living out Fukushi	side	Proportion (%)
	a	b	outside Fukushima 3)	b/a	2-7	8-12	13-17	18-22	с		c/b
creening coverage	by municipali	ty in FY 2014					L				
Kawamata	2,460	1,675	34	68.1	396	570	586	123		46	2.
Nomio	2 771	1.002	522	50.4	23.6 503	34.0 548	35.0 611	7.3 240	2)	505	21
Namie	3,771	1,902	533	50.4	26.4	28.8	32.1	12.6		595	31
Iitate	1,123	693	26	61.7	166 24.0	259 37.4	232 33.5	36 5.2		29	4
Minami-soma	12,981	7,442	1,406	57.3	1,912 25.7	2,591 34.8	2,306 31.0	633 8.5	1	573	22
Date	11,737	8,725	251	74.3	2,180	2,718	2,942	885		238	2
					25.0	31.2 1,586	33.7 1,619	10.1 371			
Tamura	7,320	4,604	110	62.9	22.3	34.4	35.2	8.1		104	2
Hirono	1,108	487	87	44.0	139 28.5	156 32.0	136 27.9	56 11.5		83	17
Naraha	1,488	710	109	47.7	197	215	216	82		116	16
INdidila	1,400	/10	109	47.7	27.7	30.3	30.4	11.5		. 10	10
Tomioka	3,101	1,278	318	41.2	334 26.1	339 26.5	415 32.5	190 14.9	:	360	28
Kawauchi	360	162	14	45.0	41	57	51	13	-	16	9
	500	102		1010	25.3	35.2	31.5	8.0			
Okuma	2,498	1,261	305	50.5	417 33.1	391 31.0	335 26.6	118 9.4	:	335	26
Futaba	1,258	458	187	36.4	150	141	118	49		200	43
	,				32.8 25	30.8 34	25.8 31	10.7 10		_	
Katsurao	240	100	13	41.7	25.0	34.0	31.0	10.0		12	12
Fukushima	55,730	40,210	1,716	72.2	10,104	12,360 30.7	13,007 32.3	4,739 11.8	2,	128	5
Nihonmatsu	10,595	7,405	147	69.9	1,769	2,409	2,624	603		153	2
					23.9	32.5 1,434	35.4 1,486	8.1 385	-		
Motomiya	6,342	4,411	67	69.6	25.1	32.5	33.7	8.7		74	1
Otama	1,684	1,194	8	70.9	330 27.6	392 32.8	372 31.2	100 8.4		7	0
Koriyama	66,208	10,106	9	15.3	572	335	7,258	1,941		35	0
	,		· · · ·		5.7 341	3.3 493	71.8 542	19.2 126			
Kori	2,136	1,502	14	70.3	22.7	32.8	36.1	8.4		15	1
Kunimi	1,624	1,126	4	69.3	204	373	440	109		6	C
					18.1 163	33.1 232	39.1 41	9.7		_	
Tenei	1,101	444	0	40.3	36.7	52.3	9.2	1.8		0	C
Shirakawa	12,675	5,431	0	42.8	984 18.1	1,613 29.7	2,363 43.5	471 8.7		8	0
Nishigo	4,168	1,368	1	32.8	269	166	832	101		1	C
Tusingo	4,100	1,508	1	52.0	19.7 205	12.1 184	60.8 252	7.4			
Izumizaki	1,337	668	0	50.0	30.7	27.5	37.7	4.0		1	0
Miharu	3,158	512	1	16.2	2.1	33 6.4	364 71.1	104 20.3		1	0
Subtotal	216,203	103,874	5,360	48.0	23,546 22.7	29,629 28.5	39,179 37.7	11,520 11.1	6,	236	6
creening coverage	by municipali	ty in FY 2015	i								
Subtotal	2,194	2,194	4	100.0	114 5.2	210 9.6	1,452 66.2	418 19.1		15	0
Total	218,397	106,068	5,364	48.6	23,660	29,839 28.1	40,631 38.3	11,938 11.3	6,	251	5

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

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

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

Because of the duplication of the participants, some numbers are not consistent with the previous ones.

Appendix 2 Thyroid Ultrasound Examination (TUE) coverage by prefecture

Prefecture	Number of test venues	Participants	Prefecture	Number of test venues	Participants	Prefecture	Number of test venues	Participants
Hokkaido	4	100	Fukui	1	8	Hiroshima	1	4
Aomori	1	62	Yamanashi	1	76	Yamaguchi	1	9
Iwate	3	123	Nagano	2	34	Tokushima	1	4
Miyagi	2	1,259	Gifu	1	15	Kagawa	1	7
Akita	1	89	Shizuoka	2	61	Ehime	1	1
Yamagata	3	457	Aichi	3	66	Kōchi	1	3
Ibaraki	4	333	Mie	1	11	Fukuoka	2	28
Tochigi	5	336	Shiga	1	2	Saga	1	10
Gunma	1	94	Kyōto	3	20	Nagasaki	2	10
Saitama	1	154	Ōsaka	6	51	Kumamoto	1	2
Chiba	3	243	Hyōgo	1	38	Ōita	1	17
Tōkyō	12	660	Nara	1	10	Miyazaki	1	15
Kanagawa	4	374	Wakayama	1	2	Kagoshima	1	12
Niigata	1	490	Tottori	1	7	Okinawa	1	11
Toyama	1	5	Shimane	1	3			
Ishikawa	1	29	Okayama	3	19	Total	92	5,364

Participants underwent testing at venues outside Fukushima carried out either by Fukushima Medical University staff (once in Niigata, Kanagawa, and Yamagata respectively) or by local specialists.

As of 30 November 2014

Appendix 3

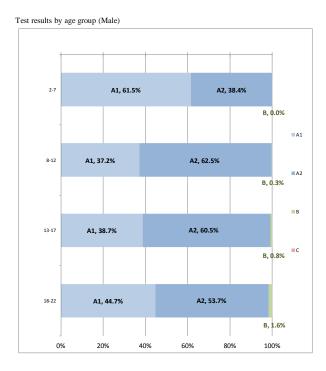
		Number		Number by te						
	Participants	confirmed		Proportion	n (%)		Nod	ules	Cy	sts
			Ą		_	_	Proport	ion (%)	Proporti	ion (%)
	a	Proportion (%) b/a (%)	A1	A2	В	С	<u>></u> 5.1mm	<u><</u> 5.0mm	<u>></u> 20.1mm	<u><</u> 20.0m
eening coverage by		FY 2014			\$					
Kawamata	1,675	1,648	734	894	20	0	19	11	1	9
	-,	98.4	44.5	54.2	1.2	0.0	1.2	0.7	0.1	54
Namie	1,902	1,737	722	996	19	0	19	12	0	1,0
		91.3	41.6	57.3	1.1	0.0	1.1	0.7	0.0	5
litate	693	685	324	350	11	0	11	3	0	3
		98.8	47.3	51.1 4,125	1.6 57	0.0	1.6 57	0.4	0.0	4,1
Minami-soma	7,442	7,334	3,152 43.0	56.2	0.8	0.0	0.8	0.7	0.0	4,1
		8,618	3,716	4,825	77	0.0	77	62	0.0	4,8
Date	8,725	98.8	43.1	56.0	0.9	0.0	0.9	0.7	0.0	-,0
		4,028	1,657	2,336	35	0.0	35	22	0.0	2,3
Tamura	4,604	87.5	41.1	58.0	0.9	0.0	0.9	0.5	0.0	-,:
		485	211	267	7	0	7	6	0	2
Hirono	487	99.6	43.5	55.1	1.4	0.0	1.4	1.2	0.0	5
Namaha	710	697	297	396	4	0	4	6	0	3
Naraha	710	98.2	42.6	56.8	0.6	0.0	0.6	0.9	0.0	5
Tomioka	1,278	1,155	497	644	14	0	14	9	0	(
топцока	1,2/8	90.4	43.0	55.8	1.2	0.0	1.2	0.8	0.0	5
Kawauchi	162	146	45	101	0	0	0	1	0]
Kawadelii	102	90.1	30.8	69.2	0.0	0.0	0.0	0.7	0.0	6
Okuma	1,261	1,212	527	677	8	0	8	11	0	6
Giuna	1,201	96.1	43.5	55.9	0.7	0.0	0.7	0.9	0.0	5
Futaba	458	427	195	230	2	0	2	4	0	2
		93.2	45.7	53.9	0.5	0.0	0.5	0.9	0.0	5
Katsurao	100	89	50	38	1	0	1	0	0	······
		89.0	56.2	42.7	1.1	0.0	1.1	0.0	0.0	4
Fukushima	40,210	39,424	16,591	22,525	308	0	307	232	0	22,6
		98.0 3,899	42.1	2 280	0.8	0.0	0.8	0.6	0.0	5 2,2
Nihonmatsu	7,405	52.7	40.9	2,280	0.6	0.0	0.6	0.5	0.0	5
		1,959	807	1,140	12	0.0	12	5	0.0	1,1
Motomiya	4,411	44.4	41.2	58.2	0.6	0.0	0.6	0.3	0.0	5
		92	33	59	0.0	0.0	0.0	1	0.0	
Otama	1,194	7.7	35.9	64.1	0.0	0.0	0.0	1.1	0.0	6
	10.101	466	191	273	2	0	2	6	0	2
Koriyama	10,106	4.6	41.0	58.6	0.4	0.0	0.4	1.3	0.0	5
Vari	1 500	331	126	203	2	0	2	2	0	2
Kori	1,502	22.0	38.1	61.3	0.6	0.0	0.6	0.6	0.0	6
Kunimi	1,126	274	93	180	1	0	1	6	0]
ixuuuiilii	1,120	24.3	33.9	65.7	0.4	0.0	0.4	2.2	0.0	6
Tenei	444	7	4	3	0	0	0	0	0	
		1.6	57.1	42.9	0.0	0.0	0.0	0.0	0.0	4
Shirakawa	5,431	22	13	9	0	0	0	0	0	
	.,	0.4	59.1	40.9	0.0	0.0	0.0	0.0	0.0	4
Nishigo	1,368	10	4	6	0	0	0	0	0	
	+	0.7	40.0	60.0	0.0	0.0	0.0	0.0	0.0	6
Izumizaki	668	1	0	100.0	0	0	0	0	0	10
	+	0.1	0.0	100.0	0.0	0.0	0.0	0.0	0.0	10
Miharu	512	101	39 38.6	59 58.4	3.0	0.0	3 3.0	0.0	0.0	6
		74,847	31,622	42,617	608	0.0	606	472	0.0	42,8
Subtotal	103,874	72.1	42.2	56.9	0.8	0.0	0.8	0.6	0.0	42,0
			.2.2	2017	0.01	5.0	0.0	0.0	0.0	5
eening coverage by	municipality in	L	167	204	3	0	3	2	0	,
Subtotal	2,194	464	167	294		0		3	0	2
	1	21.1	36.0	63.4	0.6	0.0	0.6	0.6	0.0	6
T ()	10 5 0 5 2	75,311	31,789	42,911	611	0	609	475	1	43,1
Total	106,068	71.0	42.2	57.0	0.8	0.0	0.8	0.6	0.0	5

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

Appendix 4

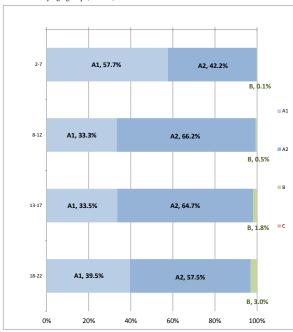
1. Thyroid Ultrasound Examination results by age and sex

													As	of 31 Decer	mber 2014
		A1	A		A2			В		ВС			Total		
Ages	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
2-7	5,833	5,204	11,037	3,645	3,809	7,454	4	7	11	0	0	0	9,482	9,020	18,502
8-12	4,750	4,029	8,779	7,988	8,008	15,996	34	66	100	0	0	0	12,772	12,103	24,875
13-17	4,752	4,019	8,771	7,424	7,770	15,194	102	215	317	0	0	0	12,278	12,004	24,282
18-22	1,526	1,676	3,202	1,832	2,435	4,267	56	127	183	0	0	0	3,414	4,238	7,652
Total	16,861	14,928	31,789	20,889	22,022	42,911	196	415	611	0	0	0	37,946	37,365	75,311



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

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

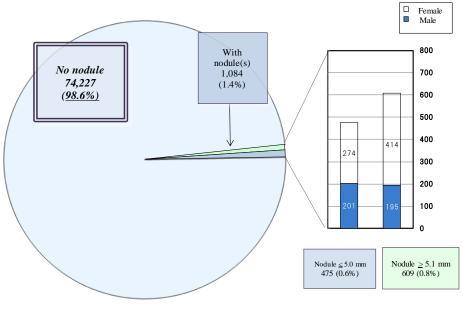


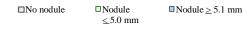
Test results by age group (Female)

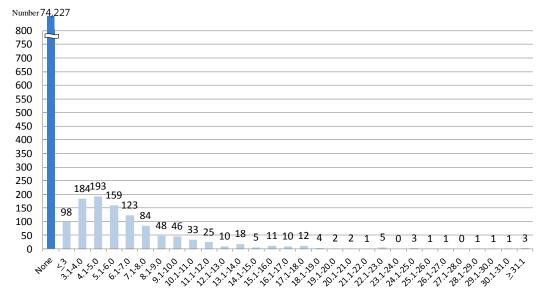
2. Nodule size

As of 31 December 2014

Nodule size	Total			Test result	Proportion
Nodule size	Total	Male	Female	i est iesuit	Flopottion
None	74,227	37,550	36,677	A1	98.6%
<u><</u> 3.0 mm	98	48	50	A2	0.6%
3.1-5.0 mm	377	153	224	A2	0.0%
5.1-10.0 mm	460	148	312		
10.1-15.0 mm	91	30	61		
15.1-20.0 mm	39	13	26	В	0.8%
20.1-25.0 mm	11	4	7		
<u>></u> 25.1 mm	8	0	8		
Total	75,311	37,946	37,365		

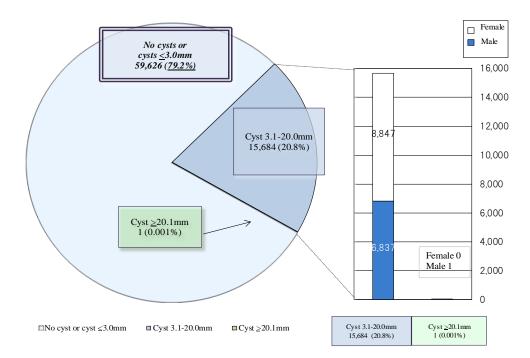


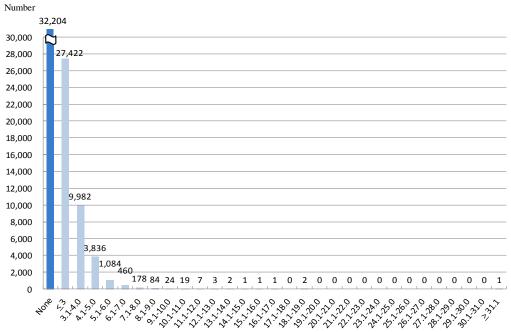




3. Cyst size

				As of 31 I	December 2014
Cyst size	Total			Class	%
Cyst size	Total	Male	Female	Class	70
None	32,204	17,014	15,190	A1	79.2%
<u><</u> 3.0 mm	27,422	14,094	13,328		19.270
3.1-5.0 mm	13,818	6,207	7,611		
5.1-10.0 mm	1,830	621	1,209	A2	20.8%
10.1-15.0 mm	32	7	25		20.8%
15.1-20.0 mm	4	2	2		i i
20.1-25.0 mm	0	0	0	В	0.0010/
<u>></u> 25.1 mm	1	1	0	В	0.001%
Total	75,311	37,946	37,365		





Appendix 5

Confirmatory test results by municipality

	ults by municipal	ity i	Number of	of children who	underwent con	firmatory test b	y age		Number	of confirmed re		December 20
	Number of children screened	Number who required confirmatory test	Total	Ages 2-7	Ages 8-12	Ages 13-17	Ages 18-22	Total	Next screen	ing advised	Follow-u	p advised Aspiration biopsy
	а	ь	с	d	c	f	g	h	Al i	A2 j	k	cytology 1
		Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportion (%)	Proportio (%)
reening coverage b	y municipality in	FY 2014										
Kawamata	1,675	20	17	0	3	11	3	16	3	5	8	
		1.2	85.0 13	0.0	17.6 1	64.7 5	17.6 7	94.1	18.8	31.3	50.0 9	12
Namie	1,902	1.0	68.4	0.0	7.7	38.5	53.8	84.6	0.0		81.8	1
litate	693	11	8	0	2	4	2	6	1	2	3	
mate	095	1.6	72.7	0.0	25.0	50.0	25.0	75.0	16.7	33.3	50.0	3
Minami-soma	7,442	57	44	1	18.2	25	10	36	3	9	24	
		0.8	77.2 58	2.3	18.2 17	56.8 31	22.7	81.8 48	8.3 0	25.0 21	66.7 27	:
Date	8,725	0.9	75.3	1.7	29.3	53.4	15.5	82.8	0.0	43.8	56.3	14
Tamura	4,604	35	26	1	2	18	5	22	1	8	13	
Tumuru	4,004	0.8	74.3	3.8	7.7	69.2	19.2	84.6	4.5	36.4	59.1	2
Hirono	487	7	7 100.0	0.0	1 14.3	3 42.9	3 42.9	6 85.7	0.0	3 50.0	3 50.0	
		4	3	0.0	0	42.9	42.9	3	0.0	0	30.0	
Naraha	710	0.6	75.0	0.0	0.0	0.0	100.0	100.0	0.0	0.0	100.0	
Tomioka	1,278	14	11	0	1	3	7	9	0	2	7	
	1,270	1.1	78.6	0.0	9.1	27.3	63.6	81.8	0.0		77.8	1
Kawauchi	162	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		8	5	0.0	0.0	3	2	5	0.0	1	4	
Okuma	1,261	0.6	62.5	0.0	0.0	60.0	40.0	100.0	0.0	20.0	80.0	5
Futaba	458	2	0	0	0	0	0	0	0	0	0	
		0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Katsurao	100	1	1 100.0	0.0	1 100.0	0.0	0.0	1 100.0	0.0	1 100.0	0.0	
		308	100:0	5	34	84	48	94	7	22	65	
Fukushima	40,210	0.8	55.5	2.9	19.9	49.1	28.1	55.0	7.4	23.4	69.1	1
Nihonmatsu	7,405	25	7	0	0	5	2	2	1	0	1	
	· ·	0.3	28.0	0.0	0.0	71.4	28.6	28.6	50.0 0	0.0	50.0	
Motomiya	4,411	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
0	1 104	0	0	0	0	0	0	0	0	0	0	
Otama	1,194	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Koriyama	10,106	2	1	0	0	1	0	0	0	0	0	
		0.0	50.0 0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	
Kori	1,502	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
Kunimi	1,126	1	1	0	0	0	1	0	0	0	0	
rsammi	1,120	0.1	100.0	0.0	0.0	0.0	100.0	0.0	0.0		0.0	
Tenei	444	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Shirakawa	5,431	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
Nishigo	1,368	0	0	0	0	0	0	0	0	0	0	
80	1,000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	
Izumizaki	668	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		3	2	0.0	0.0	2	0.0	2	0.0	1	1	
Miharu	512	0.6	66.7	0.0	0.0	100.0	0.0	100.0	0.0		50.0	
Subtotal	103,874	608	375	8	70	195	102	261	16	77	168	
		0.6	61.7	2.1	18.7	52.0	27.2	69.6	6.1	29.5	64.4	1
reening coverage b		FY 2015 3	2	0	0	2	0	1	0	1	0	
Subtotal	2,194	0.1	66.7	0.0	0.0	100.0	0.0	50.0	0.0		0.0	
		·J										
Total	106,068	611	377	8	70	197	102	262	16	78	168	
		0.6	61.7	2.1	18.6	52.3	27.1	69.5	6.1	29.8	64.1	1

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

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

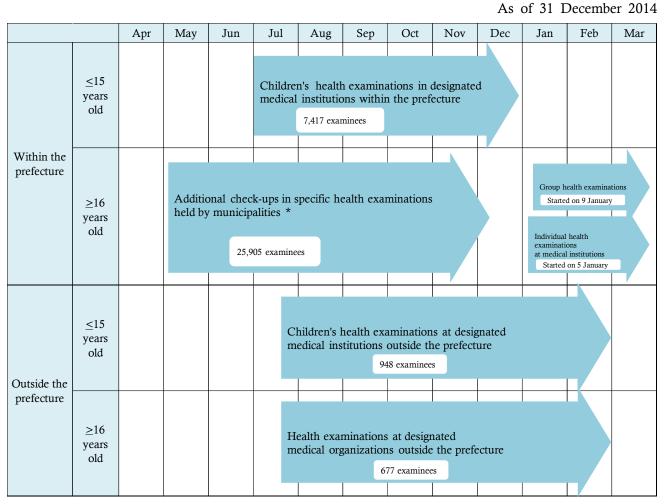
Progress Report of the Comprehensive Health Check

Reported on 12 February 2015

1. Progress Report of FY 2014

Group: 214,211 individuals

(25,883 individuals aged 15 and younger, and 188,328 individuals aged 16 and older)



* Iitate (from 16 May), Tamura (from 28 May), Katsurao (7, 8 Jun), Kawamata (from 19 Jun), Minami-soma (from 7 Jul), Hirono (from 15 Jul), Kawauchi (from 1 Sep), Futaba (from 6 Sep), Namie (from 20 Sep), Naraha (from 26 Sep), Tomioka (from 29 Sep), Okuma (from 20 Oct)

[Individuals living in Fukushima Prefecture]

For those aged 15 years and younger, we conducted the Comprehensive Health Check from July to December 2014, for about 6 months as was the case in FY 2013, with the cooperation of 101 medical institutions. The number of participants is 7,417 (preliminary data).

For eligible residents aged 16 years and older in 12 municipalities except Date city, items were added to specific health exams held by municipalities as was the case in FY 2013. The number of participants aged 16 and older is 25,905 (preliminary data). For those who missed the chance, we started the Comprehensive Health Check in group health exams and in individual health exams at 504 medical institutions from January 2015.

[Individuals living outside Fukushima Prefecture]

We sent out notice for the Comprehensive Health Check held at medical institutions outside Fukushima Prefecture starting in August. The number of participants at this point is 948 aged 15 and younger and 677 aged 16 and older.

		1101810 411		-904 0 0)			
Boys' height	FY 2	2011	FY 2	2012	FY 2	2013	Difference
Age	n	Mean(cm)(a)	n	Mean(cm)(b)	n	Mean(cm)(c)	(c)-(a)
10-11 mo	44	73.6	46	73.3	42	72.7	∆ 0.9
1 y-	77	74.8	52	74.1	47	74.4	△ 0.4
1 y 2 mo-	68	76.5	64	77.2	35	77.0	0.5
1 y 4 mo-	93	78.7	54	79.1	43	78.1	∆ 0.6
1 y 6 mo-	80	81.2	59	80.2	30	79.8	∆ 1.4
1 y 8 mo-	73	82.1	56	82.5	32	82.6	0.5
1 y 10 mo- 1 y 11 mo	83	83.8	52	83.7	44	83.4	∆ 0.4
2 y-	281	86.6	181	87.4	177	87.1	0.5
2 y 6 mo-	269	90.7	196	91.4	170	91.4	0.7
3 у-	281	94.8	193	94.9	179	95.3	0.5
3 y 6 mo-	257	98.6	170	99.0	176	98.2	△ 0.4
4 y-	258	101.7	203	102.3	172	101.8	0.1
4 y 6 mo-	280	105.7	193	105.7	177	105.6	∆ 0.1
5 y-	286	108.5	182	108.9	175	108.9	0.4
5 y 6 mo-5 y 11 mo	293	111.4	199	111.9	180	111.9	0.5
Total	2,723		1,900		1,679		

Comprehensive Health Check for Children in FY 2011, FY 2012, and FY 2013 Height and Weight (Aged 0-5)

Girls' height	FY 2	2011	FY 2	2012	FY 2	2013	Difference
Age	n	Mean(cm)(a)	n	Mean(cm)(b)	n	Mean(cm)(c)	(c)-(a)
10-11 mo	36	71.5	49	72.0	45	72.6	1.1
1 y-	79	73.7	60	73.4	45	74.0	0.3
1 y 2 mo-	85	75.1	41	75.2	43	75.9	0.8
1 y 4 mo-	80	77.4	54	77.8	28	78.7	1.3
1 y 6 mo-	78	78.9	53	78.9	23	79.6	0.7
1 y 8 mo-	86	81.2	49	81.1	47	80.9	△ 0.3
1 y 10 mo- 1 y 11 mo	98	82.0	52	81.8	51	82.9	0.9
2 y-	263	85.4	178	85.6	148	85.8	0.4
2 y 6 mo-	288	89.9	199	89.7	166	90.3	0.4
3 у-	255	93.5	208	94.0	164	94.0	0.5
3 y 6 mo-	246	97.3	181	97.4	155	97.4	0.1
4 y-	275	100.6	175	100.8	197	101.3	0.7
4 y 6 mo-	253	104.2	192	103.9	175	104.5	0.3
5 y-	286	107.6	197	107.5	168	107.8	0.2
5 y 6 mo-5 y 11 mo	296	110.3	191	111.1	153	111.0	0.7
Total	2,704		1,879		1,608		

		Height and	d Weight (A	Aged 0-5)			
Boys' weight	FY 2	2011	FY 2	2012	FY 2	2013	Difference
Age	n	Mean(kg)(a)	n	Mean(kg)(b)	n	Mean(kg)(c)	(c)-(a)
10-11 mo	44	9.8	46	9.4	42	9.3	△ 0.5
1 y-	77	9.9	52	9.5	47	9.4	△ 0.5
1 y 2 mo-	68	10.4	64	10.2	35	10.1	△ 0.3
1 y 4 mo-	93	10.9	54	10.5	44	10.3	∆ 0.6
1 y 6 mo-	80	11.2	59	11.2	30	11.0	△ 0.2
1 y 8 mo-	73	11.6	56	11.4	32	11.4	△ 0.2
1 y 10 mo- 1 y 11 mo	83	12.0	52	11.6	44	11.6	△ 0.4
2 у-	281	12.7	181	12.8	177	12.5	△ 0.2
2 y 6 mo-	269	13.8	196	13.5	170	13.6	△ 0.2
3 у-	281	14.8	193	14.6	179	14.6	△ 0.2
3 y 6 mo-	257	15.9	170	15.7	176	15.7	△ 0.2
4 y-	258	16.8	203	16.6	172	16.5	△ 0.3
4 y 6 mo-	280	17.9	193	17.8	177	17.7	△ 0.2
5 y-	286	18.7	182	18.5	175	19.0	0.3
5 y 6 mo-5 y 11 mo	293	20.0	199	19.9	180	20.2	0.2
Total	2,723		1,900		1,680		

Comprehensive Health Check for Children in FY 2011, FY 2012, and FY 2013

Girls' weight	FY 2	2011	FY 2	2012	FY 2	2013	Difference
Age	n	Mean(kg)(a)	n	Mean(kg)(b)	n	Mean(kg)(c)	(c)-(a)
10-11 mo	36	8.9	49	8.7	45	8.9	0.0
1 y-	79	9.4	60	9.1	45	9.0	∆ 0.4
1 y 2 mo-	85	9.7	41	9.4	43	9.5	△ 0.2
1 y 4 mo-	80	10.3	54	10.1	28	10.7	0.4
1 y 6 mo-	79	10.5	53	10.4	23	10.8	0.3
1 y 8 mo-	86	11.0	49	10.5	47	10.7	∆ 0.3
1 y 10 mo- 1 y 11 mo	98	11.2	52	10.8	51	11.0	△ 0.2
2 у-	263	12.1	178	11.9	148	11.9	∆ 0.2
2 y 6 mo-	288	13.2	199	12.9	166	13.0	∆ 0.2
3 у-	255	14.1	208	14.1	164	13.8	∆ 0.3
3 y 6 mo-	246	15.2	181	15.0	155	15.0	∆ 0.2
4 y-	275	16.4	175	16.0	197	16.2	∆ 0.2
4 y 6 mo-	253	17.2	193	17.0	175	17.1	∆ 0.1
5 y-	286	18.4	197	18.2	168	18.5	0.1
5 y 6 mo-5 y 11 mo	296	19.3	191	19.6	153	19.6	0.3
Total	2,705		1,880		1,608		

Boys' height		Nationwide	Nationwide		Fukushima	Fukushima		Comprehensive	Comprehensive	Comprehensive		(cm
	Age (years)	Survey FY 2010	Survey FY 2013	Difference	Prefecture FY 2010	Prefecture FY 2013	Difference	Health Check for Children FY 2011	Health Check for Children FY 2012	Health Check for Children FY 2013	Differ	rence
	() • • • • • • •	Mean (a)	Mean (b)	(b)-(a)	Mean (c)	Mean (d)	(d)-(c)	Mean (e)	Mean (f)	Mean (g)	(g)-(e)	(g)-(b)
	6	116.7	116.6	△ 0.1	116.6	116.9	0.3	116.6	116.6	117.3	0.7	0
	7	122.5	122.4	∆ 0.1	122.3	122.4	0.1	122.8	123.0	122.8	0.0	0
Primary	8	128.2	128.2	0.0	128.3	128.7	0.4	128.1	128.5	128.3	0.2	0
school	9	133.5	133.6	0.1	133.7	134.2	0.5	133.4	133.9	134.2	0.8	0
	10	138.8	139.0	0.2	138.8	139.5	0.7	139.3	139.4	139.1	∆ 0.2	0
	11	145.0	145.0	0.0	145.6	145.5	∆ 0.1	145.5	145.8	146.0	0.5	1
	12	143.0	143.0	△ 0.1	153.3	143.3	△ 0.2	143.3	153.3	153.6	0.4	1
Middle	12	152.4	159.5	∆ 0.2	160.1	155.1	∆ 0.2	160.1	160.6	160.0	0.4	0
school	13						0.0		165.7			0
TF-1 - 1 - 1		165.1	165.0	△ 0.1	165.2	165.2		165.3		165.6	0.3	
High school	15	168.2	168.3	0.1	168.6	167.9	∆ 0.7	168.4	168.2	167.6	∆ 0.8	Δ0
Boys' weight								1				(k
		Nationwide	Nationwide	Difference	Fukushima	Fukushima Davida eterne	Difference	Comprehensive Health Check for	Comprehensive Health Check for	Comprehensive Health Check for	Diff	
	Age	Survey FY 2010	Survey FY 2013	Difference	Prefecture FY 2010	Prefecture FY 2013	Difference	Children FY 2011	Children FY 2012	Children FY 2013	Differ	ence
	(years)	Mean (a)	Mean (b)	(b)-(a)	Mean (c)	Mean (d)	(d)-(c)	Mean (e)	Mean (f)	Mean (g)	(g)-(e)	(g)-(b)
	6	21.4	21.3	△ 0.1	21.7	22.0	0.3	22.1	21.5	22.1	0.0	0.
	7	24.0	23.9	△ 0.1	24.3	22.0	0.3	24.8	24.8	24.8	0.0	0.
Drine	8	24.0	23.9	∆ 0.1 ∆ 0.1	24.5	24.7	1.1	24.8	24.8	24.8	 0.3	1.
Primary school	9						0.5					
senoor		30.5	30.4	△ 0.1	31.6	32.1		32.6	32.2	32.0	∆ 0.6	1.
	10	34.1	34.3	0.2	34.3	36.2	1.9	36.0	35.9	35.9	△ 0.1	1.
	11	38.4	38.3	△ 0.1	39.7	39.7	0.0	40.5	40.7	40.6	0.1	2.
Middle	12	44.1	43.9	△ 0.2	45.7	46.0	0.3	46.9	45.4	45.8	∆ 1.1	1.
school	13	49.2	48.8	∆ 0.4	50.6	50.8	0.2	51.2	51.5	50.5	∆ 0.7	1.
	14	54.4	54.0	∆ 0.4	55.1	55.6	0.5	56.1	56.1	56.2	0.1	2.
High school	15	59.5	58.9	∆ 0.6	61.7	61.7	0.0	60.0	58.7	59.3	∆ 0.7	0.
Girls' height												(cm
		Nationwide	Nationwide		Fukushima	Fukushima		Comprehensive	Comprehensive	Comprehensive		
	Age	Survey	Survey	Difference	Prefecture	Prefecture	Difference	Health Check for	Health Check for	Health Check for	Differ	rence
	(years)	FY 2010	FY 2013	a	FY 2010	FY 2013		Children FY 2011	Children FY 2012	Children FY 2013	()()	() ()
		Mean (a)	Mean (b)	(b)-(a)	Mean (c)	Mean (d)	(d)-(c)	Mean (e)	Mean (f)	Mean (g)	(g)-(e)	(g)-(b)
	6	115.8	115.6	∆ 0.2	115.7	115.7	0.0	115.6	115.6		0.0	0
	7									115.8	0.2	
Primary		121.7	121.6	△ 0.1	122.0	121.6	∆ 0.4	121.5	121.6	121.8	0.3	0.
	8	127.4	121.6 127.3	∆ 0.1	128.1	127.7			127.9			0.
school	8 9						∆ 0.4	121.5		121.8	0.3	0. ∆ 0.
		127.4	127.3	∆ 0.1	128.1	127.7	∆ 0.4 ∆ 0.4	121.5 127.5	127.9	121.8 127.2	0.3 ∆ 0.3	0. △ 0. 0.
	9	127.4 133.5	127.3 133.6	∆ 0.1 0.1	128.1 133.5	127.7 133.3	△ 0.4 △ 0.4 △ 0.2	121.5 127.5 133.6	127.9 133.9	121.8 127.2 133.8	0.3 △ 0.3 0.2	0. ▲ 0. 0.
school	9 10	127.4 133.5 140.2	127.3 133.6 140.1	∆ 0.1 0.1 ∆ 0.1	128.1 133.5 139.7	127.7 133.3 141.1	△ 0.4 △ 0.4 △ 0.2 1.4	121.5 127.5 133.6 140.4	127.9 133.9 140.0	121.8 127.2 133.8 140.8	0.3 △ 0.3 0.2 0.4	0. △ 0. 0. 0.
school	9 10 11	127.4 133.5 140.2 146.8	127.3 133.6 140.1 146.8	△ 0.1 0.1 △ 0.1 0.0	128.1 133.5 139.7 146.9	127.7 133.3 141.1 147.4	$ \begin{array}{r} \Delta \ 0.4 \\ \hline \Delta \ 0.4 \\ \hline \Delta \ 0.2 \\ \hline 1.4 \\ \hline 0.5 \end{array} $	121.5 127.5 133.6 140.4 146.9	127.9 133.9 140.0 147.4	121.8 127.2 133.8 140.8 147.3	0.3 △ 0.3 0.2 0.4 0.4	0. △ 0. 0. 0. 0. △ 0. △ 0.
school	9 10 11 12	127.4 133.5 140.2 146.8 151.9	127.3 133.6 140.1 146.8 151.8	$\triangle 0.1$ 0.1 $\triangle 0.1$ 0.0 $\triangle 0.1$	128.1 133.5 139.7 146.9 151.6	127.7 133.3 141.1 147.4 152.1		121.5 127.5 133.6 140.4 146.9 152.2	127.9 133.9 140.0 147.4 152.1	121.8 127.2 133.8 140.8 147.3 151.7	$ \begin{array}{c} 0.3 \\ \Delta 0.3 \\ 0.2 \\ 0.4 \\ 0.4 \\ \Delta 0.5 \\ \end{array} $	$\begin{array}{c} 0.\\ \Delta \ 0.\\ 0.\\ 0.\\ 0.\\ 0.\\ 0.\\ 0.\\ \end{array}$
school Middle school	9 10 11 12 13	127.4 133.5 140.2 146.8 151.9 155.0	127.3 133.6 140.1 146.8 151.8 154.8	$ \begin{array}{c} \Delta \ 0.1 \\ 0.1 \\ \Delta \ 0.1 \\ 0.0 \\ \Delta \ 0.1 \\ \Delta \ 0.2 \\ \end{array} $	128.1 133.5 139.7 146.9 151.6 155.1	127.7 133.3 141.1 147.4 152.1 154.2		121.5 127.5 133.6 140.4 146.9 152.2 154.6	127.9 133.9 140.0 147.4 152.1 154.9	121.8 127.2 133.8 140.8 147.3 151.7 155.2	$ \begin{array}{c} 0.3 \\ \Delta 0.3 \\ 0.2 \\ 0.4 \\ 0.4 \\ \Delta 0.5 \\ 0.6 \\ \end{array} $	0. △ 0. 0. 0. △ 0. △ 0. △ 0. △ 0. △ 0.
school Middle school High school	9 10 11 12 13 14	127.4 133.5 140.2 146.8 151.9 155.0 156.5	127.3 133.6 140.1 146.8 151.8 154.8 156.5	$ \begin{array}{c} \Delta \ 0.1 \\ 0.1 \\ \Delta \ 0.1 \\ 0.0 \\ \Delta \ 0.1 \\ \Delta \ 0.2 \\ 0.0 \\ \end{array} $	128.1 133.5 139.7 146.9 151.6 155.1 156.2	127.7 133.3 141.1 147.4 152.1 154.2 156.1	$ \begin{array}{c} \Delta \ 0.4 \\ \Delta \ 0.4 \\ \hline 0.2 \\ 1.4 \\ \hline 0.5 \\ 0.5 \\ \hline \Delta \ 0.9 \\ \hline \Delta \ 0.1 \\ \end{array} $	121.5 127.5 133.6 140.4 146.9 152.2 154.6 156.4	127.9 133.9 140.0 147.4 152.1 154.9 156.4	121.8 127.2 133.8 140.8 147.3 151.7 155.2 156.1	$ \begin{array}{c} 0.3 \\ $	$ \begin{array}{c} 0.\\ \Delta 0.\\ 0.\\ 0.\\ 0.\\ 0.\\ \Delta 0.\\ 0.\\ 0.\\ 0.\\ 0.\\ 0.\\ 0.\\ 0.\\ 0.\\ 0.\\ $
school Middle school High school	9 10 11 12 13 14	127.4 133.5 140.2 146.8 151.9 155.0 156.5 157.1	127.3 133.6 140.1 146.8 151.8 154.8 156.5 157.0	$ \begin{array}{c} \Delta \ 0.1 \\ 0.1 \\ \Delta \ 0.1 \\ 0.0 \\ \Delta \ 0.1 \\ \Delta \ 0.2 \\ 0.0 \\ \end{array} $	128.1 133.5 139.7 146.9 151.6 155.1 156.2 156.7	127.7 133.3 141.1 147.4 152.1 154.2 156.1 156.4	$ \begin{array}{c} \Delta \ 0.4 \\ \Delta \ 0.4 \\ \hline 0.2 \\ 1.4 \\ \hline 0.5 \\ 0.5 \\ \hline \Delta \ 0.9 \\ \hline \Delta \ 0.1 \\ \end{array} $	121.5 127.5 133.6 140.4 146.9 152.2 154.6 156.4 157.0	127.9 133.9 140.0 147.4 152.1 154.9 156.4 157.3	121.8 127.2 133.8 140.8 147.3 151.7 155.2 156.1 157.1	$ \begin{array}{c} 0.3 \\ $	$ \begin{array}{c} 0. \\ 0. \\ 0. \\ 0. \\ 0. \\ 0. \\ 0. \\ 0. \\$
school Middle school High school	9 10 11 12 13 14 15	127.4 133.5 140.2 146.8 151.9 155.0 156.5 157.1 Nationwide	127.3 133.6 140.1 146.8 151.8 154.8 156.5 157.0 Nationwide	$ \begin{array}{c} \Delta \ 0.1 \\ 0.1 \\ \Delta \ 0.1 \\ 0.0 \\ \Delta \ 0.1 \\ \Delta \ 0.2 \\ 0.0 \\ \end{array} $	128.1 133.5 139.7 146.9 151.6 155.1 156.2 156.7 Fukushima	127.7 133.3 141.1 147.4 152.1 154.2 156.1 156.4 Fukushima	$ \begin{array}{c} \Delta \ 0.4 \\ \Delta \ 0.4 \\ \hline 0.2 \\ 1.4 \\ \hline 0.5 \\ 0.5 \\ \hline \Delta \ 0.9 \\ \hline \Delta \ 0.1 \\ \end{array} $	121.5 127.5 133.6 140.4 146.9 152.2 154.6 156.4	127.9 133.9 140.0 147.4 152.1 154.9 156.4	121.8 127.2 133.8 140.8 147.3 151.7 155.2 156.1	$ \begin{array}{c} 0.3 \\ $	0. △ 0. 0. 0. 0. △ 0. △ 0. ○ . ○ . ○ . ○ . ○ . ○ . ○ . ○
school Middle school High school	9 10 11 12 13 14	127.4 133.5 140.2 146.8 151.9 155.0 156.5 157.1	127.3 133.6 140.1 146.8 151.8 154.8 156.5 157.0	$ \begin{array}{c} \Delta \ 0.1 \\ 0.1 \\ \Delta \ 0.1 \\ 0.0 \\ \Delta \ 0.1 \\ \Delta \ 0.2 \\ 0.0 \\ \Delta \ 0.1 \\ \end{array} $	128.1 133.5 139.7 146.9 151.6 155.1 156.2 156.7	127.7 133.3 141.1 147.4 152.1 154.2 156.1 156.4	$ \begin{array}{c} $	121.5 127.5 133.6 140.4 146.9 152.2 154.6 156.4 156.4 157.0 Comprehensive	127.9 133.9 140.0 147.4 152.1 154.9 156.4 157.3 Comprehensive	121.8 127.2 133.8 140.8 147.3 151.7 155.2 156.1 157.1 Comprehensive	$ \begin{array}{c} 0.3 \\ $	$\begin{array}{c} 0. \\ \Delta \ 0. \\ 0. \\ 0. \\ 0. \\ \Delta \ 0. \\ 0. \\ \Delta \ 0. \\ 0. \\ (kg$
school Middle school High school	9 10 11 12 13 14 15 Age	127.4 133.5 140.2 146.8 151.9 155.0 156.5 157.1 Nationwide Survey	127.3 133.6 140.1 146.8 151.8 154.8 156.5 157.0 Nationwide Survey	$ \begin{array}{c} \Delta \ 0.1 \\ 0.1 \\ \Delta \ 0.1 \\ 0.0 \\ \Delta \ 0.1 \\ \Delta \ 0.2 \\ 0.0 \\ \Delta \ 0.1 \\ \end{array} $	128.1 133.5 139.7 146.9 151.6 155.1 156.2 156.7 Fukushima Prefecture	127.7 133.3 141.1 147.4 152.1 154.2 156.1 156.4 Fukushima Prefecture	$ \begin{array}{c} $	121.5 127.5 133.6 140.4 146.9 152.2 154.6 156.4 157.0 Comprehensive Health Check for	127.9 133.9 140.0 147.4 152.1 154.9 156.4 157.3 Comprehensive Health Check for	121.8 127.2 133.8 140.8 147.3 151.7 155.2 156.1 157.1 Comprehensive Health Check for	$ \begin{array}{c} 0.3 \\ $	$\begin{array}{c} 0. \\ \Delta \ 0. \\ 0. \\ 0. \\ 0. \\ \Delta \ 0. \\ 0. \\ \Delta \ 0. \\ 0. \\ (kg$
school Middle school High school	9 10 11 12 13 14 15 Age	127.4 133.5 140.2 146.8 151.9 155.0 156.5 157.1 Nationwide Survey FY 2010	127.3 133.6 140.1 146.8 151.8 154.8 156.5 157.0 Nationwide Survey FY 2013	Δ 0.1 0.1 Δ 0.1 0.0 Δ 0.1 Δ 0.2 0.0 Δ 0.1 Difference	128.1 133.5 139.7 146.9 151.6 155.1 156.2 156.7 Fukushima Prefecture FY 2010	127.7 133.3 141.1 147.4 152.1 154.2 156.1 156.4 Fukushima Prefecture FY 2013	$\begin{array}{c} \Delta \ 0.4 \\ \Delta \ 0.4 \\ \hline \Delta \ 0.2 \\ \hline 1.4 \\ \hline 0.5 \\ \hline 0.5 \\ \Delta \ 0.9 \\ \hline \Delta \ 0.1 \\ \hline \Delta \ 0.3 \end{array}$ Difference	121.5 127.5 133.6 140.4 146.9 152.2 154.6 156.4 157.0 Comprehensive Health Check for Children FY 2011	127.9 133.9 140.0 147.4 152.1 154.9 156.4 157.3 Comprehensive Health Check for Children FY 2012	121.8 127.2 133.8 140.8 147.3 151.7 155.2 156.1 157.1 Comprehensive Health Check for Children FY 2013	0.3 △ 0.3 0.2 0.4 0.4 △ 0.5 0.6 △ 0.3 0.1 Differ	0. △ 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
school Middle school High school	9 10 11 12 13 14 15 Age (years)	127.4 133.5 140.2 146.8 151.9 155.0 156.5 157.1 Nationwide Survey FY 2010 Mean (a)	127.3 133.6 140.1 146.8 151.8 154.8 156.5 157.0 Nationwide Survey FY 2013 Mean (b)	Δ 0.1 0.1 0.0 Δ 0.1 Δ 0.2 0.0 Δ 0.1 Difference (b)-(a)	128.1 133.5 139.7 146.9 151.6 155.1 156.2 156.7 Fukushima Prefecture FY 2010 Mean (c)	127.7 133.3 141.1 147.4 152.1 154.2 156.1 156.4 Fukushima Prefecture FY 2013 Mean (d)	$ \begin{array}{c} \Delta \ 0.4 \\ \Delta \ 0.4 \\ A \ 0.2 \\ \hline 0.5 \\ \Delta \ 0.9 \\ \Delta \ 0.1 \\ \Delta \ 0.3 \\ \end{array} $ Difference (d)-(c)	121.5 127.5 133.6 140.4 146.9 152.2 154.6 156.4 157.0 Comprehensive Health Check for Children FY 2011 Mean (e)	127.9 133.9 140.0 147.4 152.1 154.9 156.4 157.3 Comprehensive Health Check for Children FY 2012 Mean (f)	121.8 127.2 133.8 140.8 147.3 151.7 155.2 156.1 157.1 Comprehensive Health Check for Children FY 2013 Mean (g)	0.3 △ 0.3 0.2 0.4 ○ 0.4 △ 0.5 ○ 0.6 △ 0.3 0.1 Differ (g)-(e)	0. \$\Delta 0. 0. 0. 0. 0. 0. (kg rence (g)-(b) 0.
school Middle school High school Girls' weight	9 10 11 12 13 14 15 Age (years) 6	127.4 133.5 140.2 146.8 151.9 155.0 156.5 157.1 Nationwide Survey FY 2010 Mean (a) 21.0	127.3 133.6 140.1 146.8 151.8 154.8 156.5 157.0 Nationwide Survey FY 2013 Mean (b) 20.9	Δ 0.1 0.1 Δ 0.1 Δ 0.1 Δ 0.2 0.0 Δ 0.1 Δ 0.1 Difference (b)-(a) Δ 0.1	128.1 133.5 139.7 146.9 151.6 155.1 156.2 156.7 Fukushima Prefecture FY 2010 Mean (c) 21.0	127.7 133.3 141.1 147.4 152.1 154.2 156.1 156.4 Fukushima Prefecture FY 2013 Mean (d) 21.2	$\begin{array}{c} \Delta \ 0.4 \\ \Delta \ 0.4 \\ A \ 0.2 \\ \hline 0.5 \\ 0.5 \\ \Delta \ 0.9 \\ \Delta \ 0.1 \\ \Delta \ 0.3 \\ \end{array}$ Difference (d)-(c) 0.2	121.5 127.5 133.6 140.4 146.9 152.2 154.6 156.4 157.0 Comprehensive Health Check for Children FY 2011 Mean (e) 21.7	127.9 133.9 140.0 147.4 152.1 154.9 156.4 157.3 Comprehensive Health Check for Children FY 2012 Mean (f) 21.1	121.8 127.2 133.8 140.8 147.3 151.7 155.2 156.1 157.1 Comprehensive Health Check for Children FY 2013 Mean (g) 21.1	0.3 △ 0.3 0.2 0.4 0.4 △ 0.5 0.6 △ 0.3 0.1 Differ (g)-(e) △ 0.6	0. △ 0. 0. 0. △ 0. △ 0. ○ 0. ○ (kg rence (g)-(b) 0. ○ 0. ○
school Middle school High school	9 10 11 12 13 14 15 Age (years) 6 7	127.4 133.5 140.2 146.8 151.9 155.0 156.5 157.1 Nationwide Survey FY 2010 Mean (a) 21.0 23.5	127.3 133.6 140.1 146.8 151.8 154.8 156.5 157.0 Nationwide Survey FY 2013 Mean (b) 20.9 23.5	Δ 0.1 0.1 0.0 Δ 0.1 Δ 0.2 0.0 Δ 0.1 Difference (b)-(a) Δ 0.1 0.0	128.1 133.5 139.7 146.9 151.6 155.1 156.2 156.7 Fukushima Prefecture FY 2010 Mean (c) 21.0 24.1	127.7 133.3 141.1 147.4 152.1 154.2 156.1 156.4 Fukushima Prefecture FY 2013 Mean (d) 21.2 23.9	$\begin{array}{c} \Delta \ 0.4 \\ \Delta \ 0.4 \\ A \ 0.2 \\ \hline 0.5 \\ \Delta \ 0.9 \\ \Delta \ 0.1 \\ \Delta \ 0.3 \\ \end{array}$ Difference (d)-(c) 0.2 $\Delta \ 0.2 \\ \Delta \ 0.2 \\ \end{array}$	121.5 127.5 133.6 140.4 146.9 152.2 154.6 156.4 157.0 Comprehensive Health Check for Children FY 2011 Mean (e) 21.7 24.1	127.9 133.9 140.0 147.4 152.1 154.9 156.4 157.3 Comprehensive Health Check for Children FY 2012 Mean (f) 21.1 24.0	121.8 127.2 133.8 140.8 147.3 151.7 155.2 156.1 157.1 Comprehensive Health Check for Children FY 2013 Mean (g) 21.1 24.0	0.3 △ 0.3 0.2 0.4 0.4 △ 0.5 0.6 △ 0.3 0.1 Differ (g)-(e) △ 0.6 △ 0.6 △ 0.1	0. △ 0. 0. 0. △ 0. ○ 0. ○ 0. ○ 0. ○ (kg rence (g)-(b) 0. ○ 0. ○
school Middle school High school Girls' weight Primary	9 10 11 12 13 14 15 Age (years) 6 7 8 9	127.4 133.5 140.2 146.8 151.9 155.0 156.5 157.1 Nationwide Survey FY 2010 Mean (a) 21.0 23.5 26.5 30.0	127.3 133.6 140.1 146.8 151.8 154.8 156.5 157.0 Nationwide Survey FY 2013 Mean (b) 20.9 23.5 26.4 30.0	Δ 0.1 0.1 0.0 Δ 0.1 Δ 0.2 0.0 Δ 0.1 Difference (b)-(a) Δ 0.1 0.0 Δ 0.1 0.0 0.0 Δ 0.1 0.0 0.0 Δ 0.1 0.0 0.0 Δ 0.1 0.0 0.0 Δ 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0	128.1 133.5 139.7 146.9 151.6 155.1 156.2 156.7 Fukushima Prefecture FY 2010 Mean (c) 21.0 24.1 27.2 30.2	127.7 133.3 141.1 147.4 152.1 154.2 156.1 156.4 Fukushima Prefecture FY 2013 Mean (d) 21.2 23.9 27.1 30.2	$\begin{array}{c} \Delta \ 0.4 \\ \Delta \ 0.4 \\ A \ 0.2 \\ \hline 0.5 \\ \Delta \ 0.9 \\ \Delta \ 0.1 \\ \Delta \ 0.3 \\ \end{array}$ Difference $\begin{array}{c} (d) - (c) \\ 0.2 \\ \Delta \ 0.2 \\ \Delta \ 0.1 \\ 0.0 \\ \end{array}$	121.5 127.5 133.6 140.4 146.9 152.2 154.6 156.4 156.4 157.0 Comprehensive Health Check for Children FY 2011 Mean (e) 21.7 24.1 27.4 31.0	127.9 133.9 140.0 147.4 152.1 154.9 156.4 157.3 Comprehensive Health Check for Children FY 2012 Mean (f) 21.1 24.0 27.2 31.3	121.8 127.2 133.8 140.8 147.3 151.7 155.2 156.1 157.1 Comprehensive Health Check for Children FY 2013 Mean (g) 21.1 24.0 27.1 30.8	$\begin{array}{c} 0.3 \\ \land 0.3 \\ 0.2 \\ 0.4 \\ 0.4 \\ \land 0.5 \\ 0.6 \\ \land 0.3 \\ 0.1 \\ \end{array}$ Differ $\begin{array}{c} (g) - (e) \\ \land 0.6 \\ \land 0.1 \\ \land 0.3 \\ \land 0.2 \\ \end{array}$	0. (0. (0. (0. (0. (0. (0. (0. (
school Middle school High school Girls' weight Primary	9 10 11 12 13 14 15 Age (years) 6 7 8 9 10	127.4 133.5 140.2 146.8 151.9 155.0 156.5 157.1 Nationwide Survey FY 2010 Mean (a) 21.0 23.5 26.5 30.0 34.1	127.3 133.6 140.1 146.8 151.8 154.8 156.5 157.0 Nationwide Survey FY 2013 Mean (b) 20.9 23.5 26.4 30.0 34.0	Δ 0.1 0.1 0.0 Δ 0.1 Δ 0.2 0.0 Δ 0.1 Difference (b)-(a) Δ 0.1 0.0 Δ 0.1 0.0 Δ 0.1 0.0 Δ 0.1 0.0 Δ 0.1 0.0 Δ 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0	128.1 133.5 139.7 146.9 151.6 155.1 156.2 156.7 Fukushima Prefecture FY 2010 Mean (c) 21.0 24.1 27.2 30.2 34.0	127.7 133.3 141.1 147.4 152.1 154.2 156.1 156.4 Fukushima Prefecture FY 2013 Mean (d) 21.2 23.9 27.1 30.2 35.7	$\begin{array}{c} \Delta \ 0.4 \\ \Delta \ 0.4 \\ A \ 0.2 \\ \hline 0.5 \\ \Delta \ 0.9 \\ \Delta \ 0.1 \\ \Delta \ 0.3 \\ \end{array}$ Difference (d)-(c) 0.2 $\Delta \ 0.2 \\ \Delta \ 0.2 \\ \Delta \ 0.1 \\ 0.0 \\ 1.7 \\ \end{array}$	121.5 127.5 133.6 140.4 146.9 152.2 154.6 156.4 157.0 Comprehensive Health Check for Children FY 2011 Mean (e) 21.7 24.1 27.4 31.0 35.7	127.9 133.9 140.0 147.4 152.1 154.9 156.4 157.3 Comprehensive Health Check for Children FY 2012 Mean (f) 21.1 24.0 27.2 31.3 34.8	121.8 127.2 133.8 140.8 147.3 151.7 155.2 156.1 157.1 Comprehensive Health Check for Children FY 2013 Mean (g) 21.1 24.0 27.1 30.8 35.6	$\begin{array}{c} 0.3 \\ \land 0.3 \\ 0.2 \\ 0.4 \\ 0.4 \\ 0.5 \\ 0.6 \\ \land 0.3 \\ 0.1 \\ \end{array}$ Differ $\begin{array}{c} (g) - (e) \\ \land 0.6 \\ \land 0.1 \\ \land 0.3 \\ \land 0.2 \\ \land 0.1 \\ \land 0.2 \\ \land 0.1 \\ \end{array}$	0. ▲ 0. 0. 0. 0. 0. 0. 0. 0. (kg ence (g)-(b) 0. 0. 0. 0. 1.
school Middle school High school Girls' weight Primary	9 10 11 12 13 14 15 Age (years) 6 7 8 9 10 11	127.4 133.5 140.2 146.8 151.9 155.0 156.5 157.1 Nationwide Survey FY 2010 Mean (a) 21.0 23.5 26.5 30.0 34.1 39.0	127.3 133.6 140.1 146.8 151.8 154.8 156.5 157.0 Nationwide Survey FY 2013 Mean (b) 20.9 23.5 26.4 30.0 34.0 39.0	Δ 0.1 0.1 0.0 Δ 0.1 Δ 0.2 0.0 Δ 0.1 Δ 0.2 0.0 Δ 0.1 0.0 Δ 0.1 0.0 0.0 Δ 0.1 0.0 0.0 Δ 0.1 0.0 0.0 Δ 0.1 0.0 0.0 Δ 0.1 0.0 0.0 0.0 Δ 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0	128.1 133.5 139.7 146.9 151.6 155.1 156.2 156.7 Fukushima Prefecture FY 2010 Mean (c) 21.0 24.1 27.2 30.2 34.0 40.0	127.7 133.3 141.1 147.4 152.1 154.2 156.1 156.4 Fukushima Prefecture FY 2013 Mean (d) 21.2 23.9 27.1 30.2 35.7 40.1	$\begin{array}{c} \Delta \ 0.4 \\ \Delta \ 0.4 \\ A \ 0.7 \\ 0.5 \\ \Delta \ 0.9 \\ \Delta \ 0.1 \\ \Delta \ 0.3 \\ \end{array}$ Difference (d)-(c) 0.2 $\Delta \ 0.2 \\ \Delta \ 0.2 \\ \Delta \ 0.1 \\ 0.0 \\ 1.7 \\ 0.1 \\ \end{array}$	121.5 127.5 133.6 140.4 146.9 152.2 154.6 156.4 157.0 Comprehensive Health Check for Children FY 2011 Mean (e) 21.7 24.1 27.4 31.0 35.7 40.5	127.9 133.9 140.0 147.4 152.1 154.9 156.4 157.3 Comprehensive Health Check for Children FY 2012 Mean (f) 21.1 24.0 27.2 31.3 34.8 40.7	121.8 127.2 133.8 140.8 147.3 151.7 155.2 156.1 157.1 Comprehensive Health Check for Children FY 2013 Mean (g) 21.1 24.0 27.1 30.8 35.6 40.6	$\begin{array}{c} 0.3 \\ \land 0.3 \\ 0.2 \\ 0.4 \\ 0.4 \\ \land 0.5 \\ 0.6 \\ \land 0.3 \\ 0.1 \\ \end{array}$ Differ $\begin{array}{c} (g) \cdot (e) \\ \land 0.6 \\ \land 0.1 \\ \land 0.3 \\ \land 0.2 \\ \land 0.1 \\ \land 0.1 \\ 0.1 \\ 0.1 \\ \end{array}$	(g)-(b) 0.: 0.: 0.: 0.: 1.: 1.:
school Middle school High school Girls' weight Primary	9 10 11 12 13 14 15 Age (years) 6 7 8 9 10 11 12	127.4 133.5 140.2 146.8 151.9 155.0 156.5 157.1 Nationwide Survey FY 2010 Mean (a) 21.0 23.5 26.5 30.0 34.1 39.0 43.8	127.3 133.6 140.1 146.8 151.8 154.8 156.5 157.0 Nationwide Survey FY 2013 Mean (b) 20.9 23.5 26.4 30.0 34.0 39.0 43.7	Δ 0.1 0.1 0.0 Δ 0.1 Δ 0.2 0.0 Δ 0.1 Δ 0.2 0.0 Δ 0.1 0.0 Δ 0.1 0.0 0.0 Δ 0.1 0.0 0.0 Δ 0.1 0.0 0.0 Δ 0.1 0.0 0.0 Δ 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0	128.1 133.5 139.7 146.9 151.6 155.1 156.2 156.7 Fukushima Prefecture FY 2010 Mean (c) 21.0 24.1 27.2 30.2 34.0 40.0 45.1	127.7 133.3 141.1 147.4 152.1 154.2 156.1 156.4 Fukushima Prefecture FY 2013 Mean (d) 21.2 23.9 27.1 30.2 35.7 40.1 45.3	$\begin{array}{c} \Delta \ 0.4 \\ \Delta \ 0.4 \\ A \ 0.2 \\ \hline 0.5 \\ 0.5 \\ \Delta \ 0.9 \\ \Delta \ 0.1 \\ \Delta \ 0.3 \\ \hline \end{array}$	121.5 127.5 133.6 140.4 146.9 152.2 154.6 156.4 157.0 Comprehensive Health Check for Children FY 2011 Mean (e) 21.7 24.1 27.4 31.0 35.7 40.5	127.9 133.9 140.0 147.4 152.1 154.9 156.4 157.3 Comprehensive Health Check for Children FY 2012 Mean (f) 21.1 24.0 27.2 31.3 34.8 40.7 44.0	121.8 127.2 133.8 140.8 147.3 151.7 155.2 156.1 157.1 Comprehensive Health Check for Children FY 2013 Mean (g) 21.1 24.0 27.1 30.8 35.6 40.6 43.8	$\begin{array}{c} 0.3 \\ \land 0.3 \\ 0.2 \\ 0.4 \\ 0.4 \\ 0.5 \\ 0.6 \\ \land 0.3 \\ 0.1 \\ \end{array}$ Differ $\begin{array}{c} (g) \cdot (e) \\ \land 0.6 \\ \land 0.1 \\ \land 0.3 \\ \land 0.2 \\ \land 0.1 \\ \land 0.3 \\ \land 0.2 \\ \land 0.1 \\ 0.1 \\ \land 0.3 \\ \land 0.2 \\ \land 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ \land 2.0 \\ \end{array}$	0.: △ 0. 0.: ○ 0.: ○ 0.: ○ 0.: ○ 0.: (kg rence (g)-(b) 0.: 0.: 0.: 0.: 0.: 0.: 0.: 0.:
school Middle school High school Girls' weight Primary school	9 10 11 12 13 14 15 15 Age (years) 6 7 8 9 10 11 12 13 14	127.4 133.5 140.2 146.8 151.9 155.0 156.5 157.1 Nationwide Survey FY 2010 Mean (a) 21.0 23.5 26.5 30.0 34.1 39.0 43.8 47.3	127.3 133.6 140.1 146.8 151.8 154.8 156.5 157.0 Nationwide Survey FY 2013 Mean (b) 20.9 23.5 26.4 30.0 34.0 39.0 43.7 47.1	Δ 0.1 0.1 0.0 Δ 0.1 Δ 0.2 0.0 Δ 0.1 Δ 0.2 0.0 Δ 0.1 0.0 Δ 0.1 0.0 0.0 Δ 0.1 0.0 0.0 Δ 0.1 0.0 0.0 Δ 0.1 0.0 0.0 Δ 0.1 0.0 0.0 Δ 0.1 0.0 0.0 Δ 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0	128.1 133.5 139.7 146.9 151.6 155.1 156.2 156.7 Fukushima Prefecture FY 2010 Mean (c) 21.0 24.1 27.2 30.2 34.0 40.0 45.1 48.7	127.7 133.3 141.1 147.4 152.1 154.2 156.1 156.4 Fukushima Prefecture FY 2013 Mean (d) 21.2 23.9 27.1 30.2 35.7 40.1 45.3 48.0	$\begin{array}{c} \Delta \ 0.4 \\ \Delta \ 0.4 \\ \Delta \ 0.2 \\ 1.4 \\ 0.5 \\ 0.5 \\ \Delta \ 0.9 \\ \Delta \ 0.1 \\ \Delta \ 0.3 \\ \end{array}$ Difference (d)-(c) $\begin{array}{c} 0.2 \\ \Delta \ 0.2 \\ \Delta \ 0.1 \\ 0.0 \\ 1.7 \\ 0.1 \\ 0.2 \\ \Delta \ 0.7 \\ \end{array}$	121.5 127.5 133.6 140.4 146.9 152.2 154.6 156.4 156.4 157.0 Comprehensive Health Check for Children FY 2011 Mean (e) 21.7 24.1 27.4 31.0 35.7 40.5 45.8 48.5	127.9 133.9 140.0 147.4 152.1 154.9 156.4 157.3 Comprehensive Health Check for Children FY 2012 Mean (f) 21.1 24.0 27.2 31.3 34.8 40.7 44.0 47.4	121.8 127.2 133.8 140.8 147.3 151.7 155.2 156.1 157.1 Comprehensive Health Check for Children FY 2013 Mean (g) 21.1 24.0 27.1 30.8 35.6 40.6 43.8 47.8	$\begin{array}{c} 0.3 \\ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $	0. △ 0. 0. ○ 0. ○ 0. ○ 0. ○ 0. ○ 0. ○ (kg rence (g)-(b) 0. 0. 0. 0. 0. 0. 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0
school Middle school High school Girls' weight Primary school Middle	9 10 11 12 13 14 15 Age (years) 6 7 8 9 10 11 12	127.4 133.5 140.2 146.8 151.9 155.0 156.5 157.1 Nationwide Survey FY 2010 Mean (a) 21.0 23.5 26.5 30.0 34.1 39.0 43.8	127.3 133.6 140.1 146.8 151.8 154.8 156.5 157.0 Nationwide Survey FY 2013 Mean (b) 20.9 23.5 26.4 30.0 34.0 39.0 43.7	Δ 0.1 0.1 0.0 Δ 0.1 Δ 0.2 0.0 Δ 0.1 Δ 0.2 0.0 Δ 0.1 0.0 Δ 0.1 0.0 0.0 Δ 0.1 0.0 0.0 Δ 0.1 0.0 0.0 Δ 0.1 0.0 0.0 Δ 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0	128.1 133.5 139.7 146.9 151.6 155.1 156.2 156.7 Fukushima Prefecture FY 2010 Mean (c) 21.0 24.1 27.2 30.2 34.0 40.0 45.1	127.7 133.3 141.1 147.4 152.1 154.2 156.1 156.4 Fukushima Prefecture FY 2013 Mean (d) 21.2 23.9 27.1 30.2 35.7 40.1 45.3	$\begin{array}{c} \Delta \ 0.4 \\ \Delta \ 0.4 \\ A \ 0.2 \\ \hline 0.5 \\ 0.5 \\ \Delta \ 0.9 \\ \Delta \ 0.1 \\ \Delta \ 0.3 \\ \hline \end{array}$	121.5 127.5 133.6 140.4 146.9 152.2 154.6 156.4 157.0 Comprehensive Health Check for Children FY 2011 Mean (e) 21.7 24.1 27.4 31.0 35.7 40.5	127.9 133.9 140.0 147.4 152.1 154.9 156.4 157.3 Comprehensive Health Check for Children FY 2012 Mean (f) 21.1 24.0 27.2 31.3 34.8 40.7 44.0	121.8 127.2 133.8 140.8 147.3 151.7 155.2 156.1 157.1 Comprehensive Health Check for Children FY 2013 Mean (g) 21.1 24.0 27.1 30.8 35.6 40.6 43.8	$\begin{array}{c} 0.3 \\ \land 0.3 \\ 0.2 \\ 0.4 \\ 0.4 \\ 0.5 \\ 0.6 \\ \land 0.3 \\ 0.1 \\ \end{array}$ Differ $\begin{array}{c} (g) \cdot (e) \\ \land 0.6 \\ \land 0.1 \\ \land 0.3 \\ \land 0.2 \\ \land 0.1 \\ \land 0.3 \\ \land 0.2 \\ \land 0.1 \\ 0.1 \\ \land 0.3 \\ \land 0.2 \\ \land 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ \land 2.0 \\ \end{array}$	0. △ 0. 0. 0. 0. 0. 0. 0. (kg rence (g)-(b) 0. 0. 0. 0. 0. 1. 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0

∆ 0.2 Drawn from the statistical study of school health for FY 2010, 2013 conducted by the Ministry of Education, Culture, Science and Technology in Japan.

53.1

53.2

0.1

53.5

51.7

50.9

Δ 2.6

∆ 0.5

51.4

51.6

High school 15

[Results]

♦Height

Comparing boys' height in FY 2013 with FY 2011, no specific trend was evident for children aged 10 months to 5 years. However, the heights increased among girls aged 10 months to 5 years except those aged 1 year 8-9 months compared to FY 2011.

Comparing the height of primary school boys in FY 2013 with FY 2011, children were taller except those aged 10 years. Comparing it with national averages in FY 2013, children aged 6-11 years were taller.

Comparing the height of middle school boys in FY 2013 with FY 2011, children aged 12 and 14 years were taller, and children aged 13 years were shorter. Comparing it with national averages in FY 2013, children aged 12-14 years were taller.

Comparing the height of boys aged 15 years in FY 2013 with FY 2011 and national averages in FY 2013, those aged 15 years were shorter.

Comparing the height of primary school girls in FY 2013 with FY 2011 and national averages in FY 2013, children were taller except those aged 8 years who were shorter.

Comparing the height of middle school girls in FY 2013 with FY 2011 and national averages in FY 2013, children aged 12 and 14 years were shorter, and children aged 13 years were taller.

Comparing the height of girls aged 15 years in FY 2013 with FY 2011 and national averages in FY 2013, those aged 15 years were taller.

♦ Weight

Comparing children's weight in FY 2013 with FY 2011, most boys and girls aged 10 months to 5 years weigh less. However, boys and girls aged 5 years and older, and girls aged 1 year 4-8 months weigh more.

Comparing the weight of primary school boys in FY 2013 with FY 2011, there was little difference for children aged 6-7 years. Children aged 8-10 years weigh less but those aged 11 years weigh more. Comparing it with national averages in FY 2013, children aged 6-11 years weigh more, and the older the children are, the greater the gap.

Comparing the weight of middle school boys in FY 2013 with FY 2011, children aged 12-13 years weigh less, and children aged 14 years weigh more. Comparing it with national averages in FY 2013, children aged 12-14 years weigh more.

Comparing the weight of boys aged 15 years in FY 2013 with FY 2011, those aged 15 years weigh less but weigh more compared to national averages in FY 2013.

Comparing the weight of primary school girls in FY 2013 with FY 2011, children aged 6-10 years weigh less but those aged 11 years weigh more. Comparing it with national averages in FY 2013, children aged 6-11 years weigh more, and the older the children are, the greater the gap.

Comparing the weight of middle school girls in FY 2013 with FY 2011, children aged 12-14 years weigh less. Comparing it with national averages in FY 2013, those aged 12 and 13 years weigh more and those aged 14 years weigh less.

Comparing the weight of girls aged 15 years in FY 2013 with FY 2011 and national averages in FY 2013, those aged 15 years weigh less.

[Summary]

Comparing the FY 2013 survey with FY 2011, most children of target municipalities including the nationally designated evacuation zones tend to be taller and weigh less possibly due to better lifestyle. Compared it with the national median, most children were taller and weigh more, and the older the children are, the greater the gap especially in weight. (Girls aged 15 years were taller and weighed less.)

Progress Report of Mental Health and Lifestyle Survey

Reported on 12 February 2015

1. Progress Report of Mental Health and Lifestyle Survey for FY 2014

1.1 Purpose

Results of the Mental Health and Lifestyle Survey for FY 2011-2013 show that ongoing care is needed by understanding the residents' mental health and lifestyle changes. We will continue to conduct the survey using survey forms.

For the survey respondents requiring support, we provide effective and efficient support by offering over-the-phone or other support services, as well as by promptly sharing participants' information with municipal governments and the Fukushima Center for Disaster Mental Health.

1.2 Group

Residents of Evacuation Zones (when the FY 2011 survey was sent) as of 15 January 2015

(212,738 people)

[Evacuation Zones]

Hirono, Naraha, Tomioka, Kawauchi, Okuma, Futaba, Namie, Katsurao, Iitate Minami-soma, Tamura, Kawamata, part of Date (the area with a specific spot recommended for evacuation)

1.3 Survey Methods

We plan to send survey forms (to be filled out by self or parent/guardian) to the participants from early February 2015.

1.3-1 Classification

Category	Age Criteria	Method
Adults	Born before 1 April 1999	Self-administered
Middle	Born between 2 April 1999 and 1 April 2002	Partially
school age		self-administered
Primary	Born between 2 April 2002 and 1 April 2008	Completed by parents
school age		
4-6 years	Born between 2 April 2008 and 1 April 2011	Completed by parents
0-3 years	Born between 2 April 2011 and 1 April 2014	Completed by parents

1.3-2 Survey Items

- Mental and physical health
- Lifestyle (diet, sleep, smoking, alcohol and exercise)
- Activities
- Living environment and relationships (for adults)

1.3-3 Support after the Survey

- Doctors and other professionals at Fukushima Medical University (FMU) will evaluate and analyse the survey responses. The Mental Health Support Team consisting of clinical psychiatrists, public health nurses and other professionals will provide phone or other forms of support to respondents determined to require counseling or support for mental health or lifestyle problems.
- Participants determined to require examination by a doctor will be referred to a registered physician (*see next section) at a medical facility in the Fukushima Prefecture. Those requiring continued support will be connected to the municipal government of the area to which they evacuated and the Fukushima Center for Disaster Mental Health, where their support needs will be reviewed and met.
- At the registered doctor's discretion, participants determined to require further professional mental health care will be handled by FMU and cooperating institutions in the normal course of treatment. Specifically, children will be handled at the Children's Mental Health Treatment Center and all others will be handled in the Department of Psychosomatic Medicine.

• The Mental Health Support Team will offer information and advice about radiation to participants, and those participants determined to require assistance from a particular relevant specialist will be handled by the Radiation Health Consultation Team comprised of professors from FMU. If an individual inquiring about the health effects of radiation or some other issue needs to have a medical examination, specialist doctors and other professionals will determine the course of action.

2. Registered Physicians

Registered physicians are psychiatrists or pediatricians who provide services to participants determined to require healthcare services based on the Mental Health and Lifestyle Survey.

To be eligible for registration, a psychiatrist or a pediatrician needs to attend the accredited workshops held by FMU. The number of registrants is 143 from 83 medical institutions as of 31 December 2014.

Result of Mental Health and Lifestyle Survey for FY 2013

1. Purpose

The Great East Japan Earthquake on 11 March 2011 and the following accident at the Fukushima Daiichi Nuclear Power Plant brought the residents of Fukushima Prefecture psychological distress or post-traumatic stress disorder (PTSD) caused by anxiety, evacuation, loss of property, and fearful experiences. The survey started in FY 2011 to understand the residents' mental health and lifestyle, and provide them with appropriate care.

As mental health services should involve medium- and long-term support, we will continue to conduct the survey to convey a strong message of ongoing care and support to the participants. Additionally, further support is needed based on understanding the changes in their situation that have occurred as well as the causes of these changes.

The survey responses were analyzed by doctors and other professionals at Fukushima Medical University (FMU). A Mental Health Support Team consisting of clinical psychologists, public health nurses and others performed consultations to those determined to require counseling or support for mental health or lifestyle problems.

2. Methods

2.1. Support Group

Respondents to the Mental Health and Lifestyle Survey for FY 2013, who are residents of nationally designated evacuation areas born on or before 1 April 2013, and apply to the following selection criteria.

We have five types of surveys according to age.

Age 0-3 years	: Participants born between April 2, 2010 and April 1, 2013.
Age 4-6 years	: Participants born between April 2, 2007 and April 1, 2010.
Primary School	: Participants born between April 2, 2001 and April 1, 2007.
Middle School	: Participants born between April 2, 1998 and April 1, 2001.
Adults	: Participants born on or before April 1, 1998.

2.2 Criteria for Support

We provided telephone counseling or support by sending written materials according to the urgency and severity. In this survey, 'children' refers to the participants of middle school age and below.

Criteria for support are based on A) Scale scores and B) Items other than scales.

2.2-1 Telephone Counseling

Respondents who required support (A):

Children with SDQ (Strength and Difficulties Questionnaire) score ≥20, adults with K6 (general mental health conditions) score ≥13 and PCL (trauma response) score ≥50, or adults with K6 score ≥17 regardless of their PCL score.

Respondents who required support (B):

- Children and adults identified based on the content of free-answer questions and in urgent need of support.
- Adults with a previous history of hypertension or diabetes who have not received treatment with a BMI ≥27.5 (calculated from weight and height written in the survey) and a weight gain of ≥3 kg after the disaster, or those who consume, on average, ≥540 ml alcoholic drinks per day.
- Adults with a history of mental disorders who are not currently visiting a clinic.

2.2-2 Written Materials

Respondents who required support (A):

Children with SDQ score ≥16 (criterion in initial screening) and adults with K6 score ≥13 or PCL score ≥44 (criteria in initial screening), who did not meet the criteria for telephone counseling.

Respondents who required support (B):

- Children and adults identified based on the content of free-answer questions and not in urgent need of support.
- Adults who neither meet the above criteria nor receive medical treatment with sleep disorder, depression and decreased activity.
- Adults with CAGE (method of screening for alcoholism) score ≥ 2 out of 4.

We sent the respondents who required written support materials a letter with a special phone number for support, and a return postcard asking their desire for telephone support. Telephone support was provided for those who indicated their desire for support, or those who were determined to require support based on the reply content.

2.3. Categories of Results and Continued Support

The results of the telephone counseling were categorized into four groups: Follow-up 1, 2, 3, and 'Declined support.' The participants requiring continued support were given follow-up with telephone counseling, or connected to municipal governments and the Fukushima Center for Disaster Mental Health. Participants determined to require examination by a doctor were referred to a registered physician, or informed of the medical institutions and services they needed. When necessary, we contacted the participants' physicians to share information.

2.3-1 Categories of Results

Follow-up 1	: Participants confirmed to be improving or self-managing their problems.
Follow-up 2	: Participants not recovering from health problems, the emotional aftermath,
	adjustment problems, etc.
Follow-up 3	: Participants whose status could not be confirmed.
Declined support	: Participants who clearly conveyed that they did not want support.

2.3-2 Continued Support

Follow-up	: Participants requiring continued telephone counseling.						
Municipal government	: Participants required to be connected to municipal government.						
Referral	: Participants referred to registered doctors.						
Sent list of registered docto	ors within Fukushima Prefecture:						
	Participants sent information of registered doctors.						
Sent information of medical institutions outside the prefecture:							
	Participants sent information of institutions outside the prefecture						
	for support.						
Sharing information	: Participants' information was shared with their home doctors.						
Provided information	: Participants were provided information of medical institutions or						
	services they needed by telephone during or after the telephone						
	counseling.						
Handled by other departme	nts:						
	Participants needing services related to the Basic Survey and/or						
	Thyroid Ultrasound Examination of FMU's Radiation Medical						
	Science Center.						

3. Results

3.1 Numbers of Respondents Requiring Support and the Support Provided

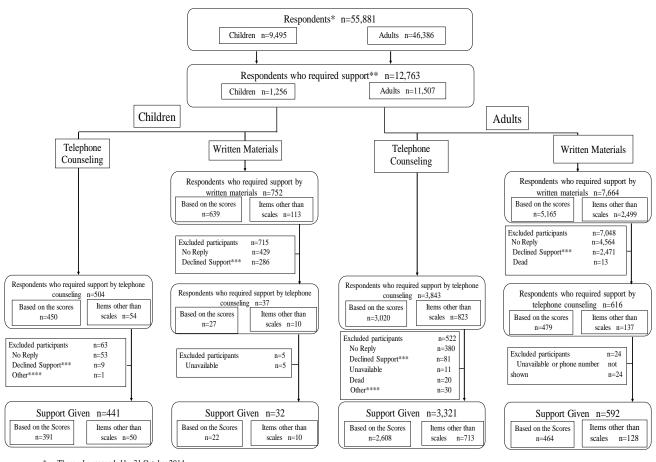
A total of 1,256 children required support; 504 of them needed telephone counseling and 752 were determined to require support with written materials. Of the 752 participants, 37 were determined to require telephone counseling based on the responses to the written materials.

A total of 11,507 adults required support; 3,843 of them needed telephone counseling and 7,664 were determined to require support with written materials. After receiving the support with written materials, 616 were determined to require telephone counseling. The number of those who only met the criteria of CAGE test scores was 2,010.

To those who were identified as requiring support but could not be reached for telephone support (except for the deceased), and to those who only met the criteria of CAGE test scores, information was provided by sending booklet made by Radiation Medical Science Center of FMU: *Mental Health and Lifestyle Support*.

Figure 1 shows the numbers of respondents requiring support and the support provided. It excludes participants who only met the criteria of CAGE test scores.

The percentages are rounded and may not total to 100%.



* Those who responded by 31 October 2014.

** Those who were determined to require support by 31 December 2014.*** Those who declined support by replying to the written support materials.

(Excluding the participants who indicated no desire for support in the return postcard.)

**** Those who received telephone counseling but not enough support during a given time.

Figure 1: Number of participants required support and the number of support provided

3.2 Children

Since SDQ is for children aged 4 years and older, children aged 0-3 years old were determined on the basis of the free-answer question. Since few participants who had been sent written materials received telephone counseling (2 of age 0-3 years, 8 of age 4-6 years, 17 of primary school age, 5 of middle school age), the following results combine participants requiring telephone counseling with the number of those determined to require phone support based on the written materials.

3.2-1 Status of Respondents Requiring Support

A total of 541 children required support; 504 of them needed telephone counseling and 37 were determined to require telephone support on the basis of the written support materials. Of these 541 children, 321 (59.3%) were male and 220 (40.7%) were female. Phone support was successfully provided to 473 (87.4%) of the total. Respondents living within Fukushima Prefecture were 330 (69.8%) and 143 (30.2%) were living outside Fukushima (Table 1).

Participants requiring support	Total 541	0-3 years 10	4-6 years 124	Primary school age 265	Middle school age 142
Male	321 (59.3%)	3 (30.0%)	79 (63.7%)	165 (62.3%)	74 (52.1%)
Female	220 (40.7%)	7 (70.0%)	45 (36.3%)	100 (37.7%)	68 (47.9%)
Support Given	473	9	110	232	122
Within Fukushima	330 (69.8%)	6 (66.7%)	76 (69.1%)	158 (68.1%)	90 (73.8%)
Outside Fukushima	143 (30.2%)	3 (33.3%)	34 (30.9%)	74 (31.9%)	32 (26.2%)

Table 1: Status of children requiring support (By sex and area)

The numbers shown of those given support only include participants who were provided telephone counseling.

3.2-2 Participants' State of Health

In order to more comprehensively understand the situation the participants are facing, we added new question items with the help of physicians specialized in child and adolescent psychiatry. Table 2 shows the frequency of the questions and answers talked about with participants (or guardians) during the telephone support.

Number of	Tot	al	0-3 years		4-6	5 years	Primary	school age	Middle	school age
Support Given	473	3		9		110	2	232	1	22
Have sleeping problems										
Yes	53 (1	12.9%)	0	(0.0%)	8	(7.8%)	28	(14.0%)	17	(16.7%)
No	358 (8	87.1%)	7	(100.0%)	94	(92.2%)	172	(86.0%)	85	(83.3%)
Unclear	62	-	2	-	8	_	32	-	20	-
Have an appetite										
Yes	367 (9	91.3%)	6	(85.7%)	93	(93.9%)	180	(91.4%)	88	(88.9%)
No		(8.7%)	1	(14.3%)	6	(6.1%)		(8.6%)		(11.1%)
Unclear	71	-	2	-	11	-	35	-	23	-
Have friendship problems										
Yes	124 (3	32.6%)	1	(25.0%)	19	(22.1%)	67	(34.9%)	37	(37.8%)
No		67.4%)	3	(75.0%)	67	(77.9%)		(65.1%)		(62.2%)
Unclear	93	-	5	-	24	-	40	. ,		-
Full of energy										
Yes	367 (9	93.1%)	5	(83.3%)	93	(100.0%)	183	(93.8%)	86	(86.0%)
No	27	(6.9%)	1	(16.7%)	0	(0.0%)	12	(6.2%)	14	(14.0%)
Unclear	79	-	3	-	17	-	37	-	22	-
Somatoform Disorders										
Yes	46 (1	12.4%)	1	(16.7%)	10	(11.2%)	21	(11.5%)	14	(14.9%)
No	326 (8	87.6%)	5	(83.3%)	79	(88.8%)	162	(88.5%)	80	(85.1%)
Unclear	101	-	3	-	21	-	49	-	28	-
Rebellious										
Yes	104 (3	31.4%)	1	(33.3%)	24	(29.6%)		(30.1%)	30	(35.7%)
No	227 (6	68.6%)	2	(66.7%)	57	(70.4%)	114	(69.9%)	54	(64.3%)
Unclear	142	-	6	-	29	-	69	-	38	-
Irritable										
Yes		34.4%)	0	(0.0%)	27	(32.5%)		(33.3%)		(39.8%)
No		65.6%)		(100.0%)	56	(67.5%)		(66.7%)		(60.2%)
Unclear	136	-	6	-	27	-	64	-	39	-
Emotionally dependent										
Yes		38.0%)	2	(100.0%)	22	(29.7%)		(42.8%)		(34.8%)
No	178 (6	62.0%)	0	(0.0%)	52	(70.3%)		(57.2%)	43	(65.2%)
Unclear	186	-	7	-	36	-	87	-	56	-
Bored			~	(0,00)	~	(0.04)	-			
Yes		(1.2%)	0	(0.0%)	0	(0.0%)		(1.7%)		(1.7%)
No	,	98.8%)		(100.0%)		(100.0%)		(98.3%)		(98.3%)
Unclear	225	-	6	-	44	-	111	-	64	-

Table 2-1: State	of boolth of	nortiainant	who received	talanhana	agungaling
Table 2-1. State	of nearm of	Darticidants	s who received		counsening
		r · · · r · · ·			

The participants who did not mention the issue go to 'Unclear' category.

Proportions do not include the number of 'Unclear'.

Number of Total			0-3 years			years	Primary school age Middle school			
Support Given		173		9		110	1	232	1	122
Have developmental problem										
Yes		(20.8%)	1	(16.7%)	15	(75.0%)		(16.3%)		(18.6%
No	243	(79.2%)	5	(83.3%)	5	(25.0%)		(83.7%)	79	(81.4%
Unclear	166	-	3	-	90	-	48	-	25	-
Have emotional or										
behavioral problems		(0.4.40)	0	(0,00())		(10.00())		(20.50)		(a < 00)
Yes		(24.4%)	0	(0.0%)	12	(13.3%)		(29.6%)		(26.0%
No		(75.6%)		(100.0%)	78	(86.7%)		(70.4%)		(74.0%
Unclear	96	-	4	-	20	-	46	-	26	-
Mental disorder Yes	12	(2, 20%)	0	(0.0%)	0	(0.0%)	7	(3.8%)	5	(5.10)
No		(3.2%) (96.8%)		(0.0%) (100.0%)		(0.0%)		(3.8%)		(5.1%
Unclear	303 98	(90.8%)	3 4	(100.0%)	88 22	(100.0%)	48	-	93 24	(94.9%
Traumatic stress reaction		-	4	-	22	-	40	-	24	-
Yes		(12.7%)	0	(0.0%)	7	(8.3%)	20	(16.5%)	٥	(9.9%
No		(12.7%)		(100.0%)	, 77	(91.7%)		(10.5%)		(90.1%
Unclear	119	-	6	-	26	(91.7%)	56		31	`
School adjustment	11)		0		20		50		51	
Well-adjusted	369	(90.7%)	1	(100.0%)	88	(96.7%)	190	(91.8%)	90	(83.3%
Fail to adjust	38	(9.3%)	0	(0.0%)	3	(3.3%)		(8.2%)		(16.7%
Unclear	66	-	8		19	-	25	-	14	
Household or										
environmental problem										
Yes	38	(10.1%)	0	(0.0%)	3	(3.4%)	23	(12.4%)	12	(12.2%
No	340	(89.9%)	5	(100.0%)	86	(96.6%)	163	(87.6%)	86	(87.8%
Unclear	95	-	4	-	21	-	46	-	24	-
Guardian's anxiety										
about child rearing										
Yes	125	(30.3%)	4	(57.1%)	20	(20.8%)	67	(32.5%)	34	(32.7%
No	288	(69.7%)	3	(42.9%)	76	(79.2%)	139	(67.5%)	70	(67.3%
Unclear	60	-	2	-	14	-	26	-	18	-
Guardian's physical										
problems		(10.0-1)		(0.0)			•			
Yes		(10.3%)	0	(0.0%)	10	(10.4%)		. ,		(12.1%
No		(89.7%)		(100.0%)	86	(89.6%)		(90.3%)		(87.9%
Unclear	57	-	2	-	14	-	26	-	15	-
Guardian's mental										
problems Yes	71	(17.2%)	0	(0.0%)	12	(12 10/)	20	(10.0%)	10	(19 40
No				(0.0%)	13 86	(13.1%) (86.9%)		(19.0%) (81.0%)		(18.4%
Unclear	542 60	(82.8%)	6 3	(100.0%)	80 11	(80.9%)	27	(81.0%)	84 19	(81.6%
Treatments	00	-	3	-	11	-	21	-	17	-
Psychiatry or	<u> </u>	(10.201)		(10	_	/= =-··		(0.4		11
psychosomatic medicine	37	(10.2%)	1	(12.5%)	5	(5.7%)	16	(9.1%)	15	(16.1%
Other	41	(11.3%)	2	(25.0%)	11	(12.6%)	20	(11.4%)	8	(8.6%
No	286	(78.6%)	5	(62.5%)	71	(81.6%)	140	(79.5%)	70	(75.3%
Unclear	109	-	1	-	23	-	56	-	29	-
Contacting institutions for counseling										
Yes	57	(17.8%)	4	(50.0%)	10	(12.7%)	27	(17.1%)	16	(21.3%
No		(82.2%)	4	(50.0%)	69	(87.3%)		(82.9%)		(78.7%
Unclear	153		1	_	31	_	74	-	47	

Table 2-2: State of health of participants who received telephone counseling

The participants who did not mention the issue go to 'Unclear' category.

Proportions do not include the number of 'Unclear'.

Among the participants who received the telephone support, the most frequently discussed issues were the following: 124 participants had friendship problems (32.6%), 104 talked about rebellious behaviors (31.4%), 116 discussed becoming irritable (34.4%), 109 talked about being emotionally dependent (38.0%), and 125 guardians had anxiety about child rearing (30.3%).

As of treatments, 37 visited psychiatrists or psychosomatic medicine services (10.2%), 41 visited other departments or clinics (11.3%), and 286 did not visit any clinics (78.6%).

3.2-3 Results of Telephone Counseling and Continued Support

The results of the support were categorized into 'Follow-up 1,' 'Follow-up 2,' 'Follow-up 3,' and 'Declined Support' as was the case in the previous surveys (Table 3). The breakdown below shows the criteria of 'Follow-up 2,' which were divided into the problems faced by the children and the problems faced by the guardians (Table 4). Numbers in the breakdown (Table 4) refer to the total number and the proportion in the brackets show the ratio of total number to the number of 'Follow-up 2.'

After the telephone support, 355 (75.1%) were categorized as 'Follow-up 1,' 102 (21.6%) were categorized as 'Follow-up 2,' 9 (1.9%) were categorized as 'Follow-up 3,' and 7 (1.5%) declined support (Table 3). Among the participants who were categorized as 'Follow-up 2,' 34 children (33.3%) had school adjustment problems, and 28 children (27.5%) and 39 guardians (38.2%) had mental problems.

Number of support given	Total 473	0-3 years 9		4-6 years 110		•	school age 232		school age 22
Follow-up 1	355 (75.1%)	8	(88.9%)	86	(78.2%)	173	(74.6%)	88	(72.1%)
Follow-up 2	102 (21.6%)	1	(11.1%)	19	(17.3%)	51	(22.0%)	31	(25.4%)
Follow-up 3	9 (1.9%)	0	(0.0%)	3	(2.7%)	5	(2.2%)	1	(0.8%)
Declined support	7 (1.5%)	0	(0.0%)	2	(1.8%)	3	(1.3%)	2	(1.6%)

Table 3: Results of support given (Children)

	Тс	otal	0-3 years		4-6 years		Primary school age		Middle school age 31	
Number of 'Follow-up 2'	1	102		1		19		51		
(Children)										
Physical Problems	9	(8.8%)	0	(0.0%)	2	(10.5%)	3	(5.9%)	4	(12.9%)
Mental Problems	28	(27.5%)	0	(0.0%)	0	(0.0%)	15	(29.4%)	13	(41.9%)
Emotional aftermath	14	(13.7%)	0	(0.0%)	6	(31.6%)	6	(11.8%)	2	(6.5%)
Adjustment disorder	34	(33.3%)	0	(0.0%)	13	(68.4%)	8	(15.7%)	13	(41.9%)
Other	20	(19.6%)	1	(100.0%)	5	(26.3%)	8	(15.7%)	6	(19.4%)
(Guardian)										
Physical Problems	14	(13.7%)	0	(0.0%)	2	(10.5%)	7	(13.7%)	5	(16.1%)
Mental Problems	39	(38.2%)	0	(0.0%)	9	(47.4%)	20	(39.2%)	10	(32.3%)
Child Rearing Problems	18	(17.6%)	0	(0.0%)	4	(21.1%)	7	(13.7%)	7	(22.6%)
Isolation	5	(4.9%)	0	(0.0%)	1	(5.3%)	2	(3.9%)	2	(6.5%)
Other	8	(7.8%)	1	(100.0%)	1	(5.3%)	6	(11.8%)	0	(0.0%)

Table 4: Breakdown of 'Follow-up 2'

As a continued support, 28 were categorized as 'Follow-up,' 4 were connected to municipal governments, 5 were sent list of registered doctors within Fukushima Prefecture, 1 was categorized as 'Sharing information,' 9 were provided information, and 1 was handled by other departments (Table 5).

Number of support	To	otal	0-3	0-3 years		4-6 years		school age	Middle s	school age
given	4	73		9		110		32	122	
Follow-up	28	(5.9%)	1	(11.1%)	5	(4.5%)	11	(4.7%)	11	(9.0%)
Municipal government	4	(0.8%)	0	(0.0%)	2	(1.8%)	1	(0.4%)	1	(0.8%)
Referral	0	(0.0%)	0	(0.0%)	0	(0.0%)	0	(0.0%)	0	(0.0%)
Sent list of registered doctors within Fukushima Prefecture	5	(1.1%)	0	(0.0%)	0	(0.0%)	4	(1.7%)	1	(0.8%)
Sent list of medical institutions outside the prefecture	0	(0.0%)	0	(0.0%)	0	(0.0%)	0	(0.0%)	0	(0.0%)
Sharing information	1	(0.2%)	0	(0.0%)	0	(0.0%)	1	(0.4%)	0	(0.0%)
Provided information	9	(1.9%)	0	(0.0%)	2	(1.8%)	4	(1.7%)	3	(2.5%)
Handled by other departments	1	(0.2%)	0	(0.0%)	1	(0.9%)	0	(0.0%)	0	(0.0%)

Table 5: Continued support for children

3.2-4 Problems Faced by Participants (children)

Since the Mental Health and Lifestyle Survey in FY 2011, we have used analytic induction to understand the problems discussed by participants on the phone. The problems fall into four broad categories: child's reaction, parent/guardian and family problems, school and neighborhood relationships, and environment. Child's reaction and parent/guardian and family problems divide into subcategories. Figure 2 is the conceptual diagram of those problems.

The content of the respondents' problems mentioned for the FY 2013 survey were categorized, as was the case in FY 2012, based on the categories from the survey for FY 2011.

Frequently mentioned problems in the FY 2013 survey were impact on school and irritability and violence (from the category 'child's reaction'), and parent/guardian's problems from the category 'parent/guardian and family problems.'

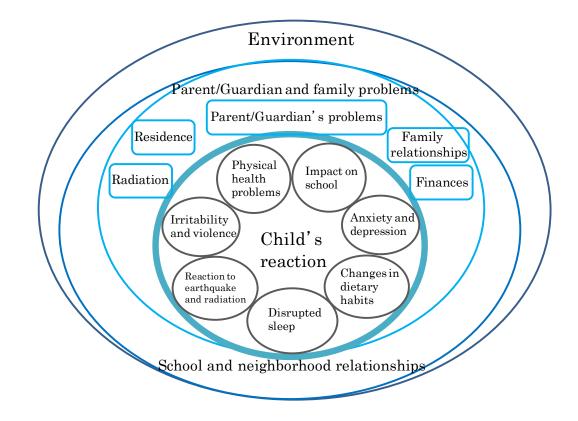


Figure 2: Conceptual diagram of problems faced by participants (children)

3.3 Adults

3.3-1 Status of Respondents Requiring Support

(Telephone Counseling)

A total of 3,843 adults required telephone counseling. Among the 3,020 participants identified on the basis of the scores, 1,150 (38.1%) were male and 1,870 (61.9%) were female. 823 participants were determined on the basis of items other than scores. Of these, 392 (47.6%) were male and 431 (52.4%) were female (Table 6). Telephone support was provided to 3,321 (86.4%). Among the participants, 2,622 (79.0%) lived within Fukushima Prefecture and 699 (21.0%) lived outside Fukushima (Table 7).

Table 6: Participants requiring telephone counseling (By sex and age group)

	Based on the scores						Based on the items other than scales				
Age group	Total	Μ	[ale	Fe	emale	Total	N	/Iale	Female		
15-19	55	21	(38.2%)	34	(61.8%)	13	5	(38.5%)	8	(61.5%)	
20-29	124	40	(32.3%)	84	(67.7%)	45	16	(35.6%)	29	(64.4%)	
30-39	295	116	(39.3%)	179	(60.7%)	90	35	(38.9%)	55	(61.1%)	
40-49	303	132	(43.6%)	171	(56.4%)	114	63	(55.3%)	51	(44.7%)	
50-59	416	170	(40.9%)	246	(59.1%)	161	101	(62.7%)	60	(37.3%)	
60-69	657	274	(41.7%)	383	(58.3%)	217	98	(45.2%)	119	(54.8%)	
70-79	691	254	(36.8%)	437	(63.2%)	123	55	(44.7%)	68	(55.3%)	
80-	479	143	(29.9%)	336	(70.1%)	60	19	(31.7%)	41	(68.3%)	
Total	3,020	1,150	(38.1%)	1,870	(61.9%)	823	392	(47.6%)	431	(52.4%)	

Ages are at the time of 1 April 2013.

Table 7: Participants requiring telephone counseling (By area)

	1 0	1	6.1			
	Support given		Based on	Based on the scores		than scales
Area of residence	3,3	21	2,6	608	713	
Within Fukushima	2,622	(79.0%)	2,049	(78.6%)	573	(80.4%)
Outside Fukushima	699	(21.0%)	559	(21.4%)	140	(19.6%)

The numbers shown of those given support only include participants who were provided telephone counseling.

(Written Materials)

Among the participants requiring written support materials, a total of 616 required telephone counseling. Out of the 479 participants identified on the basis of the scores, 210 (43.8%) were male and 269 (56.2%) were female. 137 participants were determined on the items other than scales. Of these, 76 (55.5%) were male and 61 (44.5%) were female (Table 8). The telephone counseling was provided to 592 (96.1%). Of these, 483 (81.6%) lived within Fukushima Prefecture and 109 (18.4%) lived outside Fukushima (Table 9).

Table 8: Participants required telephone counseling among those who required support by

Based on the scores Based on the items other than scales Total Total Male Female Male Female Age group 2 15-19 1 0 (100.0%)0 (0.0%)(0.0%)1 2 (100.0%)20-29 6 2 (33.3%) 4 (66.7%) 3 1 (33.3%) 2 (66.7%) 30-39 16 6 (37.5%) 10 (62.5%) 4 3 (75.0%)1 (25.0%)40-49 19 8 (42.1%)(57.9%) 12 3 (25.0%)9 (75.0%) 11 50-59 45 17 (37.8%) 28 (62.2%) 15 10 (66.7%) 5 (33.3%) 60-69 79 39 (49.4%) 40 (50.6%) 49 28 21 (42.9%) (57.1%) 70-79 195 82 (42.1%) 28 15 113 (57.9%) (53.6%) 13 (46.4%) 80-118 56 (47.5%) 62 (52.5%) 24 14 (58.3%) 10 (41.7%) Total 479 210 (43.8%) 269 (56.2%)137 76 (55.5%)61 (44.5%)

written materials (By sex and age group)

Ages are at the time of 1 April 2013.

Table 9: Participants required telephone counseling among those who required support by written materials (By area)

	Support given		Based on the scores		Items other than scales		
Area of residence	592		46	54	128		
Within Fukushima	483	(81.6%)	380	(81.9%)	103	(80.5%)	
Outside Fukushima	109	(18.4%)	84	(18.1%)	25	(19.5%)	

The numbers shown of those given support only include participants who were provided telephone counseling.

3.2-2 Participants' State of Health

(Telephone Counseling)

We asked participants about their physical condition, sleep, and the medical institutions where they are treated.

Number of support	Total		Based on t	the scores	Items other	than scales
given	3,3	21	2,6	08	71	3
Physical condition						
Improved	417	(13.4%)	280	(11.5%)	137	(20.1%)
No change	2,080	(66.6%)	1,642	(67.3%)	438	(64.2%)
Worse	502	(16.1%)	450	(18.4%)	52	(7.6%)
Have not had problems	123	(3.9%)	68	(2.8%)	55	(8.1%)
Unclear	199	—	168	—	31	_
Sleep disorders						
Improved	339	(11.2%)	245	(10.4%)	94	(13.9%)
No change	2,279	(75.0%)	1,791	(75.8%)	488	(72.3%)
Worse	243	(8.0%)	217	(9.2%)	26	(3.9%)
Have not had problems	178	(5.9%)	111	(4.7%)	67	(9.9%)
Unclear	282	_	244	_	38	_
Treatments						
Psychiatry or psychosomatic medicine	468	(15.4%)	426	(17.9%)	42	(6.3%)
Other	1,959	(64.3%)	1,587	(66.8%)	372	(55.4%)
None	621	(20.4%)	364	(15.3%)	257	(38.3%)
Unclear	273	—	231	—	42	—
Contacting institutions for counseling						
Yes	459	(28.6%)	296	(25.7%)	163	(36.0%)
No	1,145	(71.4%)	855	(74.3%)	290	(64.0%)
Unclear	1,717	_	1,457	_	260	_
Depression						
Yes	1,245	(44.2%)	1,104	(50.3%)	141	(22.7%)
No	1,570	(55.8%)	1,091	(49.7%)	479	(77.3%)
Unclear	506	_	413	_	93	_
Reaction to earthquake						
Severe	147	(7.0%)	140	(7.8%)	7	(2.2%)
Mild	277	(13.2%)	248	(13.8%)	29	(9.3%)
None	1,679	(79.8%)	1,403	(78.3%)	276	(88.5%)
Unclear	1,218	_	817	_	401	_

Table 10: State of health of participants who received telephone counseling

The participants who did not mention the issue go to 'Uncertain' category.

Proportion does not include the number of 'Unclear'.

Comparing physical conditions with a year ago, 417 (13.4%) saw improvement, 2,080 (66.6%) saw no changes, 502 (16.1%) became worse, and 123 (3.9%) have not had problems so far.

Asked about their sleep compared to a year ago, 339 (11.2%) saw improvement, 2,279 (75.0%) saw no changes, 243 (8.0%) became worse, 178 (5.9%) have not had problems so far.

As for clinics, 468 (15.4%) were treated by psychiatrists or psychosomatic medicine specialists, 1,959 (64.3%) were treated by other specialists, and 621 (20.4%) did not see a doctor.

(Written Materials)

We provided telephone counseling to those who indicated their desire for telephone support by return postcard, and to those who were determined by the Mental Health Support Team that they required support based on the content of the reply. We asked participants over the phone about their physical condition, sleep, and what medical institutions they visited for consultation.

Number of support	To		Based on t	he scores	Items other than scales		
given	59		46	4	128		
Physical condition							
Improved	47	(8.7%)	35	(8.3%)	12	(9.9%)	
No change	368	(67.8%)	295	(69.9%)	73	(60.3%)	
Worse	97	(17.9%)	80	(19.0%)	17	(14.0%)	
Have not had problems	31	(5.7%)	12	(2.8%)	19	(15.7%)	
Unclear	49	_	42		7	_	
Sleep disorders							
Improved	27	(5.2%)	18	(4.4%)	9	(7.8%)	
No change	400	(76.8%)	326	(80.3%)	74	(64.3%)	
Worse	25	(4.8%)	19	(4.7%)	6	(5.2%)	
Have not had problems	69	(13.2%)	43	(10.6%)	26	(22.6%)	
Unclear	71	_	58	—	13	—	
Treatments							
Psychiatry or psychosomatic medicine	42	(7.5%)	39	(8.9%)	3	(2.4%)	
Other	438	(78.1%)	365	(83.3%)	73	(59.3%)	
None	81	(14.4%)	34	(7.8%)	47	(38.2%)	
Unclear	31	_	26	_	5	_	
Contacting institutions for counseling							
Yes	89	(41.4%)	50	(33.3%)	39	(60.0%)	
No	126	(58.6%)	100	(66.7%)	26	(40.0%)	
Unclear	377	_	314	_	63	_	
Depression							
Yes	139	(28.8%)	117	(31.3%)	22	(20.4%)	
No	343	(71.2%)	257	(68.7%)	86	(79.6%)	
Unclear	110	_	90	_	20	_	
Reaction to earthquake							
Severe	12	(3.6%)	12	(3.8%)	0	(0.0%)	
Mild	21	(6.3%)	17	(5.4%)	4	(25.0%)	
None	300	(90.1%)	288	(90.9%)	12	(75.0%)	
Unclear	259	_	147	_	112	_	

Table 11: State of health of participants who received telephone counseling among those who required support by written materials

The participants who did not mention the issue go to 'Uncertain' category.

Proportion does not include the number of 'Unclear'.

Comparing the physical condition with a year ago, 47 (8.7%) saw improvement, 368 (67.8%) saw no changes, 97 (17.9%) became worse, 31 (5.7%) have not had problems so far.

Asked about their sleep compared to a year ago, 27 (5.2%) saw improvement, 400 (76.8%) saw no changes, 25 (4.8%) became worse, 69 (13.2%) have not had problems so far.

As for clinics, 42 (7.5%) were treated by psychiatrists or psychosomatic medicine specialists, 438 (78.1%) were treated by other specialists, and 81 (14.4%) did not see a doctor.

3.3-3 Results of Telephone Counseling and the Continued Support

The results of the support were categorized into 'Follow-up 1,' 'Follow-up 2,' 'Follow-up 3,' and 'Declined Support' as was the case in the previous surveys. The breakdown below shows the criteria of 'Follow-up 2.' Numbers in the breakdown (Table 13 and 16) refer to the total number and the proportion in the brackets show the ratio of total number to the number of 'Follow-up 2.'

(Respondents Required Telephone Counseling)

After the telephone counseling, 2,573 (77.5%) were designated as 'Follow-up 1,' 599 (18.0%) as 'Follow-up 2,' 114 (3.4%) as 'Follow-up 3,' and 35 (1.1%) as 'Declined Support' (Table 12). The reasons for 'Follow-up 2' were categorized into the following: 308 (51.4%) for physical health problems, 412 (68.8%) for mental health problems, 64 (10.7%) for emotional aftermath, 63 (10.5%) for adjustment problems, 69 (11.5%) for isolation (Table 13).

Number of support	Total		Based	Based on the scores		er than scales	
given	3,321			2,608	713		
Follow-up 1	2,573	(77.5%)	1,982	(76.0%)	591	(82.9%)	
Follow-up 2	599	(18.0%)	501	(19.2%)	98	(13.7%)	
Follow-up 3	114	(3.4%)	94	(3.6%)	20	(2.8%)	
Declined support	35	(1.1%)	31	(1.2%)	4	(0.6%)	

Table 12: Results of telephone counseling

Table 13: Breakdown of the reasons for 'Follow-up 2'

	Total		Based on the scores		Items other than scales	
Number of 'Follow-up 2'	599		501		98	
Physical problems	308	(51.4%)	 261	(52.1%)	47	(48.0%)
Mental problems	412	(68.8%)	347	(69.3%)	65	(66.3%)
Emotional aftermath	64	(10.7%)	57	(11.4%)	7	(7.1%)
Adjustment disorder	63	(10.5%)	59	(11.8%)	4	(4.1%)
Isolation	69	(11.5%)	62	(12.4%)	7	(7.1%)

For continued support, 214 were designated as 'Follow-up,' 65 were connected to the municipal government, 8 were sent a referral, 34 were sent list of registered doctors within Fukushima Prefecture, 5 were sent list of medical institutions outside Fukushima, 4 were designated as 'Sharing information,' 34 were provided information, and 6 were handled by other departments (Table 14).

Table 14: Continued support	
-----------------------------	--

Number of support	To	otal	Based or	Based on the scores Items other that		er than scales
given	3,3	321	2,	608	-	713
Follow-up	214	(6.4%)	121	(4.6%)	93	(13.0%)
Municipal government	65	(2.0%)	56	(2.1%)	9	(1.3%)
Referral	8	(0.2%)	7	(0.3%)	1	(0.1%)
Sent list of registered doctors within Fukushima Prefecture	34	(1.0%)	29	(1.1%)	5	(0.7%)
Sent list of medical institutions outside the prefecture	5	(0.2%)	2	(0.1%)	3	(0.4%)
Sharing information	4	(0.1%)	3	(0.1%)	1	(0.1%)
Provided information	34	(1.0%)	28	(1.1%)	6	(0.8%)
Handled by other departments	6	(0.2%)	5	(0.2%)	1	(0.1%)

(Respondents Requiring Written Support Materials)

After the telephone counseling, 506 (85.5%) were designated as 'Follow-up 1,' 78 (13.2%) as 'Follow-up 2,' 6 (1.0%) as 'Follow-up 3,' and 2 (0.3%) as 'Declined Support' (Table 15). The reasons for 'Follow-up 2' were categorized into the following: 48 (61.5%) for physical health problems, 42 (53.8%) for mental health problems, 4 (5.1%) for emotional aftermath, 4 (5.1%) for adjustment problems, 3 (3.8%) for isolation (Table 16).

Table 15: Results of the telephone counseling among those who required support

by written ma	terials						
Number of support given	Total 592			Based on the scores 464		Items other than scales 128	
Follow-up 1	506	(85.5%)	395	(85.1%)	111	(86.7%)	
Follow-up 2	78	(13.2%)	62	(13.4%)	16	(12.5%)	
Follow-up 3	6	(1.0%)	6	(1.3%)	0	(0.0%)	
Declined support	2	(0.3%)	1	(0.2%)	1	(0.8%)	

	Total		Based or	Based on the scores		r than scales
Number of 'Follow-up 2'	78		62		16	
Physical problems	48	(61.5%)	36	(58.1%)	12	(75.0%)
Mental problems	42	(53.8%)	36	(58.1%)	6	(37.5%)
Emotional aftermath	4	(5.1%)	4	(6.5%)	0	(0.0%)
Adjustment disorder	4	(5.1%)	3	(4.8%)	1	(6.3%)
Isolation	3	(3.8%)	3	(4.8%)	0	(0.0%)

Table 16: Breakdown of the reasons for 'Follow-up 2'

For continued support, 25 were designated as 'Follow-up,' 4 were connected to the municipal government, 8 were sent list of registered doctors within Fukushima Prefecture, 4 were provided information, and 4 were handled by other departments (Table 17).

Number of support	Total		Based or	Based on the scores		r than scales
given	5	92	4	64	1	28
Follow-up	25	(4.2%)	16	(3.4%)	9	(7.0%)
Municipal government	4	(0.7%)	2	(0.4%)	2	(1.6%)
Referral	0	(0.0%)	0	(0.0%)	0	(0.0%)
Sent list of registered doctors within Fukushima Prefecture	8	(1.4%)	7	(1.5%)	1	(0.8%)
Sent list of medical institutions outside the prefecture	0	(0.0%)	0	(0.0%)	0	(0.0%)
Sharing information	0	(0.0%)	0	(0.0%)	0	(0.0%)
Provided information	4	(0.7%)	4	(0.9%)	0	(0.0%)
Handled by other departments	4	(0.7%)	3	(0.6%)	1	(0.8%)

Table 17: Continued support

3.3-4 Problems Faced by Participants (adults)

Since the Mental Health and Lifestyle Survey in FY 2011, we have used analytic induction to understand the problems faced by participants. The problems fall into four broad categories: personal problems, household problems, problems with social life, and environment and culture. Personal problems, household problems, and problems with social life divide into subcategories. Figure 3 is the conceptual diagram of those problems.

The content of the respondents' problems mentioned in the FY 2013 survey were categorized, as was the case in FY 2012, based on the categories from the survey for FY 2011.

Frequently mentioned problems in the FY 2013 survey were physical problems, disrupted sleep, depression, anxiety about the future (from the category 'Personal reaction'), and changes in living environment, family relationships, changes in daily life and habits (from the category 'Household problems'), and dissatisfaction with government policies or problems with disaster claims from the category 'Problems with social life'.

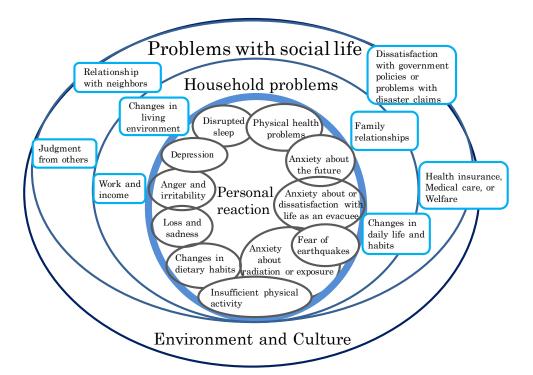


Figure 3: Conceptual diagram of problems faced by participants (adults)

4. Conclusion

The number of those who required support was 1,256 children and 11,507 adults for the Mental Health and Lifestyle Survey for FY 2013. Based only on the CAGE test scores, the number was 2,010. Among the children, 504 required telephone counseling and 752 required written support materials. The number of participants determined to require telephone support based on the content of written materials was 37. The number of adults who required telephone counseling was 3,843 and 7,664 required written materials. The number of those determined to require telephone support based on the content of written materials. The number of those determined to require telephone support based on the content of written materials was 616. If those identified as requiring support could not be reached for telephone counseling (except for the deceased), information was provided by sending booklet made by Radiation Medical Science Center of FMU: *Mental Health and Lifestyle Support*. It was also distributed to those who only met the criteria of CAGE test scores.

After the telephone counseling for children, 355 (75.1%) were categorized as 'Follow-up 1*,' and 102 (21.6%) were categorized as 'Follow-up 2**.' Frequently discussed issues were impact on school, and irritability and violence form the category 'Child's reaction,' and parent or guardian's problem from the category 'Parent/Guardian and family problems.'

Among the adults, 2,573 (77.5%) were categorized as 'Follow-up 1' and 599 (18.0%) were categorized as 'Follow-up 2.' Among the respondents who required written materials, 506 (85.5%) were categorized as 'Follow-up 1' and 78 (13.2%) were categorized as 'Follow-up 2.' Frequently discussed issues were physical problems, disrupted sleep, depression, and anxiety about the future from the category 'Personal reaction,' changes in living environment, family relationships, and changes in daily life and habits from the category 'Household problems,' and dissatisfaction with government policies or problems of disaster claims from the category 'Problems with social life.'

- * Participants confirmed to be improving or self-managing their problems.
- ** Participants not recovering from health problems, the emotional aftermath, adjustment disorder etc.

Pregnancy and Birth Survey for FY 2013

Reported on 12 February 2015

1. Outline

1.1 Purpose

Fukushima Medical University established a Pregnancy and Birth Survey in FY 2011 to promote health management of women and mothers in Fukushima under the initiative of Fukushima Prefecture.

The survey revealed that pregnant women and mothers with infants strived to raise their children in Fukushima Prefecture since the Great East Japan Earthquake and the subsequent nuclear disaster, despite the evacuation, changes in daily life, and concerns toward health effects of radiation.

We continued to conduct the survey in FY 2013 to address their anxiety and provide necessary support through assessing their physical and mental health. The survey also aims to improve perinatal care in Fukushima Prefecture by listening to their needs and expectations.

1.2 Group

Those who received Maternal and Child Health Handbooks from municipal offices in Fukushima Prefecture between 1 August 2012 and 31 July 2013, and those who had handbooks issued during the same period in other prefectures but received antenatal care or delivered babies in Fukushima Prefecture.

Number of participants: 15,218 (FY 2011: 16,001; FY 2012: 14,516)

1.3 Methods

Survey questionnaire was sent to the participants on 18 December 2013. Newly added questions from FY 2013 address the issue of tobacco smoking.

1.4 Data Tabulation Period

From 24 December 2013 through 26 December 2014(FY 2012 survey: From 14 December 2012 through 30 November 2013)(FY 2011 survey: From 20 January 2012 through 31 March 2013)

2. Survey Results

The number of valid responses may not equal to the survey total because of missing answers.

2.1 Response Rates

The total number of responses for FY 2013 Survey was 7,260 (47.7%).

Valid responses: 7,214

Invalid responses: 46 (No response: 10; Duplication: 8; Exclusions: 28)

The total number of responses for FY 2011 Survey was 9,316 (58.2%), and it was 7,181 (49.5%) in FY 2012.

The response rate of the survey for FY 2013 was lower than that for FY 2011 but nearly the same as FY 2012.

2.2 Respondents

- The number of responses for FY 2013 by area was as follows: Kempoku, 1,936 (53.2%); Kenchu, 1,982 (44.5%); Kennan, 588 (48.5%); Soso, 535 (45.4%); Iwaki, 1,195 (45.1%); Aizu, 833 (45.9%); Minami-aizu, 83 (51.2%); outside Fukushima Prefecture, 108.
- Compared with FY 2011, the overall response rate declined in all areas. However, compared with FY 2012, the overall response rate was almost the same, with a slight decline in Kempoku, Kenchu and Iwaki, and a slight improvement in Kennan, Soso, Aizu and Minami-aizu.
- Roughly two-thirds of respondents were in the 25-34 age group, followed by 35-39 and 20-24 age groups. The same trend was seen in FY 2011 and FY 2012.

2.3 Pregnancy Outcome

- There was little difference in the proportion of miscarriage (0.78%) and abortion (0.04%) after receiving the Maternal and Child Health Handbooks compared with those in FY 2011 (miscarriage, 0.77%; abortion, 0.06%), and FY 2012 (miscarriage, 0.81%; abortion, 0.08%). (Q10)
- The proportion of preterm deliveries was 5.40%, which was almost the same as FY 2011 (4.75%), FY 2012 (5.74%), and the recent data in Japan 2013; 5.8% (Q18)
- The proportion of low birth weight infants was 9.9%, which was higher than FY 2011 (8.9%) and FY 2012 (9.6%), but roughly the same as the recent data in Japan 2013; 9.6% (Q19)
- The incidence of congenital anomalies in singleton pregnancies was 2.35%, which was roughly the same as FY 2011 (2.85%*) and FY 2012 (2.39%), and a generally reported incidence of 3-5%. The most frequent anomaly was cardiovascular malformation with an incidence of 0.91% (0.89%* in FY 2011, and 0.79% in FY 2012), which was similar to a generally reported incidence of 1%. (Q19) Note: The denominator was the total number of valid responses.

2.4 Mental Health of Mothers

• The proportion of mothers with depressive symptom(s) was 24.5%, which was lower than the previous surveys (27.1% in FY 2011 and 25.5% in FY 2012). (Q4-1, Q4-2) The area with the highest rate was Minami-aizu (32.5%) in FY 2013, whereas it was the Soso area in FY 2011 (32.1%) and in FY 2012 (32.9%) compared to 28.2% in FY 2013. According to the national maternal and child health plan in Japan (*Sukoyaka Oyako 21*), the proportion of mothers with postpartum depression, evaluated by using the Edinburgh Postnatal Depression Scale, was 9.0% in 2013, and the estimated proportion of postpartum depression from this survey based on the

Edinburgh Postnatal Depression Scale was 13%.

Reference: Mishina H, et al. Pediatr Int. 2009; 51: 48.

2.5 Perinatal Care

- Mothers were asked if they received sufficient antenatal and delivery care, and 2.3% answered NO or NOT AT ALL, which was lower than that of FY 2012 (3.5%). (Q3)
- The proportion of those who could not receive antenatal care or deliver at initially planned medical institutions was 14.7%, which was below 24.6% in FY 2011, but roughly the same as FY 2012 (14.1%). Outside Fukushima Prefecture had the highest rate (36.3%) as was the case in FY 2012 (26.9%). The proportion of respondents who chose to change their clinics outside the prefecture was 22.5%, which was lower than that of FY 2011 (54.7%), but roughly the same as FY 2012 (24.9%). (Q12)
- The proportion of those who could not receive antenatal care as scheduled was 2.2%, which was below that of 18.8% in FY 2011, but remain the same as in FY 2012 (2.2%). (Q13)

2.6 Family and Child Rearing

- The Soso area had the highest proportion of those who had evacuated (50.9%) but the proportion declined compared to 61.3% in FY 2012. (Q5)
- The proportion of those who were not confident in child rearing was 17.5%, which was higher than 15.4% in FY 2012. (Q20)
 According to the 2010 national survey to assess toddlers' health status, the proportion of mothers

with one-year-old children, who were not confident in child rearing, was 23.0%.

When asked how they fed their babies before weaning, 36.6% answered breastfeeding only, 54.4% breast and bottle feeding combined, 8.7% bottle feeding only. The proportion of breastfeeding increased from 30.4% in FY 2011 and 35.2% in FY 2012. (Q21)
 When asked about the reasons for choosing bottle feeding, 77.1% answered not enough breast milk, and 1.8% were werried about the affects of radiation (the proportion decreased from 10.8% in FY).

and 1.8% were worried about the effects of radiation (the proportion decreased from 19.8% in FY 2011, and 6.2% in FY 2012). According to the survey by the Ministry of Health, Labour and Welfare, the national average of mothers who were breastfeeding when their baby was four months old was 35-40% (55.8% in FY 2010). Compared to the national data, the proportion in Fukushima Prefecture had been low; the survey in 2007 by the Breastfeeding Association in Fukushima found that 32.2% mothers were breastfeeding their four months old baby.

2.7 Family Planning

- 52.8% of respondents were planning a pregnancy (52.9% in FY 2012). According to the 14th National Fertility Survey in 2010, 58% of couples married for less than 10 years were planning a pregnancy. The proportion was 51% among those who already had a child.
- Following services were requested among those who were planning a pregnancy: improvement of preschool, care for longer hours, or day care for sick children, 70.5%; information or services about child rearing and pediatric medicine, 66.6%.
- The reasons for not planning a pregnancy were as follows: no desire, 54.4%; busy raising children, 36.6%. The proportion of respondents who worried about the effects of radiation was 5.6% which was below 14.8% in FY 2012.

2.8 Free-answer Questions

• The total of 867 respondents (12.0%) answered the free-answer questions. The number was lower than that of 3,722 (42.2%) in FY 2011 and 1,481 (20.7%) in FY 2012.

2.9 Conclusion

- The response rate was 47.7%, which was below 58.2% in FY 2011 and almost the same as 49.5% in FY 2012.
- The proportions of miscarriage (0.78%) or abortion (0.04%) after receiving the Maternal and Child Health Handbooks stayed roughly the same as in FY2011 (miscarriage, 0.77%; abortion, 0.06%), and FY 2012 (miscarriage, 0.81%; abortion, 0.08%).
- The proportion of preterm deliveries was 5.40%, which was roughly the same as 4.75% in FY 2011 and 5.74% in FY 2012. The proportion of low birth weight infants was 9.9%, which was slightly above the numbers in the previous years (8.9% in FY 2011, and 9.6% in FY 2012), but roughly the same as the national average.
- The incidence of congenital anomalies in singleton pregnancies was 2.35%, which was roughly the same as 2.85% in FY 2011, 2.39% in FY 2012 and the generally reported incidence of 3-5%.
- The proportion of mothers with depression symptom(s) was 24.5%, which was below FY 2011 (27.1%) and FY 2012 (25.5%), but the estimated proportion was still higher than the national average.
- 52.8% were planning a pregnancy. The proportion was roughly the same as the data from the National Fertility Survey in 2010 (The proportion was 51% among those who already had a child).

^{*} The figure differs from the survey for FY 2011 since the denominator included the number of invalid response. **The figure differs from the survey for FY 2011 since the denominator included the sum of multiple answers.

3. Support after the Survey

3.1 Purpose

Counseling was provided via telephone or email by midwives and public health nurses for respondents who were screened to be in need of support in order to address their anxiety.

3.2 Support Group

Respondents of the Pregnancy and Birth Survey for FY 2013

3.3 Criteria for Support

- Respondents who had two depression symptoms
- Respondents who were screened based on their opinions written in a given free space We used wider criteria than the previous year:
 - Those who appeared to have a severely depressed mood
 - Those in need of support for child rearing
 - Those who are concerned about radiation exposure
 - Those who want detailed information
 - Those who requested support

3.4 Methods

Support via telephone and email

4. Results of the Support

Note: Participants who responded after 26 December 2014 and received support were excluded.

4.1 Number of Supports Given

- The number of those who required telephone support was 1,101 out of 7,260 who responded from 24 December 2013 through 26 December 2014. The proportion was 15.2%, which was roughly the same as that of FY 2011: 1,401 (15.0%); FY 2012: 1,104 (15.4%). The number of those who received support via email was 3 (13 in FY 2011, and 6 in FY 2012).
- 67.6% were screened based on their depression symptoms (87.4% in FY 2011, and 68.0% in FY 2012), and 32.4% based on their comments written in a free space (12.6% in FY 2011, and 32.0% in FY 2012).

4.2 Content

• The most frequently discussed issue by the respondents was physical and mental health of mothers (42.5%), as was the case issue in FY 2012 (33.4%), followed by child rearing (38.7%) and physical and mental health of children (20.3%). Concerns about radiation were the most frequent category in FY 2011 (29.2%).

4.3 Reasons for Completing Support

We completed telephone support after carefully listening to mothers' concerns in 679 (61.7%) cases, providing information about other counseling services in 473 (43.0%) cases, confirming that they were already receiving care in 271 (24.6%) cases, and answering to their specific questions in 128 (11.6%) cases. In other cases, 104 (9.4%) respondents were recommended further treatment, 6 (0.5%) were referred to clinical psychologists, 1 (0.1%) was connected to municipal government, 1 (0.1%) was referred to specialists, 209 (19.0%) did not answer our calls, 12 (1.1%) did not provide their phone numbers, 3 (0.3%) declined support, and 2 (0.2%) were categorized as 'Other.' Note: Multiple answers allowed. The denominator is the total number of supports provided.

4.4 Conclusion

- The proportion of mothers to whom we provided support was roughly the same as in FY 2011 and FY 2012. We provided more support by increasing the proportion of those required support on the basis of free-answered questions as was the case in FY 2012.
- The most frequently discussed issue in the counseling was physical and mental health of mothers as was the case in FY 2012. Issues related to radiation became less frequent.

Results of Pregnancy and Birth Survey for FY2013

1. Response rates

Responses received from 24 December 2013 through 26 December 2014

Area	Partic	ipants	Responses (Response rate)				
Kempoku	3,637	23.9%	1,936	53.2%			
Kenchu	4,453	29.3%	1,982	44.5%			
Kennan	1,213	8.0%	588	48.5%			
Soso	1,178	7.7%	535	45.4%			
Iwaki	2,649	17.4%	1,195	45.1%			
Aizu	1,816	11.9%	833	45.9%			
Minami-aizu	162	1.1%	83	51.2%			
Outside Fukushima	110	0.7%	108	98.2%			
Total	15,218	100.0%	7,260	47.7%			

2. Results by Items

The total number is 7,214 of 7,260 participants excluding 46 invalid responses (10 nonrespondents, 8 overlapping respondents, and 28 exclusions). Each item includes nonrespondents and invalid responses.

Age Group of Participants	Age	Group	of Participants
---------------------------	-----	-------	-----------------

0 1		1			-						-						-	
Area	Ages	15-19	Ages	s 20-24	Ages	25-29	Ages	30-34	Ages	35-39	Ages	40-44	Ages	45-49	No re	esponse	Т	otal
Kempoku	12	0.6%	164	8.5%	593	30.8%	633	32.8%	414	21.5%	80	4.1%	1	0.1%	31	1.6%	1,928	100.0%
Kenchu	8	0.4%	193	9.8%	628	31.9%	642	32.6%	391	19.8%	76	3.9%	1	0.1%	32	1.6%	1,971	100.0%
Kennan	3	0.5%	51	8.7%	194	33.1%	190	32.4%	113	19.3%	26	4.4%	2	0.3%	7	1.2%	586	100.0%
Soso	5	0.9%	76	14.3%	185	34.8%	136	25.6%	108	20.3%	10	1.9%	1	0.2%	10	1.9%	531	100.0%
Iwaki	10	0.8%	131	11.0%	321	27.0%	417	35.1%	236	19.9%	48	4.0%	0	0.0%	24	2.0%	1,187	100.0%
Aizu	6	0.7%	94	11.4%	258	31.2%	258	31.2%	170	20.6%	23	2.8%	1	0.1%	16	1.9%	826	100.0%
Minami-aizu	0	0.0%	10	12.0%	21	25.3%	31	37.3%	16	19.3%	2	2.4%	0	0.0%	3	3.6%	83	100.0%
Outside	0	0.0%	10	9.8%	38	37.3%	40	39.2%	10	9.8%	2	2.0%	0	0.0%	2	2.0%	102	100.0%
Fukushima																		
Total	44	0.6%	729	10.1%	2,238	31.0%	2,347	32.5%	1,458	20.2%	267	3.7%	6	0.1%	125	1.7%	7,214	100.0%

Ages are at the time when pregnancy outcome occurred.

Q2. Do you think of yourself as healthy?

Area	Very 1	nuch	A li	ttle	Not so	much	Ň	lo	No response		Total	
Kempoku	480	24.9%	1,367	70.9%	74	3.8%	5	0.3%	2	0.1%	1,928	100.0%
Kenchu	550	27.9%	1,345	68.2%	70	3.6%	2	0.1%	4	0.2%	1,971	100.0%
Kennan	149	25.4%	415	70.8%	22	3.8%	0	0.0%	0	0.0%	586	100.0%
Soso	109	20.5%	394	74.2%	25	4.7%	2	0.4%	1	0.2%	531	100.0%
Iwaki	340	28.6%	813	68.5%	30	2.5%	4	0.3%	0	0.0%	1,187	100.0%
Aizu	191	23.1%	601	72.8%	28	3.4%	5	0.6%	1	0.1%	826	100.0%
Minami-aizu	27	32.5%	54	65.1%	2	2.4%	0	0.0%	0	0.0%	83	100.0%
Outside	39	38.2%	61	59.8%	1	1.0%	0	0.0%	1	1.0%	102	100.0%
Fukushima												
Total	1,885	26.1%	5,050	70.0%	252	3.5%	18	0.2%	9	0.1%	7,214	100.0%

Q3.	Did you receive	sufficient antenatal	or delivery care?
-----	-----------------	----------------------	-------------------

Area	Very	much	Y	æ	Not	sure	No)	Nota	atall	No res	ponse	То	otal
Kempoku	515	26.7%	1,183	61.4%	184	9.5%	33	1.7%	10	0.5%	3	0.2%	1,928	100.0%
Kenchu	505	25.6%	1,194	60.6%	224	11.4%	37	1.9%	8	0.4%	3	0.2%	1,971	100.0%
Kennan	114	19.5%	373	63.7%	88	15.0%	8	1.4%	1	0.2%	2	0.3%	586	100.0%
Soso	142	26.7%	297	55.9%	67	12.6%	20	3.8%	3	0.6%	2	0.4%	531	100.0%
Iwaki	316	26.6%	701	59.1%	140	11.8%	23	1.9%	4	0.3%	3	0.3%	1,187	100.0%
Aizu	181	21.9%	545	66.0%	80	9.7%	14	1.7%	2	0.2%	4	0.5%	826	100.0%
Minami-aizu	19	22.9%	54	65.1%	5	6.0%	3	3.6%	1	1.2%	1	1.2%	83	100.0%
Outside	29	28.4%	65	63.7%	5	4.9%	2	2.0%	0	0.0%	1	1.0%	102	100.0%
Fukushima														
Total	1,821	25.2%	4,412	61.2%	793	11.0%	140	1.9%	29	0.4%	19	0.3%	7,214	100.0%

Q4-1. Have you often been feeling down or depressed for the past month?

Area	Y	es	Ν	lo	No re	sponse	То	tal
Kempoku	475	24.6%	1,445	74.9%	8	0.4%	1,928	100.0%
Kenchu	412	20.9%	1,553	78.8%	6	0.3%	1,971	100.0%
Kennan	138	23.5%	447	76.3%	1	0.2%	586	100.0%
Soso	138	26.0%	391	73.6%	2	0.4%	531	100.0%
Iwaki	245	20.6%	939	79.1%	3	0.3%	1,187	100.0%
Aizu	178	21.5%	644	78.0%	4	0.5%	826	100.0%
Minami-aizu	25	30.1%	57	68.7%	1	1.2%	83	100.0%
Outside	26	25.5%	75	73.5%	1	1.0%	102	100.0%
Fukushima								
Total	1,637	22.7%	5,551	76.9%	26	0.4%	7,214	100.0%

Q4-2. Have you lost interest in activities or found things unpleasurable for the past month?

Area	Ye	es	Ň	ю	No res	sponse	То	tal
Kempoku	233	12.1%	1,687	87.5%	8	0.4%	1,928	100.0%
Kenchu	223	11.3%	1,742	88.4%	6	0.3%	1,971	100.0%
Kennan	72	12.3%	513	87.5%	1	0.2%	586	100.0%
Soso	78	14.7%	451	84.9%	2	0.4%	531	100.0%
Iwaki	140	11.8%	1,044	88.0%	3	0.3%	1,187	100.0%
Aizu	96	11.6%	726	87.9%	4	0.5%	826	100.0%
Minami-aizu	15	18.1%	67	80.7%	1	1.2%	83	100.0%
Outside	11	10.8%	90	88.2%	1	1.0%	102	100.0%
Fukushima								
Total	868	12.0%	6,320	87.6%	26	0.4%	7,214	100.0%

Results of the above questions related to depression

Area	Yes to both	h questions	Yes to eit	her of the	No to both	questions	No res	sponse	To	tal
Alca			ques	stion						
Kempoku	202	10.5%	304	15.8%	1,414	73.3%	8	0.4%	1,928	100.0%
Kenchu	190	9.6%	255	12.9%	1,520	77.1%	6	0.3%	1,971	100.0%
Kennan	63	10.8%	84	14.3%	438	74.7%	1	0.2%	586	100.0%
Soso	66	12.4%	84	15.8%	379	71.4%	2	0.4%	531	100.0%
Iwaki	114	9.6%	157	13.2%	913	76.9%	3	0.3%	1,187	100.0%
Aizu	83	10.0%	108	13.1%	631	76.4%	4	0.5%	826	100.0%
Minami-aizu	13	15.7%	14	16.9%	55	66.3%	1	1.2%	83	100.0%
Outside	10	9.8%	17	16.7%	74	72.5%	1	1.0%	102	100.0%
Fukushima										
Total	741	10.3%	1,023	14.2%	5,424	75.2%	26	0.4%	7,214	100.0%

Proportion of the depressed: 24.5% (741 checked both boxes of Yes+1,023 checked either of Yes/total of 7,214)

Q5. Are you evacuated from your home?

Area	,	living in y housing	Yes, I am living in other kind of accommodation		Have evacuated but returned home		Have never been evacuated		No response		Total	
Kempoku	5	0.3%	43	2.2%	431	22.4%	1,405	72.9%	44	2.3%	1,928	100.0%
Kenchu	3	0.2%	35	1.8%	548	27.8%	1,335	67.7%	50	2.5%	1,971	100.0%
Kennan	0	0.0%	4	0.7%	67	11.4%	503	85.8%	12	2.0%	586	100.0%
Soso	42	7.9%	228	42.9%	167	31.5%	87	16.4%	7	1.3%	531	100.0%
Iwaki	2	0.2%	23	1.9%	689	58.0%	444	37.4%	29	2.4%	1,187	100.0%
Aizu	0	0.0%	9	1.1%	36	4.4%	755	91.4%	26	3.1%	826	100.0%
Minami-aizu	0	0.0%	0	0.0%	5	6.0%	74	89.2%	4	4.8%	83	100.0%
Outside	0	0.0%	6	5.9%	5	4.9%	87	85.3%	4	3.9%	102	100.0%
Fukushima												
Total	52	0.7%	348	4.8%	1,948	27.0%	4,690	65.0%	176	2.4%	7,214	100.0%

Q6. Are you living apart from family members you previously lived with because of evacuation?

This question is for 400 respondents who answered Yes to Q5.

Area	Ye	es	Ν	ło	No resp	onse	Tota	ıl
Kempoku	38	79.2%	9	18.8%	1	2.1%	48	100.0%
Kenchu	20	52.6%	17	44.7%	1	2.6%	38	100.0%
Kennan	1	25.0%	3	75.0%	0	0.0%	4	100.0%
Soso	132	48.9%	138	51.1%	0	0.0%	270	100.0%
Iwaki	9	36.0%	16	64.0%	0	0.0%	25	100.0%
Aizu	2	22.2%	7	77.8%	0	0.0%	9	100.0%
Minami-aizu	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Outside	2	33.3%	4	66.7%	0	0.0%	6	100.0%
Fukushima								
Total	204	51.0%	194	48.5%	2	0.5%	400	100.0%

Are you communicating well with your family?

This question is for 204 respondents who answered Yes to Q6.

Area	•	Yes		No	No	ot sure	No res	sponse	Total		
Kempoku	26	68.4%	4	10.5%	8	21.1%	0	0.0%	38	100.0%	
Kenchu	11	55.0%	1	5.0%	7	35.0%	1	5.0%	20	100.0%	
Kennan	0	0.0%	0	0.0%	1	100.0%	0	0.0%	1	100.0%	
Soso	101	76.5%	2	1.5%	27	20.5%	2	1.5%	132	100.0%	
Iwaki	8	88.9%	0	0.0%	1	11.1%	0	0.0%	9	100.0%	
Aizu	2	100.0%	0	0.0%	0	0.0%	0	0.0%	2	100.0%	
Minami-aizu	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	
Outside	2	100.0%	0	0.0%	0	0.0%	0	0.0%	2	100.0%	
Fukushima											
Total	150	73.5%	7	3.4%	44	21.6%	3	1.5%	204	100.0%	

Q7. Whom are you living with?

Area	No	one	Husband o	r partner	Child	ren	Paren parents-		Oth	ier	Valid response
Kempoku	0	0.0%	1,837	95.4%	1,742	90.5%	520	27.0%	166	8.6%	1,925
Kenchu	2	0.1%	1,862	94.7%	1,751	89.0%	630	32.0%	182	9.3%	1,967
Kennan	1	0.2%	555	94.7%	519	88.6%	228	38.9%	55	9.4%	586
Soso	2	0.4%	498	94.0%	482	90.9%	143	27.0%	33	6.2%	530
Iwaki	1	0.1%	1,099	92.9%	1,061	89.7%	342	28.9%	64	5.4%	1,183
Aizu	0	0.0%	776	94.5%	752	91.6%	358	43.6%	103	12.5%	821
Minami- aizu	0	0.0%	79	96.3%	79	96.3%	45	54.9%	14	17.1%	82
Outside Fukushima	0	0.0%	99	97.1%	83	81.4%	10	9.8%	3	2.9%	102
Total	6	0.1%	6,805	94.6%	6,469	89.9%	2,276	31.6%	620	8.6%	7,196

The denominator is the sum of valid responses of Q7. Proportion does not total to 100% because of the multiple answers.

Q8. Smoking

1) Tell us about your tobacco use.

a. Did you smoke when you were notified of your recent pregnancy?

Area	Have nev	er smoked	Quit before pr	regnancy	Quit after p	regnancy	, in the second s	Yes	Nore	esponse	То	otal
Kempoku	1,303	67.6%	306	15.9%	239	12.4%	74	3.8%	6	0.3%	1,928	100.0%
Kenchu	1,281	65.0%	290	14.7%	301	15.3%	96	4.9%	3	0.2%	1,971	100.0%
Kennan	362	61.8%	104	17.7%	88	15.0%	31	5.3%	1	0.2%	586	100.0%
Soso	323	60.8%	70	13.2%	98	18.5%	38	7.2%	2	0.4%	531	100.0%
Iwaki	757	63.8%	169	14.2%	175	14.7%	82	6.9%	4	0.3%	1,187	100.0%
Aizu	535	64.8%	129	15.6%	109	13.2%	52	6.3%	1	0.1%	826	100.0%
Minami- aizu	58	69.9%	11	13.3%	10	12.0%	4	4.8%	0	0.0%	83	100.0%
Outside Fukushima	74	72.5%	16	15.7%	9	8.8%	3	2.9%	0	0.0%	102	100.0%
Total	4,693	65.1%	1,095	15.2%	1,029	14.3%	380	5.3%	17	0.2%	7,214	100.0%

b. Did you smoke during the pregnancy?

Area	N	0	Y	es	No res	sponse	То	tal
Kempoku	1,863	96.6%	53	2.7%	12	0.6%	1,928	100.0%
Kenchu	1,887	95.7%	69	3.5%	15	0.8%	1,971	100.0%
Kennan	565	96.4%	19	3.2%	2	0.3%	586	100.0%
Soso	494	93.0%	32	6.0%	5	0.9%	531	100.0%
Iwaki	1,116	94.0%	59	5.0%	12	1.0%	1,187	100.0%
Aizu	782	94.7%	38	4.6%	6	0.7%	826	100.0%
Minami- aizu	80	96.4%	3	3.6%	0	0.0%	83	100.0%
Outside Fukushima	99	97.1%	1	1.0%	2	2.0%	102	100.0%
Total	6,886	95.5%	274	3.8%	54	0.7%	7,214	100.0%

c. Do you smoke?

Area	No		Yes		No respor	ise	Tota	1
Kempoku	1,823	94.6%	97	5.0%	8	0.4%	1,928	100.0%
Kenchu	1,834	93.0%	130	6.6%	7	0.4%	1,971	100.0%
Kennan	536	91.5%	49	8.4%	1	0.2%	586	100.0%
Soso	468	88.1%	60	11.3%	3	0.6%	531	100.0%
Iwaki	1,100	92.7%	80	6.7%	7	0.6%	1,187	100.0%
Aizu	770	93.2%	54	6.5%	2	0.2%	826	100.0%
Minami- aizu	75	90.4%	8	9.6%	0	0.0%	83	100.0%
Outside Fukushima	100	98.0%	2	2.0%	0	0.0%	102	100.0%
Total	6,706	93.0%	480	6.7%	28	0.4%	7,214	100.0%

2) How often were you exposed to second hand smoke from other people at home, office or outside?

Area	Almos	t never	One day	a week	A few day	/s a week	4-6 days	a week	Every	day	No resp	onse	То	tal
Kempoku	1,191	61.8%	248	12.9%	190	9.9%	113	5.9%	184	9.5%	2	0.1%	1,928	100.0%
Kenchu	1,144	58.0%	243	12.3%	201	10.2%	123	6.2%	256	13.0%	4	0.2%	1,971	100.0%
Kennan	333	56.8%	74	12.6%	64	10.9%	45	7.7%	69	11.8%	1	0.2%	586	100.0%
Soso	285	53.7%	63	11.9%	57	10.7%	31	5.8%	93	17.5%	2	0.4%	531	100.0%
Iwaki	658	55.4%	158	13.3%	114	9.6%	81	6.8%	172	14.5%	4	0.3%	1,187	100.0%
Aizu	495	59.9%	82	9.9%	87	10.5%	57	6.9%	102	12.3%	3	0.4%	826	100.0%
Minami- aizu	48	57.8%	10	12.0%	8	9.6%	5	6.0%	12	14.5%	0	0.0%	83	100.0%
Outside Fukushima	66	64.7%	14	13.7%	4	3.9%	6	5.9%	12	11.8%	0	0.0%	102	100.0%
Total	4,220	58.5%	892	12.4%	725	10.0%	461	6.4%	900	12.5%	16	0.2%	7,214	100.0%

Q9. Pregnancy History

The number of times a woman has been pregnant excluding the current one

Area	No	ne	On	ce	Twi	ice	Three	times	Four ti	mes	Five ti	mes
Kempoku	743	38.5%	565	29.3%	377	19.6%	162	8.4%	50	2.6%	16	0.8%
Kenchu	831	42.2%	571	29.0%	347	17.6%	135	6.8%	46	2.3%	28	1.4%
Kennan	233	39.8%	186	31.7%	97	16.6%	45	7.7%	13	2.2%	8	1.4%
Soso	220	41.4%	140	26.4%	106	20.0%	38	7.2%	12	2.3%	9	1.7%
Iwaki	450	37.9%	380	32.0%	207	17.4%	97	8.2%	35	2.9%	11	0.9%
Aizu	309	37.4%	239	28.9%	165	20.0%	62	7.5%	35	4.2%	11	1.3%
Minami-aizu	28	33.7%	22	26.5%	23	27.7%	6	7.2%	3	3.6%	1	1.2%
Outside	47	46.1%	36	35.3%	15	14.7%	4	3.9%	0	0.0%	0	0.0%
Fukushima												
Total	2,861	39.7%	2,139	29.7%	1,337	18.5%	549	7.6%	194	2.7%	84	1.2%

Area	Six ti	mes	Seven t	times	Eight t	imes	Nine t	imes	Ten ti	mes	Tot	tal
Kempoku	10	0.5%	2	0.1%	2	0.1%	0	0.0%	1	0.1%	1,928	100.0%
Kenchu	7	0.4%	3	0.2%	1	0.1%	1	0.1%	1	0.1%	1,971	100.0%
Kennan	2	0.3%	1	0.2%	1	0.2%	0	0.0%	0	0.0%	586	100.0%
Soso	4	0.8%	0	0.0%	1	0.2%	0	0.0%	1	0.2%	531	100.0%
Iwaki	3	0.3%	3	0.3%	0	0.0%	1	0.1%	0	0.0%	1,187	100.0%
Aizu	3	0.4%	1	0.1%	1	0.1%	0	0.0%	0	0.0%	826	100.0%
Minami-aizu	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	83	100.0%
Outside	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	102	100.0%
Fukushima												
Total	29	0.4%	10	0.1%	6	0.1%	2	0.0%	3	0.0%	7,214	100.0%

Outcome

Number of deliveries

Area	N	one	0	nce	Т	wice	Three	e times	Four	r times	Five	times	Siz	x times	Nin	e times	Т	otal
Kempoku	861	44.7%	679	35.2%	321	16.6%	54	2.8%	10	0.5%	1	0.1%	1	0.1%	1	0.1%	1,928	100.0%
Kenchu	960	48.7%	657	33.3%	276	14.0%	63	3.2%	11	0.6%	4	0.2%	0	0.0%	0	0.0%	1,971	100.0%
Kennan	267	45.6%	201	34.3%	91	15.5%	22	3.8%	3	0.5%	2	0.3%	0	0.0%	0	0.0%	586	100.0%
Soso	242	45.6%	167	31.5%	99	18.6%	20	3.8%	1	0.2%	2	0.4%	0	0.0%	0	0.0%	531	100.0%
Iwaki	526	44.3%	427	36.0%	178	15.0%	45	3.8%	9	0.8%	1	0.1%	1	0.1%	0	0.0%	1,187	100.0%
Aizu	353	42.7%	287	34.7%	153	18.5%	25	3.0%	5	0.6%	3	0.4%	0	0.0%	0	0.0%	826	100.0%
Minami- aizu	36	43.4%	22	26.5%	22	26.5%	3	3.6%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	83	100.0%
Outside Fukushima	53	52.0%	42	41.2%	6	5.9%	1	1.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	102	100.0%
Total	3,298	45.7%	2,482	34.4%	1,146	15.9%	233	3.2%	39	0.5%	13	0.2%	2	0.0%	1	0.0%	7,214	100.0%

Number of miscarriages

Area	None	e	0	nce	Twi	ce	Three	e times	Fou	r times	Five	e times	Six	times	To	otal
Kempoku	1,612	83.6%	244	12.7%	57	3.0%	11	0.6%	3	0.2%	0	0.0%	1	0.1%	1,928	100.0%
Kenchu	1,684	85.4%	226	11.5%	45	2.3%	14	0.7%	1	0.1%	1	0.1%	0	0.0%	1,971	100.0%
Kennan	499	85.2%	72	12.3%	13	2.2%	1	0.2%	1	0.2%	0	0.0%	0	0.0%	586	100.0%
Soso	455	85.7%	57	10.7%	17	3.2%	2	0.4%	0	0.0%	0	0.0%	0	0.0%	531	100.0%
Iwaki	1,013	85.3%	136	11.5%	30	2.5%	5	0.4%	3	0.3%	0	0.0%	0	0.0%	1,187	100.0%
Aizu	695	84.1%	103	12.5%	22	2.7%	5	0.6%	0	0.0%	0	0.0%	1	0.1%	826	100.0%
Minami-	67	80.7%	14	16.9%	2	2.4%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	83	100.0%
aizu																
Outside	88	86.3%	13	12.7%	1	1.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	102	100.0%
Fukushima																
Total	6,113	84.7%	865	12.0%	187	2.6%	38	0.5%	8	0.1%	1	0.0%	2	0.0%	7,214	100.0%

Number of induced abortions

Area	No	one	0	nce	Τv	vice	Three	e times	Four	times	Five t	times	Eigh	t times	То	otal
Kempoku	1,762	91.4%	124	6.4%	34	1.8%	5	0.3%	3	0.2%	0	0.0%	0	0.0%	1,928	100.0%
Kenchu	1,803	91.5%	126	6.4%	31	1.6%	7	0.4%	4	0.2%	0	0.0%	0	0.0%	1,971	100.0%
Kennan	546	93.2%	32	5.5%	6	1.0%	0	0.0%	1	0.2%	1	0.2%	0	0.0%	586	100.0%
Soso	493	92.8%	26	4.9%	8	1.5%	3	0.6%	0	0.0%	0	0.0%	1	0.2%	531	100.0%
Iwaki	1,092	92.0%	68	5.7%	18	1.5%	8	0.7%	0	0.0%	1	0.1%	0	0.0%	1,187	100.0%
Aizu	742	89.8%	68	8.2%	13	1.6%	2	0.2%	1	0.1%	0	0.0%	0	0.0%	826	100.0%
Minami-	75	90.4%	7	8.4%	1	1.2%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	83	100.0%
aizu																
Outside	97	95.1%	5	4.9%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	102	100.0%
Fukushima																
Total	6,610	91.6%	456	6.3%	111	1.5%	25	0.3%	9	0.1%	2	0.0%	1	0.0%	7,214	100.0%

Number of stillbirths

Area	N	one	С	nce	T	wice	To	otal
Kempoku	1,914	99.3%	14	0.7%	0	0.0%	1,928	100.0%
Kenchu	1,942	98.5%	28	1.4%	1	0.1%	1,971	100.0%
Kennan	581	99.1%	5	0.9%	0	0.0%	586	100.0%
Soso	526	99.1%	4	0.8%	1	0.2%	531	100.0%
Iwaki	1,181	99.5%	5	0.4%	1	0.1%	1,187	100.0%
Aizu	819	99.2%	6	0.7%	1	0.1%	826	100.0%
Minami- aizu	82	98.8%	1	1.2%	0	0.0%	83	100.0%
Outside Fukushima	101	99.0%	1	1.0%	0	0.0%	102	100.0%
Total	7,146	99.1%	64	0.9%	4	0.1%	7,214	100.0%

Q10. Tell us about the current pregnancy.

Details of pregnancy

	Nat	tural	Ova	arian	Artif	icial	In v	itro	Ov	arian	Ovar	ian	No r	esponse	Te	otal
Area	conce	eption	hy	per-	insemi	nation	fertiliz	zation	hyperst	imulation	hyperstin	nulation				
Alea			stimu	lation					and a	rtificial	an	d				
									insem	ination	in vitro fer	tilization				
Kempoku	1,772	91.9%	64	3.3%	8	0.4%	73	3.8%	3	0.2%	2	0.1%	6	0.3%	1,928	100.0%
Kenchu	1,867	94.7%	34	1.7%	14	0.7%	45	2.3%	3	0.2%	0	0.0%	8	0.4%	1,971	100.0%
Kennan	556	94.9%	11	1.9%	2	0.3%	14	2.4%	0	0.0%	0	0.0%	3	0.5%	586	100.0%
Soso	502	94.5%	6	1.1%	8	1.5%	13	2.4%	0	0.0%	0	0.0%	2	0.4%	531	100.0%
Iwaki	1,108	93.3%	19	1.6%	19	1.6%	34	2.9%	0	0.0%	1	0.1%	6	0.5%	1,187	100.0%
Aizu	765	92.6%	17	2.1%	7	0.8%	29	3.5%	0	0.0%	0	0.0%	8	1.0%	826	100.0%
Minami-	78	94.0%	2	2.4%	2	2.4%	1	1.2%	0	0.0%	0	0.0%	0	0.0%	83	100.0%
aizu																
Outside	98	96.1%	1	1.0%	0	0.0%	3	2.9%	0	0.0%	0	0.0%	0	0.0%	102	100.0%
Fukushima																
Total	6,746	93.5%	154	2.1%	60	0.8%	212	2.9%	6	0.1%	3	0.0%	33	0.5%	7,214	100.0%

Outcome

Area	Curre	2	Deli	vered	Misca	rriage	Induced	abortion	Still	birth	То	tal
Kempoku	3	0.16%	1,905	98.81%	15	0.78%	0	0.00%	5	0.26%	1,928	100.00%
Kenchu	1	0.05%	1,949	98.88%	16	0.81%	2	0.10%	3	0.15%	1,971	100.00%
Kennan	1	0.17%	578	98.63%	2	0.34%	0	0.00%	5	0.85%	586	100.00%
Soso	1	0.19%	523	98.49%	5	0.94%	0	0.00%	2	0.38%	531	100.00%
Iwaki	3	0.25%	1,168	98.32%	11	0.93%	1	0.08%	5	0.42%	1,188	100.00%
Aizu	0	0.00%	818	98.91%	7	0.85%	0	0.00%	2	0.24%	827	100.00%
Minami- aizu	0	0.00%	82	98.80%	0	0.00%	0	0.00%	1	1.20%	83	100.00%
Outside Fukushima	0	0.00%	102	100.00%	0	0.00%	0	0.00%	0	0.00%	102	100.00%
Total	9	0.12%	7,125	98.74%	56	0.78%	3	0.04%	23	0.32%	7,216	100.00%

Due to the different outcomes in twin pregnancy, total number does not match the sum of respondents.

Q11.	Singleton pregnancy	or twin pregnancy	(including the cas	e of a stillbirth)
× · · ·	Singroton programo		(interesting the tas	••••••••••••••••••••••••••

Area	Single	ton	Twir	ı	No respo	onse	Tot	al
Kempoku	1,903	98.7%	23	1.2%	2	0.1%	1,928	100.0%
Kenchu	1,948	98.8%	20	1.0%	3	0.2%	1,971	100.0%
Kennan	578	98.6%	8	1.4%	0	0.0%	586	100.0%
Soso	524	98.7%	7	1.3%	0	0.0%	531	100.0%
Iwaki	1,179	99.3%	7	0.6%	1	0.1%	1,187	100.0%
Aizu	816	98.8%	10	1.2%	0	0.0%	826	100.0%
Minami- aizu	82	98.8%	1	1.2%	0	0.0%	83	100.0%
Outside	102	100.0%	0	0.0%	0	0.0%	102	100.0%
Fukushima								
Total	7,132	98.9%	76	1.1%	6	0.1%	7,214	100.0%

Q12. Antenatal care after the disaster

Did you receive antenatal care or deliver at the institutions as scheduled?

Area	Yes	5	No		No respo	onse	Tota	1
Kempoku	1,610	83.5%	311	16.1%	7	0.4%	1,928	100.0%
Kenchu	1,666	84.5%	295	15.0%	10	0.5%	1,971	100.0%
Kennan	524	89.4%	61	10.4%	1	0.2%	586	100.0%
Soso	452	85.1%	77	14.5%	2	0.4%	531	100.0%
Iwaki	1,017	85.7%	161	13.6%	9	0.8%	1,187	100.0%
Aizu	714	86.4%	107	13.0%	5	0.6%	826	100.0%
Minami- aizu	70	84.3%	13	15.7%	0	0.0%	83	100.0%
Outside Fukushima	65	63.7%	37	36.3%	0	0.0%	102	100.0%
Total	6,118	84.8%	1,062	14.7%	34	0.5%	7,214	100.0%

Breakdown of NO

This question is for 1,062 respondents who answered NO.

Area	Other in within Ful			nstitution 1kushima**	Referred institutior Fukushin	n within	Referred institutior Fukushir	n outside	No re	sponse	То	otal
Kempoku	110	35.4%	59	19.0%	131	42.1%	2	0.6%	9	2.9%	311	100.0%
Kenchu	89	30.2%	55	18.6%	141	47.8%	3	1.0%	7	2.4%	295	100.0%
Kennan	23	37.7%	19	31.1%	17	27.9%	2	3.3%	0	0.0%	61	100.0%
Soso	36	46.8%	16	20.8%	21	27.3%	1	1.3%	3	3.9%	77	100.0%
Iwaki	34	21.1%	33	20.5%	90	55.9%	2	1.2%	2	1.2%	161	100.0%
Aizu	26	24.3%	22	20.6%	58	54.2%	0	0.0%	1	0.9%	107	100.0%
Minami-aizu	5	38.5%	3	23.1%	5	38.5%	0	0.0%	0	0.0%	13	100.0%
Outside	2	5.4%	32	86.5%	3	8.1%	0	0.0%	0	0.0%	37	100.0%
Fukushima												
Total	325	30.6%	239	22.5%	466	43.9%	10	0.9%	22	2.1%	1,062	100.0%

* Respondents who chose to change their clinics within Fukushima Prefecture.

** Respondents who chose to change their clinics outside Fukushima Prefecture.

*** Respondents who were referred to or transferred to other institutions within Fukushima Prefecture for medical reasons.

**** Respondents who were referred to or transferred to other institutions outside Fukushima Prefecture for medical reasons.

Q13. Did you receive antenatal care as planned?

	-							
Area	Ŋ	Yes	1	No	No re	esponse	To	otal
Kempoku	1,866	96.8%	56	2.9%	6	0.3%	1,928	100.0%
Kenchu	1,916	97.2%	44	2.2%	11	0.6%	1,971	100.0%
Kennan	577	98.5%	7	1.2%	2	0.3%	586	100.0%
Soso	520	97.9%	9	1.7%	2	0.4%	531	100.0%
Iwaki	1,166	98.2%	15	1.3%	6	0.5%	1,187	100.0%
Aizu	804	97.3%	17	2.1%	5	0.6%	826	100.0%
Minami-aizu	80	96.4%	3	3.6%	0	0.0%	83	100.0%
Outside	96	94.1%	6	5.9%	0	0.0%	102	100.0%
Fukushima								
Total	7,025	97.4%	157	2.2%	32	0.4%	7,214	100.0%

Breakdown of NO

This question is for 157 respondents who answered NO to the question above.

Area	Could no antenatal ca prob	are and had		eive antenatal care d no problems	No re	sponse	Tota	al
Kempoku	11	19.6%	43	76.8%	2	3.6%	56	100.0%
Kenchu	14	31.8%	28	63.6%	2	4.5%	44	100.0%
Kennan	1	14.3%	6	85.7%	0	0.0%	7	100.0%
Soso	3	33.3%	6	66.7%	0	0.0%	9	100.0%
Iwaki	3	20.0%	10	66.7%	2	13.3%	15	100.0%
Aizu	8	47.1%	8	47.1%	1	5.9%	17	100.0%
Minami-aizu	1	33.3%	2	66.7%	0	0.0%	3	100.0%
Outside	2	33.3%	4	66.7%	0	0.0%	6	100.0%
Fukushima								
Total	43	27.4%	107	68.2%	7	4.5%	157	100.0%

Q14. Have you suffered from any disease prior to the current pregnancy?

Area		Yes		No	No 1	response	То	tal
Kempoku	483	25.1%	1,442	74.8%	3	0.2%	1,928	100.0%
Kenchu	513	26.0%	1,452	73.7%	6	0.3%	1,971	100.0%
Kennan	155	26.5%	427	72.9%	4	0.7%	586	100.0%
Soso	129	24.3%	401	75.5%	1	0.2%	531	100.0%
Iwaki	329	27.7%	854	71.9%	4	0.3%	1,187	100.0%
Aizu	227	27.5%	594	71.9%	5	0.6%	826	100.0%
Minami-aizu	20	24.1%	62	74.7%	1	1.2%	83	100.0%
Outside	19	18.6%	82	80.4%	1	1.0%	102	100.0%
Fukushima								
Total	1,875	26.0%	5,314	73.7%	25	0.3%	7,214	100.0%

Breakdown of YES (Multiple answers allowed)

Valid response: 1,867 Invalid response: 8

Area	Othe	r allergic	Res	piratory		ental	Th	yroid	Inte	estinal		ological	H	leart	C	ancer	Neuro	omuscular
	di	sease ¹	di	sease ²	ill	ness ³	dis	ease	dis	order	dis	sorder ⁴	dis	sease ⁵			di	sease ⁹
Kempoku	262	41.1%	91	14.3%	54	8.5%	37	5.8%	24	3.8%	11	1.7%	14	2.2%	8	1.3%	12	1.9%
Kenchu	295	43.7%	93	13.8%	67	9.9%	31	4.6%	24	3.6%	17	2.5%	15	2.2%	4	0.6%	6	0.9%
Kennan	75	36.1%	29	13.9%	23	11.1%	10	4.8%	13	6.3%	9	4.3%	3	1.4%	4	1.9%	4	1.9%
Soso	62	36.0%	28	16.3%	17	9.9%	7	4.1%	7	4.1%	4	2.3%	2	1.2%	4	2.3%	3	1.7%
Iwaki	174	39.7%	72	16.4%	38	8.7%	22	5.0%	17	3.9%	10	2.3%	8	1.8%	8	1.8%	2	0.5%
Aizu	105	34.2%	49	16.0%	25	8.1%	20	6.5%	18	5.9%	8	2.6%	15	4.9%	6	2.0%	6	2.0%
Minami-aizu	6	28.6%	1	4.8%	5	23.8%	0	0.0%	3	14.3%	0	0.0%	2	9.5%	0	0.0%	0	0.0%
Outside	9	39.1%	2	8.7%	3	13.0%	2	8.7%	2	8.7%	0	0.0%	0	0.0%	0	0.0%	1	4.3%
Fukushima																		
Total	988	39.8%	365	14.7%	232	9.3%	129	5.2%	108	4.4%	59	2.4%	59	2.4%	34	1.4%	34	1.4%

Area		lood rders ¹⁰		llagen ease ⁷	Liver	disease ⁸	Hyper	tension	Hyper	ipemia	Infe	ction ⁶	Dia	betes	(Other	Т	otal
Kempoku	6	0.9%	8	1.3%	6	0.9%	5	0.8%	3	0.5%	6	0.9%	2	0.3%	89	13.9%	638	100.0%
Kenchu	6	0.9%	8	1.2%	6	0.9%	8	1.2%	2	0.3%	5	0.7%	7	1.0%	81	12.0%	675	100.0%
Kennan	5	2.4%	3	1.4%	3	1.4%	1	0.5%	2	1.0%	2	1.0%	0	0.0%	22	10.6%	208	100.0%
Soso	1	0.6%	3	1.7%	3	1.7%	2	1.2%	2	1.2%	0	0.0%	2	1.2%	25	14.5%	172	100.0%
Iwaki	7	1.6%	3	0.7%	1	0.2%	6	1.4%	7	1.6%	4	0.9%	3	0.7%	56	12.8%	438	100.0%
Aizu	7	2.3%	2	0.7%	4	1.3%	0	0.0%	4	1.3%	3	1.0%	2	0.7%	33	10.7%	307	100.0%
Minami-aizu	0	0.0%	0	0.0%	1	4.8%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	3	14.3%	21	100.0%
Outside	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	4	17.4%	22	100.00/
Fukushima																	23	100.0%
Total	32	1.3%	27	1.1%	24	1.0%	22	0.9%	20	0.8%	20	0.8%	16	0.6%	313	12.6%	2,482	100.0%
1) Atopic dermatitis,	Allergic	rhinitis 2) l	Pneumo	onia, asthma	a 3) De	pression, sch	izophrenia	4) Cerebr	al apoplex	y, epilepsy	5) N	Iyocardial ir	nfarction, a	angina pecto	oris, arrh	ythmia, cong	genital heart	t disease

6) Tuberculosis 7) Lupus erythematosus 8) Chronic hepatitis 9) Myasthenia gravis 10) Idiopathic thrombocytopenia

Incidence rate is not shown because of uncertain duration of the disease

Breakdown	of OTHER	(Multiple answers	allowed)

Dicardown of OTHER (I	, runn						
Ovarian tumor	73	Uveitis	3	Laryngopharyngitis	1	Chocolate cyst	1
Myoma of the uterus	51	Lumbar disc herniation	3	Adenoid vegetation	1	Disc hernia	1
Endometriosis	36	Anaphylactoid purpura	2	Dislocation of the hip	1	Anisocoria	1
Polycystic ovary syndrome	10	Hyperprolactinemia	2	Pelviperitonitis	1	Idiopathic osteonecrosis of femoral head	1
Sinusitis	10	Endometrial hyperplasia	2	Tumor of the parotid gland	1	Mastopathy	1
Cervical intraepithelial neoplasia	9	Polyp in the uterus	2	Optic neuritis	1	Breast fibroma	1
Pyelonephritis	9	Purpura nephritis	2	Soft tissue tumors about the knee	1	Bartholinitis	1
Meniere's disease	9	Palmoplantar pustulosis	2	Renal transplantation	1	Nasal hemangioma	1
IgA nephropathy	8	Renal failure	2	Renal calculus	1	Tonsillar hypertrophy	1
Nephritis	6	Hydronephrosis	2	Exudative erythema	1	Cystitis	1
Ureteral lithiasis	6	Scoliosis	2	Renal disease	1	Dizziness	1
Allergic purpura	4	Shingles	2	Deep thrombophlebitis	1	Drug eruption	1
Kawasaki disease	4	Cholecystitis	2	Pancreatitis	1	Lumbar spondylosis and spondylolytic spondylolisthesis	1
Hemorrhoid	4	Nephrotic syndrome	2	Stevens-Johnson syndrome	1	Hydrosalpinx	1
Adenomyosis of the uterus	4	Hernia	2	Contact dermatitis	1	Ovarian teratoma	1
Endometrial polyp	4	Subacute lymphadenitis	1	Condylomata Acuminata	1	Ovarian hemorrhage	1
Cholelithiasis	4	Anaphylactic shock	1	Congenital kyphoscoliosis	1	Glaucoma	1
Hydatidiform mole	4	Angioma cavernosum	1	Destructive hydatidiform mole	1		
Retinal detachment	4	Dentigerous cyst	1	Polycystic kidney	1		
Sarcoidosis	3	Primary aldosteronism	1	Otitis media	1		
Peliosis	3	Teratoma	1	Toxic eruption	1		
Sudden deafness	3	Periarteritis nodosa	1	Hearing impairment	1		

Q15. Have you suffered from any disease during the current pregnancy?

	•		•		•		•	
Area		Yes	N	0	No res	sponse	To	tal
Kempoku	593	30.8%	1,332	69.1%	3	0.2%	1,928	100.0%
Kenchu	550	27.9%	1,415	71.8%	6	0.3%	1,971	100.0%
Kennan	158	27.0%	424	72.4%	4	0.7%	586	100.0%
Soso	146	27.5%	385	72.5%	0	0.0%	531	100.0%
Iwaki	324	27.3%	860	72.5%	3	0.3%	1,187	100.0%
Aizu	264	32.0%	556	67.3%	6	0.7%	826	100.0%
Minami-aizu	31	37.3%	52	62.7%	0	0.0%	83	100.0%
Outside	26	25.5%	75	73.5%	1	1.0%	102	100.0%
Fukushima								
Total	2,092	29.0%	5,099	70.7%	23	0.3%	7,214	100.0%

Area	Incidence of diseases	f all	Valid response
Kempoku	593	30.8%	1,925
Kenchu	550	28.0%	1,965
Kennan	158	27.1%	582
Soso	146	27.5%	531
Iwaki	324	27.4%	1,184
Aizu	264	32.2%	820
Minami-aizu	31	37.3%	83
Outside	26	25.7%	101
Fukushima			
Total	2,092	29.1%	7,191

The denominator is the sum of valid response of YES and NO.

Incidence

Area	Threa prem		Threa abor		Hyperte in preg		Infect disea		Gestat diabe		Oligohydramnios		Place	
Alta	deliv		abbi	uon	in preg	liancy	uisea	180	melli				prev	la
Kempoku	271	14.1%	192	10.0%	55	2.9%	51	2.6%	60	3.1%	30	1.6%	19	1.0%
Kenchu	246	12.5%	163	8.3%	74	3.8%	54	2.7%	34	1.7%	36	1.8%	24	1.2%
Kennan	55	9.5%	49	8.4%	24	4.1%	18	3.1%	8	1.4%	12	2.1%	11	1.9%
Soso	64	12.1%	41	7.7%	15	2.8%	11	2.1%	5	0.9%	0	0.0%	9	1.7%
Iwaki	127	10.7%	126	10.6%	33	2.8%	36	3.0%	21	1.8%	19	1.6%	15	1.3%
Aizu	120	14.6%	94	11.5%	23	2.8%	30	3.7%	10	1.2%	7	0.9%	11	1.3%
Minami-aizu	15	18.1%	9	10.8%	3	3.6%	2	2.4%	2	2.4%	1	1.2%	2	2.4%
Outside	10	9.9%	6	5.9%	6	5.9%	1	1.0%	4	4.0%	1	1.0%	1	1.0%
Fukushima														
Total	908	12.6%	680	9.5%	233	3.2%	203	2.8%	144	2.0%	106	1.5%	92	1.3%

Area		ature rth	inch insom	problems iding nia and tiety	Misca	rriage	Polyhydramnios		Inj	ury	Cere apopl				Other	
Kempoku	33	1.7%	13	0.7%	11	0.6%	9	0.5%	1	0.1%	0	0.0%	0	0.0%	51	2.6%
Kenchu	19	1.0%	13	0.7%	4	0.2%	5	0.3%	1	0.1%	1	0.1%	0	0.0%	50	2.5%
Kennan	10	1.7%	3	0.5%	1	0.2%	2	0.3%	1	0.2%	0	0.0%	0	0.0%	10	1.7%
Soso	8	1.5%	5	0.9%	5	0.9%	1	0.2%	0	0.0%	0	0.0%	0	0.0%	10	1.9%
Iwaki	9	0.8%	6	0.5%	3	0.3%	4	0.3%	2	0.2%	0	0.0%	1	0.1%	43	3.6%
Aizu	7	0.9%	4	0.5%	4	0.5%	0	0.0%	1	0.1%	0	0.0%	0	0.0%	25	3.0%
Minami-aizu	1	1.2%	1	1.2%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	3	3.6%
Outside	0	0.0%	0	0.0%	0	0.0%	1	1.0%	0	0.0%	0	0.0%	0	0.0%	2	2.0%
Fukushima																
Total	87	1.2%	45	0.6%	28	0.4%	22	0.3%	6	0.1%	1	0.0%	1	0.0%	194	2.7%

* Pneumonia, influenza, and tetanus, etc. ** Brain infraction, cerebral hemorrhage, etc. *** Thrombosis, pulmonary embolism, etc.

The denominator is the sum of valid responses.

Proportion does not total to 100% because of multiple answers.

Breakdown of 'Other	' (Multiple answers allowed)
---------------------	------------------------------

Myoma of the uterus	28	Endometriosis	2	Vasa previa	1
Ovarian tumor	15	Carpal canal syndrome	2	Diverticulitis of colon	1
Sinusitis	14	Nephritis	2	Gallstone	1
Asthma	13	Twin-to-twin transfusion	2	Low-tone sensorineural	1
		syndrome		hearing loss	
Cancer of the uterine cervix	8	Idiopathic thrombocytopenic purpura	2	Idiopathic thrombocytopenia	1
Cervical intraepithelial neoplasia	8	Placenta accreta	2	Sudden deafness	1
Premature ablation of normally implanted placenta	7	Nephrotic syndrome	1	Diabetes insipidus	1
Prurigo gestationis	7	Basedow disease	1	Angioma of nose	1
Endocervical polyp	5	Hunt syndrome	1	Chronic glomerulonephritis	1
Pyelonephritis	4	Protein S deficiency	1	Chronic nephritis	1
Phlebeurysm	4	Meniere's disease	1	Ovarian cancer	1
Inguinal hernia	4	Rheumatoid arthritis	1	Benign paroxysmal positional vertigo	1
Cingulum	4	Calculus	1	Impetigo herpetiformis	1
Arrhythmia	4	Blood type incompatible pregnancy	1	Pancreatitis	1
Condyloma	3	Teleangiectatic granuloma	1	Hypothyroidism	1
Acute appendicitis	3	Harada disease	1	Disc hernia	1
Polyp in the uterus	3	Primary biliary cirrhosis	1		
Cervical incompetence	3	Lumbar disc herniation	1		
Calculus of ureter	3	Neuralgia sciatica	1		
Gestational	3	Uterine prolapse	1		
thrombocytopenia					
Hives	3	Autonomic dystonia	1		
Hernia	2	Premature ventricular contraction	1		
Polyp	2	Cerebral meningitis	1		
Acute enterocolitis	2	Ileosacral arthritis	1		

Q16. Do you think you received adequate treatment for the disease?

		,												
Area	Very	much	Ye	es	Not	sure	Ν	No	Not	at all	No response		Total	
Kempoku	247	28.1%	310	35.3%	117	13.3%	21	2.4%	8	0.9%	176	20.0%	879	100.0%
Kenchu	229	25.6%	321	35.9%	110	12.3%	25	2.8%	9	1.0%	199	22.3%	893	100.0%
Kennan	58	22.1%	106	40.5%	28	10.7%	9	3.4%	1	0.4%	60	22.9%	262	100.0%
Soso	54	22.7%	96	40.3%	26	10.9%	8	3.4%	4	1.7%	50	21.0%	238	100.0%
Iwaki	121	22.7%	175	32.8%	75	14.0%	19	3.6%	11	2.1%	133	24.9%	534	100.0%
Aizu	100	24.8%	175	43.3%	43	10.6%	12	3.0%	5	1.2%	69	17.1%	404	100.0%
Minami-	10	24.4%	13	31.7%	8	19.5%	1	2.4%	0	0.0%	9	22.0%	41	100.0%
aizu														
Outside	11	27.5%	14	35.0%	5	12.5%	2	5.0%	0	0.0%	8	20.0%	40	100.0%
Fukushima														
Total	830	25.2%	1,210	36.8%	412	12.5%	97	2.9%	38	1.2%	704	21.4%	3,291	100.0%

This question is for 3,291 respondents who answered YES to Q14 or 15.

Participants who were pregnant for more than 12 weeks and gave birth

Area	Single	eton	Twi	n	No re	esponse	Tota	al
Kempoku	1,880	98.7%	23	1.2%	1	0.1%	1,904	100.0%
Kenchu	1,937	98.9%	20	1.0%	1	0.1%	1,958	100.0%
Kennan	573	98.6%	8	1.4%	0	0.0%	581	100.0%
Soso	520	99.0%	5	1.0%	0	0.0%	525	100.0%
Iwaki	1,166	99.4%	7	0.6%	0	0.0%	1,173	100.0%
Aizu	807	98.8%	10	1.2%	0	0.0%	817	100.0%
Minami-aizu	82	98.8%	1	1.2%	0	0.0%	83	100.0%
Outside Fukushima	102	100.0%	0	0.0%	0	0.0%	102	100.0%
Total	7,067	98.9%	74	1.0%	2	0.0%	7,143	100.0%

The numbers of participants in the following tables ('The first child of twins' and 'The second child of twins') differ since one of the respondents had a miscarriage before 12 weeks.

	Q17.	What was your	baby's	position	at birth?
--	------	---------------	--------	----------	-----------

Singleton

Area	Cephalic pro	esentation	Breech pres	Breech presentation		Other		sure	No response		Total	
Kempoku	1,730	92.0%	65	3.5%	34	1.8%	35	1.9%	16	0.9%	1,880	100.0%
Kenchu	1,775	91.6%	70	3.6%	35	1.8%	40	2.1%	17	0.9%	1,937	100.0%
Kennan	513	89.5%	30	5.2%	11	1.9%	12	2.1%	7	1.2%	573	100.0%
Soso	464	89.2%	14	2.7%	22	4.2%	14	2.7%	6	1.2%	520	100.0%
Iwaki	1,064	91.3%	37	3.2%	21	1.8%	31	2.7%	13	1.1%	1,166	100.0%
Aizu	739	91.6%	28	3.5%	14	1.7%	20	2.5%	6	0.7%	807	100.0%
Minami-aizu	75	91.5%	2	2.4%	3	3.7%	1	1.2%	1	1.2%	82	100.0%
Outside	96	94.1%	3	2.9%	2	2.0%	1	1.0%	0	0.0%	102	100.0%
Fukushima												
Total	6,456	91.4%	249	3.5%	142	2.0%	154	2.2%	66	0.9%	7,067	100.0%

The first child of twins

Area	Cephalic p	resentation	Breech pre	Breech presentation		ler	Not	sure	No response		Total	
Kempoku	18	78.3%	4	17.4%	1	4.3%	0	0.0%	0	0.0%	23	100.0%
Kenchu	11	55.0%	5	25.0%	1	5.0%	3	15.0%	0	0.0%	20	100.0%
Kennan	6	75.0%	0	0.0%	0	0.0%	0	0.0%	2	25.0%	8	100.0%
Soso	5	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	5	100.0%
Iwaki	3	42.9%	2	28.6%	0	0.0%	1	14.3%	1	14.3%	7	100.0%
Aizu	4	40.0%	2	20.0%	1	10.0%	2	20.0%	1	10.0%	10	100.0%
Minami-aizu	1	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%
Outside	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Fukushima												
Total	48	64.9%	13	17.6%	3	4.1%	6	8.1%	4	5.4%	74	100.0%

The second child of twins

Area	Cephalic p	resentation	Breech pre	Breech presentation		Other		sure	No response		Total	
Kempoku	15	65.2%	7	30.4%	1	4.3%	0	0.0%	0	0.0%	23	100.0%
Kenchu	11	55.0%	5	25.0%	1	5.0%	3	15.0%	0	0.0%	20	100.0%
Kennan	5	62.5%	1	12.5%	0	0.0%	0	0.0%	2	25.0%	8	100.0%
Soso	2	40.0%	2	40.0%	1	20.0%	0	0.0%	0	0.0%	5	100.0%
Iwaki	0	0.0%	2	28.6%	0	0.0%	3	42.9%	2	28.6%	7	100.0%
Aizu	3	33.3%	4	44.4%	1	11.1%	1	11.1%	0	0.0%	9	100.0%
Minami-aizu	0	0.0%	1	100.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%
Outside	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Fukushima												
Total	36	49.3%	22	30.1%	4	5.5%	7	9.6%	4	5.5%	73	100.0%

Q18. How many weeks' gestation were you when you gave birth?

Singleton

Area	12-21	l weeks	22-23	weeks	24-27	weeks	28-31	weeks	32-36	5 weeks	37-41	weeks	<u>></u> 42	weeks	Te	otal
Kempoku	4	0.2%	2	0.1%	2	0.1%	7	0.4%	70	3.7%	1,791	95.3%	4	0.2%	1,880	100.0%
Kenchu	11	0.6%	0	0.0%	5	0.3%	6	0.3%	61	3.1%	1,849	95.5%	5	0.3%	1,937	100.0%
Kennan	1	0.2%	0	0.0%	5	0.9%	1	0.2%	26	4.5%	533	93.0%	7	1.2%	573	100.0%
Soso	1	0.2%	0	0.0%	0	0.0%	1	0.2%	26	5.0%	491	94.4%	1	0.2%	520	100.0%
Iwaki	5	0.4%	2	0.2%	4	0.3%	5	0.4%	53	4.5%	1,088	93.3%	9	0.8%	1,166	100.0%
Aizu	2	0.2%	0	0.0%	0	0.0%	4	0.5%	33	4.1%	766	94.9%	2	0.2%	807	100.0%
Minami-aizu	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	2.4%	80	97.6%	0	0.0%	82	100.0%
Outside	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1.0%	101	99.0%	0	0.0%	102	100.0%
Fukushima																
Total	24	0.3%	4	0.1%	16	0.2%	24	0.3%	272	3.8%	6,699	94.8%	28	0.4%	7,067	100.0%

Twin

Area	12-21	l weeks	22-23	8 weeks	24-27	weeks	28-31	weeks	32-36	i weeks	37-41	weeks	<u>≥</u> 42 ·	weeks	To	otal
Kempoku	0	0.0%	0	0.0%	0	0.0%	0	0.0%	9	39.1%	14	60.9%	0	0.0%	23	100.0%
Kenchu	0	0.0%	0	0.0%	0	0.0%	2	10.0%	10	50.0%	8	40.0%	0	0.0%	20	100.0%
Kennan	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	25.0%	6	75.0%	0	0.0%	8	100.0%
Soso	0	0.0%	0	0.0%	0	0.0%	0	0.0%	4	80.0%	1	20.0%	0	0.0%	5	100.0%
Iwaki	0	0.0%	0	0.0%	0	0.0%	1	14.3%	4	57.1%	2	28.6%	0	0.0%	7	100.0%
Aizu	0	0.0%	0	0.0%	0	0.0%	0	0.0%	4	40.0%	6	60.0%	0	0.0%	10	100.0%
Minami-aizu	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%	0	0.0%	1	100.0%
Outside Fukushima	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Total	0	0.0%	0	0.0%	0	0.0%	3	4.1%	33	44.6%	38	51.4%	0	0.0%	74	100.0%

Proportion of premature birth*

(Premature birth is one that occurs between 22 and 36 week of pregnancy.)

Singleton and twin pregnancy

			Number o	of delivery by	y weeks			_		
Area			Prematu	ire birth					Number of premature birth	Proportion**
	12-21	22-23	24-27	28-31	32-36	37-41	42-	Total	22-36 weeks	
Kempoku	4	2	2	7	88	1,819	4	1,926	99	5.15%
Kenchu	11	0	5	10	81	1,865	5	1,977	96	4.88%
Kennan	1	0	5	1	30	545	7	589	36	6.12%
Soso	1	0	0	1	34	493	1	530	35	6.62%
Iwaki	5	2	4	7	61	1,092	9	1,180	74	6.30%
Aizu	2	0	0	4	41	777	2	826	45	5.46%
Minami- aizu	0	0	0	0	2	82	0	84	2	2.38%
Outside Fukushima	0	0	0	0	1	101	0	102	1	0.98%
Total	24	4	16	30	338	6,774	28	7,214	388	5.40%

*Excluding those who checked NOT SURE, and pregnant for less than 12 weeks.

**The denominator excludes the number of delivery less than 22 weeks.

Details of delivery

Singleton

Area	Spontan	eous labor	Vacuum ex forceps c		Cesarea	n section	No re	esponse	Tot	al
Kempoku	1,320	70.2%	214	11.4%	326	17.3%	20	1.1%	1,880	100.0%
Kenchu	1,307	67.5%	240	12.4%	374	19.3%	16	0.8%	1,937	100.0%
Kennan	392	68.4%	57	9.9%	114	19.9%	10	1.7%	573	100.0%
Soso	279	53.7%	124	23.8%	108	20.8%	9	1.7%	520	100.0%
Iwaki	761	65.3%	166	14.2%	226	19.4%	13	1.1%	1,166	100.0%
Aizu	540	66.9%	82	10.2%	176	21.8%	9	1.1%	807	100.0%
Minami-aizu	53	64.6%	6	7.3%	22	26.8%	1	1.2%	82	100.0%
Outside	68	66.7%	14	13.7%	20	19.6%	0	0.0%	102	100.0%
Fukushima										
Total	4,720	66.8%	903	12.8%	1,366	19.3%	78	1.1%	7,067	100.0%

The first child of twins

Area	Sponta	neous labor		xtraction or delivery	Cesarea	an section	No re	esponse	To	al
Kempoku	5	21.7%	2	8.7%	16	69.6%	0	0.0%	23	100.0%
Kenchu	3	15.0%	0	0.0%	17	85.0%	0	0.0%	20	100.0%
Kennan	1	12.5%	1	12.5%	5	62.5%	1	12.5%	8	100.0%
Soso	0	0.0%	0	0.0%	5	100.0%	0	0.0%	5	100.0%
Iwaki	0	0.0%	0	0.0%	7	100.0%	0	0.0%	7	100.0%
Aizu	1	10.0%	0	0.0%	9	90.0%	0	0.0%	10	100.0%
Minami-aizu	0	0.0%	0	0.0%	1	100.0%	0	0.0%	1	100.0%
Outside	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Fukushima										
Total	10	13.5%	3	4.1%	60	81.1%	1	1.4%	74	100.0%

The second child of twins

Area	Sponta	neous labor		extraction or delivery	Cesarea	an section	No r	esponse	To	tal
Kempoku	5	21.7%	2	8.7%	16	69.6%	0	0.0%	23	100.0%
Kenchu	2	10.0%	1	5.0%	17	85.0%	0	0.0%	20	100.0%
Kennan	1	12.5%	0	0.0%	6	75.0%	1	12.5%	8	100.0%
Soso	0	0.0%	0	0.0%	5	100.0%	0	0.0%	5	100.0%
Iwaki	0	0.0%	0	0.0%	6	85.7%	1	14.3%	7	100.0%
Aizu	0	0.0%	0	0.0%	9	100.0%	0	0.0%	9	100.0%
Minami-aizu	0	0.0%	0	0.0%	1	100.0%	0	0.0%	1	100.0%
Outside	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Fukushima										
Total	8	11.0%	3	4.1%	60	82.2%	2	2.7%	73	100.0%

The ratio of male to female by area (Singleton and twin pregnancies)

Area	Μ	ale	Fem	ale	No res	ponse]	Fotal
Kempoku	955	49.6%	966	50.2%	5	0.3%	1,926	100.0%
Kenchu	991	50.1%	976	49.4%	10	0.5%	1,977	100.0%
Kennan	267	45.3%	320	54.3%	2	0.3%	589	100.0%
Soso	276	52.1%	253	47.7%	1	0.2%	530	100.0%
Iwaki	621	52.6%	556	47.1%	3	0.3%	1,180	100.0%
Aizu	425	51.5%	399	48.3%	2	0.2%	826	100.0%
Minami- aizu	42	50.0%	42	50.0%	0	0.0%	84	100.0%
Outside	53	52.0%	49	48.0%	0	0.0%	102	100.0%
Fukushima								
Total	3,630	50.3%	3,561	49.4%	23	0.3%	7,214	100.0%

Q19. State of newborn baby

Newborn baby birth weight (Singleton pregnancy)

Mean \pm SD (g) (n)

Area	,	Total	М	ale		Fe	emale		No response
Kempoku	$3,012.3 \pm$	424.1 (1,877)	$3,055.1 \pm$	435.2 (929)	$2{,}973.6~\pm$	398.0 (946)	3
Kenchu	$3,010.1 \pm$	458.2 (1,928)	$3,075.5 \pm$	455.2 (966)	2,953.5 \pm	422.5 (959)	9
Kennan	3,018.4 \pm	486.8 (573)	$3,030.3 \pm$	435.1 (261)	3,017.6 ±	502.4 (311)	0
Soso	$3,026.2 \pm$	403.7 (519)	3,073.7 ±	395.3 (271)	2,974.2 ±	407.1 (248)	1
Iwaki	3,007.4 \pm	447.7 (1,163)	$3,053.0 \pm$	458.2 (616)	$2{,}956.0~\pm$	430.3 (547)	3
Aizu	3,011.9 ±	421.4 (805)	3,061.8 ±	446.2 (411)	$2,959.8 \pm$	388.1 (393)	2
Minami- aizu	3,022.2 ±	433.6 (82)	3,023.3 ±	369.9 (40)	3,021.2 ±	491.2 (42)	0
Outside Fukushima	3,068.0 ±	391.3 (102)	3,160.0 ±	413.9 (53)	2,968.6 ±	342.3 (49)	0
Total	3,013.3 ±	440.7 (7,049)	3,061.9 ±	442.2 (3,547)	$2,968.3 \pm$	420.1 (3,495)	18

(n): Number of valid response

The total number includes babies with indeterminate sex.

Males and females (Singleton pregnancy)

Area	<]	1.0 kg	1.0-<	<1.5 kg	1.5	<2.0 kg	2.0	<2.5 kg	2.5-<	<3.0 kg
Kempoku	7	0.4%	4	0.2%	14	0.7%	119	6.3%	756	40.2%
Kenchu	12	0.6%	6	0.3%	16	0.8%	128	6.6%	745	38.5%
Kennan	6	1.0%	2	0.3%	4	0.7%	43	7.5%	209	36.5%
Soso	1	0.2%	0	0.0%	4	0.8%	36	6.9%	204	39.2%
Iwaki	8	0.7%	3	0.3%	7	0.6%	97	8.3%	429	36.8%
Aizu	2	0.2%	2	0.2%	8	1.0%	64	7.9%	310	38.4%
Minami-aizu	0	0.0%	0	0.0%	1	1.2%	5	6.1%	30	36.6%
Outside	0	0.0%	0	0.0%	0	0.0%	6	5.9%	36	35.3%
Fukushima										
Total	36	0.5%	17	0.2%	54	0.8%	498	7.0%	2,719	38.5%

Area	3.0-<3	8.5 kg	3.5-<4	.0 kg	4.0-<4	4.5 kg	<u>></u> 4.4	5 kg	No res	sponse	To	tal
Kempoku	796	42.3%	169	9.0%	11	0.6%	1	0.1%	3	0.2%	1,880	100.0%
Kenchu	803	41.5%	196	10.1%	21	1.1%	1	0.1%	9	0.5%	1,937	100.0%
Kennan	243	42.4%	58	10.1%	7	1.2%	1	0.2%	0	0.0%	573	100.0%
Soso	216	41.5%	53	10.2%	5	1.0%	0	0.0%	1	0.2%	520	100.0%
Iwaki	495	42.5%	114	9.8%	8	0.7%	2	0.2%	3	0.3%	1,166	100.0%
Aizu	329	40.8%	87	10.8%	2	0.2%	1	0.1%	2	0.2%	807	100.0%
Minami-aizu	38	46.3%	7	8.5%	1	1.2%	0	0.0%	0	0.0%	82	100.0%
Outside	46	45.1%	13	12.7%	1	1.0%	0	0.0%	0	0.0%	102	100.0%
Fukushima												
Total	2,966	42.0%	697	9.9%	56	0.8%	6	0.1%	18	0.3%	7,067	100.0%

Males (Singleton pregnancy)

Area	<1	.0 kg	1.0-<1	.5 kg	1.5-<2	.0 kg	2.0-<2	.5 kg	2.5-<3	3.0 kg
Kempoku	4	0.4%	3	0.3%	4	0.4%	59	6.4%	324	34.9%
Kenchu	6	0.6%	0	0.0%	6	0.6%	51	5.3%	328	33.9%
Kennan	1	0.4%	1	0.4%	2	0.8%	20	7.7%	92	35.2%
Soso	0	0.0%	0	0.0%	1	0.4%	19	7.0%	94	34.7%
Iwaki	5	0.8%	2	0.3%	4	0.6%	35	5.7%	209	33.9%
Aizu	2	0.5%	1	0.2%	5	1.2%	26	6.3%	135	32.8%
Minami-aizu	0	0.0%	0	0.0%	0	0.0%	2	5.0%	14	35.0%
Outside	0	0.0%	0	0.0%	0	0.0%	4	7.5%	12	22.6%
Fukushima										
Total	18	0.5%	7	0.2%	22	0.6%	216	6.1%	1,208	34.0%

Area	3.0-<	3.5 kg	3.5-<4	4.0 kg	4.0-<4	4.5 kg	<u>></u> 4.	5 kg	No res	ponse	To	tal
Kempoku	425	45.7%	104	11.2%	5	0.5%	1	0.1%	0	0.0%	929	100.0%
Kenchu	432	44.6%	127	13.1%	15	1.5%	1	0.1%	2	0.2%	968	100.0%
Kennan	118	45.2%	26	10.0%	0	0.0%	1	0.4%	0	0.0%	261	100.0%
Soso	121	44.6%	31	11.4%	5	1.8%	0	0.0%	0	0.0%	271	100.0%
Iwaki	289	46.8%	65	10.5%	5	0.8%	2	0.3%	1	0.2%	617	100.0%
Aizu	183	44.4%	57	13.8%	2	0.5%	0	0.0%	1	0.2%	412	100.0%
Minami-aizu	21	52.5%	3	7.5%	0	0.0%	0	0.0%	0	0.0%	40	100.0%
Outside	27	50.9%	9	17.0%	1	1.9%	0	0.0%	0	0.0%	53	100.0%
Fukushima												
Total	1,616	45.5%	422	11.9%	33	0.9%	5	0.1%	4	0.1%	3,551	100.0%

Females (Singleton pregnancy)

Area	<1.0 kg		1.0-<1.5 kg		1.5-<2.0 kg		2.0-<2.5 kg		2.5-<3.0 kg	
Kempoku	2	0.2%	1	0.1%	10	1.1%	60	6.3%	431	45.6%
Kenchu	3	0.3%	6	0.6%	10	1.0%	77	8.0%	417	43.5%
Kennan	4	1.3%	1	0.3%	2	0.6%	23	7.4%	117	37.6%
Soso	1	0.4%	0	0.0%	3	1.2%	17	6.9%	110	44.4%
Iwaki	3	0.5%	1	0.2%	3	0.5%	62	11.3%	220	40.2%
Aizu	0	0.0%	1	0.3%	3	0.8%	38	9.7%	174	44.3%
Minami-aizu	0	0.0%	0	0.0%	1	2.4%	3	7.1%	16	38.1%
Outside	0	0.0%	0	0.0%	0	0.0%	2	4.1%	24	49.0%
Fukushima										
Total	13	0.4%	10	0.3%	32	0.9%	282	8.1%	1,509	43.2%

Area	3.0-<3.5 kg		3.5-<4.0 kg		4.0-<4.5 kg		<u>≥</u> 4.5 kg		No response		Total	
Kempoku	371	39.2%	65	6.9%	6	0.6%	0	0.0%	0	0.0%	946	100.0%
Kenchu	371	38.7%	69	7.2%	6	0.6%	0	0.0%	0	0.0%	959	100.0%
Kennan	125	40.2%	32	10.3%	7	2.3%	0	0.0%	0	0.0%	311	100.0%
Soso	95	38.3%	22	8.9%	0	0.0%	0	0.0%	0	0.0%	248	100.0%
Iwaki	206	37.7%	49	9.0%	3	0.5%	0	0.0%	0	0.0%	547	100.0%
Aizu	146	37.2%	30	7.6%	0	0.0%	1	0.3%	0	0.0%	393	100.0%
Minami-aizu	17	40.5%	4	9.5%	1	2.4%	0	0.0%	0	0.0%	42	100.0%
Outside	19	38.8%	4	8.2%	0	0.0%	0	0.0%	0	0.00/	49	100.0%
Fukushima									0	0.0%		
Total	1,350	38.6%	275	7.9%	23	0.7%	1	0.0%	0	0.0%	3,495	100.0%

Newborn baby birth weight (Twin pregnancy)

Mean (g) ±SD (Valid response)

Area	Tot	tal	Ma	ale	Fem	nale	No response
Kempoku	2,314.5 ±	343.3 (46)	2,245.0 ±	371.8 (26)	2,404.8 ±	286.4 (20)	0
Kenchu	2,012.4 ±	455.7 (40)	2,070.3 ±	406.7 (23)	1,934.0 ±	517.1 (17)	0
Kennan	2,449.1 ±	195.5 (15)	$2,550.5 \pm$	100.3 (6)	2,381.4 ±	218.5 (9)	1
Soso	2,283.4 ±	360.4 (10)	2,188.8 ±	478.9 (5)	2,378.0 ±	201.2 (5)	0
Iwaki	2,068.3 ±	530.9 (13)	1,921.5 ±	670.4 (4)	2,133.6 ±	488.6 (9)	1
Aizu	2,366.5 ±	397.4 (19)	2,444.6 ±	258.0 (13)	2,197.3 ±	598.9 (6)	0
Minami-aizu	2,185.0 ±	12.7 (2)	2,185.0 ±	12.7 (2)		(0)	0
Outside Fukushima		(0)		(0)		(0)	0
Total	2,225.9 ±	416.7 (145)	2,228.7 ±	398.9 (79)	2,222.5 ±	440.1 (66)	2

The total number includes babies with indeterminate sex.

Newborn baby birth weight

Males and females (Twin pregnancy)

Area	<1	l.0 kg	1.0-	-<1.5 kg	1.5-	-<2.0 kg	2.0-	<2.5 kg	2.5-	<3.0 kg	3.0-	<3.5 kg	No	response	Т	otal
Kempoku	0	0.0%	1	2.2%	8	17.4%	26	56.5%	11	23.9%	0	0.0%	0	0.0%	46	100.0%
Kenchu	0	0.0%	6	15.0%	13	32.5%	17	42.5%	3	7.5%	1	2.5%	0	0.0%	40	100.0%
Kennan	0	0.0%	0	0.0%	1	6.3%	6	37.5%	8	50.0%	0	0.0%	1	6.3%	16	100.0%
Soso	0	0.0%	0	0.0%	2	20.0%	5	50.0%	3	30.0%	0	0.0%	0	0.0%	10	100.0%
Iwaki	2	14.3%	0	0.0%	3	21.4%	7	50.0%	1	7.1%	0	0.0%	1	7.1%	14	100.0%
Aizu	0	0.0%	0	0.0%	5	26.3%	6	31.6%	8	42.1%	0	0.0%	0	0.0%	19	100.0%
Minami-aizu	0	0.0%	0	0.0%	0	0.0%	2	100.0%	0	0.0%	0	0.0%	0	0.0%	2	100.0%
Outside	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Fukushima																
Total	2	1.4%	7	4.8%	32	21.8%	69	46.9%	34	23.1%	1	0.7%	2	1.4%	147	100.0%

Males (Twin pregnancy)

Area	<	1.0 kg	1.0-<	1.5 kg	1.5-<	2.0 kg	2.0-<2	5 kg	2.5-	-<3.0 kg	3.0-<	<3.5 kg	r	Гotal
Kempoku	0	0.0%	1	3.8%	6	23.1%	13	50.0%	6	23.1%	0	0.0%	26	100.0%
Kenchu	0	0.0%	3	13.0%	6	26.1%	12	52.2%	2	8.7%	0	0.0%	23	100.0%
Kennan	0	0.0%	0	0.0%	0	0.0%	1	16.7%	5	83.3%	0	0.0%	6	100.0%
Soso	0	0.0%	0	0.0%	2	40.0%	1	20.0%	2	40.0%	0	0.0%	5	100.0%
Iwaki	1	25.0%	0	0.0%	1	25.0%	2	50.0%	0	0.0%	0	0.0%	4	100.0%
Aizu	0	0.0%	0	0.0%	1	7.7%	6	46.2%	6	46.2%	0	0.0%	13	100.0%
Minami-aizu	0	0.0%	0	0.0%	0	0.0%	2	100.0%	0	0.0%	0	0.0%	2	100.0%
Outside	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Fukushima														
Total	1	1.3%	4	5.1%	16	20.3%	37	46.8%	21	26.6%	0	0.0%	79	100.0%

Females (Twin pregnancy)

Area	<1.	.0 kg	1.0-<	1.5 kg	1.5-	<2.0 kg	2.0-<	:2.5 kg	2.5-	-<3.0 kg	3.0-	<3.5 kg	Т	otal
Kempoku	0	0.0%	0	0.0%	2	10.0%	13	65.0%	5	25.0%	0	0.0%	20	100.0%
Kenchu	0	0.0%	3	17.6%	7	41.2%	5	29.4%	1	5.9%	1	5.9%	17	100.0%
Kennan	0	0.0%	0	0.0%	1	11.1%	5	55.6%	3	33.3%	0	0.0%	9	100.0%
Soso	0	0.0%	0	0.0%	0	0.0%	4	80.0%	1	20.0%	0	0.0%	5	100.0%
Iwaki	1	11.1%	0	0.0%	2	22.2%	5	55.6%	1	11.1%	0	0.0%	9	100.0%
Aizu	0	0.0%	0	0.0%	4	66.7%	0	0.0%	2	33.3%	0	0.0%	6	100.0%
Minami-aizu	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	100.0%
Outside Fukushima	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Total	1	1.5%	3	4.5%	16	24.2%	32	48.5%	13	19.7%	1	1.5%	66	100.0%

Newborn baby birth weight (Singleton and twin pregnancies)

Area	<1.0 kg	1.0- <1.5 kg	1.5- <2.0 kg	2.0- <2.5 kg	2.5- <3.0 kg	3.0- <3.5 kg	3.5- <4.0 kg	4.0- <4.5 kg	<u>≥</u> 4.5 kg	Total	Low birth weight infant	Proportion of low birth weight infant
Kempoku	7	5	22	145	767	796	169	11	1	1,923	179	9.3%
Kenchu	12	12	29	145	748	804	196	21	1	1,968	198	10.1%
Kennan	6	2	5	49	217	243	58	7	1	588	62	10.5%
Soso	1	0	6	41	207	216	53	5	0	529	48	9.1%
Iwaki	10	3	10	104	430	495	114	8	2	1,176	127	10.8%
Aizu	2	2	13	70	318	329	87	2	1	824	87	10.6%
Minami- aizu	0	0	1	7	30	38	7	1	0	84	8	9.5%
Outside Fukushima	0	0	0	6	36	46	13	1	0	102	6	5.9%
Total	38	24	86	567	2,753	2,967	697	56	6	7,194	715	9.9%

Excluding 20 participants with no response

Newborn baby birth height (Singleton pregnancy)

Mean (cm) \pm SD (n)

Area	Total	Male	Female	No response
Kempoku	49.0 ± 2.7 (1,871)	49.3 ± 2.7 (927)	48.8 ± 2.4 (942)	9
Kenchu	49.0 ± 2.8 (1,918)	49.4 ± 2.7 (963)	48.6 ± 2.3 (953)	19
Kennan	49.2 ± 3.5 (568)	49.4 ± 3.7 (260)	49.1 ± 2.8 (307)	5
Soso	48.7 ± 3.0 (518)	48.9 ± 3.6 (271)	48.5 ± 2.1 (247)	2
Iwaki	49.0 ± 3.0 (1,159)	49.3 ± 2.8 (614)	48.7 ± 2.6 (544)	7
Aizu	48.7 ± 2.4 (799)	48.9 ± 2.8 (408)	48.4 ± 2.0 (391)	8
Minami- aizu	48.8 ± 2.2 (81)	48.9 ± 1.9 (39)	48.8 ± 2.4 (42)	1
Outside Fukushima	49.0 ± 1.9 (101)	49.1 ± 2.0 (52)	48.9 ± 1.9 (49)	1
Total	49.0 ± 2.8 (7,015)	49.3 ± 2.9 (3,534)	48.7 ± 2.4 (3,475)	52

(n): Number of valid response

The total number includes babies with indeterminate sex.

Newborn baby birth height

Males and females (Singleton pregnancy)

Area	<47	7 cm	47-<4	-8 cm	48-<4	19 cm	49-<5	60 cm	50-<5	1 cm
Kempoku	212	11.3%	212	11.3%	277	14.7%	397	21.1%	391	20.8%
Kenchu	206	10.6%	203	10.5%	302	15.6%	387	20.0%	437	22.6%
Kennan	52	9.1%	38	6.6%	74	12.9%	117	20.4%	131	22.9%
Soso	72	13.8%	68	13.1%	92	17.7%	105	20.2%	89	17.1%
Iwaki	141	12.1%	100	8.6%	188	16.1%	248	21.3%	249	21.4%
Aizu	122	15.1%	100	12.4%	140	17.3%	151	18.7%	184	22.8%
Minami-aizu	15	18.3%	8	9.8%	16	19.5%	14	17.1%	14	17.1%
Outside	14	13.7%	11	10.8%	12	11.8%	23	22.5%	20	19.6%
Fukushima										
Total	834	11.8%	740	10.5%	1,101	15.6%	1,442	20.4%	1,515	21.4%

Area	51-<	52 cm	<u>></u> 52	cm	No res	sponse	Tota	ıl
Kempoku	231	12.3%	151	8.0%	9	0.5%	1,880	100.0%
Kenchu	237	12.2%	146	7.5%	19	1.0%	1,937	100.0%
Kennan	91	15.9%	65	11.3%	5	0.9%	573	100.0%
Soso	58	11.2%	34	6.5%	2	0.4%	520	100.0%
Iwaki	141	12.1%	92	7.9%	7	0.6%	1,166	100.0%
Aizu	62	7.7%	40	5.0%	8	1.0%	807	100.0%
Minami-	6	7.3%	8	9.8%	1	1.2%	82	100.0%
aizu								
Outside	15	14.7%	6	5.9%	1	1.0%	102	100.0%
Fukushima								
Total	841	11.9%	542	7.7%	52	0.7%	7,067	100.0%

Males (Singleton pregnancy)

Area	<47	cm	47-<48	cm	48-<49) cm	49-<50) cm	50-<51	l cm
Kempoku	75	8.1%	93	10.0%	119	12.8%	207	22.3%	206	22.2%
Kenchu	78	8.1%	84	8.7%	131	13.5%	194	20.0%	215	22.2%
Kennan	21	8.0%	15	5.7%	28	10.7%	55	21.1%	61	23.4%
Soso	29	10.7%	36	13.3%	44	16.2%	55	20.3%	48	17.7%
Iwaki	57	9.2%	56	9.1%	78	12.6%	124	20.1%	143	23.2%
Aizu	53	12.9%	43	10.4%	58	14.1%	88	21.4%	96	23.3%
Minami-aizu	6	15.0%	2	5.0%	11	27.5%	6	15.0%	9	22.5%
Outside	7	13.2%	5	9.4%	7	13.2%	10	18.9%	8	15.1%
Fukushima										
Total	326	9.2%	334	9.4%	476	13.4%	739	20.8%	786	22.1%

Area	51-<	52 cm	<u>></u> 52	cm	No rea	sponse	Tot	al
Kempoku	128	13.8%	99	10.7%	2	0.2%	929	100.0%
Kenchu	149	15.4%	112	11.6%	5	0.5%	968	100.0%
Kennan	48	18.4%	32	12.3%	1	0.4%	261	100.0%
Soso	36	13.3%	23	8.5%	0	0.0%	271	100.0%
Iwaki	89	14.4%	67	10.9%	3	0.5%	617	100.0%
Aizu	40	9.7%	30	7.3%	4	1.0%	412	100.0%
Minami-aizu	3	7.5%	2	5.0%	1	2.5%	40	100.0%
Outside	14	26.4%	1	1.9%	1	1.9%	53	100.0%
Fukushima								
Total	507	14.3%	366	10.3%	17	0.5%	3,551	100.0%

Females (Singleton pregnancy)

Area	<47	cm	47-<4	48cm	48-<4	19 cm	49-<5	0 cm	50-<5	1 cm
Kempoku	136	14.4%	119	12.6%	157	16.6%	190	20.1%	185	19.6%
Kenchu	126	13.1%	119	12.4%	171	17.8%	193	20.1%	222	23.1%
Kennan	30	9.6%	23	7.4%	46	14.8%	62	19.9%	70	22.5%
Soso	43	17.3%	32	12.9%	48	19.4%	50	20.2%	41	16.5%
Iwaki	83	15.2%	44	8.0%	110	20.1%	124	22.7%	106	19.4%
Aizu	69	17.6%	57	14.5%	82	20.9%	63	16.0%	88	22.4%
Minami-aizu	9	21.4%	6	14.3%	5	11.9%	8	19.0%	5	11.9%
Outside	7	14.3%	6	12.2%	5	10.2%	13	26.5%	12	24.5%
Fukushima										
Total	503	14.4%	406	11.6%	624	17.9%	703	20.1%	729	20.9%

Area	51-	<52 cm	<u>></u> 52	cm	No res	sponse	То	tal
Kempoku	103	10.9%	52	5.5%	4	0.4%	946	100.0%
Kenchu	88	9.2%	34	3.5%	6	0.6%	959	100.0%
Kennan	43	13.8%	33	10.6%	4	1.3%	311	100.0%
Soso	22	8.9%	11	4.4%	1	0.4%	248	100.0%
Iwaki	52	9.5%	25	4.6%	3	0.5%	547	100.0%
Aizu	22	5.6%	10	2.5%	2	0.5%	393	100.0%
Minami-aizu	3	7.1%	6	14.3%	0	0.0%	42	100.0%
Outside	1	2.0%	5	10.2%	0	0.0%	49	100.0%
Fukushima								
Total	334	9.6%	176	5.0%	20	0.6%	3,495	100.0%

Newborn baby birth height (Twin pregnancy)

Mean (cm) ±SD (n)

Area	Total	Male	Female	No response
Kempoku	46.0 ± 2.5 (46)	45.8 ± 2.7 (26)	46.3 ± 2.2 (20)	0
Kenchu	43.3 ± 4.4 (40)	44.2 ± 3.2 (23)	41.9 ± 5.3 (17)	0
Kennan	$46.3 \pm 2.2 (15)$	48.0 ± 1.1 (6)	45.2 ± 2.1 (9)	1
Soso	45.1 ± 3.1 (10)	43.6 ± 3.0 (5)	46.6 ± 2.7 (5)	0
Iwaki	43.3 ± 3.7 (13)	42.4 ± 5.2 (4)	43.7 ± 3.2 (9)	1
Aizu	45.3 ± 2.6 (19)	46.0 ± 1.9 (13)	43.8 ± 3.4 (6)	0
Minami-aizu	44.8 ± 1.1 (2)	44.8 ± 1.1 (2)	(0)	0
Outside Fukushima	(0)	(0)	(0)	0
Total	44.9 ± 3.4 (145)	45.2 ± 3.0 (79)	44.5 ± 3.8 (66)	2

The total number includes babies with indeterminate sex.

Newborn baby birth height

Males and females (Twin pregnancy)

Area	<4	4 cm	44-<	(45 cm	45	<46 cm	46-<	<47 cm	47-<	<48 cm	48-<	(49 cm	\geq	49 cm	No re	sponse	Т	otal
Kempoku	8	17.4%	3	6.5%	7	15.2%	5	10.9%	9	19.6%	9	19.6%	5	10.9%	0	0.0%	46	100.0%
Kenchu	19	47.5%	4	10.0%	4	10.0%	4	10.0%	3	7.5%	3	7.5%	3	7.5%	0	0.0%	40	100.0%
Kennan	3	18.8%	0	0.0%	3	18.8%	2	12.5%	1	6.3%	4	25.0%	2	12.5%	1	6.3%	16	100.0%
Soso	3	30.0%	2	20.0%	1	10.0%	1	10.0%	0	0.0%	2	20.0%	1	10.0%	0	0.0%	10	100.0%
Iwaki	4	28.6%	2	14.3%	7	50.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	7.1%	14	100.0%
Aizu	6	31.6%	1	5.3%	2	10.5%	2	10.5%	5	26.3%	1	5.3%	2	10.5%	0	0.0%	19	100.0%
Minami-	0	0.0%	1	50.0%	1	50.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	100.0%
aizu																		
Outside	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%
Fukushima																		
Total	43	29.3%	13	8.8%	25	17.0%	14	9.5%	18	12.2%	19	12.9%	13	8.8%	2	1.4%	147	100.0%

Males (Twin pregnancy)

Area	<4	4 cm	44-<	<45 cm	45-<	:46 cm	46-<	<47 cm	47	<48 cm	48-<	<49 cm	<u>></u> 49) cm	Тс	otal
Kempoku	5	19.2%	2	7.7%	4	15.4%	3	11.5%	5	19.2%	4	15.4%	3	11.5%	26	100.0%
Kenchu	9	39.1%	3	13.0%	4	17.4%	3	13.0%	1	4.3%	1	4.3%	2	8.7%	23	100.0%
Kennan	0	0.0%	0	0.0%	0	0.0%	1	16.7%	1	16.7%	2	33.3%	2	33.3%	6	100.0%
Soso	2	40.0%	2	40.0%	0	0.0%	0	0.0%	0	0.0%	1	20.0%	0	0.0%	5	100.0%
Iwaki	1	25.0%	1	25.0%	2	50.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	4	100.0%
Aizu	2	15.4%	1	7.7%	2	15.4%	2	15.4%	4	30.8%	1	7.7%	1	7.7%	13	100.0%
Minami-aizu	0	0.0%	1	50.0%	1	50.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	100.0%
Outside	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Fukushima																
Total	19	24.1%	10	12.7%	13	16.5%	9	11.4%	11	13.9%	9	11.4%	8	10.1%	79	100.0%

Females (Twin pregnancy)

Area	<4	4 cm	44-<	:45 cm	45-<	:46 cm	46-<	47 cm	47-<	48 cm	48-<	49 cm	<u>></u> 49	9 cm	To	otal
Kempoku	3	15.0%	1	5.0%	3	15.0%	2	10.0%	4	20.0%	5	25.0%	2	10.0%	20	100.0%
Kenchu	10	58.8%	1	5.9%	0	0.0%	1	5.9%	2	11.8%	2	11.8%	1	5.9%	17	100.0%
Kennan	3	33.3%	0	0.0%	3	33.3%	1	11.1%	0	0.0%	2	22.2%	0	0.0%	9	100.0%
Soso	1	20.0%	0	0.0%	1	20.0%	1	20.0%	0	0.0%	1	20.0%	1	20.0%	5	100.0%
Iwaki	3	33.3%	1	11.1%	5	55.6%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	9	100.0%
Aizu	4	66.7%	0	0.0%	0	0.0%	0	0.0%	1	16.7%	0	0.0%	1	16.7%	6	100.0%
Minami-aizu	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Outside Fukushima	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Total	24	36.4%	3	4.5%	12	18.2%	5	7.6%	7	10.6%	10	15.2%	5	7.6%	66	100.0%

The total number below includes babies with indeterminate sex.

Chest circumference (Singleton pregnancy)

Area	Total	Male	Female	No response
Kempoku	31.6 ± 1.7 (1,850)	31.7 ± 1.7 (917)	31.5 ± 1.7 (933)	30
Kenchu	31.7 ± 1.8 (1,901)	32.0 ± 1.8 (954)	31.5 ± 1.8 (947)	36
Kennan	31.8 ± 2.0 (564)	31.8 ± 1.9 (259)	31.8 ± 2.1 (305)	9
Soso	31.8 ± 1.7 (511)	32.0 ± 1.7 (267)	31.6 ± 1.7 (244)	9
Iwaki	31.7 ± 1.9 (1,141)	31.8 ± 1.8 (601)	31.5 ± 2.0 (540)	25
Aizu	31.8 ± 1.8 (793)	31.9 ± 1.8 (405)	31.7 ± 1.7 (388)	14
Minami-aizu	31.8 ± 1.8 (80)	31.7 ± 1.6 (39)	31.9 ± 2.1 (41)	2
Outside	21.7 + 1.5 (-10.1)	22.0 + 1.7 (52)	21.4 + 1.2(-40)	1
Fukushima	$31.7 \pm 1.5($ 101)	32.0 ± 1.7 (52)	31.4 ± 1.3 (49)	1
Total	31.7 ± 1.8 (6,941)	31.9 ± 1.8 (3,494)	31.5 ± 1.8 (3,447)	126

Chest circumference (Twin pregnancy)

Total Area Male Female No response 28.7 ± Kempoku 1.6 (44) $28.6 \pm$ 1.6 (24) 28.9 ± 1.6 (20) 2 0 27.2 ± 2.4 (40) 27.3 ± 2.1 (27.0 ± 2.8 (Kenchu 23) 17) Kennan 29.7 ± 1.2 (15) 30.3 ± 1.0 (6) 29.3 ± 1.2 (9) 1 Soso 1.6 (10) $28.7 \pm$ 2.0 (5) 29.6 ± 1.1 (5) 0 29.1 ± 3.0 (2.9 (1 Iwaki 27.9 ± 13) $26.9 \pm$ 3.6 (4) $28.3 \pm$ 9) 29.3 ± 0 1.4 (28.3 ± 3.2 (Aizu 28.9 ± 2.1 (19) 13) 6) 0 Minami-aizu 28.0 ± 0.0 (2) $28.0 \pm$ 0.0 (2) 0) (Outside 0 0) 0) 0) (((Fukushima 2.2 (143) 2.4 (4 Total $28.4 \pm$ $28.4 \pm$ 2.0 (77) $28.4 \pm$ 66)

Head circumference (Singleton pregnancy)

Mean (cm)±SD (n)

Mean (cm) ±SD (n)

Mean (cm)±SD (n)

Area	Total	Male	Female	No response
Kempoku	33.2 ± 1.6 (1,853)	33.4 ± 1.7 (918)	33.0 ± 1.4 (935)	27
Kenchu	33.2 ± 1.5 (1,901)	33.4 ± 1.5 (954)	32.9 ± 1.5 (947)	36
Kennan	32.8 ± 1.7 (561)	33.0 ± 1.6 (257)	32.7 ± 1.8 (304)	12
Soso	33.0 ± 1.5 (511)	33.2 ± 1.4 (267)	32.8 ± 1.6 (244)	9
Iwaki	33.3 ± 1.6 (1,142)	33.5 ± 1.4 (601)	33.1 ± 1.7 (541)	24
Aizu	33.1 ± 1.4 (792)	33.3 ± 1.5 (405)	32.9 ± 1.3 (387)	15
Minami-aizu	33.3 ± 1.2 (80)	33.4 ± 1.3 (39)	33.2 ± 1.2 (41)	2
Outside		22.0 1.4 (22.7 1.4 (1
Fukushima	$33.3 \pm 1.4 (101)$	33.8 ± 1.4 (52)	32.7 ± 1.4 (49)	1
Total	33.2 ± 1.6 (6,941)	33.4 ± 1.6 (3,493)	32.9 ± 1.5 (3,448)	126

Head circumference (Twin pregnancy)

Mean (cm) ±SD (n)

Area	Total	Male	Female	No response
Kempoku	32.3 ± 1.4 (44)	32.3 ± 1.5 (24)	32.2 ± 1.3 (20)	2
Kenchu	31.0 ± 2.0 (40)	31.5 ± 1.6 (23)	30.3 ± 2.3 (17)	0
Kennan	32.4 ± 1.5 (15)	33.1 ± 0.6 (6)	32.0 ± 1.8 (9)	1
Soso	31.6 ± 1.4 (10)	30.8 ± 1.6 (5)	32.4 ± 0.7 (5)	0
Iwaki	31.3 ± 2.9 (13)	30.0 ± 3.4 (4)	31.8 ± 2.7 (9)	1
Aizu	32.1 ± 1.7 (19)	32.4 ± 1.6 (13)	31.6 ± 1.8 (6)	0
Minami-aizu	31.0 ± 1.4 (2)	31.0 ± 1.4 (2)	(0)	0
Outside	(0)			0
Fukushima	(0)	(0)	(0)	0
Total	31.7 ± 1.9 (143)	31.9 ± 1.7 (77)	31.6 ± 2.0 (66)	4

Newborn infants in apparent death (Singleton pregnancy)

Area	Yes		No		No respo	nse	Tota	1
Kempoku	19	1.0%	1,840	97.9%	21	1.1%	1,880	100.0%
Kenchu	16	0.8%	1,849	95.5%	72	3.7%	1,937	100.0%
Kennan	7	1.2%	554	96.7%	12	2.1%	573	100.0%
Soso	4	0.8%	505	97.1%	11	2.1%	520	100.0%
Iwaki	7	0.6%	1,126	96.6%	33	2.8%	1,166	100.0%
Aizu	7	0.9%	781	96.8%	19	2.4%	807	100.0%
Minami-aizu	1	1.2%	81	98.8%	0	0.0%	82	100.0%
Outside	2	2.0%	98	96.1%	2	2.0%	102	100.00/
Fukushima								100.0%
Total	63	0.9%	6,834	96.7%	170	2.4%	7,067	100.0%

Resuscitated or not (Singleton pregnancy)

This question is for 63 respondents who answered YES to the above question.

•		-				•				
Area	1	Yes	N	0	Not	sure	No res	ponse	Tot	al
Kempoku	14	73.7%	1	5.3%	3	15.8%	1	5.3%	19	100.0%
Kenchu	12	75.0%	2	12.5%	2	12.5%	0	0.0%	16	100.0%
Kennan	5	71.4%	0	0.0%	2	28.6%	0	0.0%	7	100.0%
Soso	3	75.0%	0	0.0%	1	25.0%	0	0.0%	4	100.0%
Iwaki	5	71.4%	0	0.0%	2	28.6%	0	0.0%	7	100.0%
Aizu	5	71.4%	0	0.0%	2	28.6%	0	0.0%	7	100.0%
Minami-aizu	1	100.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%
Outside	2	100.0%	0	0.0%	0	0.0%	0	0.0%	2	100.00/
Fukushima										100.0%
Total	47	74.6%	3	4.8%	12	19.0%	1	1.6%	63	100.0%

Newborn infants in apparent death

(The first child of twins)

Area	Yes	No	No response	Total
Kempoku	0	23	0	23
Kenchu	1	19	0	20
Kennan	0	8	0	8
Soso	0	5	0	5
Iwaki	1	6	0	7
Aizu	0	10	0	10
Minami-aizu	0	1	0	1
Outside	0	0	0	0
Fukushima	0	0	0	0
Total	2	72	0	74

Resuscitated or not (The first child of twins)

Area	Yes	No	Not sure	Total
Kempoku	0	0	0	0
Kenchu	0	1	0	1
Kennan	0	0	0	0
Soso	0	0	0	0
Iwaki	1	0	0	1
Aizu	0	0	0	0
Minami-aizu	0	0	0	0
Outside	0	0	0	0
Fukushima				
Total	1	1	0	2

Newborn infants in apparent death

(The second child of twins)

Area	Yes	No	No response	Total
Kempoku	2	21	0	23
Kenchu	1	19	0	20
Kennan	0	7	1	8
Soso	0	5	0	5
Iwaki	0	6	1	7
Aizu	0	9	0	9
Minami-aizu	0	1	0	1
Outside	0	0	0	0
Fukushima	0	0	0	0
Total	3	68	2	73

Resuscitated or not (The second child of twins)

The question	is for 3	respondents	who said	YES to t	he previous qu	estion
The question	18 101 5	respondents	who salu	I LS IU I	ne previous qu	estion.

Area	Yes	No	Not sure	Total
Kempoku	2	0	0	2
Kenchu	1	0	0	1
Kennan	0	0	0	0
Soso	0	0	0	0
Iwaki	0	0	0	0
Aizu	0	0	0	0
Minami-aizu	0	0	0	0
Outside	0	0	0	0
Fukushima				
Total	3	0	0	3

Congenital anomaly: Yes/No

This question is for 7,067 respondents with singleton pregnancy of 12 weeks or after.

Area	Y	es	N	0	No res	ponse	To	tal
Kempoku	42	2.23%	1,806	96.06%	32	1.70%	1,880	100.0%
Kenchu	46	2.37%	1,839	94.94%	52	2.68%	1,937	100.0%
Kennan	8	1.40%	552	96.34%	13	2.27%	573	100.0%
Soso	9	1.73%	498	95.77%	13	2.50%	520	100.0%
Iwaki	34	2.92%	1,105	94.77%	27	2.32%	1,166	100.0%
Aizu	19	2.35%	769	95.29%	19	2.35%	807	100.0%
Minami-aizu	2	2.44%	80	97.56%	0	0.00%	82	100.0%
Outside	2	1.0.00/	97	05 100/	3	2 0 4 0/	102	100.00/
Fukushima		1.96%		95.10%		2.94%		100.0%
Total	162	2.29%	6,746	95.46%	159	2.25%	7,067	100.0%

Area	Incidence of anomalies	congenital	Valid response		
Kempoku	42	2.27%	1,848		
Kenchu	46	2.44%	1,885		
Kennan	8	1.43%	560		
Soso	9	1.78%	507		
Iwaki	34	2.99%	1,139		
Aizu	19	2.41%	788		
Minami-aizu	2	2.44%	82		
Outside	2	2.02%	00		
Fukushima			99		
Total	162	2.35%	6,908		

The denominator is the sum of valid response of YES and NO.

The figure differs from the survey for FY 2011 since the denominator included the number of invalid response.

Incidence of diseases

Participants of singleton pregnancy who answered YES to the question above (Multiple answers allowed)

	Cardiovascular	Polydactyly	Anomalies	Cleft	Gastro-	Rachischisis	Imperforate	Hydro-	Cataract	Microcephaly	Other
	malformation	and	of kidney	lip	intestinal		anus	cephalus			
Area		syndactyly	and	and	atresia*						
			urinary	plate							
			tract								
Kempoku	20	3	4	1	2	0	0	1	0	0	16
Kenchu	16	8	3	4	1	2	0	0	0	0	17
Kennan	3	2	0	2	0	0	0	0	0	0	2
Soso	2	2	2	0	2	1	1	0	0	0	2
Iwaki	14	4	1	5	1	0	0	0	1	0	8
Aizu	б	3	2	0	0	0	1	0	0	0	8
Minami-	2	0	0	0	0	0	0	0	0	0	0
aizu											
Outside	0	0	0	0	0	0	0	0	0	0	2
Fukushima											
Total	63	22	12	12	6	3	2	1	1	0	55
Incidence	0.91%	0.32%	0.17%	0.17%	0.09%	0.04%	0.03%	0.01%	0.01%	0.00%	0.80%

The denominator is the sum of valid response.

* Esophagus, duodenum, jejunum, ileum

Breakdown of OTHER (Multiple answers allowed)

				Congenital genu	
Clubfoot	7	Diaphragmatic hernia	1	recurvatum	1
Accessory auricles	7	Valgus foot	1	Inguinal hernia	1
Microtia	6	Blepharoptosis	1	Brachydactyly	1
Down syndrome	4	Hypothyroidism	1	Intestinal malrotation	1
		Osteogenesis			
Aural fistula	3	imperfecta	1	Scalp defect	1
				Nasolacrimal duct	
Hemangioma	2	Exomphalos	1	obstruction	1
Chromosomal				Malformation of the	
aberration	2	Short extremities	1	auricle	1
Hearing impairment	2	Trisomy 18	1	Methemoglobinemia	1
		Perforation of the		Defects in the upper	
Adrenal hyperplasia	2	digestive tract	1	extremities	1
		Congenital knee			
Nevus	2	dislocations	1	Split-hand and split-foot	1
		Congenital			
Finger defect	2	chylothorax	1		

Congenital anomaly: Yes/No

Area	Y	es	N	0	No res	ponse	To	tal
Kempoku	2	4.35%	42	91.30%	2	4.35%	46	100.0%
Kenchu	5	12.50%	34	85.00%	1	2.50%	40	100.0%
Kennan	0	0.00%	15	93.75%	1	6.25%	16	100.0%
Soso	0	0.00%	8	80.00%	2	20.00%	10	100.0%
Iwaki	2	14.29%	10	71.43%	2	14.29%	14	100.0%
Aizu	1	5.26%	17	89.47%	1	5.26%	19	100.0%
Minami-aizu	1	50.00%	1	50.00%	0	0.00%	2	100.0%
Outside	0	0.000/	0	0.000/	0	0.000/	0	0.00/
Fukushima	0	0.00%	0	0.00%	0	0.00%	0	0.0%
Total	11	7.48%	127	86.39%	9	6.12%	147	100.0%

This question is for 147 respondents with twin pregnancy of 12 weeks or after.

Area	Incidence anomalie	e of congenital s	Valid response
Kempoku	2	4.55%	44
Kenchu	5	12.82%	39
Kennan	0	0.00%	15
Soso	0	0.00%	8
Iwaki	2	16.67%	12
Aizu	1	5.56%	18
Minami-aizu	1	50.00%	2
Outside Fukushima	0	0.00%	0
Total	11	7.97%	138

The denominator is the sum of the valid response of YES and NO.

The figure differs from the survey for FY 2011 since the denominator included the number of invalid response.

Breakdown by disease

Participants of twin pregnancy	who answered	YES to the au	uestion above (Multiple answers	allowed)

Area	Α	В	С	D	Е	F	G	Н	Ι	J	Other
Kempoku	0	1	0	1	0	0	0	0	0	0	1
Kenchu	0	1	3	3	0	0	0	1	0	0	1
Kennan	0	0	0	0	0	0	0	0	0	0	0
Soso	0	0	0	0	0	0	0	0	0	0	0
Iwaki	0	0	0	2	0	0	0	0	0	0	0
Aizu	1	0	0	0	0	0	0	0	0	0	0
Minami- aizu	0	0	0	0	0	0	0	0	0	0	1
Outside Fukushima	0	0	0	0	0	0	0	0	0	0	0
Total	1	2	3	6	0	0	0	1	0	0	3

A: Rachischisis B: Cleft lip and plate C: Hydrocephalus D: Cardiovascular malformation

E: Cataract F: Anomalies of kidney and urinary tract G: Microcephaly H: Gastrointestinal atresia I: Imperforate anus J: Polydactyly and syndactyly

Breakdown of OTHER

Scalp defect	1
Accessory auricles	1
Asplenia syndrome	1

Q20. Do you sometimes lose confidence in child rearing?

Area	Ye	es	No)	Not s	sure	No resp	ponse To		al
Kempoku	367	19.3%	828	43.5%	697	36.6%	13	0.7%	1,905	100.0%
Kenchu	356	18.3%	832	42.7%	745	38.2%	16	0.8%	1,949	100.0%
Kennan	105	18.2%	278	48.1%	190	32.9%	5	0.9%	578	100.0%
Soso	92	17.6%	229	43.8%	199	38.0%	3	0.6%	523	100.0%
Iwaki	160	13.7%	585	50.1%	411	35.2%	12	1.0%	1,168	100.0%
Aizu	123	15.0%	380	46.5%	309	37.8%	6	0.7%	818	100.0%
Minami-aizu	18	22.0%	30	36.6%	33	40.2%	1	1.2%	82	100.0%
Outside	27	26.50	26	25.20	20	29.20/	0	0.00/	102	100.0%
Fukushima	27	26.5%	36	35.3%	39	38.2%	0	0.0%	102	
Total	1,248	17.5%	3,198	44.9%	2,623	36.8%	56	0.8%	7,125	100.0%

The questions below are for 7,125 respondents who gave birth.

Q21. How did you feed your baby before starting solids?

Area	Breast milk		Formula and breast milk		Formula		No response		Total	
Kempoku	750	39.4%	1,022	53.6%	127	6.7%	6	0.3%	1,905	100.0%
Kenchu	689	35.4%	1,079	55.4%	172	8.8%	9	0.5%	1,949	100.0%
Kennan	186	32.2%	313	54.2%	77	13.3%	2	0.3%	578	100.0%
Soso	186	35.6%	270	51.6%	67	12.8%	0	0.0%	523	100.0%
Iwaki	467	40.0%	601	51.5%	93	8.0%	7	0.6%	1,168	100.0%
Aizu	260	31.8%	488	59.7%	69	8.4%	1	0.1%	818	100.0%
Minami-aizu	27	32.9%	44	53.7%	10	12.2%	1	1.2%	82	100.0%
Outside	40	41.20/	50	54.00/	4	2.00/	0	0.00/	102	100.0%
Fukushima	42	41.2%	56	54.9%	4	3.9%	0	0.0%	102	
Total	2,607	36.6%	3,873	54.4%	619	8.7%	26	0.4%	7,125	100.0%

Q21-1. Why did you choose formula?

Area		ave enough st milk		l about the f radiation	Oth	er	Valid response
Kempoku	868	76.0%	17	1.5%	297	26.0%	1,142
Kenchu	979	78.8%	25	2.0%	280	22.5%	1,242
Kennan	307	80.4%	5	1.3%	80	20.9%	382
Soso	233	70.0%	10	3.0%	103	30.9%	333
Iwaki	522	76.2%	16	2.3%	169	24.7%	685
Aizu	437	78.7%	5	0.9%	127	22.9%	555
Minami-aizu	40	75.5%	0	0.0%	16	30.2%	53
Outside Fukushima	47	78.3%	0	0.0%	15	25.0%	60
Total	3,433	77.1%	78	1.8%	1,087	24.4%	4,452

The denominator is the sum of valid answers (i.e., Respondents who answered to the next question). Proportion does not total to 100% because of multiple answers.

The figure differs from the survey for FY 2011 since the denominator included multiple answers.

Area	Та	p	Bot	tled	Other	r	Valid response
Kempoku	487	42.6%	691	60.5%	31	2.7%	1,142
Kenchu	518	41.6%	780	62.7%	30	2.4%	1,244
Kennan	199	51.6%	208	53.9%	3	0.8%	386
Soso	93	28.0%	246	74.1%	6	1.8%	332
Iwaki	263	38.1%	454	65.8%	8	1.2%	690
Aizu	396	71.2%	186	33.5%	15	2.7%	556
Minami-aizu	43	79.6%	16	29.6%	0	0.0%	54
Outside	21	51 70/	20	50.00/	2	5.00/	(0
Fukushima	31	51.7%	30	50.0%	3	5.0%	60
Total	2,030	45.5%	2,611	58.5%	96	2.2%	4,464

Q21-2. What kind of water did or do you use for formula?

The denominator is the sum of valid answers (i.e., Respondents who answered to the question). Proportion does not total to 100% because of multiple answers.

Q22. Results of medical checkup of babies aged one month or more

When did you go for a medical checkup of the babies?

Number of participants was 7,048 (6,911 singleton and 137 twin pregnancies) who received medical checkup within 60 days after delivery.

Area	Participants	Mean age (Days)
Kempoku	1,882	35.1
Kenchu	1,934	33.1
Kennan	574	32.4
Soso	526	32.3
Iwaki	1,138	33.0
Aizu	812	32.6
Minami-aizu	80	32.8
Outside Fukushima	102	33.6
Total	7,048	33.5

Weight (Singleton pregnancy)

Mean (g) \pm SD (n)

Area	Т	Total	Ν	/lale	Fe	emale	No response
Kempoku	4,308.8 \pm	580.9 (1,836)	4,443.1 ±	600.3 (903)	$4,178.8 \pm$	530.2 (933)	3
Kenchu	4,216.3 ±	594.8 (1,897)	4,368.9 ±	602.8 (954)	4,061.8 ±	544.9 (943)	1
Kennan	4,210.7 ±	596.9 (559)	4,297.3 ±	586.9 (256)	4,137.6 ±	596.4 (303)	1
Soso	4,184.1 ±	537.0 (514)	4,288.6 ±	545.0 (267)	4,071.4 ±	506.6 (246)	2
Iwaki	4,199.1 ±	546.2 (1,122)	4,324.4 ±	571.2 (594)	$4,058.2 \pm$	479.4 (528)	3
Aizu	4,172.0 ±	548.1 (789)	4,284.5 ±	569.5 (401)	4,052.5 ±	498.5 (386)	4
Minami-aizu	4,234.3 ±	499.6 (78)	4,323.4 ±	508.0 (37)	4,153.9 ±	483.9 (41)	0
Outside	4,306.2 ±	544.0 (102)	4 477 2	5951(52)	4 101 1	420 ((40)	0
Fukushima			4,477.3 ±	585.1 (53)	4,121.1 ±	429.6 (49)	0
Total	4,231.7 ±	574.3 (6,897)	4,360.5 ±	588.8 (3,465)	4,101.4 ±	528.3 (3,429)	14

Weight (Twin pregnancy)

Mean	(g)	+SD	(n)
wiean	(g)	±SD	(11)

Area	То	tal	М	lale		Fema	le		No response
Kempoku	3,611.9 ±	589.8 (43)	$3,641.5 \pm$	675.3(23)	3,577.8 ±	488.6 (20)	0
Kenchu	3,030.2 ±	728.0 (36)	3,004.3 ±	638.5(22)	3,070.9 ±	874.8 (14)	0
Kennan	3,553.4 ±	442.6 (14)	3,831.2 ±	405.5(6)	3,345.1 ±	361.5 (8)	0
Soso	3,418.4 ±	796.3 (10)	3,217.2 ±	1,011.0(5)	3,619.6 ±	550.8 (5)	0
Iwaki	2,893.0 ±	813.6 (13)	2,882.5 ±	1,210.7(4)	2,897.7 ±	665.6 (9)	0
Aizu	3,477.5 ±	647.1 (19)	3,763.1 ±	462.1(13)	2,858.7 ±	568.8 (6)	0
Minami-aizu	3,742.5 ±	81.3 (2)	$3,742.5 \pm$	81.3(2)		(0)	0
Outside		(0)		,	0)			0)	0
Fukushima		(0)		(0)		(0)	0
Total	3,354.0 ±	704.4 (137)	3,424.8 ±	730.7 (75)	3,268.3 ±	667.1 (62)	0

Height (Singleton pregnancy)

 $Mean~(cm)\pm SD~(n)$

Area	Т	otal	Ν	Aale	Fe	emale	No response
Kempoku	$53.6 \pm$	2.2 (1,829)	54.1 ±	2.4 (899)	53.2 ±	2.0 (930)	10
Kenchu	53.4 ±	2.5 (1,892)	54.0 ±	2.4 (949)	52.8 ±	2.5 (943)	6
Kennan	$52.8 \pm$	2.6 (555)	53.2 ±	2.6 (255)	52.4 ±	2.5 (300)	5
Soso	53.2 ±	2.2 (514)	53.5 ±	2.1 (267)	52.8 ±	2.1 (246)	2
Iwaki	53.5 ±	2.1 (1,119)	53.9 ±	2.1 (594)	53.0 ±	2.0 (525)	6
Aizu	$53.2 \pm$	2.4 (788)	53.6 ±	2.5 (400)	$52.8 \pm$	2.2 (386)	5
Minami-aizu	53.5 ±	2.2 (78)	53.7 ±	1.8 (37)	53.2 ±	2.6 (41)	0
Outside	$53.8 \pm$	2.3 (102)	54.2	26(52)	52.0 -	2.0 (40)	0
Fukushima			54.2 ±	2.6 (53)	53.2 ±	2.0 (49)	0
Total	53.4 \pm	2.3 (6,877)	53.9 ±	2.4 (3,454)	52.9 ±	2.2 (3,420)	34

Height (Twin pregnancy)

Mean (cm) \pm SD (n)

Area	-	Fotal		1	Male		Fe	emale		No response
Kempoku	51.1 ±	2.5 (43)	51.5 ±	2.8 (23)	$50.7 \pm$	2.0 (20)	0
Kenchu	48.6 ±	3.8 (36)	$48.9~\pm$	3.7 (22)	48.3 ±	3.9 (14)	0
Kennan	$50.6 \pm$	1.9 (14)	$51.8 \pm$	1.4 (6)	49.7 ±	1.7 (8)	0
Soso	51.3 ±	3.3 (10)	$50.4 \pm$	4.5 (5)	$52.2 \pm$	1.4 (5)	0
Iwaki	48.0 ±	3.6 (13)	47.1 ±	5.3 (4)	$48.4 \pm$	2.9 (9)	0
Aizu	51.3 ±	2.7 (19)	$52.6 \pm$	1.4 (13)	48.5 ±	2.6 (6)	0
Minami-aizu	53.5 ±	0.0 (2)	53.5 ±	0.0 (2)		(0)	0
Outside		(0)		(0)		(0)	0
Fukushima		(0)		C	0)		(0)	0
Total	$50.2 \pm$	3.2 (137)	$50.7 \pm$	3.5 (75)	49.6 ±	2.9 (62)	0

Chest circumference (Singleton pregnancy)

Mean (cm) \pm SD (n)

Area]	Fotal	Ν	Male	F	No response	
Kempoku	$36.3 \pm$	2.0 (1,822)	36.7 ±	2.1 (895)	35.9 ±	1.9 (927)	17
Kenchu	$36.0 \pm$	2.1 (1,884)	36.4 ±	2.0 (943)	35.5 ±	2.0 (941)	14
Kennan	36.0 ±	2.2 (554)	36.3 ±	2.1 (254)	35.7 ±	2.3 (300)	6
Soso	$35.8 \pm$	1.9 (512)	36.1 ±	2.0 (266)	35.5 ±	1.8 (245)	4
Iwaki	36.0 ±	1.9 (1,114)	36.4 ±	2.0 (590)	35.6 ±	1.8 (524)	11
Aizu	36.0 ±	2.0 (782)	36.2 ±	2.1 (398)	35.7 ±	1.8 (382)	11
Minami-aizu	36.3 ±	1.9 (78)	36.4 ±	1.9 (37)	36.2 ±	1.9 (41)	0
Outside	36.3 ±	1.8 (101)	267	2.0.(25.0	1.4 (1
Fukushima			36.7 ±	2.0 (52)	35.8 ±	1.4 (49)	
Total	$36.0 \pm$	2.0 (6,847)	36.4 ±	2.0 (3,435)	35.7 ±	1.9 (3,409)	64

Chest circumference (Twin pregnancy)

Mean (cm) ±SD (n)

Area	r	Fotal		1	Male		F	emale		No response
Kempoku	33.9 ±	2.4 (43)	34.0 ±	2.7 (23)	33.8 ±	2.0 (20)	0
Kenchu	31.7 ±	2.9 (36)	31.5 ±	2.8 (22)	31.9 ±	3.2 (14)	0
Kennan	33.7 ±	1.7 (14)	34.4 ±	1.4 (6)	33.1 ±	1.8 (8)	0
Soso	33.0 ±	2.6 (10)	32.6 ±	3.7 (5)	33.5 ±	1.0 (5)	0
Iwaki	31.7 ±	3.7 (13)	31.3 ±	5.6 (4)	31.8 ±	3.0 (9)	0
Aizu	33.5 ±	2.3 (19)	34.4 ±	1.9 (13)	31.4 ±	1.7 (6)	0
Minami-aizu	$35.2 \pm$	0.3 (2)	35.2 ±	0.3 (2)		(0)	0
Outside		(0)		,	0)		(0)	0
Fukushima		(0)		(0)		(0)	0
Total	$33.0 \pm$	2.8 (137)	33.2 ±	3.0 (75)	32.7 ±	2.5 (62)	0

Head circumference (Singleton pregnancy)

 $Mean~(cm)\pm SD~(n)$

Area	Total	Male	Female	No response
Kempoku	36.9 ± 1.4 (1,827)	37.3 ± 1.4 (898)	36.5 ± 1.3 (929)	12
Kenchu	36.6 ± 1.5 (1,889)	37.0 ± 1.4 (947)	36.1 ± 1.4 (942)	9
Kennan	36.4 ± 1.6 (554)	36.7 ± 1.5 (254)	36.1 ± 1.6 (300)	6
Soso	36.3 ± 1.5 (513)	36.6 ± 1.4 (266)	35.9 ± 1.4 (246)	3
Iwaki	36.6 ± 1.5 (1,118)	36.9 ± 1.5 (592)	36.2 ± 1.3 (526)	7
Aizu	36.4 ± 1.5 (788)	36.8 ± 1.5 (401)	36.1 ± 1.3 (385)	5
Minami-aizu	36.6 ± 1.3 (78)	36.8 ± 1.1 (37)	36.4 ± 1.3 (41)	0
Outside	36.8 ± 1.3 (101)	$37.3 \pm 1.3(52)$	26.2 + 1.1 (-40)	1
Fukushima		37.3 ± 1.3 (52)	36.3 ± 1.1 (49)	1
Total	36.6 ± 1.5 (6,868)	37.0 ± 1.5 (3,447)	36.2 ± 1.4 (3,418)	43

Head circumference (Twin pregnancy)

Mean (cm) \pm SD (n)

Area	То	tal		1	Male		Fei	nale		No response
Kempoku	35.7 ±	1.3 (43)	35.8 ±	1.4 (23)	35.7 ±	1.2 (20)	0
Kenchu	$34.2 \pm$	2.1 (36)	34.3 ±	2.3 (22)	34.1 ±	1.7 (14)	0
Kennan	$35.6 \pm$	1.0 (14)	36.1 ±	0.6 (6)	35.1 ±	1.0 (8)	0
Soso	34.9 ±	1.9 (10)	34.6 ±	2.3 (5)	35.2 ±	1.6 (5)	0
Iwaki	33.9 ±	3.4 (13)	33.1 ±	5.3 (4)	34.2 ±	2.4 (9)	0
Aizu	35.3 ±	2.0 (19)	36.2 ±	1.4 (13)	33.3 ±	1.9 (6)	0
Minami-aizu	$36.8 \pm$	0.6 (2)	36.8 ±	0.6 (2)		(0)	0
Outside		(0)		(0)		(0)	0
Fukushima		(0)		(0)		(0)	0
Total	35.0 ±	2.0 (137)	$35.2 \pm$	2.2(75)	$34.8 \pm$	1.7(62)	0

Are you planning a pregnancy?

Area	Y	es	No)	No re	sponse	Тс	otal
Kempoku	1,013	52.5%	887	46.0%	28	1.5%	1,928	100.0%
Kenchu	1,049	53.2%	889	45.1%	33	1.7%	1,971	100.0%
Kennan	306	52.2%	269	45.9%	11	1.9%	586	100.0%
Soso	275	51.8%	245	46.1%	11	2.1%	531	100.0%
Iwaki	606	51.1%	563	47.4%	18	1.5%	1,187	100.0%
Aizu	454	55.0%	364	44.1%	8	1.0%	826	100.0%
Minami-aizu	41	49.4%	41	49.4%	1	1.2%	83	100.0%
Outside	1 7	65.7%	34	33.3%	1	1.0%	102	100.0%
Fukushima	67							
Total	3,811	52.8%	3,292	45.6%	111	1.5%	7,214	100.0%

Request for services for next pregnancy or childbirth

Area	Improven	nent of	Information of	or services	Improven	nent of	Information o	f radiation	Ot	ther	Valid response
	preschool,	care for	about child re	earing and	maternity or	maternal	and healt	h risk			
	longer hours,	or day care	re pediatric medicine leave								
	for sick cl	nildren									
Kempoku	709	72.6%	636	65.2%	581	59.5%	395	40.5%	73	7.5%	976
Kenchu	725	72.4%	634	63.3%	589	58.8%	440	44.0%	73	7.3%	1,001
Kennan	197	66.6%	205	69.3%	159	53.7%	112	37.8%	10	3.4%	296
Soso	161	61.9%	196	75.4%	116	44.6%	120	46.2%	23	8.8%	260
Iwaki	412	70.2%	407	69.3%	328	55.9%	259	44.1%	34	5.8%	587
Aizu	305	70.6%	286	66.2%	260	60.2%	145	33.6%	36	8.3%	432
Minami-aizu	18	47.4%	27	71.1%	16	42.1%	13	34.2%	3	7.9%	38
Outside	50	75.8%	45	68.2%	37	56.1%	24	36.4%	7	10.6%	66
Fukushima											
Total	2,577	70.5%	2,436	66.6%	2,086	57.1%	1,508	41.2%	259	7.1%	3,656

The denominator is the sum of valid responses (i.e., Respondents who answered the question)

Proportion does not total to 100% because of multiple answers.

Reasons for not planning a pregnancy

	Do not	t have a	Busy raising	children	Age o	r health	Financi	al reason	Have no	o one to	Have n	o daycare
Area	desire	e for it			related	d reason			support m	e in child	se	rvice
									rear	ing		
Kempoku	459	52.0%	320	36.2%	344	39.0%	207	23.4%	97	11.0%	55	6.2%
Kenchu	489	55.3%	349	39.5%	305	34.5%	229	25.9%	103	11.7%	72	8.1%
Kennan	164	62.1%	91	34.5%	93	35.2%	62	23.5%	27	10.2%	17	6.4%
Soso	124	51.2%	91	37.6%	92	38.0%	44	18.2%	23	9.5%	19	7.9%
Iwaki	300	54.1%	194	35.0%	189	34.1%	135	24.3%	52	9.4%	25	4.5%
Aizu	202	56.1%	130	36.1%	124	34.4%	78	21.7%	32	8.9%	27	7.5%
Minami-aizu	18	43.9%	11	26.8%	15	36.6%	13	31.7%	4	9.8%	2	4.9%
Outside	18	52.9%	9	26.5%	11	32.4%	4	11.8%	5	14.7%	2	5.9%
Fukushima												
Total	1,774	54.4%	1,195	36.6%	1,173	35.9%	772	23.7%	343	10.5%	219	6.7%

Area	Worried about th radiatio		Life as a	in evacuee	Family l	iving apart		Other	Valid response
Kempoku	39	4.4%	5	0.6%	14	1.6%	20	2.3%	883
Kenchu	64	7.2%	1	0.1%	15	1.7%	19	2.1%	884
Kennan	22	8.3%	0	0.0%	5	1.9%	7	2.7%	264
Soso	19	7.9%	22	9.1%	10	4.1%	9	3.7%	242
Iwaki	28	5.0%	4	0.7%	8	1.4%	17	3.1%	555
Aizu	8	2.2%	0	0.0%	4	1.1%	8	2.2%	360
Minami-aizu	1	2.4%	0	0.0%	0	0.0%	1	2.4%	41
Outside	2	5.9%	0	0.0%	3	8.8%	0	0.0%	34
Fukushima									
Total	183	5.6%	32	1.0%	59	1.8%	81	2.5%	3,263

The denominator is the sum of valid responses (i.e., Respondents who answered the question) Proportion does not total to 100% because of multiple answers.

3. Free-answer questions

The participants are 867 of 7,214 valid responses who answered the free-answer question.

Opinion about the survey	146	16.8%
Other	118	13.6%
Effects of radiation on fetus and child	112	12.9%
Physical problems**	97	11.2%
Consultation of child rearing**	92	10.6%
Request for information on radiation and research results	80	9.2%
Request for adequate medical service and physical care	66	7.6%
Mental illness	64	7.4%
Effects of radiation on food or baby food	61	7.0%
Anxiety over the effects of radiation on water	53	6.1%
Request for adequate child support services	47	5.4%
Anxiety about radiation exposure of children when outside	43	5.0%
Anxiety and dissatisfaction about inadequate medical services	43	5.0%
Positive comments about this survey	35	4.0%
Anxiety and dissatisfaction about reliability or lack of information	28	3.2%
Request for the overall examination	28	3.2%
Request for decontamination and provision of safe playgrounds	23	2.7%
Relationships***	22	2.5%
Issues related to the current pregnancy outcome	21	2.4%
Effects of radiation on breast milk or infant formula	20	2.3%
Anxiety and dissatisfaction about evacuation and family living apart	19	2.2%
Regarding financial anxiety and burden	19	2.2%
Request for Thyroid Ultrasound Examination	13	1.5%
Request for financial support	12	1.4%
Request to measure internal radiation exposure (by whole body	9	1.0%
counter, etc.)		
Request for adequate mental health care services	9	1.0%
Anxiety about the effects of radiation on the next pregnancy	8	0.9%
Request for medical check-up and examinations	8	0.9%
Request for test on breast milk	6	0.7%
Request for Fukushima Health Management Survey	4	0.5%
Regarding external radiation exposure (provision of glass badges and	4	0.5%
dosimeters)		
Request for support for supplies and gasoline	3	0.3%
Request for evacuation support	2	0.2%

The denominator is the sum of 867 of respondents. Multiple answers allowed

** Issue not mentioned in FY 2011survey

*** Issue not mentioned in FY 2012survey

4. Support

The number of those who required support in FY 2013 is 1,101 of 7,260 respondents (15.2%).

The results of responses received from 24 December 2013 through 26 December 2014

Area	Participants	Resp	onse	Number of respondents who required support			
Kempoku	3,637	1,936	53.2%	288	14.9%		
Kenchu	4,453	1,982	44.5%	297	15.0%		
Kennan	1,213	588	48.5%	91	15.5%		
Soso	1,178	535	45.4%	89	16.6%		
Iwaki	2,649	1,195	45.1%	173	14.5%		
Aizu	1,816	833	45.9%	123	14.8%		
Minami-aizu	162	83	51.2%	17	20.5%		
Outside Fukushima	110	108	98.2%	23	21.3%		
Total	15,218	7,260	47.7%	1,101	15.2%		

Number of respondents required support

The denominator of response is the number of participants.

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

D 1			1
Respondents	requiring	support	by area
respondence	requing	pport	oj men

Area	Support requir the catego depres	ories of		ed based on the er questions	Number of respondents who required support			
Kempoku	202	70.1%	86	29.9%	288	100.0%		
Kenchu	190	64.0%	107	36.0%	297	100.0%		
Kennan	63	69.2%	28	30.8%	91	100.0%		
Soso	67	75.3%	22	24.7%	89	100.0%		
Iwaki	115	66.5%	58	33.5%	173	100.0%		
Aizu	83	67.5%	40	32.5%	123	100.0%		
Minami-aizu	13	76.5%	4	23.5%	17	100.0%		
Outside	11	47.8%	12	52.2%	23	100.0%		
Fukushima								
Total	744	67.6%	357	32.4%	1,101	100.0%		

Content of counseling by area

Area	Health	of mothers	Ch	ildrearing	Health o	f children	Fan	nily life	Effect	s of radiation	Evacuation		C	Other	Valid
Alea															response
Kempoku	133	46.2%	133	46.2%	56	19.4%	60	20.8%	41	14.2%	6	2.1%	89	30.9%	288
Kenchu	107	36.0%	105	35.4%	63	21.2%	67	22.6%	62	20.9%	1	0.3%	102	34.3%	297
Kennan	48	52.7%	33	36.3%	18	19.8%	24	26.4%	19	20.9%	2	2.2%	20	22.0%	91
Soso	41	46.1%	37	41.6%	19	21.3%	17	19.1%	14	15.7%	11	12.4%	26	29.2%	89
Iwaki	71	41.0%	53	30.6%	36	20.8%	25	14.5%	32	18.5%	3	1.7%	69	39.9%	173
Aizu	51	41.5%	43	35.0%	26	21.1%	20	16.3%	13	10.6%	0	0.0%	46	37.4%	123
Minami-aizu	9	52.9%	8	47.1%	2	11.8%	2	11.8%	3	17.6%	0	0.0%	5	29.4%	17
Outside	8	34.8%	14	60.9%	4	17.4%	3	13.0%	4	17.4%	0	0.0%	5	21.7%	23
Fukushima															
Total	468	42.5%	426	38.7%	224	20.3%	218	19.8%	188	17.1%	23	2.1%	362	32.9%	1,101

The denominator is the sum of valid response.

Proportion does not total to 100% because of multiple answers.

Reason for completing support

Area		A	F	3		С		D]	Е	F	1	C	ŕ
Kempoku	194	67.4%	112	38.9%	71	24.7%	31	10.8%	26	9.0%	1	0.3%	0	0.0%
Kenchu	170	57.2%	132	44.4%	72	24.2%	39	13.1%	31	10.4%	0	0.0%	0	0.0%
Kennan	59	64.8%	42	46.2%	23	25.3%	14	15.4%	7	7.7%	2	2.2%	0	0.0%
Soso	58	65.2%	39	43.8%	28	31.5%	13	14.6%	11	12.4%	1	1.1%	0	0.0%
Iwaki	100	57.8%	76	43.9%	34	19.7%	16	9.2%	13	7.5%	2	1.2%	1	0.6%
Aizu	76	61.8%	49	39.8%	31	25.2%	9	7.3%	10	8.1%	0	0.0%	0	0.0%
Minami- aizu	8	47.1%	10	58.8%	7	41.2%	2	11.8%	5	29.4%	0	0.0%	0	0.0%
Outside Fukushima	14	60.9%	13	56.5%	5	21.7%	4	17.4%	1	4.3%	0	0.0%	0	0.0%
Total	679	61.7%	473	43.0%	271	24.6%	128	11.6%	104	9.4%	6	0.5%	1	0.1%

Area]	Н	Ι		Ab	Absent Phone number not shown Denied Support Other				ner	Number of respondents required support		
Kempoku	0	0.0%	0	0.0%	49	17.0%	0	0.0%	0	0.0%	1	0.3%	288
Kenchu	0	0.0%	0	0.0%	59	19.9%	5	1.7%	1	0.3%	0	0.0%	297
Kennan	1	1.1%	0	0.0%	12	13.2%	2	2.2%	0	0.0%	0	0.0%	91
Soso	0	0.0%	0	0.0%	15	16.9%	0	0.0%	0	0.0%	0	0.0%	89
Iwaki	0	0.0%	0	0.0%	39	22.5%	2	1.2%	2	1.2%	0	0.0%	173
Aizu	0	0.0%	0	0.0%	30	24.4%	3	2.4%	0	0.0%	0	0.0%	123
Minami- aizu	0	0.0%	0	0.0%	2	11.8%	0	0.0%	0	0.0%	1	5.9%	17
Outside Fukushima	0	0.0%	0	0.0%	3	13.0%	0	0.0%	0	0.0%	0	0.0%	23
Total	1	0.1%	0	0.0%	209	19.0%	12	1.1%	3	0.3%	2	0.2%	1,101

The denominator is the sum of valid response. Proportion does not total to 100% because of multiple answers.

A: We listened and dealt with the issues of respondents.

B: Respondents were given information about counseling services

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

D: We answered to respondents' questions.

E: Respondents were recommended to receive medical treatment.

F: Respondents were referred to clinical psychologists.

G: Respondents were connected to municipal governments.

H: Respondents were connected to a radiation consultation office.

I: Specialists answered to the respondents' questions.