Report on the Results of the FY2018 Pregnancy and Birth Survey (PBS)

Outline

(1) Purpose

To properly ascertain the mental and physical health conditions of pregnant women intending to give birth and raise children in Fukushima, alleviate their worries and provide them with necessary care, as well as to ensure a safe and secure life and further enhance reproductive care and perinatal care in Fukushima

(2) Coverage

12,838 women falling under the following:

- (i) Women who obtained a maternity handbook from municipalities in Fukushima between August 1, 2017 and July 31, 2018
- (ii) Women who obtained a maternity handbook somewhere else during the aforementioned period but received prenatal checkups and gave birth in Fukushima

[Reference]

| Survey year | Survey population |
|-------------|-------------------|
| FY2011 | 16,001 |
| FY2012 | 14,516 |
| FY2013 | 15,218 |
| FY2014 | 15,125 |
| FY2015 | 14,572 |
| FY2016 | 14,154 |
| FY2017 | 13,552 |
| FY2018 | 12,838 |

(3) Survey method

A Survey sheet: self-administered questionnaire

B Dates of sending survey sheets:

[Eligible persons (i)] Nov. 1, 2018, Jan. 11, 2019, and Mar. 8, 2019

[Eligible persons (ii)] As required with cooperation of obstetrics medical institutions in **Fukushima**

FY2017 survey onward: At the time of asking for information regarding eligible persons of the

survey, the Radiation Medical Science Center (RMSC) requested all municipalities to exclude mothers who had a miscarriage or a stillbirth and mothers for whom it could not be confirmed whether their newborns were alive or not while requesting them to report only the number for

FY2016 survey: When having received any information from municipalities regarding

> mothers who had a miscarriage or a stillbirth or mothers for whom it could not be confirmed whether their newborns were alive or not, the RMSC excluded those mothers from the eligible persons of the survey and

distributed survey sheets only to the others.

Until FY2015 survey: The RMSC distributed survey sheets to all pregnant women in the

prefecture.

C Response methods: by post or online

* Online responses were accepted from November 1, 2018, to April 30, 2019.

^{*} For eligible persons (i), survey sheets were distributed separately on three occasions depending on their estimated delivery dates based on data of pregnancy notification obtained from 59 municipalities in Fukushima.

(4) Survey items

Major survey items are as follows.

- A Pregnant women's mental health conditions
- B Present living conditions (circumstances of life as a refugee or forced separation from family members)
- C Situation during delivery and pregnant women's physical health conditions
- D Confidence in raising children
- E Attitude toward the next pregnancy

(5) Data tabulation period

Responses returned from November 1, 2018, to December 20, 2019

2 Summary of Survey Results

Survey results are as shown below in "5 Tabulated Results of the FY2018 Pregnancy and Birth Survey (1), (2), and (3)." Note that the total may not match the sum of valid responses due to missing values in each question item.

(1) Number of responses and response rate (See Table 1-1.)

For the FY2018 Pregnancy and Birth Survey (PBS), the number of respondents (response rate) was 6,649 (51.8%). The number of valid responses that were tabulated was 6,580, while there were 69 invalid responses.

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| Survey year | Number of responses (response rate) | |
|-------------|-------------------------------------|--|
| | (response rate) | |
| FY2011 | 9,316 (58.2%) | |
| FY2012 | 7,181 (49.5%) | |
| FY2013 | 7,260 (47.7%) | |
| FY2014 | 7,132 (47.2%) | |
| FY2015 | 7,031 (48.3%) | |
| FY2016 | 7,326 (51.8%) | |
| FY2017 | 6,449 (47.6%) | |
| FY2018 | 6,649 (51.8%) | |

(2) Number of respondents by area of residence (See Table 1-1 and Table 1-2.) The number of respondents (response rate) to the FY2018 PBS by area of residence was as follows: 1,702 (56.5%) in the Kenpoku Region; 2,006 (51.1%) in the Kenchu Region; 504 (50.0%) in the Kennan Region; 424 (42.3%) in the Soso Region; 1,034 (49.1%) in the Iwaki Region; 815 (51.6%) in the Aizu Region; 56 (57.7%) in the Minamiaizu Region; and 108 from outside Fukushima. Respondents aged 30 to 34 were the largest in number, followed by those aged 25 to 29 and those aged 35 to 39.

(3) Results of responses

- A Pregnancy outcome (See Table 9-2, Table 13-3, Table 14-8, and Tables 14-21 to 14-24.)
 - A) The percentages of miscarriage and abortion that had not been ascertained at the time of information provision by municipalities or those that occurred thereafter were 0.43% and 0.02%, respectively. (Q.9)

[Reference]

|] | Survey year | Miscarriage | Abortion | Reference (covered population to send survey sheets) |
|---|-------------|-------------|----------|---|
| | FY2011 | 0.77% | 0.06% | |
| | FY2012 | 0.81% | 0.08% | The Radiation Medical Science Center |
| | FY2013 | 0.78% | 0.04% | (RMSC) distributed survey sheets to all |
| | FY2014 | 0.62% | 0.07% | pregnant women in the prefecture. |
| | FY2015 | 0.81% | 0.16% | |
| | FY2016 | 0.85% | 0.16% | When having received any information from municipalities regarding mothers who had a miscarriage or a stillbirth or mothers for whom it could not be confirmed whether their newborns were alive or not, the RMSC excluded those mothers from the survey population and distributed survey sheets only to the others. |
| | FY2017 | 0.34% | 0.06% | At the time of asking for information |
| | FY2018 | 0.43% | 0.02% | regarding eligible persons of the survey, the RMSC requested all municipalities to exclude mothers who had a miscarriage or a stillbirth and mothers for whom it could not be confirmed whether their newborns were alive or not while requesting them to report only the number for such cases. |

^{*} Since FY2017, eligible mothers to whom survey sheets are sent have been changed. Accordingly, data for FY2017 onward cannot be compared with those for FY2016 or before.

B) The percentage of preterm births was 5.3%. (Q.13)

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| Survey year | Preterm births | |
|-------------|----------------|--|
| FY2011 | 4.8% | |
| FY2012 | 5.7% | |
| FY2013 | 5.4% | |
| FY2014 | 5.4% | |
| FY2015 | 5.8% | |
| FY2016 | 5.4% | |
| FY2017 | 5.4% | |
| FY2018 | 5.3% | |

Reference value: According to the 2017 Vital Statistics, the percentage of preterm births among newborns nationwide was 5.7%.

C) Among newborns, the percentage of low birth-weight babies (less than 2,500 g) was 9.2%. (Q.14)

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| e] | Survey year | Low birth-weight babies |
|----|-------------|-------------------------|
| | FY2011 | 8.9% |
| | FY2012 | 9.6% |
| | FY2013 | 9.9% |
| | FY2014 | 10.1% |
| | FY2015 | 9.8% |
| | FY2016 | 9.5% |
| | FY2017 | 9.4% |
| | FY2018 | 9.2% |

Reference value: According to the 2017 Vital Statistics, the percentage of low birth-weight babies among newborns nationwide was 9.4%.

D) The incidence of congenital anomalies (single births) was 2.19%. Cardiovascular deformity was observed most frequently (0.92%). (Q.14)

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| Survey year | Congenital anomalies (single births) | Cardiovascular deformity |
|-------------|--------------------------------------|-----------------------------|
| FY2011 | 2.85% | 0.89% |
| FY2012 | 2.39% | 0.79% |
| FY2013 | 2.35% | 0.91% |
| FY2014 | 2.30% | 0.74% |
| FY2015 | 2.24% | 0.75% |
| FY2016 | 2.55% | 0.91% |
| FY2017 | 2.38% | 0.62% |
| FY2018 | 2.19% | 0.92% |

Reference value: It is generally said that the incidence of congenital anomalies is 3% to 5%, and the spontaneous incidence of cardiovascular deformity is around 1%.

B Maternal mental health (See Tables 4-1 to 4-3.)

The percentage of mothers considered as having depressive tendencies was 18.4%.

As a reference, according to "Sukoyaka Oyako (Healthy Parents and Children) 21" (a national campaign to promote the improvement of health standards of mothers and children), the percentage of postnatal depression evaluated using the Edinburgh Postnatal Depression Scale was 9.0% in 2013 (the value was reviewed under the second "Sukoyaka Oyako 21," and the percentage of postnatal depression in 2013 was revised to 8.4%).

Based on the results of this survey, the percentage of postnatal depression using the Edinburgh Postnatal Depression Scale is estimated to be 10.2% (reference materials used for the calculation: Mishina H, et al. Pediatr Int. 2009; 51: 48.)

[Reference]

| ;] | Survey year | Mothers with depressive |
|----|-------------|-------------------------|
| | | tendencies |
| | FY2011 | 27.1% |
| | FY2012 | 25.5% |
| | FY2013 | 24.5% |
| | FY2014 | 23.4% |
| | FY2015 | 22.0% |
| | FY2016 | 21.1% |
| | FY2017 | 20.7% |
| | FY2018 | 18.4% |

C Care for pregnancy and delivery (See Table 3.)

Regarding the question "Do you think that you received care sufficiently for the latest pregnancy and delivery as a whole?", the percentage of mothers who responded "Do not think so" or "Do not think so at all" was 1.7% in total. (Q.3)

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| :] | Survey year | Mothers who responded "Do not think so' or "Do not think so at all" | | | | | | |
| | FY2011 | The relevant question was not included. | | | | | | |
| | FY2012 | 3.5% | | | | | | |
| | FY2013 | 2.3% | | | | | | |
| | FY2014 | 2.7% | | | | | | |
| | FY2015 | 2.4% | | | | | | |
| | FY2016 | 2.1% | | | | | | |
| | FY2017 | 1.7% | | | | | | |
| | FY2018 | 1.7% | | | | | | |

D Status of family life and child-rearing (See Table 5-1 and Table 15.)

• The percentage of mothers who responded that they are living as refugees (both in temporary housing and other types of housing) has been decreasing and was 1.8% throughout the prefecture. (Q.5)

[Reference]

| Survey year | Mothers living as a refugee at present (both in temporary housing and other types of housing) |
|-------------|---|
| FY2011 | The relevant question was not included. |
| FY2012 | 7.7% |
| FY2013 | 5.5% |
| FY2014 | 4.9% |
| FY2015 | 3.8% |
| FY2016 | 3.4% |
| FY2017 | 2.3% |
| FY2018 | 1.8% |

The percentage of mothers who responded that they sometimes feel a lack of confidence concerning child rearing was 17.7%. (Q.15)

[Reference]

| Survey year | Mothers who responded that they sometimes feel a lack of confidence concerning child-rearing |
|-------------|--|
| FY2011 | The relevant question was not included. |
| FY2012 | 15.4% |
| FY2013 | 17.5% |
| FY2014 | 16.6% |
| FY2015 | 17.7% |
| FY2016 | 16.6% |
| FY2017 | 18.1% |
| FY2018 | 17.7% |

Reference value: According to the FY2013 MHLW-subsidized research, "Final Evaluation and Problem Analysis of 'Sukoyaka Oyako 21' and Study on the Promotion of a Next National Health Campaign" (YAMAGATA Zentaro Team), the percentage of mothers feeling a lack of confidence concerning child rearing as ascertained through medical checkups for children aged 3-4 months was 19.3%.

E Intention and request concerning next pregnancy and delivery (See Tables 17-1 to 17-3.)

- The percentage of mothers wishing to have another child was 52.2%.
- Services most requested by mothers wishing to have another child were "Enhancement of childcare centers and childcare services, such as extended day-care and day-care for sick children" (78.4%) and "Enhancement of maternal leave and childcare leave systems" (67.9%).
- · As reasons for not wishing to have another child, the percentage of mothers who responded "Do not wish" was the highest at 54.2%, followed by those who responded "Due to age or health reasons" (37.0%). The percentage of mothers who cited "Anxieties about radiation effects" was 0.5%.

[Reference]

| Survey year | Mothers wishing to have another child | Mothers who cited "Anxieties about radiation effects" as a reason for not wishing to have another child |
|-------------|---|--|
| FY2011 | The relevant question was not included. | The relevant question was not included. |
| FY2012 | 52.9% | 14.8% |
| FY2013 | 52.8% | 5.6% |
| FY2014 | 57.1% | 3.9% |
| FY2015 | 53.3% | 1.6% |
| FY2016 | 54.6% | 1.2% |
| FY2017 | 52.4% | 0.8% |
| FY2018 | 52.2% | 0.5% |

Reference value: According to the 14th Basic Survey on Childbirth Trends (2010), the percentage of couples married for less than 10 years who intend to have a child is 58% (or 51% among couples already with a child).

F Content of free comments (See Table 18.)

- The number (percentage) of mothers who entered free comments was 881 (13.4%).
- · Most frequently entered comments were "Requests for enhancing child-rearing support services" (25.1%), followed by "Childcare consultations" (23.7%).
- The percentage of comments regarding "Anxieties about radiation effects on fetus/child" was 1.8%.

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| Survey year | Number (percentage) of mothers who entered free comments | Comments regarding "Anxieties about radiation effects on fetus/child" |
|-------------|--|---|
| FY2011 | 3,722 (42.2%) | 29.6% |
| FY2012 | 1,481 (20.7%) | 26.4% |
| FY2013 | 867 (12.0%) | 12.9% |
| FY2014 | 745 (10.5%) | 9.5% |
| FY2015 | 1,101 (15.7%) | 5.2% |
| FY2016 | 965 (13.3%) | 6.1% |
| FY2017 | 799 (12.4%) | 4.8% |
| FY2018 | 881 (13.4%) | 1.8% |

(4) Conclusion

A Pregnancy outcome

The percentages of preterm births and low birth-weight babies were almost the same as those in surveys up to FY2017. The incidence of congenital anomalies (single births) also remained almost the same and was not high in comparison with the relevant incidence in general.

B Maternal mental health

The percentage of mothers considered as having depressive tendencies has been decreasing year by year (the percentage of suspected postnatal depression in FY2013 across Japan evaluated using the Edinburgh Postnatal Depression Scale was 8.4%, while the estimated percentage of suspected postnatal depression in FY2018 based on the results of this survey was 10.2%).

C Content of free comments

"Requests for enhancing child-rearing support services" were most frequently entered as free comments, followed by "Childcare consultations." Comments regarding "Anxieties about radiation effects on fetus/child," which were the largest in number in FY2011 and FY2012, have been decreasing.

3 Outline of Post-Survey Support

(1) Purpose

For mothers considered as needing consultations and/or support, out of the respondents to the FY2018 PBS, midwives, and public health nurses provided consultations and/or support by phone or by email to alleviate their worries.

(2) Mothers in need of support (See Table 19.)

Out of the respondents to the FY2018 PBS (those who responded to the survey between November 1, 2018, and December 20, 2019), mothers who were considered as needing consultations and/or support by phone ("mothers in need of support")

(3) Criteria for selecting eligible mothers (See Table 20.)

Respondents falling under either A or B below

- A Mothers falling under two survey items relating to depression (Q.4-1 and Q.4-2)
- B Mothers considered to need support based on the content of free comments

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

(4) Method

Consultations and/or support by phone or by email

4 Summary of Results of Post-Survey Support

The results of the provided support are as shown below in "5 Tabulated Results of the FY2018 Pregnancy and Birth Survey (4) Status of post-survey support."

(1) Number of mothers in need of support (See Table 19.)

- Out of 6,649 respondents who made responses between November 1, 2018, and December 20, 2019, the number of mothers considered as needing consultations and/or support by phone ("mothers in need of support") was 711 and the percentage of mothers in need of support was 10.7%.
- As the breakdown, the percentage of mothers in need of support identified based on their responses to questions regarding depressive tendencies was 6.4%, while that of mothers in need of support identified based on the content of their free comments was 4.3%. Since FY2012, the coverage of mothers in need of support identified based on the content of their free comments has been expanded so that support would be provided to a larger number of mothers.

[Reference]

| Survey year | Number of respondents | The number (percentage) of mothers in need of support was identified based on their responses to questions regarding depressive tendencies | Number (percentage) of mothers in need of support identified based on the content of their free comments | Total number (percentage) of mothers in need of support |
|----------------|-----------------------|--|--|--|
| FY2011 | 9,316 | 1,224 (13.1%) | 177 (1.9%) | 1,401 (15.0%) |
| FY2012 | 7,181 | 751 (10.5%) | 353 (4.9%) | 1,104 (15.4%) |
| FY2013 | 7,260 | 744 (10.2%) | 357 (4.9%) | 1,101 (15.2%) |
| FY2014 | 7,132 | 645 (9.0%) | 185 (2.6%) | 830 (11.6%) |
| FY2015 | 7,031 | 549 (7.8%) | 364 (5.2%) | 913 (13.0%) |
| FY2016 | 7,326 | 573 (7.8%) | 378 (5.2%) | 951 (13.0%) |
| FY2017 | 6,449 | 449 (7.0%) | 350 (5.4%) | 799 (12.4%) |
| FY2018 | 6,649 | 424 (6.4%) | 287 (4.3%) | 711 (10.7%) |

^{*} Mothers in need of support identified both based on their responses to questions regarding depressive tendencies and on their free comments are included in the category of those identified based on their responses to questions regarding depressive tendencies.

(2) Topics of consultations (See Table 21.)

- The most frequent topic of consultations of mothers in need of support was "Mothers' mental and/or physical health" (53.2%), followed by "Matters concerning child rearing (daily life)" (41.4%), and "Children's mental and/or physical health" (16.0%) (specifically, matters concerning child rearing include the amount of breastfeeding, baby food, growth and development, interactions with children, etc.).
- · Consultations on "Anxieties about radiation and its effects" accounted for 3.4%.

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|-------------|----------------|--|---|---|--|
| [Reference] | | | Topics | | Consultations |
| | Survey year | 1st | 2nd | 3rd | on anxieties about radiation and |
| | | | | | its effects |
| | FY2011 | Anxieties about radiation and its effects 29.2% | Mothers' mental and/or physical health 20.2% | Matters concerning child rearing (daily life) 14.0% | 29.2% |
| | FY2012 | 33.4% | Matters concerning child rearing (daily life) 26.7% | effects 23.7% | 23.7% |
| | FY2013 | 42.5% | Matters concerning child rearing (daily life) 38.7% | Children's mental and/or physical health 20.3% | 17.1% |
| | FY2014 | Mothers' mental and/or physical health 49.5% | Matters concerning child rearing (daily life) 36.1% | 20.5% | 9.5% |
| | FY2015 | 53.1% | Matters concerning child rearing (daily life) 40.9% | Matters concerning family life 21.8% | 5.9% |
| | FY2016 | 59.8% | Matters concerning child rearing (daily life) 43.4% | Matters concerning family life 19.5% | 5.0% |
| | FY2017 | 55.6% | Matters concerning child rearing (daily life) 51.8% | 16.4% | 4.1% |
| | FY2018 | Mothers' mental and/or physical health 53.2% | Matters concerning child rearing (daily life) 41.4% | Children's mental and/or physical health 16.0% | 3.4% |

(3) Reasons for ending support (See Table 22.)

Support was ended through "Carefully listening to participants' statements (by sorting out problems through carefully listening to participants' statements)" for 515 mothers (72.4%), through "Confirming consultation availability" for 151 mothers (21.2%), and through "Providing information and introducing administrative service offices" for 140 mothers (19.7%). (Multiple responses are allowed. The denominator for calculating percentages is the number of mothers in need of support.).

(4) Conclusion

- The percentage of support provided based on responses to questions regarding depressive tendencies has been decreasing since FY2011 up to FY2018.
- The most frequent topic of consultations has been "Mothers' mental and/or physical health" from FY2012 up to FY2018. The percentage of consultations on "Anxieties about radiation and its effects" has been decreasing year by year.

5 Tabulated Results of the FY2018 Pregnancy and Birth Survey

"Outside Fukushima" refers to respondents to whom survey sheets were distributed with the cooperation of obstetrics medical institutions in Fukushima (respondents who returned to their parents' home in Fukushima to give birth to their babies).

(1) Number of survey sheets distributed and status of responses

[Table 1-1] Number of survey sheets distributed and status of responses

| Region | Number of survey | sheets distributed | Number of respo | | Of which, online responses (response rate) | | |
|----------------------|------------------|--------------------|-----------------|--------|--|-------|--|
| Kenpoku | 3,015 | 23.5% | 1,702 | 56.5% | 320 | 18.8% | |
| Kenchu | 3,923 | 30.6% | 2,006 | 51.1% | 391 | 19.5% | |
| Kennan | 1,008 | 7.9% | 504 | 50.0% | 83 | 16.5% | |
| Soso | 1,003 | 7.8% | 424 | 42.3% | 63 | 14.9% | |
| Iwaki | 2,105 | 16.4% | 1,034 | 49.1% | 192 | 18.6% | |
| Aizu | 1,579 | 12.3% | 815 | 51.6% | 148 | 18.2% | |
| Minamiaizu | 97 | 0.8% | 56 | 57.7% | 7 | 12.5% | |
| Outside Fukushima | 108 | 0.8% | 108 | 100.0% | 16 | 14.8% | |
| Total | 12,838 | 100.0% | 6,649 | 51.8% | 1,220 | 18.3% | |

[Table 1-2] Respondents' ages (as of the time of the pregnancy outcome (live birth, stillbirth, etc.))

Data for 6,580 respondents after excluding 69 respondents who made invalid responses from the total (6,649 respondents) were tabulated.

Each item contains no responses and invalid responses. As percentages are rounded, the sum of percentages

for each item may not become 100%.

| Region | | ed 15- 19 | Aged | d 20-24 | Aged | 25-29 | Aged | 30-34 | Aged | l 35-39 | Aged | l 40-44 | Ageo | l 45-49 | inv | o or alid nses ¹⁾ | Total |
|----------------------|----|--------------|---------|-----------|-------|-------|-------|-------|-------|---------|------|---------|------|---------|-----|------------------------------------|-------|
| Kenpoku | 7 | 0.4 % | 11 5 | 6.8% | 475 | 28.1% | 648 | 38.3% | 350 | 20.7% | 70 | 4.1% | 8 | 0.5% | 18 | 1.1% | 1,691 |
| Kenchu | 11 | 0.6 % | 16 2 | 8.1% | 533 | 26.8% | 745 | 37.5% | 421 | 21.2% | 90 | 4.5% | 1 | 0.1% | 25 | 1.3% | 1,988 |
| Kennan | 3 | 0.6 % | 50 | 10.1 % | 129 | 26.1% | 183 | 37.0% | 89 | 18.0% | 20 | 4.0% | 2 | 0.4% | 19 | 3.8% | 495 |
| Soso | 4 | 0.9 % | 37 | 8.8% | 125 | 29.6% | 153 | 36.3% | 75 | 17.8% | 18 | 4.3% | 2 | 0.5% | 8 | 1.9% | 422 |
| lwaki | 5 | 0.5 % | 12 5 | 12.2 % | 265 | 25.8% | 357 | 34.7% | 210 | 20.4% | 46 | 4.5% | 1 | 0.1% | 19 | 1.8% | 1,028 |
| Aizu | 4 | 0.5 % | 71 | 8.8% | 222 | 27.4% | 298 | 36.7% | 167 | 20.6% | 37 | 4.6% | 1 | 0.1% | 11 | 1.4% | 811 |
| Minamiaizu | 0 | 0.0 % | 6 | 10.7 % | 13 | 23.2% | 17 | 30.4% | 17 | 30.4% | 1 | 1.8% | 0 | 0.0% | 2 | 3.6% | 56 |
| Outside Fukushima | 0 | 0.0 % | 4 | 4.5% | 35 | 39.3% | 33 | 37.1% | 12 | 13.5% | 4 | 4.5% | 0 | 0.0% | 1 | 1.1% | 89 |
| Total | 34 | 0.5 % | | 8.7% | 1,797 | 27.3% | 2,434 | 37.0% | 1,341 | 20.4% | 286 | 4.3% | 15 | 0.2% | 103 | 1.6% | 6,580 |

¹⁾ No or invalid responses: Respondents who did not enter the date of their pregnancy outcome (live birth, stillbirth, etc.)

(2) Tabulation by survey item

[Table 2] Do you usually consider yourself healthy? (Q.2)

| Region | Region Very healthy | | Rather healthy | | Not so I | nealthy | Not I | nealthy | No or resp | Total | |
|-------------------|---------------------|-------|----------------|-------|----------|---------|-------|---------|---------------|-------|-------|
| Kenpoku | 444 | 26.3% | 1,177 | 69.6% | 61 | 3.6% | 6 | 0.4% | 3 | 0.2% | 1,691 |
| Kenchu | 565 | 28.4% | 1,342 | 67.5% | 68 | 3.4% | 7 | 0.4% | 6 | 0.3% | 1,988 |
| Kennan | 125 | 25.3% | 346 | 69.9% | 19 | 3.8% | 2 | 0.4% | 3 | 0.6% | 495 |
| Soso | 117 | 27.7% | 284 | 67.3% | 15 | 3.6% | 4 | 0.9% | 2 | 0.5% | 422 |
| Iwaki | 277 | 26.9% | 710 | 69.1% | 34 | 3.3% | 4 | 0.4% | 3 | 0.3% | 1,028 |
| Aizu | 202 | 24.9% | 572 | 70.5% | 32 | 3.9% | 3 | 0.4% | 2 | 0.2% | 811 |
| Minamiaizu | 9 | 16.1% | 45 | 80.4% | 1 | 1.8% | 0 | 0.0% | 1 | 1.8% | 56 |
| Outside Fukushima | 25 | 28.1% | 64 | 71.9% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 89 |
| Total | 1,764 | 26.8% | 4,540 | 69.0% | 230 | 3.5% | 26 | 0.4% | 20 | 0.3% | 6,580 |

[Table 3] Do you think that you received care sufficiently for the latest pregnancy and delivery as a whole? (Q.3)

| Region | Strongly | Strongly think so | | Think so | | Not sure | | I do not think so | | I do not think so at all | | No or invalid responses | |
|------------|----------|-------------------|-------|----------|-----|----------|----|----------------------|----|-----------------------------|----|-------------------------|-------|
| Kenpoku | 577 | 34.1% | 954 | 56.4% | 128 | 7.6% | 24 | 1.4% | 6 | 0.4% | 2 | 0.1% | 1,691 |
| Kenchu | 685 | 34.5% | 1,081 | 54.4% | 184 | 9.3% | 26 | 1.3% | 7 | 0.4% | 5 | 0.3% | 1,988 |
| Kennan | 143 | 28.9% | 305 | 61.6% | 36 | 7.3% | 6 | 1.2% | 3 | 0.6% | 2 | 0.4% | 495 |
| Soso | 144 | 34.1% | 228 | 54.0% | 39 | 9.2% | 7 | 1.7% | 0 | 0.0% | 4 | 0.9% | 422 |
| lwaki | 359 | 34.9% | 555 | 54.0% | 87 | 8.5% | 16 | 1.6% | 4 | 0.4% | 7 | 0.7% | 1,028 |
| Aizu | 263 | 32.4% | 464 | 57.2% | 70 | 8.6% | 13 | 1.6% | 0 | 0.0% | 1 | 0.1% | 811 |
| Minamiaizu | 17 | 30.4% | 32 | 57.1% | 6 | 10.7% | 0 | 0.0% | 0 | 0.0% | 1 | 1.8% | 56 |
| Outside | 25 | 28.1% | 60 | 67.4% | 4 | 4.5% | 0 | 0.0% | n | 0.0% | 0 | 0.0% | 89 |
| Fukushima | 23 | 20.170 | 00 | 07.470 | 4 | 4.5 /0 | U | 0.076 | U | 0.076 | U | 0.0 /6 | 09 |
| Total | 2,213 | 33.6% | 3,679 | 55.9% | 554 | 8.4% | 92 | 1.4% | 20 | 0.3% | 22 | 0.3% | 6,580 |

[Table 4-1] Have you often felt down or depressed during the past month? (Q.4-1)

| | | | | | _ | | , , | | |
|----------------------|-------|-------|-------|-------|-------------|------------------|-------|--|--|
| Region | Ye | es | N | 0 | No or respo | invalid onses | Total | | |
| Kenpoku | 298 | 17.6% | 1,389 | 82.1% | 4 | 0.2% | 1,691 | | |
| Kenchu | 359 | 18.1% | 1,614 | 81.2% | 15 | 0.8% | 1,988 | | |
| Kennan | 87 | 17.6% | 405 | 81.8% | 3 | 0.6% | 495 | | |
| Soso | 75 | 17.8% | 344 | 81.5% | 3 | 0.7% | 422 | | |
| lwaki | 158 | 15.4% | 863 | 83.9% | 7 | 0.7% | 1,028 | | |
| Aizu | 143 | 17.6% | 666 | 82.1% | 2 | 0.2% | 811 | | |
| Minamiaizu | 7 | 12.5% | 48 | 85.7% | 1 | 1.8% | 56 | | |
| Outside Fukushima | 21 | 23.6% | 67 | 75.3% | 1 | 1.1% | 89 | | |
| Total | 1,148 | 17.4% | 5,396 | 82.0% | 36 | 0.5% | 6,580 | | |

[Table 4-2] During the past month, have you often felt uninterested in or unable to truly enjoy things? (Q.4-2)

| Region | Ye | S | No | o | No or i respo | | Total | |
|----------------------|-----|------|-------|-------|------------------|------|-------|--|
| Kenpoku | 131 | 7.7% | 1,556 | 92.0% | 4 | 0.2% | 1,691 | |
| Kenchu | 149 | 7.5% | 1,824 | 91.8% | 15 | 0.8% | 1,988 | |
| Kennan | 32 | 6.5% | 460 | 92.9% | 3 | 0.6% | 495 | |
| Soso | 31 | 7.3% | 388 | 91.9% | 3 | 0.7% | 422 | |
| lwaki | 71 | 6.9% | 950 | 92.4% | 7 | 0.7% | 1,028 | |
| Aizu | 61 | 7.5% | 748 | 92.2% | 2 | 0.2% | 811 | |
| Minamiaizu | 3 | 5.4% | 52 | 92.9% | 1 | 1.8% | 56 | |
| Outside Fukushima | 7 | 7.9% | 81 | 91.0% | 1 | 1.1% | 89 | |
| Total | 485 | 7.4% | 6,059 | 92.1% | 36 | 0.5% | 6,580 | |

[Table 4-3] Depressive tendencies

Regarding the respondents who responded "Yes" to both or either of Q.4-1 and Q.4-2

| Region | "Yes" t | o both | "Yes" to | "Yes" to either | | o both | No or respo | | Total | |
|-------------------|---------|--------|-----------|-----------------|-------------|--------|-------------|------|-------|--|
| Kenpoku | 115 | 6.8% | 199 | 11.8% | 1,373 | 81.2% | 4 | 0.2% | 1,691 | |
| Kenchu | 130 | 6.5% | 248 12.5% | | 1,595 80.2% | | 15 | 0.8% | 1,988 | |
| Kennan | 30 | 6.1% | 59 | 11.9% | 403 | 81.4% | 3 | 0.6% | 495 | |
| Soso | 27 | 6.4% | 52 | 12.3% | 340 | 80.6% | 3 | 0.7% | 422 | |
| lwaki | 60 | 5.8% | 109 | 10.6% | 852 | 82.9% | 7 | 0.7% | 1,028 | |
| Aizu | 51 | 6.3% | 102 | 12.6% | 656 | 80.9% | 2 | 0.2% | 811 | |
| Minamiaizu | 2 | 3.6% | 6 | 10.7% | 47 | 83.9% | 1 | 1.8% | 56 | |
| Outside Fukushima | 7 | 7.9% | 14 15.7% | | 67 | 75.3% | 1 | 1.1% | 89 | |
| Total | 422 | 6.4% | 789 | 12.0% | 5,333 | 81.0% | 36 | 0.5% | 6,580 | |

^{*}Depressive tendencies: 18.4% [("Yes" to both (422) + "Yes" to either (789)) / Total (6,580)]

[Table 5-1] Are you living as a refugee at present? (Q.5)

| Region | Living refug temp hou | ee in orary | Living as a refugee in other types of housing | | a refug living own h | o live as gee but in their ome at sent | lived | e never d as a ugee | No or i respo | | Total |
|----------------------|--------------------------------|----------------|---|--------|----------------------------|--|-------|---------------------------|------------------|------|-------|
| Kenpoku | 0 | 0.0% | 3 | 3 0.2% | | 6.7% | 1,548 | 91.5% | 26 | 1.5% | 1,691 |
| Kenchu | 0 | 0.0% | 3 | 0.2% | 160 | 8.0% | 1,784 | 89.7% | 41 | 2.1% | 1,988 |
| Kennan | 0 | 0.0% | 2 | 0.4% | 12 | 2.4% | 470 | 94.9% | 11 | 2.2% | 495 |
| Soso | 2 | 0.5% | 97 | 23.0% | 122 | 28.9% | 192 | 45.5% | 9 | 2.1% | 422 |
| lwaki | 2 | 0.2% | 8 | 0.8% | 304 | 29.6% | 694 | 67.5% | 20 | 1.9% | 1,028 |
| Aizu | 0 | 0.0% | 1 | 0.1% | 14 | 1.7% | 776 | 95.7% | 20 | 2.5% | 811 |
| Minamiaizu | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 55 | 98.2% | 1 | 1.8% | 56 |
| Outside Fukushima | 0 | 0.0% | 1 | 1 1.1% | | 4.5% | 84 | 94.4% | 0 | 0.0% | 89 |
| Total | 4 | 0.1% | 115 | 1.7% | 730 | 11.1% | 5,603 | 85.2% | 128 | 1.9% | 6,580 |

[Table 5-2] Are you living as a refugee separately from your family members with whom you had lived together? (Q.5)

(Only regarding 119 respondents who responded that they are living as a refugee at present in temporary housing

or other types of housing)

| Region | Yes | | N | lo | No or respo | Total | |
|-------------------|-----|--------|----|--------|-------------|-------|-----|
| Kenpoku | 3 | 100.0% | 0 | 0.0% | 0 | 0.0% | 3 |
| Kenchu | 2 | 66.7% | 1 | 33.3% | 0 | 0.0% | 3 |
| Kennan | 2 | 100.0% | 0 | 0.0% | 0 | 0.0% | 2 |
| Soso | 49 | 49.5% | 50 | 50.5% | 0 | 0.0% | 99 |
| lwaki | 7 | 70.0% | 3 | 30.0% | 0 | 0.0% | 10 |
| Aizu | 0 | 0.0% | 1 | 100.0% | 0 | 0.0% | 1 |
| Minamiaizu | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 |
| Outside Fukushima | 1 | 100.0% | 0 | 0.0% | 0 | 0.0% | 1 |
| Total | 64 | 53.8% | 55 | 46.2% | 0 | 0.0% | 119 |

[Table 5-3] Are you able to have good communication with your family members? (Q.5)

(Only regarding 64 respondents who responded "Yes" to the question, "Are you living as a refugee separately from

your family members with whom you had lived together?")

| your fairing file | TIDEIS WILL | i wilolli yo | u nau nveu | i logeli lei : | , | | | | |
|-------------------|-------------|--------------|------------|----------------|-----|-------|-------------|------|-------|
| Region | Ye | es | N | o | Not | sure | No or respo | | Total |
| Kenpoku | 3 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 3 |
| Kenchu | 2 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 2 |
| Kennan | 2 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 2 |
| Soso | 45 | 91.8% | 1 | 2.0% | 3 | 6.1% | 0 | 0.0% | 49 |
| lwaki | 6 | 85.7% | 0 | 0.0% | 1 | 14.3% | 0 | 0.0% | 7 |
| Aizu | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 |
| Minamiaizu | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 |
| Outside Fukushima | 1 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 1 |
| Total | 59 | 92.2% | 1 | 1.6% | 4 | 6.3% | 0 | 0.0% | 64 |

[Table 6] Who are you living with at present? Enter all applicable. (Q.6)

| | | | | | (| wullpie i | esponses | s are allowed., | | | |
|-------------------|----|------|-------|---------------------------------------|-------------------------|-----------|----------|-----------------|------|-----------------|-------|
| Region | Αl | one | | With husband or partner With children | | With p | oarents | Ot | her | Valid responses | |
| Kenpoku | 0 | 0.0% | 1,590 | 94.3% | % 1,524 90.3% 421 25.0° | | 25.0% | 117 | 6.9% | 1,687 | |
| Kenchu | 2 | 0.1% | 1,892 | 95.4% | 1,786 | 90.1% | 475 | 24.0% | 98 | 4.9% | 1,983 |
| Kennan | 0 | 0.0% | 462 | 93.9% | 441 | 89.6% | 157 | 31.9% | 36 | 7.3% | 492 |
| Soso | 1 | 0.2% | 396 | 94.3% | 386 | 91.9% | 110 | 26.2% | 34 | 8.1% | 420 |
| lwaki | 0 | 0.0% | 967 | 94.5% | 901 | 88.1% | 236 | 23.1% | 48 | 4.7% | 1,023 |
| Aizu | 0 | 0.0% | 761 | 94.0% | 721 | 89.0% | 292 | 36.0% | 80 | 9.9% | 810 |
| Minamiaizu | 0 | 0.0% | 54 | 98.2% | 49 | 89.1% | 21 | 38.2% | 4 | 7.3% | 55 |
| Outside Fukushima | 0 | 0.0% | 85 | 95.5% | 67 | 75.3% | 6 | 6.7% | 1 | 1.1% | 89 |
| Total | 3 | 0.0% | 6,207 | 94.6% | 5,875 | 89.6% | 1,718 | 26.2% | 418 | 6.4% | 6,559 |

The denominator for calculating percentages is the number of valid responses (respondents who responded to Question 6). As multiple responses are allowed, the percentages may not be 100.0%.

[Table 7-1] Did you habitually smoke when you filed a pregnancy notification this time? (Q.7-1)

| Region | | smoked | | Had stopped smoking before noticing the pregnancy | | smoking ticing the nancy | Habit smo | , | | invalid onses | Total |
|----------------------|-------|--------|-----------|--|-----|--------------------------------|--------------|------|----|------------------|-------|
| Kenpoku | 1,278 | 75.6% | 208 12.3% | | 126 | 7.5% | 74 | 4.4% | 5 | 0.3% | 1,691 |
| Kenchu | 1,449 | 72.9% | 223 | 11.2% | 231 | 11.6% | 79 | 4.0% | 6 | 0.3% | 1,988 |
| Kennan | 349 | 70.5% | 62 | 12.5% | 49 | 9.9% | 32 | 6.5% | 3 | 0.6% | 495 |
| Soso | 290 | 68.7% | 52 | 12.3% | 42 | 10.0% | 36 | 8.5% | 2 | 0.5% | 422 |
| lwaki | 706 | 68.7% | 125 | 12.2% | 134 | 13.0% | 58 | 5.6% | 5 | 0.5% | 1,028 |
| Aizu | 612 | 75.5% | 82 | 10.1% | 82 | 10.1% | 34 | 4.2% | 1 | 0.1% | 811 |
| Minamiaizu | 45 | 80.4% | 3 | 5.4% | 7 | 12.5% | 0 | 0.0% | 1 | 1.8% | 56 |
| Outside Fukushima | 71 | 79.8% | 10 11.2% | | 6 | 6.7% | 2 | 2.2% | 0 | 0.0% | 89 |
| Total | 4,800 | 72.9% | 765 | 765 11.6% | | 10.3% | 315 | 4.8% | 23 | 0.3% | 6,580 |

[Table 7-2] Did you continue smoking during the pregnancy? (Q.7-2)

| Region | Stopped | smoking | Continued | smoking | No or respo | | Total | |
|----------------------|---------|---------|-----------|---------|-------------|------|-------|--|
| Kenpoku | 1,649 | 97.5% | 33 | 2.0% | 9 | 0.5% | 1,691 | |
| Kenchu | 1,933 | 97.2% | 46 | 2.3% | 9 | 0.5% | 1,988 | |
| Kennan | 479 | 96.8% | 13 | 2.6% | 3 | 0.6% | 495 | |
| Soso | 400 | 94.8% | 18 | 4.3% | 4 | 0.9% | 422 | |
| lwaki | 985 | 95.8% | 35 | 3.4% | 8 | 0.8% | 1,028 | |
| Aizu | 794 | 97.9% | 16 | 2.0% | 1 | 0.1% | 811 | |
| Minamiaizu | 55 | 98.2% | 0 | 0.0% | 1 | 1.8% | 56 | |
| Outside Fukushima | 89 | 100.0% | 0 | 0.0% | 0 | 0.0% | 89 | |
| Total | 6,384 | 97.0% | 161 | 2.4% | 35 | 0.5% | 6,580 | |

[Table 7-3] Do you habitually smoke at present? (Q.7-3)

| Region | Do not | smoke | Smo | king | | invalid onses | Total | |
|----------------------|--------|--------|-----|------|----|------------------|-------|--|
| Kenpoku | 1,628 | 96.3% | 57 | 3.4% | 6 | 0.4% | 1,691 | |
| Kenchu | 1,885 | 94.8% | 94 | 4.7% | 9 | 0.5% | 1,988 | |
| Kennan | 465 | 93.9% | 26 | 5.3% | 4 | 0.8% | 495 | |
| Soso | 391 | 92.7% | 28 | 6.6% | 3 | 0.7% | 422 | |
| Iwaki | 971 | 94.5% | 51 | 5.0% | 6 | 0.6% | 1,028 | |
| Aizu | 776 | 95.7% | 33 | 4.1% | 2 | 0.2% | 811 | |
| Minamiaizu | 54 | 96.4% | 1 | 1.8% | 1 | 1.8% | 56 | |
| Outside Fukushima | 89 | 100.0% | 0 | 0.0% | 0 | 0.0% | 89 | |
| Total | 6,259 | 95.1% | 290 | 4.4% | 31 | 0.5% | 6,580 | |

[Table 8] Did you have a single birth or a twin birth (including a stillbirth)? (Q.8)

| Region | Single | births | Twin bi | rths | No or in | | Total |
|-------------------|--------|--------|---------|------|----------|------|-------|
| Kenpoku | 1,675 | 99.1% | 16 | 0.9% | 0 | 0.0% | 1,691 |
| Kenchu | 1,970 | 99.1% | 18 | 0.9% | 0 | 0.0% | 1,988 |
| Kennan | 488 | 98.6% | 7 | 1.4% | 0 | 0.0% | 495 |
| Soso | 420 | 99.5% | 1 | 0.2% | 1 | 0.2% | 422 |
| lwaki | 1,019 | 99.1% | 8 | 0.8% | 1 | 0.1% | 1,028 |
| Aizu | 801 | 98.8% | 10 | 1.2% | 0 | 0.0% | 811 |
| Minamiaizu | 55 | 98.2% | 1 | 1.8% | 0 | 0.0% | 56 |
| Outside Fukushima | 89 | 100.0% | 0 | 0.0% | 0 | 0.0% | 89 |
| Total | 6,517 | 99.0% | 61 | 0.9% | 2 | 0.0% | 6,580 |

^{*} Data were tabulated excluding one mother who gave birth to triplets.

[Table 9-1] Mode of pregnancy (Q.9)

| Region | | tural eption | _ | lation iction | Artif insemi | | In-v fertiliz | | induc | ation tion & icial ination | Ovul induc in-v fertiliz | tion & ritro | No inva respo | alid | Total |
|-------------------|-----------|-----------------|-----|------------------|-----------------|------|------------------|------|-------|-------------------------------------|-----------------------------------|-----------------|---------------------|----------|-------|
| Kenpoku | 1,52 4 | 90.1% | 52 | 3.1% | 20 | 1.2% | 78 | 4.6% | 4 | 0.2% | 9 | 0.5% | 4 | 0.2 % | 1,691 |
| Kenchu | 1,82 8 | 92.0% | 41 | 2.1% | 28 | 1.4% | 66 | 3.3% | 5 | 0.3% | 11 | 0.6% | 9 | 0.5 % | 1,988 |
| Kennan | 461 | 93.1% | 7 | 1.4% | 5 | 1.0% | 15 | 3.0% | 3 | 0.6% | 2 | 0.4% | 2 | 0.4 % | 495 |
| Soso | 383 | 90.8% | 8 | 1.9% | 5 | 1.2% | 20 | 4.7% | 0 | 0.0% | 2 | 0.5% | 4 | 0.9 % | 422 |
| lwaki | 932 | 90.7% | 28 | 2.7% | 24 | 2.3% | 34 | 3.3% | 3 | 0.3% | 4 | 0.4% | 3 | 0.3 % | 1,028 |
| Aizu | 744 | 91.7% | 18 | 2.2% | 11 | 1.4% | 31 | 3.8% | 2 | 0.2% | 3 | 0.4% | 2 | 0.2 % | 811 |
| Minamiaizu | 49 | 87.5% | 2 | 3.6% | 2 | 3.6% | 0 | 0.0% | 1 | 1.8% | 0 | 0.0% | 2 | 3.6 % | 56 |
| Outside Fukushima | 80 | 89.9% | 6 | 6.7% | 1 | 1.1% | 2 | 2.2% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0 % | 89 |
| Total | 6,00 1 | 91.2% | 162 | 2.5% | 96 | 1.5% | 246 | 3.7% | 18 | 0.3% | 31 | 0.5% | 26 | 0.4 % | 6,580 |

[Table 9-2] Pregnancy outcome (Q.9)

| Region | Live | birth | Miscarriage | | Abo | rtion | Still | Total | |
|----------------------|-------|---------|-------------|-------|-----|-------|-------|-------|-------|
| Kenpoku | 1,682 | 99.47% | 9 | 0.53% | 0 | 0.00% | 0 | 0.00% | 1,691 |
| Kenchu | 1,977 | 99.45% | 9 | 0.45% | 0 | 0.00% | 2 | 0.10% | 1,988 |
| Kennan | 493 | 99.40% | 1 | 0.20% | 0 | 0.00% | 2 | 0.40% | 496 |
| Soso | 418 | 99.29% | 2 | 0.48% | 0 | 0.00% | 1 | 0.24% | 421 |
| Iwaki | 1,018 | 99.03% | 4 | 0.39% | 1 | 0.10% | 5 | 0.49% | 1,028 |
| Aizu | 808 | 99.38% | 3 | 0.37% | 0 | 0.00% | 2 | 0.25% | 813 |
| Minamiaizu | 56 | 100.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 56 |
| Outside Fukushima | 89 | 100.00% | 0 | 0.00% | 0 | 0.00% | 0 | 0.00% | 89 |
| Total | 6,541 | 99.38% | 28 | 0.43% | 1 | 0.02% | 12 | 0.18% | 6,582 |

^{*} Data were tabulated excluding one mother who gave birth to triplets.

* Basically, a delivery of twins was counted once as a live birth. However, for three mothers who gave birth to twins with different outcomes, each outcome was counted separately. For example, when a mother gave a live birth to the first baby but lost the second baby by miscarriage, each was counted separately as a live birth and a miscarriage.

[Table 10-1] Have you ever experienced a miscarriage? (Q.10-1)

| Region | Ye | es | N | 0 | No or respo | Total | |
|------------|-------|-------|-------|-------|-------------|-------|-------|
| Kenpoku | 333 | 19.7% | 1,342 | 79.4% | 16 | 0.9% | 1,691 |
| Kenchu | 391 | 19.7% | 1,578 | 79.4% | 19 | 1.0% | 1,988 |
| Kennan | 95 | 19.2% | 397 | 80.2% | 3 | 0.6% | 495 |
| Soso | 92 | 21.8% | 326 | 77.3% | 4 | 0.9% | 422 |
| lwaki | 238 | 23.2% | 778 | 75.7% | 12 | 1.2% | 1,028 |
| Aizu | 170 | 21.0% | 631 | 77.8% | 10 | 1.2% | 811 |
| Minamiaizu | 18 | 32.1% | 37 | 66.1% | 1 | 1.8% | 56 |
| Outside | 8 | 9.0% | 79 | 88.8% | 2 | 2.2% | 89 |
| Fukushima | | | | | | | |
| Total | 1,345 | 20.4% | 5,168 | 78.5% | 67 | 1.0% | 6,580 |

[Table 10-2] Have you ever experienced an abortion? (Q.10-2)

| Region | Yes | | N | 0 | No or respo | Total | |
|------------|-----|-------|-------|-------|-------------|-------|-------|
| Kenpoku | 209 | 12.4% | 1,427 | 84.4% | 55 | 3.3% | 1,691 |
| Kenchu | 272 | 13.7% | 1,653 | 83.1% | 63 | 3.2% | 1,988 |
| Kennan | 70 | 14.1% | 414 | 83.6% | 11 | 2.2% | 495 |
| Soso | 47 | 11.1% | 354 | 83.9% | 21 | 5.0% | 422 |
| lwaki | 162 | 15.8% | 830 | 80.7% | 36 | 3.5% | 1,028 |
| Aizu | 109 | 13.4% | 674 | 83.1% | 28 | 3.5% | 811 |
| Minamiaizu | 5 | 8.9% | 48 | 85.7% | 3 | 5.4% | 56 |
| Outside | 12 | 13.5% | 71 | 79.8% | 6 | 6.7% | 89 |
| Fukushima | | | | | | | |
| Total | 886 | 13.5% | 5,471 | 83.1% | 223 | 3.4% | 6,580 |

[Table 10-3] Have you ever experienced a stillbirth? (Q.10-3)

| Region | Yes | | N | 0 | No or respo | Total | |
|------------|-----|------|-------|-------|-------------|-------|-------|
| Kenpoku | 17 | 1.0% | 1,656 | 97.9% | 18 | 1.1% | 1,691 |
| Kenchu | 25 | 1.3% | 1,935 | 97.3% | 28 | 1.4% | 1,988 |
| Kennan | 7 | 1.4% | 485 | 98.0% | 3 | 0.6% | 495 |
| Soso | 6 | 1.4% | 412 | 97.6% | 4 | 0.9% | 422 |
| Iwaki | 12 | 1.2% | 1,001 | 97.4% | 15 | 1.5% | 1,028 |
| Aizu | 10 | 1.2% | 790 | 97.4% | 11 | 1.4% | 811 |
| Minamiaizu | 0 | 0.0% | 55 | 98.2% | 1 | 1.8% | 56 |
| Outside | 0 | 0.0% | 87 | 97.8% | 2 | 2.2% | 89 |
| Fukushima | | | | | | | |
| Total | 77 | 1.2% | 6,421 | 97.6% | 82 | 1.2% | 6,580 |

[Table 10-4] Have you had experience of childbirth? (Q.10-4)

| Region | Yes | | No |) | No or i | Total | |
|------------|-------|-------|-------|-------|---------|-------|-------|
| Kenpoku | 893 | 52.8% | 742 | 43.9% | 56 | 3.3% | 1,691 |
| Kenchu | 965 | 48.5% | 957 | 48.1% | 66 | 3.3% | 1,988 |
| Kennan | 264 | 53.3% | 220 | 44.4% | 11 | 2.2% | 495 |
| Soso | 229 | 54.3% | 175 | 41.5% | 18 | 4.3% | 422 |
| lwaki | 511 | 49.7% | 488 | 47.5% | 29 | 2.8% | 1,028 |
| Aizu | 430 | 53.0% | 354 | 43.6% | 27 | 3.3% | 811 |
| Minamiaizu | 27 | 48.2% | 26 | 46.4% | 3 | 5.4% | 56 |
| Outside | 33 | 37.1% | 50 | 56.2% | 6 | 6.7% | 89 |
| Fukushima | | | | | | | |
| Total | 3,352 | 50.9% | 3,012 | 45.8% | 216 | 3.3% | 6,580 |

[Table 10-5] Have you ever had a twin birth? (Q.10-5)

| Region | Yes | | No | | No or inv | | Total |
|----------------------|-----|------|-------|-------|-----------|------|-------|
| Kenpoku | 14 | 0.8% | 1,651 | 97.6% | 26 | 1.5% | 1,691 |
| Kenchu | 11 | 0.6% | 1,949 | 98.0% | 28 | 1.4% | 1,988 |
| Kennan | 5 | 1.0% | 487 | 98.4% | 3 | 0.6% | 495 |
| Soso | 4 | 0.9% | 415 | 98.3% | 3 | 0.7% | 422 |
| lwaki | 2 | 0.2% | 1,011 | 98.3% | 15 | 1.5% | 1,028 |
| Aizu | 7 | 0.9% | 792 | 97.7% | 12 | 1.5% | 811 |
| Minamiaizu | 1 | 1.8% | 53 | 94.6% | 2 | 3.6% | 56 |
| Outside Fukushima | 0 | 0.0% | 87 | 97.8% | 2 | 2.2% | 89 |
| Total | 44 | 0.7% | 6,445 | 97.9% | 91 | 1.4% | 6,580 |

[Table 11-1] Have you had any diseases before becoming pregnant this time? (Q.11)

| Region | Υe | es | N | 0 | No or respo | Total | |
|----------------------|-------|-------|-------|-------|-------------|-------|-------|
| Kenpoku | 504 | 29.8% | 1,182 | 69.9% | 5 | 0.3% | 1,691 |
| Kenchu | 581 | 29.2% | 1,403 | 70.6% | 4 | 0.2% | 1,988 |
| Kennan | 128 | 25.9% | 366 | 73.9% | 1 | 0.2% | 495 |
| Soso | 132 | 31.3% | 290 | 68.7% | 0 | 0.0% | 422 |
| lwaki | 335 | 32.6% | 690 | 67.1% | 3 | 0.3% | 1,028 |
| Aizu | 247 | 30.5% | 563 | 69.4% | 1 | 0.1% | 811 |
| Minamiaizu | 10 | 17.9% | 46 | 82.1% | 0 | 0.0% | 56 |
| Outside Fukushima | 22 | 24.7% | 67 | 75.3% | 0 | 0.0% | 89 |
| Total | 1,959 | 29.8% | 4,607 | 70.0% | 14 | 0.2% | 6,580 |

[Table 11-2] Percentages of specific diseases suffered by the respondents who responded "Yes" to Question 11 among the total number of responses

(Valid responses: 1.955: No. or invalid responses: 4)

| | | | | | | | | | | (Valid | resp | onses: | 1,95 | 5; No | or I | ınvalıd | respo | nses: 4) |
|----------------------|-------|--------------------------------|-----|---------------------------------|-----|------------------------------|-----|----------------|----|-------------------|------|-----------------------------|------|-----------------------------|------|---------|-------|----------|
| Region | II. | allergic ases ¹⁾ | | piratory eases ²⁾ | | ental eases ³⁾ | | yroid eases | | estinal orders | | rain eases ⁴⁾ | | rdiac ases ⁵⁾ | Ca | ancer | Нуре | rtension |
| Kenpoku | 254 | 40.2% | 89 | 14.1% | 75 | 11.9% | 41 | 6.5% | 24 | 3.8% | 20 | 3.2% | 15 | 2.4% | 9 | 1.4% | 4 | 0.6% |
| Kenchu | 322 | 42.2% | 125 | 16.4% | 66 | 8.7% | 35 | 4.6% | 33 | 4.3% | 17 | 2.2% | 15 | 2.0% | 12 | 1.6% | 6 | 0.8% |
| Kennan | 70 | 40.9% | 25 | 14.6% | 23 | 13.5% | 8 | 4.7% | 6 | 3.5% | 3 | 1.8% | 3 | 1.8% | 4 | 2.3% | 4 | 2.3% |
| Soso | 69 | 38.3% | 28 | 15.6% | 15 | 8.3% | 11 | 6.1% | 4 | 2.2% | 8 | 4.4% | 4 | 2.2% | 8 | 4.4% | 3 | 1.7% |
| lwaki | 182 | 39.1% | 95 | 20.4% | 42 | 9.0% | 21 | 4.5% | 18 | 3.9% | 12 | 2.6% | 11 | 2.4% | 8 | 1.7% | 3 | 0.6% |
| Aizu | 132 | 39.5% | 66 | 19.8% | 29 | 8.7% | 32 | 9.6% | 5 | 1.5% | 4 | 1.2% | 7 | 2.1% | 4 | 1.2% | 7 | 2.1% |
| Minamiaizu | 5 | 31.3% | 4 | 25.0% | 2 | 12.5% | 0 | 0.0% | 2 | 12.5% | 1 | 6.3% | 0 | 0.0% | 1 | 6.3% | 0 | 0.0% |
| Outside Fukushima | 9 | 36.0% | 9 | 36.0% | 1 | 4.0% | 0 | 0.0% | 0 | 0.0% | 1 | 4.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Total | 1,043 | 40.3% | 441 | 17.0% | 253 | 9.8% | 148 | 5.7% | 92 | 3.6% | 66 | 2.6% | 55 | 2.1% | 46 | 1.8% | 27 | 1.0% |

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| Region | Infectious diseases8) | Diabetes | tis | nective sue ases ⁶⁾ | | lood eases ⁷⁾ | Hyper | lipemia | | patic ases ⁹⁾ | | /muscle ases ¹⁰⁾ | С | ther | Total |
|----------------------|-----------------------|----------|-----|--------------------------------------|----|-----------------------------|-------|---------|----|-----------------------------|---|--------------------------------|-----|-------|-------|
| Kenpoku | 11 1.7% | 3 0.5% | 3 | 0.5% | 6 | 0.9% | 4 | 0.6% | 5 | 0.8% | 1 | 0.2% | 68 | 10.8% | 632 |
| Kenchu | 4 0.5% | 11 1.4% | 11 | 1.4% | 4 | 0.5% | 7 | 0.9% | 2 | 0.3% | 2 | 0.3% | 91 | 11.9% | 763 |
| Kennan | 0 0.0% | 4 2.3% | 2 | 1.2% | 2 | 1.2% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 17 | 9.9% | 171 |
| Soso | 2 1.1% | 2 1.1% | 1 | 0.6% | 0 | 0.0% | 2 | 1.1% | 0 | 0.0% | 0 | 0.0% | 23 | 12.8% | 180 |
| lwaki | 1 0.2% | 2 0.4% | 1 | 0.2% | 4 | 0.9% | 3 | 0.6% | 4 | 0.9% | 3 | 0.6% | 56 | 12.0% | 466 |
| Aizu | 5 1.5% | 2 0.6% | 5 | 1.5% | 2 | 0.6% | 2 | 0.6% | 1 | 0.3% | 0 | 0.0% | 31 | 9.3% | 334 |
| Minamiaizu | 0 0.0% | 0 0.0% | 0 | 0.0% | 1 | 6.3% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 16 |
| Outside Fukushima | 1 4.0% | 0 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 1 | 4.0% | 0 | 0.0% | 3 | 12.0% | 25 |
| Total | 24 0.9% | 24 0.9% | 23 | 0.9% | 19 | 0.7% | 18 | 0.7% | 13 | 0.5% | 6 | 0.2% | 289 | 11.2% | 2,587 |

¹⁾ Atopic dermatitis, allergic rhinitis, etc.; 2) Pneumonia, asthma, etc.; 3) Depression, schizophrenia, etc.; 4) Stroke, epilepsy, etc.; 5) Myocardial infarction, angina, irregular heartbeat, congenital cardiac diseases, etc.; 6) SLE, erythematosus, etc.; 7) Idiopathic thrombocytopenia, etc.; 8) Tuberculosis, etc.; 9) Chronic hepatitis, etc.; 10) Myasthenia gravis, etc.

[Table 11-3] Breakdown of specific diseases included in "Other" for the respondents who responded "Yes" to Question 11

| | | | | <u> </u> | viuiti | ple responses are allowed.) |) |
|-----------------------------------|----|------------------------|---|---------------------------------------|--------|----------------------------------|---|
| Ovarian tumor | 70 | Tonsillitis | 2 | Intraductal papillomatosis | 1 | Purpura nephritis | 1 |
| Endometriosis | 34 | Hydrosalpinx | 2 | Spina bifida | 1 | Glomerular nephritis | 1 |
| Uterine fibroid | 31 | Rachioscoliosis | 2 | Achondrogenesis | 1 | Endometrial polyp | 1 |
| Polycystic ovarian syndrome | 10 | Ureterolithiasis | 2 | Aneurysm | 1 | Uterine diverticulum | 1 |
| Cervical intraepithelial neoplasm | 9 | Hearing loss | 2 | Intracranial hypotension | 1 | Omarthritis | 1 |
| Glaucoma | 8 | Otitis media | 1 | Intervertebral disc hernia | 1 | Hematuria | 1 |
| Cholelithiasis | 8 | Vocal cord polyp | 1 | Uterus bicornis | 1 | Hemangioma | 1 |
| Kawasaki disease | 8 | Endocervical polyp | 1 | Fibromyalgia | 1 | Cervical disc hernia | 1 |
| Pyelonephritis | 7 | Lumbar spine hernia | 1 | Epidermolysis bullosa hereditarian | 1 | Muscle-contraction headache | 1 |
| Meniere's disease | 7 | Frog tongue | 1 | Congenital biliary dilatation | 1 | Thoracolumbar arachnoid cyst | 1 |
| IgA nephropathy | 7 | Allergic purpura | 1 | Vocal cord nodule | 1 | Psoriasis | 1 |
| Hydatidiform mole | 6 | Neck lower gland tumor | 1 | Kidney injury | 1 | Synovial osteochondromatosis | 1 |
| Sinusitis | 5 | Pancreatitis | 1 | Nephritis | 1 | Corneal dystrophy | 1 |
| Sudden deafness | 5 | Vesicoureteric reflux | 1 | Upper arm soft tissue tumor | 1 | Pharyngeal tonsil hyperplasia | 1 |
| Kidney disease | 4 | Splenic cyst | 1 | Maxillary sinusitis | 1 | Livedoid vasculitis | 1 |
| Uterine adenomyosis | 4 | Enlarged tonsil | 1 | Mediastinal tumor | 1 | Morton's disease | 1 |
| Ectopic pregnancy | 4 | Ovarian hemorrhage | 1 | Wrist fracture | 1 | Protein someone deficiency | 1 |
| Developmental disorder | 3 | Yolk sac tumor | 1 | Strabismus | 1 | Narcolepsy | 1 |
| Hydronephrosis | 3 | Retinal detachment | 1 | Otosclerosis | 1 | de Quervain's disease | 1 |
| Nephrolithiasis | 3 | Nasal septum deviation | 1 | Aural fistula | 1 | Pruritic urticaria-like papules | 1 |
| Lumbar disc hernia | 3 | Alveolar proteinosis | 1 | Piles | 1 | Anaphylactic shock | 1 |
| Hyperprolactinemia | 3 | Fibroadenoma of breast | 1 | Hemorrhoid | 1 | Vogt-Koyanagi-Harada disease | 1 |

^{*} Multiple responses are allowed.

[Table 12-1] Were you diagnosed with any disease or symptoms during the latest pregnancy? (Q.12)

| Region | Yes | | N | 0 | No or respo | Total | |
|-------------------|-------|-------|-------|-------|-------------|-------|-------|
| Kenpoku | 477 | 28.2% | 1,207 | 71.4% | 7 | 0.4% | 1,691 |
| Kenchu | 592 | 29.8% | 1,387 | 69.8% | 9 | 0.5% | 1,988 |
| Kennan | 124 | 25.1% | 367 | 74.1% | 4 | 0.8% | 495 |
| Soso | 116 | 27.5% | 305 | 72.3% | 1 | 0.2% | 422 |
| lwaki | 262 | 25.5% | 760 | 73.9% | 6 | 0.6% | 1,028 |
| Aizu | 273 | 33.7% | 536 | 66.1% | 2 | 0.2% | 811 |
| Minamiaizu | 22 | 39.3% | 34 | 60.7% | 0 | 0.0% | 56 |
| Outside Fukushima | 26 | 29.2% | 63 | 70.8% | 0 | 0.0% | 89 |
| Total | 1,892 | 28.8% | 4,659 | 70.8% | 29 | 0.4% | 6,580 |

| Region | Incidend disea | : : | Valid responses |
|------------|-------------------|--------|-----------------|
| Kenpoku | 477 | 1,684 | |
| Kenchu | 592 | 29.9% | 1,979 |
| Kennan | 124 | 25.3% | 491 |
| Soso | 116 | 27.6% | 421 |
| lwaki | 262 | 25.6% | 1,022 |
| Aizu | 273 | 33.7% | 809 |
| Minamiaizu | 22 | 39.3% | 56 |
| Outside | 26 | 29.2% | 89 |
| Fukushima | 20 | 20.270 | 00 |
| Total | 1,892 | 28.9% | 6,551 |

¹⁾ The denominator for calculating incidences is the number of valid responses (total number of responses of "Yes" and "No").

[Table 12-2] Incidence of each disease

| Region | prei | eatened mature livery | | atened arriage | | tational ibetes | | ational tension | | ctious ases ¹⁾ | Oligoh | ydramnios | | nature ivery |
|----------------------|------|-----------------------------|-----|-------------------|-----|--------------------|-----|--------------------|-----|------------------------------|--------|-----------|----|-----------------|
| Kenpoku | 216 | 12.8% | 129 | 7.7% | 67 | 4.0% | 59 | 3.5% | 41 | 2.4% | 21 | 1.2% | 19 | 1.1% |
| Kenchu | 237 | 12.0% | 124 | 6.3% | 87 | 4.4% | 71 | 3.6% | 61 | 3.1% | 57 | 2.9% | 19 | 1.0% |
| Kennan | 45 | 9.2% | 23 | 4.7% | 15 | 3.1% | 20 | 4.1% | 14 | 2.9% | 5 | 1.0% | 8 | 1.6% |
| Soso | 47 | 11.2% | 26 | 6.2% | 17 | 4.0% | 19 | 4.5% | 8 | 1.9% | 4 | 1.0% | 2 | 0.5% |
| Iwaki | 104 | 10.2% | 65 | 6.4% | 24 | 2.3% | 49 | 4.8% | 19 | 1.9% | 26 | 2.5% | 12 | 1.2% |
| Aizu | 119 | 14.7% | 89 | 11.0% | 41 | 5.1% | 23 | 2.8% | 38 | 4.7% | 8 | 1.0% | 13 | 1.6% |
| Minamiaizu | 9 | 16.1% | 13 | 23.2% | 2 | 3.6% | 2 | 3.6% | 3 | 5.4% | 1 | 1.8% | 3 | 5.4% |
| Outside Fukushima | 15 | 16.9% | 3 | 3.4% | 3 | 3.4% | 2 | 2.2% | 1 | 1.1% | 1 | 1.1% | 0 | 0.0% |
| Total | 792 | 12.1% | 472 | 7.2% | 256 | 3.9% | 245 | 3.7% | 185 | 2.8% | 123 | 1.9% | 76 | 1.2% |

| Region | | centa evia | Hydra | mnios | a an n | somnia, nxiety, id other nental oblems | Misc | carriage | In | jury | Thron | nbosis ²⁾ | Ot | her | Valid responses |
|----------------------|----|---------------|-------|-------|--------------|--|------|----------|----|------|-------|----------------------|-----|------|--------------------|
| Kenpoku | 20 | 1.2% | 4 | 0.2% | 10 | 0.6% | 2 | 0.1% | 0 | 0.0% | 1 | 0.1% | 50 | 3.0% | 1,684 |
| Kenchu | 24 | 1.2% | 19 | 1.0% | 8 | 0.4% | 1 | 0.1% | 3 | 0.2% | 1 | 0.1% | 49 | 2.5% | 1,979 |
| Kennan | 6 | 1.2% | 2 | 0.4% | 5 | 1.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 16 | 3.3% | 491 |
| Soso | 5 | 1.2% | 2 | 0.5% | 2 | 0.5% | 1 | 0.2% | 0 | 0.0% | 0 | 0.0% | 8 | 1.9% | 421 |
| lwaki | 10 | 1.0% | 4 | 0.4% | 5 | 0.5% | 1 | 0.1% | 0 | 0.0% | 0 | 0.0% | 26 | 2.5% | 1,022 |
| Aizu | 10 | 1.2% | 4 | 0.5% | 4 | 0.5% | 0 | 0.0% | 0 | 0.0% | 1 | 0.1% | 24 | 3.0% | 809 |
| Minamiaizu | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 1 | 1.8% | 56 |
| Outside Fukushima | 0 | 0.0% | 1 | 1.1% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 1 | 1.1% | 89 |
| Total | 75 | 1.1% | 36 | 0.5% | 34 | 0.5% | 5 | 0.1% | 3 | 0.0% | 3 | 0.0% | 175 | 2.7% | 6,551 |

¹⁾ Pneumonia, influenza, tetanus, etc.; 2) Thrombosis (economy-class syndrome) and pulmonic embolism;

[Table 12-3] Breakdown of specific diseases and symptoms included in "Other" for the respondents who responded "Yes" to Question 12

| | | | | (IV | ullipi | e responses are allowed | ·. <i>)</i> |
|---|----|-------------------------------------|---|----------------------------|--------|-----------------------------------|-------------|
| Uterine fibroid | 28 | Ulcerative colitis | 3 | Protein someone deficiency | 1 | Threatened rupture of the uterus | 1 |
| Asthma | 19 | Bronchitis | 2 | Bell's palsy | 1 | Sacroiliitis | 1 |
| Ovarian tumor | 12 | Blood type incompatible pregnancy | 2 | Meniere's disease | 1 | Cholestasis | 1 |
| Endocervical polyp | 9 | Hypothyroidism | 2 | Sensorineural hearing loss | 1 | Iliopsoas muscle abscess | 1 |
| Prurigo gestationis | 8 | Uterine ptosis | 2 | Rheumatoid arthritis | 1 | Infectious mononucleosis | 1 |
| Sinusitis | 8 | Endometriosis | 2 | Facial paralysis | 1 | Pregestational diabetes mellitus | 1 |
| Varicose vein | 6 | Pyelonephritis | 2 | Acute cholecystitis | 1 | Hearing loss | 1 |
| Cervical intraepithelial neoplasm | 4 | Twin-to-twin transfusion syndrome | 2 | Ischemic enteritis | 1 | Gestational thrombocytopenia | 1 |
| Premature separation of the normally implanted placenta | 4 | Appendicitis | 2 | Thyroid disease | 1 | Brain tumor | 1 |
| Shingles | 4 | Idiopathic thrombocytopenic purpura | 2 | Thyroid gland enlargement | 1 | Septicemia | 1 |
| Irregular heartbeat | 4 | Ureterolithiasis | 2 | Uterine adenomyosis | 1 | Abdominal wall hernia | 1 |
| Condyloma | 3 | Hives | 2 | Uterine prolapse | 1 | Choroiditis | 1 |
| Graves' disease | 3 | IgA nephropathy | 1 | Patulous Eustachian tube | 1 | Placenta accreta | 1 |
| Cervical incompetence | 3 | Viral gastroenteritis | 1 | Nephrolithiasis | 1 | Ovarian hyperstimulation syndrome | 1 |
| Cervical cancer | 3 | Bartholin's gland cyst | 1 | Hydronephrosis | 1 | Wart | 1 |

[Table 12-4] Mothers who gave birth after 12 weeks (4 months) of pregnancy or later

| Region | Single | births | Twin | births | No or respo | | Total |
|-------------------|--------|--------|------|--------|-------------|------|-------|
| Kenpoku | 1,669 | 99.1% | 15 | 0.9% | 0 | 0.0% | 1,684 |
| Kenchu | 1,964 | 99.1% | 17 | 0.9% | 0 | 0.0% | 1,981 |
| Kennan | 487 | 98.6% | 7 | 1.4% | 0 | 0.0% | 494 |
| Soso | 418 | 99.8% | 1 | 0.2% | 0 | 0.0% | 419 |
| lwaki | 1,015 | 99.2% | 8 | 0.8% | 0 | 0.0% | 1,023 |
| Aizu | 799 | 98.8% | 10 | 1.2% | 0 | 0.0% | 809 |
| Minamiaizu | 55 | 98.2% | 1 | 1.8% | 0 | 0.0% | 56 |
| Outside Fukushima | 89 | 100.0% | 0 | 0.0% | 0 | 0.0% | 89 |
| Total | 6,496 | 99.1% | 59 | 0.9% | 0 | 0.0% | 6,555 |

The denominator for calculating incidences is the number of respondents who responded "Yes" or "No" to Question 12 (6,551). As multiple responses are allowed, the incidences may not be 100.0%.

[Table 13-1] How many weeks pregnant were you when you gave birth? (Single births) (Q.13)

| Region | | to 21 eeks | | to 23 eeks | | to 27 eeks | | to 31 eeks | | to 36 eks | 37 to 4 | 11 weeks | | eeks or onger | Total |
|----------------------|----|---------------|---|---------------|----|---------------|----|---------------|-----|--------------|---------|----------|----|------------------|-------|
| Kenpoku | 5 | 0.3% | 0 | 0.0% | 6 | 0.4% | 8 | 0.5% | 61 | 3.7% | 1,586 | 95.0% | 3 | 0.2% | 1,669 |
| Kenchu | 3 | 0.2% | 2 | 0.1% | 4 | 0.2% | 14 | 0.7% | 75 | 3.8% | 1,864 | 94.9% | 2 | 0.1% | 1,964 |
| Kennan | 0 | 0.0% | 0 | 0.0% | 1 | 0.2% | 5 | 1.0% | 20 | 4.1% | 459 | 94.3% | 2 | 0.4% | 487 |
| Soso | 2 | 0.5% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 7 | 1.7% | 408 | 97.6% | 1 | 0.2% | 418 |
| lwaki | 3 | 0.3% | 1 | 0.1% | 3 | 0.3% | 8 | 0.8% | 37 | 3.6% | 959 | 94.5% | 4 | 0.4% | 1,015 |
| Aizu | 0 | 0.0% | 1 | 0.1% | 2 | 0.3% | 4 | 0.5% | 29 | 3.6% | 762 | 95.4% | 1 | 0.1% | 799 |
| Minamiaizu | 0 | 0.0% | 1 | 1.8% | 1 | 1.8% | 1 | 1.8% | 4 | 7.3% | 48 | 87.3% | 0 | 0.0% | 55 |
| Outside Fukushima | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 89 | 100.0% | 0 | 0.0% | 89 |
| Total | 13 | 0.2% | 5 | 0.1% | 17 | 0.3% | 40 | 0.6% | 233 | 3.6% | 6,175 | 95.1% | 13 | 0.2% | 6,496 |

Among Tables 13-2 to 14-28, in those where the first babies and second babies of twins were separately tabulated, data include miscarriages of second babies after 12 weeks of pregnancy or later. Accordingly, the number of weeks does not double between that for first babies and that for second babies.

[Table 13-2] How many weeks pregnant were you when you gave birth? (Twin births) (Q.13)

| Region | | to 21 eeks | | to 23 eeks | _ | 4 to 27 weeks | | to 31 eeks | | 2 to 36 /eeks | | to 41 eeks | | eeks or nger | Total |
|----------------------|---|---------------|---|---------------|---|------------------|---|---------------|----|------------------|----|---------------|---|-----------------|-------|
| Kenpoku | 0 | 0.0% | 0 | 0.0% | 2 | 6.7% | 0 | 0.0% | 12 | 40.0% | 14 | 46.7% | 2 | 6.7% | 30 |
| Kenchu | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 14 | 41.2% | 20 | 58.8% | 0 | 0.0% | 34 |
| Kennan | 1 | 7.1% | 0 | 0.0% | 0 | 0.0% | 2 | 14.3% | 2 | 14.3% | 9 | 64.3% | 0 | 0.0% | 14 |
| Soso | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 2 | 100.0% | 0 | 0.0% | 0 | 0.0% | 2 |
| Iwaki | 0 | 0.0% | 0 | 0.0% | 2 | 12.5% | 2 | 12.5% | 6 | 37.5% | 6 | 37.5% | 0 | 0.0% | 16 |
| Aizu | 1 | 5.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 6 | 30.0% | 13 | 65.0% | 0 | 0.0% | 20 |
| Minamiaizu | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 2 | 100.0% | 0 | 0.0% | 0 | 0.0% | 2 |
| Outside Fukushima | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 |
| Total | 2 | 1.7% | 0 | 0.0% | 4 | 3.4% | 4 | 3.4% | 44 | 37.3% | 62 | 52.5% | 2 | 1.7% | 118 |

[Table 13-3] Pregnancy duration and preterm birthrate: Single births and twin births

| | | Pregnanc | y duration | (single bir | ths and tv | vin births) | | | | Preterm birthrate ¹⁾ |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------------|-------|-------|--|
| Region | 12 to 21 weeks | 22 to 23 weeks | 24 to 27 weeks | 28 to 31 weeks | 32 to 36 weeks | 37 to 41 weeks | 42 weeks or longer | Total | weeks | (22 to 36 weeks) (Total-12 to 21 weeks) |
| Kenpoku | 5 | 0 | 8 | 8 | 73 | 1,600 | 5 | 1,699 | 89 | 5.3% |
| Kenchu | 3 | 2 | 4 | 14 | 89 | 1,884 | 2 | 1,998 | 109 | 5.5% |
| Kennan | 1 | 0 | 1 | 7 | 22 | 468 | 2 | 501 | 30 | 6.0% |
| Soso | 2 | 0 | 0 | 0 | 9 | 408 | 1 | 420 | 9 | 2.2% |
| lwaki | 3 | 1 | 5 | 10 | 43 | 965 | 4 | 1,031 | 59 | 5.7% |
| Aizu | 1 | 1 | 2 | 4 | 35 | 775 | 1 | 819 | 42 | 5.1% |
| Minamiaizu | 0 | 1 | 1 | 1 | 6 | 48 | 0 | 57 | 9 | 15.8% |
| Outside Fukushima | 0 | 0 | 0 | 0 | 0 | 89 | 0 | 89 | 0 | 0.0% |
| Total | 15 | 5 | 21 | 44 | 277 | 6,237 | 15 | 6,614 | 347 | 5.3% |

^{*} A preterm birth refers to a case where a baby is born between 22 and 36 weeks gestational age.

¹⁾ The denominator for calculating preterm birthrates is the number obtained by subtracting the number of births at less than 22 weeks gestational age (15) from the total number of births (6,614), which excludes cases where the number of fetuses was unknown, where pregnancy duration was unknown or where a baby was born at less than 12 weeks gestational age.

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| | | | | | | | | , | |
|-------------------|---------|----------|-----------------------------|----------|-----------------|-------|------------------|------|-------|
| Region | Natural | delivery | Vacı extraction deliv | /Forceps | Delivery by sec | | No or i respo | | Total |
| Kenpoku | 1,159 | 69.4% | 197 | 11.8% | 304 | 18.2% | 9 | 0.5% | 1,669 |
| Kenchu | 1,273 | 64.8% | 218 | 11.1% | 459 | 23.4% | 14 | 0.7% | 1,964 |
| Kennan | 316 | 64.9% | 74 | 15.2% | 96 | 19.7% | 1 | 0.2% | 487 |
| Soso | 230 | 55.0% | 90 | 21.5% | 95 | 22.7% | 3 | 0.7% | 418 |
| lwaki | 642 | 63.3% | 138 | 13.6% | 227 | 22.4% | 8 | 0.8% | 1,015 |
| Aizu | 495 | 62.0% | 99 | 12.4% | 201 | 25.2% | 4 | 0.5% | 799 |
| Minamiaizu | 28 | 50.9% | 9 | 16.4% | 18 | 32.7% | 0 | 0.0% | 55 |
| Outside Fukushima | 55 | 61.8% | 17 | 19.1% | 16 | 18.0% | 1 | 1.1% | 89 |
| Total | 4,198 | 64.6% | 842 | 13.0% | 1,416 | 21.8% | 40 | 0.6% | 6,496 |

[Table 13-5] Mode of delivery: Twin births; First babies (Q. 13)

| Region | Natural | delivery | Vacı extraction deliv | /Forceps | Delivery by sec | | No or i respo | | Total |
|-------------------|---------|----------|-----------------------------|----------|-----------------|--------|------------------|------|-------|
| Kenpoku | 0 | 0.0% | 1 | 6.7% | 14 | 93.3% | 0 | 0.0% | 15 |
| Kenchu | 2 | 11.8% | 0 | 0.0% | 15 | 88.2% | 0 | 0.0% | 17 |
| Kennan | 1 | 14.3% | 1 | 14.3% | 5 | 71.4% | 0 | 0.0% | 7 |
| Soso | 0 | 0.0% | 0 | 0.0% | 1 | 100.0% | 0 | 0.0% | 1 |
| Iwaki | 1 | 12.5% | 0 | 0.0% | 7 | 87.5% | 0 | 0.0% | 8 |
| Aizu | 1 | 10.0% | 0 | 0.0% | 9 | 90.0% | 0 | 0.0% | 10 |
| Minamiaizu | 0 | 0.0% | 0 | 0.0% | 1 | 100.0% | 0 | 0.0% | 1 |
| Outside Fukushima | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 |
| Total | 5 | 8.5% | 2 | 3.4% | 52 | 88.1% | 0 | 0.0% | 59 |

[Table 13-6] Mode of delivery: Twin births; Second babies (Q. 13)

| Region | Natural | delivery | Vacı extractior deliv | /Forceps | Delivery by sec | | No or i respo | | Total |
|-------------------|---------|----------|-----------------------------|----------|-----------------|--------|------------------|-------|-------|
| Kenpoku | 0 | 0.0% | 1 | 6.7% | 14 | 93.3% | 0 | 0.0% | 15 |
| Kenchu | 2 | 11.8% | 0 | 0.0% | 15 | 88.2% | 0 | 0.0% | 17 |
| Kennan | 0 | 0.0% | 1 | 14.3% | 5 | 71.4% | 1 | 14.3% | 7 |
| Soso | 0 | 0.0% | 0 | 0.0% | 1 | 100.0% | 0 | 0.0% | 1 |
| lwaki | 1 | 12.5% | 0 | 0.0% | 7 | 87.5% | 0 | 0.0% | 8 |
| Aizu | 0 | 0.0% | 0 | 0.0% | 9 | 90.0% | 1 | 10.0% | 10 |
| Minamiaizu | 0 | 0.0% | 0 | 0.0% | 1 | 100.0% | 0 | 0.0% | 1 |
| Outside Fukushima | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 |
| Total | 3 | 5.1% | 2 | 3.4% | 52 | 88.1% | 2 | 3.4% | 59 |

[Table 14-1] (Status of births) Babies' gender (Single births and twin births (first and second babies)) (Q.14)

| Region | Во | ys | Gir | ·ls | No or i | | Total |
|----------------------|-------|-------|-------|-------|---------|------|-------|
| Kenpoku | 874 | 51.4% | 794 | 46.7% | 31 | 1.8% | 1,699 |
| Kenchu | 983 | 49.2% | 969 | 48.5% | 46 | 2.3% | 1,998 |
| Kennan | 252 | 50.3% | 235 | 46.9% | 14 | 2.8% | 501 |
| Soso | 195 | 46.4% | 219 | 52.1% | 6 | 1.4% | 420 |
| lwaki | 502 | 48.7% | 509 | 49.4% | 20 | 1.9% | 1,031 |
| Aizu | 410 | 50.1% | 389 | 47.5% | 20 | 2.4% | 819 |
| Minamiaizu | 28 | 49.1% | 29 | 50.9% | 0 | 0.0% | 57 |
| Outside Fukushima | 44 | 49.4% | 44 | 49.4% | 1 | 1.1% | 89 |
| Total | 3,288 | 49.7% | 3,188 | 48.2% | 138 | 2.1% | 6,614 |

[Table 14-2] (Babies' weight) Single births; Overall (Q.14)

| Region | Less tha | ın 1.0kg | 1.0kg to I 1.5 | | 1.5kg to I 2.0 | | | less than 5kg | | less than Okg |
|-------------------|----------|----------|-------------------|------|-------------------|------|-----|------------------|-------|------------------|
| Kenpoku | 9 | 0.5% | 5 | 0.3% | 7 | 0.4% | 107 | 6.4% | 657 | 39.4% |
| Kenchu | 7 | 0.4% | 13 | 0.7% | 15 | 0.8% | 120 | 6.1% | 766 | 39.0% |
| Kennan | 1 | 0.2% | 2 | 0.4% | 7 | 1.4% | 28 | 5.7% | 190 | 39.0% |
| Soso | 1 | 0.2% | 0 | 0.0% | 1 | 0.2% | 31 | 7.4% | 148 | 35.4% |
| Iwaki | 8 | 0.8% | 3 | 0.3% | 6 | 0.6% | 72 | 7.1% | 383 | 37.7% |
| Aizu | 2 | 0.3% | 4 | 0.5% | 4 | 0.5% | 55 | 6.9% | 300 | 37.5% |
| Minamiaizu | 2 | 3.6% | 0 | 0.0% | 2 | 3.6% | 4 | 7.3% | 21 | 38.2% |
| Outside Fukushima | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 3 | 3.4% | 39 | 43.8% |
| Total | 30 | 0.5% | 27 | 0.4% | 42 | 0.6% | 420 | 6.5% | 2,504 | 38.5% |

| Region | 3.0kg to 3.5 | less than skg | 3.5kg to 4.0 | less than)kg | | less than 5kg | 4.5kg | or more | | r invalid oonses | Total |
|----------------------|-----------------|------------------|-----------------|------------------|----|------------------|-------|---------|----|---------------------|-------|
| Kenpoku | 701 | 42.0% | 165 | 9.9% | 11 | 0.7% | 1 | 0.1% | 6 | 0.4% | 1,669 |
| Kenchu | 834 | 42.5% | 187 | 9.5% | 13 | 0.7% | 2 | 0.1% | 7 | 0.4% | 1,964 |
| Kennan | 205 | 42.1% | 48 | 9.9% | 4 | 0.8% | 1 | 0.2% | 1 | 0.2% | 487 |
| Soso | 198 | 47.4% | 35 | 8.4% | 3 | 0.7% | 0 | 0.0% | 1 | 0.2% | 418 |
| lwaki | 430 | 42.4% | 100 | 9.9% | 9 | 0.9% | 2 | 0.2% | 2 | 0.2% | 1,015 |
| Aizu | 347 | 43.4% | 78 | 9.8% | 8 | 1.0% | 0 | 0.0% | 1 | 0.1% | 799 |
| Minamiaizu | 23 | 41.8% | 3 | 5.5% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 55 |
| Outside Fukushima | 36 | 40.4% | 11 | 12.4% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 89 |
| Total | 2,774 | 42.7% | 627 | 9.7% | 48 | 0.7% | 6 | 0.1% | 18 | 0.3% | 6,496 |

[Table 14-3] (Babies' weight) Single births; Boys (Q.14)

| Region | Less that | an 1.0kg | 1.0kg to 1 1.5 | | 1.5kg to l 2.0 | | 2.0 kg to 2.5 | | 2.5kg to I 3.0 | |
|-------------------|-----------|----------|-------------------|------|-------------------|------|------------------|------|-------------------|-------|
| Kenpoku | 2 | 0.2% | 4 | 0.5% | 3 | 0.4% | 48 | 5.6% | 322 | 37.7% |
| Kenchu | 4 | 0.4% | 4 | 0.4% | 9 | 0.9% | 59 | 6.1% | 342 | 35.5% |
| Kennan | 0 | 0.0% | 0 | 0.0% | 5 | 2.0% | 16 | 6.5% | 88 | 35.9% |
| Soso | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 14 | 7.3% | 57 | 29.5% |
| Iwaki | 1 | 0.2% | 2 | 0.4% | 2 | 0.4% | 30 | 6.1% | 160 | 32.6% |
| Aizu | 1 | 0.3% | 3 | 0.8% | 4 | 1.0% | 25 | 6.3% | 130 | 32.6% |
| Minamiaizu | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 1 | 3.7% | 12 | 44.4% |
| Outside Fukushima | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 18 | 40.9% |
| Total | 8 | 0.2% | 13 | 0.4% | 23 | 0.7% | 193 | 6.0% | 1,129 | 35.1% |

| Region | 3.0kg to 8 | | 3.5kg to l 4.0 | | 4.0kg to 4.5 | | 4.5kg o | r more | No or ir respor | | Total |
|-------------------|------------|-------|-------------------|-------|--------------|------|---------|--------|-----------------|------|-------|
| Kenpoku | 372 | 43.6% | 94 | 11.0% | 6 | 0.7% | 1 | 0.1% | 2 | 0.2% | 854 |
| Kenchu | 415 | 43.0% | 120 | 12.4% | 7 | 0.7% | 0 | 0.0% | 4 | 0.4% | 964 |
| Kennan | 103 | 42.0% | 31 | 12.7% | 2 | 0.8% | 0 | 0.0% | 0 | 0.0% | 245 |
| Soso | 104 | 53.9% | 16 | 8.3% | 2 | 1.0% | 0 | 0.0% | 0 | 0.0% | 193 |
| Iwaki | 227 | 46.2% | 61 | 12.4% | 6 | 1.2% | 1 | 0.2% | 1 | 0.2% | 491 |
| Aizu | 191 | 47.9% | 40 | 10.0% | 5 | 1.3% | 0 | 0.0% | 0 | 0.0% | 399 |
| Minamiaizu | 12 | 44.4% | 2 | 7.4% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 27 |
| Outside Fukushima | 19 | 43.2% | 7 | 15.9% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 44 |
| Total | 1,443 | 44.9% | 371 | 11.5% | 28 | 0.9% | 2 | 0.1% | 7 | 0.2% | 3,217 |

[Table 14-4] (Babies' weight) Single births; Girls (Q.14)

| Region | Less tha | an 1.0kg | | less than ikg | 1.5kg to 2.0 | | 2.0 kg to 2.5 | | 2.5kg to I 3.0 | |
|----------------------|----------|----------|----|------------------|-----------------|------|------------------|-------|-------------------|-------|
| Kenpoku | 7 | 0.9% | 1 | 0.1% | 4 | 0.5% | 59 | 7.5% | 327 | 41.7% |
| Kenchu | 3 | 0.3% | 9 | 0.9% | 6 | 0.6% | 59 | 6.2% | 411 | 43.0% |
| Kennan | 1 | 0.4% | 2 | 0.9% | 2 | 0.9% | 11 | 4.8% | 98 | 42.6% |
| Soso | 1 | 0.5% | 0 | 0.0% | 1 | 0.5% | 17 | 7.8% | 89 | 40.6% |
| Iwaki | 7 | 1.4% | 1 | 0.2% | 4 | 0.8% | 42 | 8.3% | 217 | 43.1% |
| Aizu | 1 | 0.3% | 1 | 0.3% | 0 | 0.0% | 28 | 7.3% | 163 | 42.8% |
| Minamiaizu | 2 | 7.1% | 0 | 0.0% | 2 | 7.1% | 3 | 10.7% | 9 | 32.1% |
| Outside Fukushima | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 3 | 6.8% | 20 | 45.5% |
| Total | 22 | 0.7% | 14 | 0.4% | 19 | 0.6% | 222 | 7.1% | 1,334 | 42.4% |

| Region | 3.0kg to 1 3.5 | | 3.5kg to I 4.0 | | 4.0kg to I 4.5 | | 4.5kg c | or more | No or i | | Total |
|-------------------|-------------------|-------|-------------------|------|-------------------|------|---------|---------|---------|------|-------|
| Kenpoku | 311 | 39.6% | 69 | 8.8% | 5 | 0.6% | 0 | 0.0% | 2 | 0.3% | 785 |
| Kenchu | 398 | 41.7% | 61 | 6.4% | 6 | 0.6% | 2 | 0.2% | 0 | 0.0% | 955 |
| Kennan | 96 | 41.7% | 16 | 7.0% | 2 | 0.9% | 1 | 0.4% | 1 | 0.4% | 230 |
| Soso | 92 | 42.0% | 18 | 8.2% | 1 | 0.5% | 0 | 0.0% | 0 | 0.0% | 219 |
| Iwaki | 193 | 38.3% | 37 | 7.3% | 2 | 0.4% | 1 | 0.2% | 0 | 0.0% | 504 |
| Aizu | 149 | 39.1% | 36 | 9.4% | 3 | 0.8% | 0 | 0.0% | 0 | 0.0% | 381 |
| Minamiaizu | 11 | 39.3% | 1 | 3.6% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 28 |
| Outside Fukushima | 17 | 38.6% | 4 | 9.1% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 44 |
| Total | 1,267 | 40.3% | 242 | 7.7% | 19 | 0.6% | 4 | 0.1% | 3 | 0.1% | 3,146 |

[Table 14-5] (Babies' weight) Twin births; Overall (Q.14)

| Region | | s than .0kg | _ | than 1.5kg | | g to less n 2.0kg | | g to less n 2.5kg | | g to less n 3.0kg | | to less 3.5kg | | invalid onses | Total |
|----------------------|---|----------------|---|------------|----|----------------------|----|----------------------|----|----------------------|---|------------------|---|------------------|-------|
| Kenpoku | 2 | 6.7% | 1 | 3.3% | 4 | 13.3% | 13 | 43.3% | 10 | 33.3% | 0 | 0.0% | 0 | 0.0% | 30 |
| Kenchu | 0 | 0.0% | 0 | 0.0% | 1 | 2.9% | 25 | 73.5% | 7 | 20.6% | 1 | 2.9% | 0 | 0.0% | 34 |
| Kennan | 1 | 7.1% | 1 | 7.1% | 0 | 0.0% | 7 | 50.0% | 4 | 28.6% | 0 | 0.0% | 1 | 7.1% | 14 |
| Soso | 0 | 0.0% | 0 | 0.0% | 1 | 50.0% | 1 | 50.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 2 |
| Iwaki | 2 | 12.5% | 0 | 0.0% | 8 | 50.0% | 5 | 31.3% | 1 | 6.3% | 0 | 0.0% | 0 | 0.0% | 16 |
| Aizu | 1 | 5.0% | 0 | 0.0% | 2 | 10.0% | 8 | 40.0% | 8 | 40.0% | 0 | 0.0% | 1 | 5.0% | 20 |
| Minamiaizu | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 2 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 2 |
| Outside Fukushima | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 |
| Total | 6 | 5.1% | 2 | 1.7% | 16 | 13.6% | 61 | 51.7% | 30 | 25.4% | 1 | 0.8% | 2 | 1.7% | 118 |

[Table 14-6] (Babies' weight) Twin births; Boys (Q.14)

| Region | | s than .0kg | 9 | 1.0kg to less than 1.5kg | | to less 2.0kg | | kg to less an 2.5kg | | to less 3.0kg | _ | to less 3.5kg | | invalid onses | Total |
|----------------------|---|----------------|---|-----------------------------|----|------------------|----|------------------------|----|------------------|---|------------------|---|------------------|-------|
| Kenpoku | 2 | 10.0% | 1 | 5.0% | 3 | 15.0% | 8 | 40.0% | 6 | 30.0% | 0 | 0.0% | 0 | 0.0% | 20 |
| Kenchu | 0 | 0.0% | 0 | 0.0% | 1 | 5.3% | 14 | 73.7% | 3 | 15.8% | 1 | 5.3% | 0 | 0.0% | 19 |
| Kennan | 1 | 14.3% | 1 | 14.3% | 0 | 0.0% | 2 | 28.6% | 3 | 42.9% | 0 | 0.0% | 0 | 0.0% | 7 |
| Soso | 0 | 0.0% | 0 | 0.0% | 1 | 50.0% | 1 | 50.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 2 |
| Iwaki | 0 | 0.0% | 0 | 0.0% | 7 | 63.6% | 4 | 36.4% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 11 |
| Aizu | 1 | 9.1% | 0 | 0.0% | 0 | 0.0% | 4 | 36.4% | 6 | 54.5% | 0 | 0.0% | 0 | 0.0% | 11 |
| Minamiaizu | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 1 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 1 |
| Outside Fukushima | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 |
| Total | 4 | 5.6% | 2 | 2.8% | 12 | 16.9% | 34 | 47.9% | 18 | 25.4% | 1 | 1.4% | 0 | 0.0% | 71 |

[Table 14-7] (Babies' weight) Twin births; Girls (Q.14)

| Region | | s than .0kg | U | to less 1.5kg | | to less 2.0kg | , | g to less n 2.5kg | | g to less n 3.0kg | | to less 3.5kg | | invalid onses | Total |
|----------------------|---|----------------|---|------------------|---|------------------|----|----------------------|----|----------------------|---|------------------|---|------------------|-------|
| Kenpoku | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 5 | 55.6% | 4 | 44.4% | 0 | 0.0% | 0 | 0.0% | 9 |
| Kenchu | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 10 | 71.4% | 4 | 28.6% | 0 | 0.0% | 0 | 0.0% | 14 |
| Kennan | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 4 | 80.0% | 1 | 20.0% | 0 | 0.0% | 0 | 0.0% | 5 |
| Soso | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 |
| Iwaki | 2 | 40.0% | 0 | 0.0% | 1 | 20.0% | 1 | 20.0% | 1 | 20.0% | 0 | 0.0% | 0 | 0.0% | 5 |
| Aizu | 0 | 0.0% | 0 | 0.0% | 2 | 25.0% | 4 | 50.0% | 2 | 25.0% | 0 | 0.0% | 0 | 0.0% | 8 |
| Minamiaizu | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 1 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 1 |
| Outside Fukushima | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 |
| Total | 2 | 4.8% | 0 | 0.0% | 3 | 7.1% | 25 | 59.5% | 12 | 28.6% | 0 | 0.0% | 0 | 0.0% | 42 |

[Table 14-8] Babies' weight: Single births/Twin births (Q.14)

Excluding 20 respondents who made no or invalid responses regarding whether they had a single birth or twin birth

| Region | Less than 1.0kg | 1.0kg to less than 1.5kg | 1.5kg to less than 2.0kg | 2.0 kg to less than 2.5kg | 2.5kg to less than 3.0kg | 3.0kg to less than 3.5kg | 3.5kg to less than 4.0kg | 4.0kg to less than 4.5kg | 4.5kg or more | Total | Low birth-weight babies | Percentage of low birth-weight babies |
|----------------------|-----------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|---------------|-------|----------------------------|---------------------------------------|
| Kenpoku | 11 | 6 | 11 | 120 | 667 | 701 | 165 | 11 | 1 | 1,693 | 148 | 8.7% |
| Kenchu | 7 | 13 | 16 | 145 | 773 | 835 | 187 | 13 | 2 | 1,991 | 181 | 9.1% |
| Kennan | 2 | 3 | 7 | 35 | 194 | 205 | 48 | 4 | 1 | 499 | 47 | 9.4% |
| Soso | 1 | 0 | 2 | 32 | 148 | 198 | 35 | 3 | 0 | 419 | 35 | 8.4% |
| lwaki | 10 | 3 | 14 | 77 | 384 | 430 | 100 | 9 | 2 | 1,029 | 104 | 10.1% |
| Aizu | 3 | 4 | 6 | 63 | 308 | 347 | 78 | 8 | 0 | 817 | 76 | 9.3% |
| Minamiaizu | 2 | 0 | 2 | 6 | 21 | 23 | 3 | 0 | 0 | 57 | 10 | 17.5% |
| Outside Fukushima | 0 | 0 | 0 | 3 | 39 | 36 | 11 | 0 | 0 | 89 | 3 | 3.4% |
| Total | 36 | 29 | 58 | 481 | 2,534 | 2,775 | 627 | 48 | 6 | 6,594 | 604 | 9.2% |

^{*} A low birthweight baby refers to a newborn whose weight is 2.5kg or less.

[Table 14-9] (Babies' height) Single births; Overall (Q.14)

| Dogion | Shorter tha | n 17am | 47cm to sho | rter than | 48cm to sho | rter than | 49cm to sho | rter than | 50cm to sho | rter than |
|-------------------|-------------|----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| Region | Shorter tha | an 47 cm | 48cr | n | 49cr | n | 50cr | n | 51cr | n |
| Kenpoku | 186 | 11.1% | 177 | 10.6% | 272 | 16.3% | 336 | 20.1% | 360 | 21.6% |
| Kenchu | 221 | 11.3% | 180 | 9.2% | 295 | 15.0% | 397 | 20.2% | 462 | 23.5% |
| Kennan | 39 | 8.0% | 29 | 6.0% | 68 | 14.0% | 101 | 20.7% | 117 | 24.0% |
| Soso | 46 | 11.0% | 37 | 8.9% | 71 | 17.0% | 85 | 20.3% | 97 | 23.2% |
| Iwaki | 103 | 10.1% | 98 | 9.7% | 156 | 15.4% | 210 | 20.7% | 200 | 19.7% |
| Aizu | 108 | 13.5% | 86 | 10.8% | 127 | 15.9% | 197 | 24.7% | 156 | 19.5% |
| Minamiaizu | 10 | 18.2% | 5 | 9.1% | 14 | 25.5% | 9 | 16.4% | 8 | 14.5% |
| Outside Fukushima | 7 | 7.9% | 3 | 3.4% | 12 | 13.5% | 19 | 21.3% | 24 | 27.0% |
| Total | 720 | 11.1% | 615 | 9.5% | 1,015 | 15.6% | 1,354 | 20.8% | 1,424 | 21.9% |

| Region | 51cm to sh 52d | | 52cm o | r more | No or respo | | Total |
|-------------------|-------------------|-------|--------|--------|-------------|------|-------|
| Kenpoku | 207 | 12.4% | 122 | 7.3% | 9 | 0.5% | 1,669 |
| Kenchu | 250 | 12.7% | 151 | 7.7% | 8 | 0.4% | 1,964 |
| Kennan | 79 | 16.2% | 53 | 10.9% | 1 | 0.2% | 487 |
| Soso | 45 | 10.8% | 34 | 8.1% | 3 | 0.7% | 418 |
| lwaki | 135 | 13.3% | 104 | 10.2% | 9 | 0.9% | 1,015 |
| Aizu | 77 | 9.6% | 44 | 5.5% | 4 | 0.5% | 799 |
| Minamiaizu | 6 | 10.9% | 3 | 5.5% | 0 | 0.0% | 55 |
| Outside Fukushima | 14 | 15.7% | 10 | 11.2% | 0 | 0.0% | 89 |
| Total | 813 | 12.5% | 521 | 8.0% | 34 | 0.5% | 6,496 |

[Table 14-10] (Babies' height) Single births; Boys (Q.14)

| Region | Shorter that | norter than 47cm | | horter than Bcm | 48cm to sh 49 | | 49cm to sh | | 50cm to sh 51c | |
|-------------------|--------------|------------------|-----|--------------------|------------------|-------|------------|-------|-------------------|-------|
| Kenpoku | 79 | 9.3% | 73 | 8.5% | 126 | 14.8% | 174 | 20.4% | 201 | 23.5% |
| Kenchu | 90 | 9.3% | 69 | 7.2% | 147 | 15.2% | 195 | 20.2% | 229 | 23.8% |
| Kennan | 19 | 7.8% | 12 | 4.9% | 40 | 16.3% | 35 | 14.3% | 62 | 25.3% |
| Soso | 18 | 9.3% | 12 | 6.2% | 32 | 16.6% | 38 | 19.7% | 51 | 26.4% |
| lwaki | 34 | 6.9% | 34 | 6.9% | 66 | 13.4% | 101 | 20.6% | 112 | 22.8% |
| Aizu | 49 | 12.3% | 36 | 9.0% | 56 | 14.0% | 96 | 24.1% | 92 | 23.1% |
| Minamiaizu | 1 | 3.7% | 2 | 7.4% | 7 | 25.9% | 6 | 22.2% | 6 | 22.2% |
| Outside Fukushima | 2 | 4.5% | 1 | 2.3% | 4 | 9.1% | 7 | 15.9% | 14 | 31.8% |
| Total | 292 | 9.1% | 239 | 7.4% | 478 | 14.9% | 652 | 20.3% | 767 | 23.8% |

| Region | 51cm to sh 52d | | 52cm o | r more | No or respo | | Total |
|-------------------|-------------------|-------|--------|--------|-------------|------|-------|
| Kenpoku | 118 | 13.8% | 79 | 9.3% | 4 | 0.5% | 854 |
| Kenchu | 136 | 14.1% | 95 | 9.9% | 3 | 0.3% | 964 |
| Kennan | 45 | 18.4% | 32 | 13.1% | 0 | 0.0% | 245 |
| Soso | 20 | 10.4% | 20 | 10.4% | 2 | 1.0% | 193 |
| lwaki | 70 | 14.3% | 68 | 13.8% | 6 | 1.2% | 491 |
| Aizu | 40 | 10.0% | 27 | 6.8% | 3 | 0.8% | 399 |
| Minamiaizu | 4 | 14.8% | 1 | 3.7% | 0 | 0.0% | 27 |
| Outside Fukushima | 9 | 20.5% | 7 | 15.9% | 0 | 0.0% | 44 |
| Total | 442 | 13.7% | 329 | 10.2% | 18 | 0.6% | 3,217 |

[Table 14-11] (Babies' height) Single births; Girls (Q.14)

| Region | Shorter th | an 47cm | 47cm to shorter than 48cm | | 48cm to she 49c | | 49cm to she 50c | | 50cm to shorter than 51cm | |
|-------------------|------------|---------|------------------------------|-------|--------------------|-------|--------------------|-------|---------------------------|-------|
| Kenpoku | 104 | 13.2% | 101 | 12.9% | 140 | 17.8% | 159 | 20.3% | 153 | 19.5% |
| Kenchu | 129 | 13.5% | 109 | 11.4% | 142 | 14.9% | 193 | 20.2% | 225 | 23.6% |
| Kennan | 18 | 7.8% | 17 | 7.4% | 27 | 11.7% | 63 | 27.4% | 50 | 21.7% |
| Soso | 27 | 12.3% | 25 | 11.4% | 38 | 17.4% | 47 | 21.5% | 44 | 20.1% |
| lwaki | 68 | 13.5% | 64 | 12.7% | 89 | 17.7% | 103 | 20.4% | 86 | 17.1% |
| Aizu | 55 | 14.4% | 48 | 12.6% | 69 | 18.1% | 98 | 25.7% | 59 | 15.5% |
| Minamiaizu | 9 | 32.1% | 3 | 10.7% | 7 | 25.0% | 3 | 10.7% | 2 | 7.1% |
| Outside Fukushima | 5 | 11.4% | 2 | 4.5% | 7 | 15.9% | 12 | 27.3% | 10 | 22.7% |
| Total | 415 | 13.2% | 369 | 11.7% | 519 | 16.5% | 678 | 21.6% | 629 | 20.0% |

| Region | 51cm to sh 52d | | 52cm c | or more | No or respo | | Total |
|-------------------|-------------------|-------|--------|---------|-------------|------|-------|
| Kenpoku | 85 | 10.8% | 40 | 5.1% | 3 | 0.4% | 785 |
| Kenchu | 105 | 11.0% | 51 | 5.3% | 1 | 0.1% | 955 |
| Kennan | 33 | 14.3% | 21 | 9.1% | 1 | 0.4% | 230 |
| Soso | 24 | 11.0% | 14 | 6.4% | 0 | 0.0% | 219 |
| lwaki | 59 | 11.7% | 33 | 6.5% | 2 | 0.4% | 504 |
| Aizu | 36 | 9.4% | 16 | 4.2% | 0 | 0.0% | 381 |
| Minamiaizu | 2 | 7.1% | 2 | 7.1% | 0 | 0.0% | 28 |
| Outside Fukushima | 5 | 11.4% | 3 | 6.8% | 0 | 0.0% | 44 |
| Total | 349 | 11.1% | 180 | 5.7% | 7 | 0.2% | 3,146 |

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[Table 14-12] (Babies' height) Twin births; Overall (Q.14)

| Region | | rter than l4cm | sho | lcm to rter than l5cm | | 45cm to orter than 46cm | sho | Scm to rter than 17cm | shor | cm to ter than l8cm | sho | 8cm to rter than 49cm | | cm or nore | No or respo | | Total |
|-------------------|----|-------------------|-----|-----------------------------|----|-------------------------------|-----|-----------------------------|------|---------------------------|-----|-----------------------------|----|---------------|-------------|-----------|-------|
| Kenpoku | 7 | 23.3% | 3 | 10.0% | 4 | 13.3% | 5 | 16.7% | 3 | 10.0% | 5 | 16.7% | 3 | 10.0 % | 0 | 0.0% | 30 |
| Kenchu | 4 | 11.8% | 7 | 20.6% | 9 | 26.5% | 7 | 20.6% | 2 | 5.9% | 1 | 2.9% | 4 | 11.8 % | 0 | 0.0% | 34 |
| Kennan | 2 | 14.3% | 0 | 0.0% | 1 | 7.1% | 5 | 35.7% | 2 | 14.3% | 2 | 14.3% | 1 | 7.1% | 1 | 7.1% | 14 |
| Soso | 2 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 2 |
| lwaki | 10 | 62.5% | 1 | 6.3% | 2 | 12.5% | 1 | 6.3% | 1 | 6.3% | 0 | 0.0% | 1 | 6.3% | 0 | 0.0% | 16 |
| Aizu | 3 | 15.0% | 0 | 0.0% | 1 | 5.0% | 3 | 15.0% | 4 | 20.0% | 2 | 10.0% | 5 | 25.0 % | 2 | 10.0 % | 20 |
| Minamiaizu | 0 | 0.0% | 0 | 0.0% | 2 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 2 |
| 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% | 0 |
| Total | 28 | 23.7% | 11 | 9.3% | 19 | 16.1% | 21 | 17.8% | 12 | 10.2% | 10 | 8.5% | 14 | 11.9 % | 3 | 2.5% | 118 |

[Table 14-13] (Babies' height) Twin births; Boys (Q.14)

| Region | | rter than l4cm | sho | 4cm to rter than 45cm | shor | icm to ter than l6cm | shor | cm to ter than 7cm | shor | cm to ter than 8cm | shor | cm to ter than 9cm | | 9cm or more | | r invalid oonses | Total |
|-------------------|----|-------------------|-----|-----------------------------|------|----------------------------|------|--------------------------|------|--------------------------|------|--------------------------|---|----------------|---|---------------------|-------|
| Kenpoku | 6 | 30.0% | 3 | 15.0% | 2 | 10.0% | 3 | 15.0% | 0 | 0.0% | 4 | 20.0% | 2 | 10.0% | 0 | 0.0% | 20 |
| Kenchu | 2 | 10.5% | 4 | 21.1% | 6 | 31.6% | 3 | 15.8% | 2 | 10.5% | 0 | 0.0% | 2 | 10.5% | 0 | 0.0% | 19 |
| Kennan | 2 | 28.6% | 0 | 0.0% | 0 | 0.0% | 2 | 28.6% | 1 | 14.3% | 1 | 14.3% | 1 | 14.3% | 0 | 0.0% | 7 |
| Soso | 2 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 2 |
| Iwaki | 7 | 63.6% | 1 | 9.1% | 1 | 9.1% | 1 | 9.1% | 1 | 9.1% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 11 |
| Aizu | 1 | 9.1% | 0 | 0.0% | 1 | 9.1% | 2 | 18.2% | 1 | 9.1% | 2 | 18.2% | 3 | 27.3% | 1 | 9.1% | 11 |
| Minamiaizu | 0 | 0.0% | 0 | 0.0% | 1 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 1 |
| 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% | 0 |
| Total | 20 | 28.2% | 8 | 11.3% | 11 | 15.5% | 11 | 15.5% | 5 | 7.0% | 7 | 9.9% | 8 | 11.3% | 1 | 1.4% | 71 |

[Table 14-14] (Babies' height) Twin births; Girls (Q.14)

| Region | | rter than 14cm | short | cm to er than 5cm | _ | to shorter n 46cm | _ | to shorter n 47cm | | shorter 48cm | - | shorter 49cm | 49cm (| or more | Total |
|-------------------|---|-------------------|-------|-------------------------|---|----------------------|---|----------------------|---|-----------------|---|-----------------|--------|---------|-------|
| Kenpoku | 0 | 0.0% | 0 | 0.0% | 2 | 22.2% | 2 | 22.2% | 3 | 33.3% | 1 | 11.1% | 1 | 11.1% | 9 |
| Kenchu | 2 | 14.3% | 3 | 21.4% | 3 | 21.4% | 4 | 28.6% | 0 | 0.0% | 0 | 0.0% | 2 | 14.3% | 14 |
| Kennan | 0 | 0.0% | 0 | 0.0% | 1 | 20.0% | 2 | 40.0% | 1 | 20.0% | 1 | 20.0% | 0 | 0.0% | 5 |
| Soso | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 |
| lwaki | 3 | 60.0% | 0 | 0.0% | 1 | 20.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 1 | 20.0% | 5 |
| Aizu | 2 | 25.0% | 0 | 0.0% | 0 | 0.0% | 1 | 12.5% | 3 | 37.5% | 0 | 0.0% | 2 | 25.0% | 8 |
| Minamiaizu | 0 | 0.0% | 0 | 0.0% | 1 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 1 |
| Outside Fukushima | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 |
| Total | 7 | 16.7% | 3 | 7.1% | 8 | 19.0% | 9 | 21.4% | 7 | 16.7% | 2 | 4.8% | 6 | 14.3% | 42 |

[Table 14-15] Babies born in a state of apparent death: Single births (Q.14)

| Region | Ye | es | Ne | 0 | No or i | | Total |
|----------------------|----|------|-------|--------|---------|------|-------|
| Kenpoku | 19 | 1.1% | 1,632 | 97.8% | 18 | 1.1% | 1,669 |
| Kenchu | 22 | 1.1% | 1,929 | 98.2% | 13 | 0.7% | 1,964 |
| Kennan | 7 | 1.4% | 478 | 98.2% | 2 | 0.4% | 487 |
| Soso | 3 | 0.7% | 413 | 98.8% | 2 | 0.5% | 418 |
| lwaki | 2 | 0.2% | 997 | 98.2% | 16 | 1.6% | 1,015 |
| Aizu | 11 | 1.4% | 779 | 97.5% | 9 | 1.1% | 799 |
| Minamiaizu | 0 | 0.0% | 55 | 100.0% | 0 | 0.0% | 55 |
| Outside Fukushima | 1 | 1.1% | 87 | 97.8% | 1 | 1.1% | 89 |
| Total | 65 | 1.0% | 6,370 | 98.1% | 61 | 0.9% | 6,496 |

[Table 14-16] Whether resuscitation was attempted: Single births

Only 65 respondents whose babies were born in a state of apparent death

| | | • | , | p | | | | | apparent ae |
|------------|-------|-----------|---|-------|-------|-------|------------------|-------|-------------|
| Region | Attem | Attempted | | mpted | Don't | know | No or i respo | | Total |
| Kenpoku | 17 | 89.5% | 0 | 0.0% | 1 | 5.3% | 1 | 5.3% | 19 |
| Kenchu | 19 | 86.4% | 3 | 13.6% | 0 | 0.0% | 0 | 0.0% | 22 |
| Kennan | 3 | 42.9% | 1 | 14.3% | 2 | 28.6% | 1 | 14.3% | 7 |
| Soso | 2 | 66.7% | 1 | 33.3% | 0 | 0.0% | 0 | 0.0% | 3 |
| lwaki | 1 | 50.0% | 0 | 0.0% | 1 | 50.0% | 0 | 0.0% | 2 |
| Aizu | 7 | 63.6% | 1 | 9.1% | 3 | 27.3% | 0 | 0.0% | 11 |
| Minamiaizu | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 |
| Outside | 1 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 1 |
| Fukushima | | | | | | | | | |
| Total | 50 | 76.9% | 6 | 9.2% | 7 | 10.8% | 2 | 3.1% | 65 |

[Table 14-17] Babies born in a state of apparent death: Twin births; First babies

| Region | Yes | No | No or invalid responses | Total |
|------------|-----|----|-------------------------|-------|
| Kenpoku | 1 | 14 | 0 | 15 |
| Kenchu | 1 | 16 | 0 | 17 |
| Kennan | 0 | 7 | 0 | 7 |
| Soso | 0 | 1 | 0 | 1 |
| lwaki | 0 | 8 | 0 | 8 |
| Aizu | 0 | 10 | 0 | 10 |
| Minamiaizu | 0 | 1 | 0 | 1 |
| Outside | 0 | 0 | 0 | 0 |
| Fukushima | 0 | U | | U |
| Total | 2 | 57 | 0 | 59 |

[Table 14-18] Whether resuscitation was attempted: Twin births; First babies

Only regarding 2 respondents whose babies were born in a state of apparent death

| Region | Attempted | Not Attempted | Don't know | Total |
|------------|-----------|------------------|------------|-------|
| Kenpoku | 1 | 0 | 0 | 1 |
| Kenchu | 0 | 0 | 1 | 1 |
| Kennan | 0 | 0 | 0 | 0 |
| Soso | 0 | 0 | 0 | 0 |
| lwaki | 0 | 0 | 0 | 0 |
| Aizu | 0 | 0 | 0 | 0 |
| Minamiaizu | 0 | 0 | 0 | 0 |
| Outside | 0 | 0 | 0 | 0 |
| Fukushima | | | | |
| Total | 1 | 0 | 1 | 2 |

[Table 14-19] Babies born in a state of apparent death: Twin births; Second babies

| Region | Yes | No | No or invalid responses | Total |
|------------|-----|----|-------------------------|-------|
| Kenpoku | 0 | 15 | 0 | 15 |
| Kenchu | 1 | 15 | 1 | 17 |
| Kennan | 0 | 6 | 1 | 7 |
| Soso | 0 | 1 | 0 | 1 |
| lwaki | 0 | 8 | 0 | 8 |
| Aizu | 1 | 8 | 1 | 10 |
| Minamiaizu | 0 | 1 | 0 | 1 |
| Outside | 0 | 0 | 0 | 0 |
| Fukushima | 0 | U | | U |
| Total | 2 | 54 | 3 | 59 |

[Table 14-20] Whether resuscitation was attempted: Twin births; Second babies

Only regarding 2 respondents whose babies were born in a state of apparent death

| Region | Attempted | Not Attempted | Don't know | Total |
|------------|-----------|------------------|------------|-------|
| Kenpoku | 0 | 0 | 0 | 0 |
| Kenchu | 0 | 0 | 1 | 1 |
| Kennan | 0 | 0 | 0 | 0 |
| Soso | 0 | 0 | 0 | 0 |
| lwaki | 0 | 0 | 0 | 0 |
| Aizu | 0 | 1 | 0 | 1 |
| Minamiaizu | 0 | 0 | 0 | 0 |
| Outside | 0 | 0 | 0 | 0 |
| Fukushima | | | | |
| Total | 0 | 1 | 1 | 2 |

[Table 14-21] Babies born with congenital anomalies: Single births

Regarding 6,496 respondents who gave birth after 12 weeks of pregnancy or later (Table 13-1)

| Region | Ye | es | N | 0 | No or respo | Total | |
|----------------------|-----|------|-------|-------|-------------|-------|-------|
| Kenpoku | 40 | 2.4% | 1,604 | 96.1% | 25 | 1.5% | 1,669 |
| Kenchu | 37 | 1.9% | 1,911 | 97.3% | 16 | 0.8% | 1,964 |
| Kennan | 9 | 1.8% | 475 | 97.5% | 3 | 0.6% | 487 |
| Soso | 11 | 2.6% | 403 | 96.4% | 4 | 1.0% | 418 |
| lwaki | 21 | 2.1% | 986 | 97.1% | 8 | 0.8% | 1,015 |
| Aizu | 21 | 2.6% | 766 | 95.9% | 12 | 1.5% | 799 |
| Minamiaizu | 1 | 1.8% | 54 | 98.2% | 0 | 0.0% | 55 |
| Outside Fukushima | 1 | 1.1% | 87 | 97.8% | 1 | 1.1% | 89 |
| Total | 141 | 2.2% | 6,286 | 96.8% | 69 | 1.1% | 6,496 |

[Table 14-22] Incidence of congenital abnormalities and anomalies: Single births

| Region | Inc | cidence ¹⁾ | Valid responses |
|------------|-----|-----------------------|-----------------|
| Kenpoku | 40 | 2.43% | 1,644 |
| Kenchu | 37 | 1.90% | 1,948 |
| Kennan | 9 | 1.86% | 484 |
| Soso | 11 | 2.66% | 414 |
| lwaki | 21 | 2.09% | 1,007 |
| Aizu | 21 | 2.67% | 787 |
| Minamiaizu | 1 | 1.82% | 55 |
| Outside | 1 | 1.14% | 88 |
| Fukushima | ! | 1.1470 | 00 |
| Total | 141 | 2.19% | 6,427 |

¹⁾ The denominator for calculating incidences is the number of valid responses (Respondents who had a single birth and responded "Yes" or "No" to the question regarding babies' congenital anomalies).

^{*} In the report for the results of the FY2011 survey, the denominator was the total number of responses including invalid ones. Accordingly, incidences differ from those in this report.

[Table 14-23] Incidence of each disease¹⁾: Single births

Regarding 141 respondents who responded "Yes" to the question regarding babies' congenital anomalies

(Multiple responses are allowed.)

| Region | Cataract | Cardiovascular deformity | Renal/urinary tract anomaly | Spina bifida | Hydrocephalus | Cleft lip palate | Digestive tract closure ²⁾ | Imperforate anus | Polydactyly/Syndactyly | Other |
|----------------------|----------|-----------------------------|--------------------------------|--------------|---------------|------------------|---------------------------------------|------------------|------------------------|-------|
| Kenpoku | 1 | 16 | 4 | 1 | 1 | 1 | 0 | 2 | 5 | 17 |
| Kenchu | 0 | 14 | 3 | 1 | 0 | 1 | 4 | 2 | 2 | 13 |
| Kennan | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Soso | 0 | 3 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 5 |
| lwaki | 0 | 8 | 2 | 0 | 0 | 3 | 0 | 0 | 3 | 10 |
| Aizu | 0 | 12 | 4 | 1 | 0 | 0 | 0 | 0 | 1 | 4 |
| Minamiaizu | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Outside Fukushima | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 2 | 59 | 14 | 3 | 1 | 7 | 4 | 4 | 12 | 53 |
| Incidence | 0.03% | 0.92% | 0.22% | 0.05% | 0.02% | 0.11% | 0.06% | 0.06% | 0.19% | 0.82% |

¹⁾ The denominator for calculating incidences is the number of valid responses (Respondents who had a single birth and responded "Yes" or "No" to the question regarding babies' congenital anomalies (6,427)).

[Table 14-24] Breakdown of specific abnormalities or anomalies included in "Other" for the respondents who had a single birth and responded "Yes" to the question regarding babies' congenital anomalies

| Accessory ear | 7 | Inguinal hernia | 1 | Esophageal hiatal hernia | 1 | Scalp defect | 1 |
|---------------------|---|----------------------------|---|--------------------------------------|---|---------------------|---|
| Down's syndrome | 6 | Propionic acidemia | 1 | Ankyloglossia | 1 | Linea alba hernia | 1 |
| Aural fistula | 3 | Aural atresia | 1 | Congenital epulis | 1 | Adrenal hyperplasia | 1 |
| 18-trisomy syndrome | 2 | Megalencephaly | 1 | Congenital corneal opacity | 1 | Nevus | 1 |
| Hemangioma | 2 | Cleft lobule | 1 | Epidermolysis bullosa hereditaria | 1 | Buried penis | 1 |
| Cryptorchidism | 2 | Mediastinal tumor | 1 | Femoral lymphangioma | 1 | Choroid plexus cyst | 1 |
| Pigeon-toe | 2 | Microtia and hearing loss | 1 | Ohtahara syndrome | 1 | Asplenia syndrome | 1 |
| Hearing loss | 2 | Subependymal hemorrhage | 1 | Hemangioma simplex | 1 | Ovarian cyst | 1 |
| West syndrome | 1 | Incontinentia pigmenti | 1 | Intestinal malrotation | 1 | Neck tumor | 1 |

²⁾ Closure of the digestive tract (esophagus, duodenum, jejunum, and ileum)

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Regarding 118 respondents who gave birth after 12 weeks of pregnancy or later (Table 13-2)

| Region | Yes No | | | 0 | No or respo | Total | |
|-------------------|--------|-------|-----|--------|-------------|-------|-----|
| Kenpoku | 1 | 3.3% | 28 | 93.3% | 1 | 3.3% | 30 |
| Kenchu | 0 | 0.0% | 32 | 94.1% | 2 | 5.9% | 34 |
| Kennan | 1 | 7.1% | 12 | 85.7% | 1 | 7.1% | 14 |
| Soso | 1 | 50.0% | 1 | 50.0% | 0 | 0.0% | 2 |
| lwaki | 0 | 0.0% | 16 | 100.0% | 0 | 0.0% | 16 |
| Aizu | 1 | 5.0% | 18 | 90.0% | 1 | 5.0% | 20 |
| Minamiaizu | 0 | 0.0% | 2 | 100.0% | 0 | 0.0% | 2 |
| Outside Fukushima | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 |
| Total | 4 | 3.4% | 109 | 92.4% | 5 | 4.2% | 118 |

[Table 14-26] Incidence of congenital abnormalities and anomalies: Twin births

| Region | I | ncidence ¹⁾ | Valid responses |
|-------------------|---|------------------------|-----------------|
| Kenpoku | 1 | 3.45% | 29 |
| Kenchu | 0 | 0.00% | 32 |
| Kennan | 1 | 7.69% | 13 |
| Soso | 1 | 50.00% | 2 |
| lwaki | 0 | 0.00% | 16 |
| Aizu | 1 | 5.26% | 19 |
| Minamiaizu | 0 | 0.00% | 2 |
| Outside Fukushima | 0 | 0.00% | 0 |
| Total | 4 | 3.54% | 113 |

¹⁾ The denominator for calculating incidences is the number of valid responses (Respondents who had a twin birth and responded "Yes" or "No" to the question regarding babies' congenital anomalies).

[Table 14-27] Breakdown of disease: Twin births

Regarding 4 respondents who responded "Yes" to the question regarding babies' congenital anomalies (Multiple responses are allowed.)

| Region | Cataract | Cardiovascular deformity | Renal/urinary tract anomaly | Spina bifida | Microcephaly | Hydrocephalus | Cleft lip palate | Digestive tract closure | Imperforate anus | Polydactyly/Syndactyly | Other |
|----------------------|----------|-----------------------------|--------------------------------|--------------|--------------|---------------|------------------|-------------------------|------------------|------------------------|-------|
| Kenpoku | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Kenchu | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kennan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Soso | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| lwaki | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Aizu | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Minamiaizu | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Outside Fukushima | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 |

^{*} When making a comparison with data in the report of the results of the FY2011 survey, it should be noted that incidences were calculated while including invalid responses in the report of the results of the FY2011 and are different from calculated incidences for FY2012 onward.

[Table 15] Do you sometimes feel a lack of confidence concerning child-rearing? (Q.15)

Only regarding 6,541 respondents who had a live birth

| Region | Ye | s | No |) | Not : | sure | No or i respo | | Total |
|----------------------|-------|-------|-------|-------|-------|-------|------------------|------|-------|
| Kenpoku | 315 | 18.7% | 626 | 37.2% | 730 | 43.4% | 11 | 0.7% | 1,682 |
| Kenchu | 352 | 17.8% | 747 | 37.8% | 847 | 42.8% | 31 | 1.6% | 1,977 |
| Kennan | 86 | 17.4% | 198 | 40.2% | 202 | 41.0% | 7 | 1.4% | 493 |
| Soso | 62 | 14.8% | 171 | 40.9% | 180 | 43.1% | 5 | 1.2% | 418 |
| lwaki | 152 | 14.9% | 460 | 45.2% | 396 | 38.9% | 10 | 1.0% | 1,018 |
| Aizu | 158 | 19.6% | 312 | 38.6% | 326 | 40.3% | 12 | 1.5% | 808 |
| Minamiaizu | 7 | 12.5% | 27 | 48.2% | 21 | 37.5% | 1 | 1.8% | 56 |
| Outside Fukushima | 27 | 30.3% | 23 | 25.8% | 39 | 43.8% | 0 | 0.0% | 89 |
| Total | 1,159 | 17.7% | 2,564 | 39.2% | 2,741 | 41.9% | 77 | 1.2% | 6,541 |

Tables 16-1 to 16-5 cover 6,475 respondents who had their babies receive a one-month health checkup within 60 days after birth (single births: 6,365; twin births: 110; unknown: 0).

[Table 16-1] Average number of days after birth for receiving a one-month health checkup

| Region | Number of babies | Average number of days after birth |
|------------|------------------|---------------------------------------|
| Kenpoku | 1,666 | 34.8 |
| Kenchu | 1,966 | 32.4 |
| Kennan | 487 | 31.7 |
| Soso | 411 | 32.3 |
| lwaki | 1,007 | 33.0 |
| Aizu | 796 | 32.9 |
| Minamiaizu | 57 | 32.9 |
| Outside | 85 | 32.5 |
| Fukushima | 00 | 32.3 |
| Total | 6,475 | 33.1 |

Tables 16-2 to 16-5 contain data for babies whose gender is unknown, and therefore, the sum of boys and girls may not match the overall total. The number of no or invalid responses is shown in the rightmost column. Figures in the parentheses are numbers of valid responses.

[Table 16-2] Weight: Single births

((Average (g) ± Standard deviation (number of valid responses))

| Region | 0 | verall | ((, | Boys | | Girls | | | No or invalid responses |
|------------|----------|---------------|----------|---------|--------|----------|---------|--------|-------------------------|
| Kenpoku | 4268.8 ± | 605.8 (1,632) | 4384.2 ± | 607.1 (| 835) | 4144.7 ± | 582.0 (| 769) | 6 |
| Kenchu | 4152.3 ± | 573.0 (1,927) | 4248.0 ± | 598.1 (| 945) | 4050.7 ± | 529.4 (| 941) | 5 |
| Kennan | 4100.6 ± | 561.2 (472) | 4202.6 ± | 552.4 (| 238) | 4002.5 ± | 553.9 (| 222) | 2 |
| Soso | 4169.0 ± | 489.9 (409) | 4299.0 ± | 501.8 (| 189) | 4054.5 ± | 446.4 (| 215) | 0 |
| lwaki | 4199.4 ± | 594.2 (987) | 4340.6 ± | 576.1 (| 482) | 4056.5 ± | 580.4 (| 486) | 6 |
| Aizu | 4182.7 ± | 564.3 (779) | 4277.1 ± | 581.1 (| 388) | 4088.3 ± | 526.0 (| 373) | 0 |
| Minamiaizu | 3939.4 ± | 745.4 (55) | 4218.6 ± | 446.0 (| 27) | 3670.3 ± | 875.6 (| 28) | 0 |
| Outside | 4253.2 ± | 439.8 (85) | 4352.6 ± | 468.3 (| 44) | 4163.6 ± | 373.3 (| 40) | 0 |
| Fukushima | | | | | | | | | |
| Total | 4190.1 ± | 580.8 (6,346) | 4302.7 ± | 586.3 (| 3,148) | 4074.5 ± | 552.2 (| 3,074) | 19 |

[Table 16-3] Weight: Twin births

((Average (g) ± Standard deviation (number of valid responses))

| Region | Overall | | | Boys | | | G | No or invalid responses | |
|----------------------|----------|---------|------|----------|----------|-----|----------|-------------------------|---|
| Kenpoku | 3216.5 ± | 908.0 (| 28) | 3126.6 ± | 1015.7 (| 19) | 3513.1 ± | 584.3 (8) | 0 |
| Kenchu | 3447.3 ± | 451.3 (| 34) | 3548.6 ± | 480.5 (| 19) | 3322.4 ± | 403.8 (14) | 0 |
| Kennan | 3074.4 ± | 776.5 (| 13) | 2870.4 ± | 975.6 (| 7) | 3332.4 ± | 469.7 (5) | 0 |
| Soso | 2103.0 ± | 403.1 (| 2) | 2103.0 ± | 403.1 (| 2) | | (0) | 0 |
| Iwaki | 2541.2 ± | 442.0 (| 14) | 2447.5 ± | 390.1 (| 11) | 2885.0 ± | 532.5 (3) | 0 |
| Aizu | 3466.8 ± | 559.1 (| 17) | 3702.9 ± | 349.0 (| 9) | 3201.1 ± | 650.5 (8) | 0 |
| Minamiaizu | 3425.0 ± | 289.9 (| 2) | 3630.0 | (| 1) | 3220.0 | (1) | 0 |
| Outside Fukushima | | (| 0) | | (| 0) | | (0) | 0 |
| Total | 3207.3 ± | 717.3 (| 110) | 3161.9 ± | 822.0 (| 68) | 3301.7 ± | 510.3 (39) | 0 |

[Table 16-4] Height: Single births

((Average (cm) ± Standard deviation (number of valid responses))

| Region | Overall | Boys | Girls | No or invalid responses |
|----------------------|---------------------|---------------------|---------------------|-------------------------|
| Kenpoku | 53.3 ± 3.1 (1,624) | 53.7 ± 3.1 (832) | 52.9 ± 3.1 (766) | 14 |
| Kenchu | 53.0 ± 3.1 (1,921) | 53.3 ± 3.4 (941) | 52.6 ± 2.9 (939) | 11 |
| Kennan | 52.3 ± 2.7 (472) | 52.8 ± 2.5 (238) | 51.8 ± 2.9 (222) | 2 |
| Soso | 53.2 ± 2.6 (409) | 53.4 ± 3.1 (189) | 53.0 ± 2.1 (215) | 0 |
| lwaki | 53.0 ± 3.3 (983) | 53.6 ± 3.3 (482) | 52.5 ± 3.4 (482) | 10 |
| Aizu | 53.1 ± 2.9 (777) | 53.3 ± 3.2 (386) | 52.9 ± 2.5 (373) | 2 |
| Minamiaizu | 52.4 ± 4.2 (55) | 53.8 ± 2.0 (27) | 51.0 ± 5.3 (28) | 0 |
| Outside Fukushima | 53.6 ± 1.9 (85) | 54.1 ± 1.9 (44) | 53.1 ± 1.8 (40) | 0 |
| Total | 53.1 ± 3.1 (6,326) | 53.4 ± 3.2 (3,139) | 52.7 ± 3.0 (3,065) | 39 |

[Table 16-5] Height: Twin births

((Average (cm) ± Standard deviation (number of valid responses))

| | | | | ((Avera | ge (cm) | I Stand | iaru deviali | annun) na | ei oi va | ilia responses), |
|-------------------|---------|-------|------|---------|---------|---------|--------------|-------------------------|----------|------------------|
| Region | Overall | | | Boys | | | | No or invalid responses | | |
| Kenpoku | 49.2 ± | 4.8 (| 27) | 48.5 ± | 5.6 (| 18) | 51.0 ± | 1.8 (| 8) | 1 |
| Kenchu | 50.7 ± | 2.1 (| 34) | 51.3 ± | 1.9 (| 19) | 49.8 ± | 2.2 (| 14) | 0 |
| Kennan | 48.5 ± | 4.4 (| 13) | 47.9 ± | 6.1 (| 7) | 49.3 ± | : 0.5 (| 5) | 0 |
| Soso | 42.7 ± | 3.8 (| 2) | 42.7 ± | 3.8 (| 2) | | (| 0) | 0 |
| lwaki | 46.7 ± | 1.9 (| 14) | 46.4 ± | 2.0 (| 11) | 47.7 ± | : 1.3 (| 3) | 0 |
| Aizu | 50.4 ± | 1.9 (| 17) | 50.8 ± | 1.4 (| 9) | 49.8 ± | : 2.3 (| 8) | 0 |
| Minamiaizu | 50.5 ± | 2.1 (| 2) | 52.0 | (| 1) | 49.0 | (| 1) | 0 |
| Outside Fukushima | | (| 0) | | (| 0) | | (| 0) | 0 |
| Total | 49.3 ± | 3.6 (| 109) | 49.1 ± | 4.2 (| 67) | 49.8 ± | 2.0 (| 39) | 1 |

[Table 17-1] Do you wish to have another child? (Q.17)

| Region | Yes | | No | 0 | No or i | Total | |
|----------------------|-------|-------|-------|-------|---------|-------|-------|
| Kenpoku | 875 | 51.7% | 796 | 47.1% | 20 | 1.2% | 1,691 |
| Kenchu | 1,015 | 51.1% | 957 | 48.1% | 16 | 0.8% | 1,988 |
| Kennan | 269 | 54.3% | 219 | 44.2% | 7 | 1.4% | 495 |
| Soso | 217 | 51.4% | 196 | 46.4% | 9 | 2.1% | 422 |
| lwaki | 530 | 51.6% | 486 | 47.3% | 12 | 1.2% | 1,028 |
| Aizu | 434 | 53.5% | 367 | 45.3% | 10 | 1.2% | 811 |
| Minamiaizu | 36 | 64.3% | 19 | 33.9% | 1 | 1.8% | 56 |
| Outside Fukushima | 61 | 68.5% | 27 | 30.3% | 1 | 1.1% | 89 |
| Total | 3,437 | 52.2% | 3,067 | 46.6% | 76 | 1.2% | 6,580 |

[Table 17-2] Services requested by mothers wishing to have another child toward the next pregnancy

(Multiple responses are allowed.) Enhancement of childcare centers Information and Enhancement of and childcare services regarding Information on maternal leave Valid Other services, such as radiation and Region child rearing and and childcare responses extended day-care pediatric medical health risks leave systems and day-care for care sick children 727 84.8% 591 69.0% 535 62.4% 158 18.4% 71 8.3% 857 Kenpoku 778 672 67.9% 63.0% 207 20.9% 94 9.5% 78.6% 624 990 Kenchu 192 73.0% 173 65.8% 184 70.0% 46 17.5% 15 5.7% 263 Kennan 70.4% 38 Soso 170 79.8% 142 66.7% 150 17.8% 17 8.0% 213 393 75.9% 329 63.5% 352 68.0% 112 21.6% 36 6.9% 518 lwaki 300 71.3% 307 72.9% 261 62.0% 86 20.4% 32 7.6% 421 Aizu 21 21 24 61.8% 61.8% 70.6% 5 14.7% 6 17.6% 34 Minamiaizu 7 2 43 71.7% 44 11.7% 3.3% 60 50 83.3% 73.3% Outside Fukushima 2,631 78.4% 2,278 67.9% 2,174 64.8% 659 19.6% 273 8.1% 3,356

[Table 17-3] Reasons for not wishing to have another child

| (| IVI | uilipie | res | ponse | s are | allowed. | , |
|---|-----|---------|-----|-------|-------|----------|---|
| | | | | | | | |

| Region | Do not wish | | Due to age or health reasons | | Already tied up with existing child(ren) | | Due to income insecurity | | There is no one to ask for cooperation for housework and child-rearing. | | There is nowhere to leave a child(ren). | |
|-------------------|-------------|-------|------------------------------|-------|--|-------|--------------------------|-------|---|-------|--|-------|
| Kenpoku | 416 | 52.5% | 294 | 37.1% | 267 | 33.7% | 223 | 28.1% | 84 | 10.6% | 97 | 12.2% |
| Kenchu | 504 | 52.9% | 344 | 36.1% | 346 | 36.3% | 261 | 27.4% | 115 | 12.1% | 83 | 8.7% |
| Kennan | 138 | 63.6% | 82 | 37.8% | 77 | 35.5% | 42 | 19.4% | 21 | 9.7% | 17 | 7.8% |
| Soso | 111 | 57.8% | 67 | 34.9% | 65 | 33.9% | 58 | 30.2% | 20 | 10.4% | 19 | 9.9% |
| lwaki | 268 | 55.3% | 184 | 37.9% | 163 | 33.6% | 98 | 20.2% | 38 | 7.8% | 33 | 6.8% |
| Aizu | 192 | 52.6% | 141 | 38.6% | 132 | 36.2% | 87 | 23.8% | 29 | 7.9% | 22 | 6.0% |
| Minamiaizu | 11 | 57.9% | 7 | 36.8% | 6 | 31.6% | 2 | 10.5% | 3 | 15.8% | 0 | 0.0% |
| Outside Fukushima | 14 | 53.8% | 8 | 30.8% | 6 | 23.1% | 5 | 19.2% | 6 | 23.1% | 3 | 11.5% |
| Total | 1,654 | 54.2% | 1,127 | 37.0% | 1,062 | 34.8% | 776 | 25.5% | 316 | 10.4% | 274 | 9.0% |

^{*} The denominator for calculating percentages is the number of valid responses (respondents who responded "Yes" to Question 17 and also entered services they wish to receive toward the next pregnancy). As multiple responses are allowed, the percentages may not be 100.0%.

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| | | | \ | /— | _ ' | | | - | |
|----------------------|--|-------|--------------------|------|-----|----------------------------|-----|------|-----------------|
| Region | Due to living separately from family members | | Anxietie radiatior | | | Due to living as a refugee | | ner | Valid responses |
| Kenpoku | 16 | 2.0% | 2 | 0.3% | 0 | 0.0% | 22 | 2.8% | 793 |
| Kenchu | 24 | 2.5% | 9 | 0.9% | 0 | 0.0% | 33 | 3.5% | 952 |
| Kennan | 3 | 1.4% | 1 | 0.5% | 0 | 0.0% | 11 | 5.1% | 217 |
| Soso | 6 | 3.1% | 1 | 0.5% | 3 | 1.6% | 5 | 2.6% | 192 |
| lwaki | 11 | 2.3% | 3 | 0.6% | 0 | 0.0% | 18 | 3.7% | 485 |
| Aizu | 8 | 2.2% | 0 | 0.0% | 0 | 0.0% | 24 | 6.6% | 365 |
| Minamiaizu | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 1 | 5.3% | 19 |
| Outside Fukushima | 6 | 23.1% | 0 | 0.0% | 0 | 0.0% | 2 | 7.7% | 26 |
| Total | 74 | 2.4% | 16 | 0.5% | 3 | 0.1% | 116 | 3.8% | 3,049 |

^{*} The denominator for calculating percentages is the number of valid responses (respondents who responded "No" to Question 17 and also entered reasons for not wishing to have another child). As multiple responses are allowed, the percentages may not be 100.0%.

(3) Free comments

Free comments entered by 881 respondents, out of 6,580 respondents who made valid responses, were tabulated.

[Table 18] Content of free comments

Multiple responses are allowed. The denominator for calculating percentages is 881, the number of respondents who entered free comments.

| Content | Number | Percentage |
|---|--------|------------|
| Request for enhancing child-rearing support services | 221 | 25.1% |
| Childcare consultations ¹⁾ | 209 | 23.7% |
| Mother's physical disorders ¹⁾ | 101 | 11.5% |
| Complaint about mother's mental disorders | 100 | 11.4% |
| Request for enhancing medical services and request concerning physical health care | 99 | 11.2% |
| Anxieties and/or dissatisfaction about the shortage of examinations and medical services | 69 | 7.8% |
| Opinions/complaints about this survey | 66 | 7.5% |
| Request for financial support | 62 | 7.0% |
| Interpersonal relations ²⁾ | 43 | 4.9% |
| Positive comments about this survey | 32 | 3.6% |
| Matters concerning financial anxiety and burden | 29 | 3.3% |
| Request concerning information provision and publication of survey results | 27 | 3.1% |
| Request for ensuring decontamination and securing play areas | 17 | 1.9% |
| Radiation effects on fetuses and children | 16 | 1.8% |
| Anxieties and/or dissatisfaction about the reliability and shortage of information | 5 | 0.6% |
| Anxieties about radiation effects on water | 3 | 0.3% |
| Radiation effects on baby food and other food | 3 | 0.3% |
| Correlation with the outcome of the latest pregnancy | 3 | 0.3% |
| Request concerning the Thyroid Ultrasound Examination | 3 | 0.3% |
| Anxieties about radiation when going out or carrying out outdoor activities | 2 | 0.2% |
| Request concerning the examinations and health checkups as a whole | 2 | 0.2% |
| Anxieties and/or dissatisfaction about separation from family members and life as a refugee | 1 | 0.1% |
| Request concerning the Fukushima Health Management Survey | 1 | 0.1% |
| Request concerning examinations and health checkups | 1 | 0.1% |
| Request for internal exposure examinations (whole-body counter measurement, etc.) | 1 | 0.1% |
| Matters concerning external exposure (distribution of glass badges and dosemeters, etc.) | 1 | 0.1% |
| Request for support for life as a refugee | 1 | 0.1% |
| Request for enhancing mental care and consultation services | 1 | 0.1% |
| Other | 157 | 17.8% |

¹⁾ There were no such comments in the FY2011 survey.

²⁾ There were no such comments in the FY2012 survey.

(4) Status of post-survey support

The number of mothers in need of support in 2018 was 711 (10.7% of 6,649 respondents).

Tabulation of data regarding post-survey support is based on 6,649 responses returned between November 1, 2018, and December 20, 2019 (including those from respondents not in need of support).

[Table 19] Number of mothers in need of support

| Region | Number of respondents | Number of mothers in need of support | | | | |
|-------------------|--------------------------|--------------------------------------|-------|--|--|--|
| Kenpoku | 1,702 | 191 | 11.2% | | | |
| Kenchu | 2,006 | 219 | 10.9% | | | |
| Kennan | 504 | 52 | 10.3% | | | |
| Soso | 424 | 44 | 10.4% | | | |
| Iwaki | 1,034 | 100 | 9.7% | | | |
| Aizu | 815 | 87 | 10.7% | | | |
| Minamiaizu | 56 | 3 | 5.4% | | | |
| Outside Fukushima | 108 | 15 | 13.9% | | | |
| Total | 6,649 | 711 | 10.7% | | | |

^{*} The denominator for calculating percentages accounted for by mothers needing support is the number of respondents.

[Table 20] Breakdown of mothers in need of support by region

| Region | Mothers in suppor identified their resp questions depressive | t were based on onses to regarding | support are based on t | n need of e identified the content comments | Total |
|-------------------|--|---|---------------------------|--|-------|
| Kenpoku | 115 | 60.2% | 76 | 39.8% | 191 |
| Kenchu | 130 | 59.4% | 89 | 40.6% | 219 |
| Kennan | 30 | 57.7% | 22 | 42.3% | 52 |
| Soso | 27 | 61.4% | 17 | 38.6% | 44 |
| lwaki | 61 | 61.0% | 39 | 39.0% | 100 |
| Aizu | 51 | 58.6% | 36 | 41.4% | 87 |
| Minamiaizu | 2 | 66.7% | 1 | 33.3% | 3 |
| Outside Fukushima | 8 | 53.3% | 7 | 46.7% | 15 |
| Total | 424 | 59.6% | 287 | 40.4% | 711 |

[Table 21] Breakdown of major topics of consultations by region

| Region | and/or | s' mental physical alth | concerr rearin | tters ning child g (daily fe) | menta | dren's I and/or al health | conc | tters erning ily life | about | xieties radiation s effects | conce | atters erning life refugee | C | Other | Number of mothers in need of support |
|-------------------|--------|-------------------------------|-------------------|--|-------|---------------------------------|------|-----------------------------|-------|-----------------------------------|-------|----------------------------------|-----|-------|---|
| Kenpoku | 110 | 57.6% | 89 | 46.6% | 29 | 15.2% | 17 | 8.9% | 5 | 2.6% | 0 | 0.0% | 52 | 27.2% | 191 |
| Kenchu | 114 | 52.1% | 81 | 37.0% | 36 | 16.4% | 17 | 7.8% | 6 | 2.7% | 0 | 0.0% | 72 | 32.9% | 219 |
| Kennan | 29 | 55.8% | 22 | 42.3% | 11 | 21.2% | 7 | 13.5% | 3 | 5.8% | 0 | 0.0% | 16 | 30.8% | 52 |
| Soso | 20 | 45.5% | 17 | 38.6% | 9 | 20.5% | 5 | 11.4% | 1 | 2.3% | 1 | 2.3% | 16 | 36.4% | 44 |
| lwaki | 52 | 52.0% | 44 | 44.0% | 16 | 16.0% | 14 | 14.0% | 9 | 9.0% | 0 | 0.0% | 30 | 30.0% | 100 |
| Aizu | 45 | 51.7% | 38 | 43.7% | 11 | 12.6% | 6 | 6.9% | 0 | 0.0% | 0 | 0.0% | 33 | 37.9% | 87 |
| Minamiaizu | 1 | 33.3% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 2 | 66.7% | 3 |
| Outside Fukushima | 7 | 46.7% | 3 | 20.0% | 2 | 13.3% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 8 | 53.3% | 15 |
| Aggregated total | 378 | 53.2% | 294 | 41.4% | 114 | 16.0% | 66 | 9.3% | 24 | 3.4% | 1 | 0.1% | 229 | 32.2% | 711 |

^{*} The denominator for calculating percentages is the number of mothers in need of support. As multiple responses are allowed, the percentages may not be 100.0%.

[Table 22] Breakdown of reasons for ending support

| Region | list parti | refully en to cipants' ments ¹⁾ | cons | nfirm ultation ability ²⁾ | Provinform | | to | mmend seek cal care) | | oond to &A ⁵⁾ | | rral to palities ⁶⁾ | Mental Sup | al to the Health port am ⁷⁾ |
|----------------------|---------------|---|------|--|------------|-------|----|----------------------------|----|-----------------------------|---|-----------------------------------|---------------|---|
| Kenpoku | 146 | 76.4% | 46 | 24.1% | 37 | 19.4% | 19 | 9.9% | 18 | 9.4% | 0 | 0.0% | 1 | 0.5% |
| Kenchu | 160 | 73.1% | 48 | 21.9% | 44 | 20.1% | 20 | 9.1% | 22 | 10.0% | 1 | 0.5% | 0 | 0.0% |
| Kennan | 39 | 75.0% | 9 | 17.3% | 7 | 13.5% | 2 | 3.8% | 3 | 5.8% | 1 | 1.9% | 0 | 0.0% |
| Soso | 30 | 68.2% | 6 | 13.6% | 8 | 18.2% | 3 | 6.8% | 1 | 2.3% | 0 | 0.0% | 0 | 0.0% |
| Iwaki | 71 | 71.0% | 23 | 23.0% | 24 | 24.0% | 11 | 11.0% | 11 | 11.0% | 1 | 1.0% | 0 | 0.0% |
| Aizu | 60 | 69.0% | 17 | 19.5% | 14 | 16.1% | 8 | 9.2% | 8 | 9.2% | 0 | 0.0% | 2 | 2.3% |
| Minamiaizu | 2 | 66.7% | 1 | 33.3% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Outside Fukushima | 7 | 46.7% | 1 | 6.7% | 6 | 40.0% | 1 | 6.7% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Aggregated total | 515 | 72.4% | 151 | 21.2% | 140 | 19.7% | 64 | 9.0% | 63 | 8.9% | 3 | 0.4% | 3 | 0.4% |

| Region | spe | roduce ecialist sicians ⁸⁾ | Referra Radi Consu Offi | ation Itation | Abs | sence | infor | ntact mation nown | Re | fusal | Ot | ther | Number of mothers in need of support |
|----------------------|-----|---|----------------------------------|------------------|-----|-------|-------|-------------------------|----|-------|----|------|---|
| Kenpoku | 0 | 0.0% | 0 | 0.0% | 37 | 19.4% | 6 | 3.1% | 0 | 0.0% | 2 | 1.0% | 191 |
| Kenchu | 1 | 0.5% | 0 | 0.0% | 48 | 21.9% | 8 | 3.7% | 0 | 0.0% | 1 | 0.5% | 219 |
| Kennan | 0 | 0.0% | 0 | 0.0% | 9 | 17.3% | 4 | 7.7% | 0 | 0.0% | 0 | 0.0% | 52 |
| Soso | 0 | 0.0% | 0 | 0.0% | 11 | 25.0% | 2 | 4.5% | 1 | 2.3% | 0 | 0.0% | 44 |
| lwaki | 0 | 0.0% | 0 | 0.0% | 25 | 25.0% | 1 | 1.0% | 0 | 0.0% | 2 | 2.0% | 100 |
| Aizu | 0 | 0.0% | 0 | 0.0% | 22 | 25.3% | 5 | 5.7% | 0 | 0.0% | 0 | 0.0% | 87 |
| Minamiaizu | 0 | 0.0% | 0 | 0.0% | 1 | 33.3% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 3 |
| Outside Fukushima | 0 | 0.0% | 0 | 0.0% | 7 | 46.7% | 1 | 6.7% | 0 | 0.0% | 0 | 0.0% | 15 |
| Aggregated total | 1 | 0.1% | 0 | 0.0% | 160 | 22.5% | 27 | 3.8% | 1 | 0.1% | 5 | 0.7% | 711 |

^{*} The denominator for calculating percentages is the number of mothers in need of support. The breakdown shows the aggregated number. As multiple responses are allowed, the percentages may not be 100.0%.

- 1) Support was ended by sorting out problems by carefully listening to participants' statements.
- 2) Support was ended by confirming that participants already have medical institutions or counselors to consult with.
- 3) Support was ended by appropriately providing information and introducing administrative service offices.
- 4) Support was ended by recommending participants seek medical care by physicians.
- 5) Support was ended by responding to participants' questions.
- 6) Support was ended by providing participants' information to municipalities by obtaining their consent.
- 7) Support was ended by providing participants' information to the Mental Health Support Team of the Fukushima Medical University by obtaining participants' consent.
- 8) Support was ended by introducing specialists (physicians, doctors, nurses, clinical psychologists, etc.) of the Fukushima Medical University.
- 9) Support was ended by providing participants' information to the Radiation Consultation Office of Fukushima Medical University by obtaining participants' consent.

Report on the Results of the Follow-up Survey Covering FY2014 Pregnancy and Birth Survey Respondents

1 Outline

(1) Purpose

Since FY2011, the Pregnancy and Birth Survey (PBS) has been conducted as a cross-sectional survey covering different groups every year. Among the respondents to the PBS immediately after the earthquake, the percentage of those showing depressive tendencies was especially high, and many of their free comments contained serious issues. Accordingly, follow-up surveys were conducted for the respondents to the FY2011 and FY2012 PBS at four years post-partum, when loss of confidence in child rearing tends to increase. As a result, it was found that mothers having depressive tendencies and/or anxieties about radiation effects were decreasing but still accounted for 90%. Therefore, the follow-up was also conducted for the respondents to the FY2014 PBS, following that for the respondents to the FY2013 PBS, to ascertain their health conditions and continue support by phone to those in need of support.

(2) Coverage

Out of the respondents to the FY2014 PBS (excluding those who experienced a miscarriage, abortion, or stillbirth), 5,856 mothers were confirmed to be alive together with their babies through inquiries with municipal governments

| [Reference] |
|-------------|
|-------------|

| Survey year | Covered respondents | Number |
|-------------|------------------------|--------|
| FY2015 | FY2011 PBS respondents | 7,252 |
| FY2016 | FY2012 PBS respondents | 5,602 |
| FY2017 | FY2013 PBS respondents | 5,734 |
| FY2018 | FY2014 PBS respondents | 5,856 |

(3) Survey methods

- A Survey sheet: self-administered questionnaire (postcard)
- B Date of questionnaire distribution: January 11, 2019
- C Response methods: by post or online

(4) Survey items

Survey items were as follows.

- Q.1 Do you usually consider yourself healthy?
- Q.2 Have you often felt down or depressed during the past month?
- Q.3 During the past month, have you often felt uninterested in or unable to truly enjoy things?
- Q.4 Do you sometimes feel a lack of confidence concerning child-rearing?
- Q.5 Please check all the boxes that describe what you are worried about regarding radiation effects.

- Q.6 Has your child ever had a disease that required hospitalization?
- Q.7 Please check all the boxes that describe what you are anxious about regarding your child.
 - □ Mental and physical development □ Diseases □ Lifestyle habits □ Other

^{*} Online responses were accepted from January 11 to April 30, 2019.

(5) Data tabulation period

Responses returned from January 11 to August 31, 2019

[Reference]

| Survey year | Survey | Data tabulation period (Period for accepting online responses) |
|-------------|---|--|
| FY2015 | Follow-up Survey Covering FY2011 PBS Respondents ("Follow-up for FY2011") | September 14, 2015–May 31, 2016 (Online response was not available) |
| FY2016 | Follow-up Survey Covering FY2012 PBS Respondents ("Follow-up for FY2012") | November 22, 2016–June 30, 2017 (November 22, 2016–June 30, 2017) |
| FY2017 | Follow-up Survey Covering FY2013 PBS Respondents ("Follow-up for FY2013") | January 12–August 31, 2018 (January 12–April 30, 2018) |
| FY2018 | Follow-up Survey Covering FY2014 PBS Respondents ("Follow-up for FY2014") | January 11–August 31, 2019 (January 11–April 30, 2019) |

2 Summary of Survey Results

Survey results are as shown below in "5 Tabulated Results of the Follow-up for FY2014 (1), (2), and (3)." Note that the total may not match the sum of valid responses due to missing values in each survey item.

(1) Number of responses and response rate (See Table 1.)

The number of responses (response rate) in the Follow-up for FY2014 was 2,719 (46.4%) and the number of valid responses was 2,719 (There were no invalid responses). Among them, the number of online responses (response rate) was 768 (28.2%).

[Reference]

| | | Number of respondents | | | | | | | |
|-------------|-------------------------|--|------------------------------|--------|--------------------------------------|--|--|--|--|
| | | Total | Breakdown by response method | | | | | | |
| Survey year | Survey | Number of responses (Response rate) | By post | Online | Percentage of online responses | | | | |
| FY2015 | Follow-up for FY2011 | 2,554 (35.2%) | 2,554 | - | - | | | | |
| FY2016 | Follow-up for FY2012 | 2,021 (36.1%) | 1,719 | 302 | 14.9% | | | | |
| FY2017 | Follow-up for FY2013 | 2,706 (47.2%) | 2,062 | 644 | 23.8% | | | | |
| FY2018 | Follow-up for FY2014 | 2,719 (46.4%) | 1,951 | 768 | 28.2% | | | | |

(2) Number of responses, by area of residence (See Table 1.)

The number of respondents (response rate) to the Follow-up for FY2014 by area of residence was as follows: 753 (51.5%) in the Kenpoku Region; 815 (45.8%) in the Kenchu Region; 194 (45.9%) in the Kennan Region; 175 (41.8%) in the Soso Region; 480 (46.7%) in the Iwaki Region; 281 (40.5%) in the Aizu Region; and 21 (38.9%) in the Minamiaizu Region.

[Reference]

|] | Survey | Survey | Number of respondents, by area of residence (Response rate, by area of residence: %) | | | | | | | |
|---|--------|---------------|---|--------|--------|--------|--------|--------|------------|--|
| | year | , | Kenpoku | Kenchu | Kennan | Soso | lwaki | Aizu | Minamiaizu | |
| | FY2015 | Follow-up for | 679 | 721 | 168 | 256 | 434 | 271 | 25 | |
| | F12015 | FY2011 | (38.7) | (32.7) | (34.1) | (34.9) | (35.9) | (34.5) | (34.7) | |
| | FY2016 | Follow-up for | 675 | 508 | 165 | 113 | 330 | 212 | 18 | |
| L | F12010 | FY2012 | (45.3) | (32.2) | (36.4) | (30.5) | (32.5) | (33.4) | (29.0) | |
| | FY2017 | Follow-up for | 770 | 716 | 204 | 192 | 479 | 315 | 30 | |
| L | F12017 | FY2013 | (49.4) | (47.1) | (44.0) | (46.6) | (46.0) | (46.9) | (44.1) | |
| | FY2018 | Follow-up for | 753 | 815 | 194 | 175 | 480 | 281 | 21 | |
| | F12010 | FY2014 | (51.5) | (45.8) | (45.9) | (41.8) | (46.7) | (40.5) | (38.9) | |

(3) Maternal mental health conditions (See Tables 2 to 5.)

A The percentage of mothers who responded that their subjective health was poor ("Not so healthy" or "Not healthy") was 7.9%. The relevant percentage was 3.9% four years before in the FY2014 PBS. (Q.1)

[Reference]

| Covered respondents | At the time of the Follow-up | At the time of the PBS, four years before |
|---------------------------|------------------------------|---|
| FY2011 survey respondents | 9.6% | The relevant question was not included. |
| FY2012 survey respondents | 9.3% | 3.8% |
| FY2013 survey respondents | 7.9% | 3.7% |
| FY2014 survey respondents | 7.9% | 3.9% |

B The percentage of mothers judged as having depressive tendencies was 22.5%. The relevant percentage was 23.4% four years before in the FY2014 PBS. (Q.2 and Q.3)

[Reference]

| ١ | Covered respondents | At the time of the Follow-up | At the time of the PBS, four years before |
|---|---------------------------|------------------------------|---|
| | FY2011 survey respondents | 25.6% | 27.1% |
| | FY2012 survey respondents | 25.7% | 25.5% |
| | FY2013 survey respondents | 23.5% | 24.5% |
| | FY2014 survey respondents | 22.5% | 23.4% |

(4) Family life and child rearing (See Table 6.)

The percentage of mothers who responded that they sometimes feel a lack of confidence concerning child rearing was 17.7%. The relevant percentage was 16.6% four years before in the FY2014 PBS. (Q.4)

[Reference]

| time of the PBS, years before |
|----------------------------------|
| |
| elevant question not included. |
| 15.4% |
| 17.5% |
| 16.6% |
| |

Reference value: According to the 2010 Infants and Children's Health Degree Survey, 23.0% of the surveyed mothers responded that they sometimes feel a lack of confidence in rearing their children aged four.

(5) Anxieties about radiation effects (See Table 7.)

The percentage of mothers who checked at least one box in the list of anxieties about radiation effects was 85.4%. Among them, the percentage of those who checked the box for the child's health was 63.3%. (Q.5)

[Reference]

|] | Survey year | Those who checked at least Survey one box for anxieties about radiation effects | | Of which, those who checked the box for child's health |
|---|-------------|---|-------|--|
| | FY2015 | Follow-up for FY2011 | 94.2% | 79.5% |
| | FY2016 | Follow-up for FY2012 | 90.9% | 68.7% |
| | FY2017 | Follow-up for FY2013 | 87.5% | 66.3% |
| | FY2018 | Follow-up for FY2014 | 85.4% | 63.3% |

(6) Children's health conditions and mothers' anxieties about their children (See Tables 8-1 to 8-2 and Table 9.)

A The percentage of mothers who responded that hospitalization had been required for a child's disease was 25.3%. Major diseases for hospitalization included pneumonia, respiratory syncytial virus infection, bronchitis, etc. (Q.6)

[Reference]

| Survey year | Survey | Those whose children have had a disease that required hospitalization |
|-------------|-------------------------|---|
| FY2015 | Follow-up for FY2011 | 24.7% |
| FY2016 | Follow-up for FY2012 | 24.4% |
| FY2017 | Follow-up for FY2013 | 23.7% |
| FY2018 | Follow-up for FY2014 | 25.3% |

B The percentage of mothers who checked at least one box in the list of anxieties about their children was 63.4%. (Q.7)

[Reference]

| Survey year | Survey one box for anxieties about in their children | | Those who checked the box for anxieties about mental and physical development | Those who checked the box for anxieties about diseases |
|-------------|--|-------|---|---|
| FY2015 | Follow-up for FY2011 | 70.8% | 56.1% | 57.6% |
| FY2016 | Follow-up for FY2012 | 66.9% | 56.9% | 45.5% |
| FY2017 | Follow-up for FY2013 | 61.2% | 57.4% | 40.4% |
| FY2018 | Follow-up for FY2014 | 63.4% | 56.9% | 38.7% |

(7) Content of free comments (See Tables 10-1 to 10-2.)

The total of 198 mothers (7.3%) wrote comments in the free comment section. The most frequently raised topics were "Positive comments about this survey," "Opinions/complaints about this survey," and "Childcare consultations."

[Reference]

| | 010101100] | | | | | | |
|------------|-------------------------|------------------------------|--|---|--|--|---|
| Year | Survey | Those who wrote comments (%) | 1st | 2nd | 3rd | 4th | 5th |
| FY 2015 | Follow-up for FY2011 | 383 | Anxieties about radiation effects on fetus/child | Positive comments about this survey | Opinions/com plaints about this survey | Request for information on radiation and survey results | Request concerning the Thyroid Ultrasound Examination |
| | | (15.0%) | 53 (13.8%) | 47 (12.3%) | 44 (11.5%) | 37 (9.7%) | 23 (6.0%) |
| FY 2016 | Follow-up for FY2012 | 186 | Positive comments about this survey | Opinions/co mplaints about this survey | Anxieties about radiation effects on fetus/child | Childcare consultation s | Request for improved child-rearing support |
| | | (9.2%) | 33 (17.7%) | 24 (12.9%) | 23 (12.4%) | 17 (9.1%) | 14 (7.5%) |
| FY 2017 | Follow-up for FY2013 | 208 | Positive comments about this survey | Opinions/co mplaints about this survey | Anxieties about radiation effects on fetus/child | Complaint about mother's mental disorders | Request for improved child-rearing support |
| | | (7.7%) | 36 (17.3%) | 25 (12.0%) | 24 (11.5%) | 16 (7.7%) | 15 (7.5%) |
| FY 2018 | Follow-up for FY2014 | 198 | Positive comments about this survey | Opinions/co mplaints about this survey | Childcare consultations | Anxieties about radiation effects on fetus/child | Request for improved child-rearing support |
| | | (7.3%) | 42 (21.2%) | 26 (13.1%) | 17 (8.6%) | 14 (7.1%) | 14 (7.1%) |

(8) Conclusion

The percentage of mothers with poor subjective health in the Follow-up for FY2014 remained the same as in the previous fiscal year, while the percentages of mothers with depressive tendencies and mothers with anxieties about radiation effects have been decreasing year by year.

- A The response rate was 46.4%, higher than in the Follow-up for FY2011 and the Follow-up for FY2012 but lower than in the Follow-up for FY2013.
- B The percentage of mothers with poor subjective health (those who responded "Not so healthy" or "Not healthy") was 7.9%, lower than in the Follow-up for FY2011 and the Follow-up for FY2012 but at a similar level as in the Follow-up for FY2013.
- C The percentage of mothers with depressive tendencies has been decreasing year by year, and was 22.5% in the Follow-up for FY2014, lower than four years before in the FY2014 PBS.
- D The percentage of mothers who checked at least one box in the list of anxieties about radiation effects was 85.4%, showing a declining trend year by year.
- E The percentage of mothers who checked at least one box in the list of anxieties about their children was 63.4%, lower than in the Follow-up for FY2011 and the Follow-up for FY2012 but higher than in the Follow-up for FY2013. The most common anxiety was about children's "Mental and physical development" (56.9%).
- F The percentage of mothers who entered free comments was 7.3%. Comments regarding "Anxieties about radiation effects on fetus/child" have been decreasing year by year.

3 Outline of Post-Survey Support

(1) Purpose

For mothers judged as needing consultations and/or support, out of the respondents to the Follow-up for FY2014, midwives and public health nurses provide consultations and/or support by phone or by email to alleviate their worries.

(2) Mothers in need of support (See Table 11.)

Out of the respondents to the Follow-up for FY2014 (those who made responses between January 11 and August 31, 2019), mothers judged as needing consultations and/or support by phone ("mothers in need of support")

(3) Criteria for providing support (See Table 12.)

Respondents who fall under either A or B below:

- A Mothers falling under two survey items relating to depression (Q.2 and Q.3)
- B Mothers considered to need support based on the content of free comments (in the free comment section or other parts of the questionnaire)

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

(4) Methods

Consultations and/or support by phone or by email

4 Summary of Results of Post-Survey Support

The results of the provided support are as shown below in "5 Tabulated Results of the Follow-up for FY2014 (4) Status of post-survey support."

(1) Number of mothers in need of support (See Table 11 and Table 12.)

Out of 2,719 respondents who made responses between January 11 and August 31, 2019, the number of mothers judged as being in need of consultations and/or support by phone ("mothers in need of support") was 380.

Since FY2017, mothers who expressed specific anxieties in places other than the questionnaire's free comment section have been included as candidates for support. As a result, the percentage of mothers in need of support identified based on their responses to questions regarding depressive tendencies was 9.7%, while that of mothers in need of support identified based on the content of their free comments was 4.2%. The percentage of mothers in need of support in total was 14.0%.

[Reference]

| [1 (010101 | | | | | | | |
|------------|----------------------|-----------------------|---|---|---|--|--|
| | | | (percentage) of mothers in need of support | | Number (percentage) of mothers in need of support identified based on the content of their free comments | | |
| Year | Survey | Number of respondents | identified based on their responses to questions regarding depressive tendencies | Based on comments in the free comment section | Based on comments in other parts in the questionnaire | (percentage) of mothers in need of support | |
| 5) (00 4 5 | Follow-up for FY2011 | 0.554 | 299 | 76 | | 375 | |
| FY2015 | | 2,554 | (11.7%) | (3.0%) | - | (14.7%) | |
| FV2016 | Follow-up for FY2012 | 2,021 | 209 | 47 | | 256 | |
| FY2016 | | 2,021 | (10.3%) | (2.3%) | - | (12.7%) | |
| E) (00.17 | Follow-up for | 0.700 | 277 | 51 | 65 | 393 | |
| FY2017 | FY2013 | 2,706 | (10.2%) | (1.9%) | (2.4%) | (14.5%) | |
| E)/0040 | Follow-up for | 0.740 | 265 | 31 | 84 | 380 | |
| FY2018 | FY2014 | 2,719 | (9.7%) | (1.1%) | (3.1%) | (14.0%) | |

^{*} Mothers in need of support identified both based on their responses to questions regarding depressive tendencies and on their free comments are included in the category of those identified based on their responses to questions regarding depressive tendencies.

(2) Topics of consultations (See Table 13.)

The most common topics of consultations by phone were "Mothers' mental and/or physical health" (26.4%), followed by "Matters concerning child rearing (daily life)" (12.2%), based on the same support criteria as those in the previous follow-up surveys.

Consultations on "Anxieties about radiation and its effects" accounted for 5.7%, showing a decrease from the previous fiscal year.

[Reference]

| Releter | icej | | | | | | | |
|------------|--|--|--|--|--|--|--------------|-------------------------------------|
| Year | Survey | 1st | 2nd | 3rd | 4th | 5th | mot in ne | nber of hers ed of port |
| FY 2015 | Follow-up for FY2011 (based on the depression questions + free | Mothers' mental and/or physical health | Anxieties about radiation and its effects | Matters concerning child rearing (daily life) | Children's mental and/or physical health | Matters concerning family life | 37 | 75 |
| | comment section) | 129 (34.4%) | 96 (25.6%) | 81 (21.6%) | 68 (18.1%) | 52 (13.9%) | | |
| FY 2016 | Follow-up for FY2012 (based on the depression questions + free | Mothers' mental and/or physical health | Matters concerning child rearing (daily life) | Children's mental and/or physical health | Anxieties about radiation and its effects | Matters concerning family life | 2 | 56 |
| | comment section) | 115 (44.9%) | 59 (23.0%) | 58 (22.7%) | 34 (13.3%) | 27 (10.5%) | | |
| | Follow-up for FY2013 (based on the depression questions + free | Mothers' mental and/or physical health | Matters concerning child rearing (daily life) | Matters concerning family life | Anxieties about radiation and its effects | Children's mental and/or physical health | 328 | |
| FY | comment section) | 118 (36.0%) | 91 (27.7%) | 48 (14.6%) | 43 (13.1%) | 32 (9.8%) | | 393 |
| 2017*1 | (based on comments in other parts of the | Matters concerning child rearing (daily life) | Anxieties about radiation and its effects | Children's mental and/or physical health | Mothers' mental and/or physical health | Matters concerning family life | 65 | |
| | questionnaire)*2 | 30 (46.2%) | 17 (26.2%) | 6 (9.2%) | 4 (6.2%) | 2 (3.1%) | | |
| FY | Follow-up for FY2014 (based on the depression questions + free | Mothers' mental and/or physical health | Matters concerning child rearing (daily life) | Matters concerning family life | Anxieties about radiation and its effects | Children's mental and/or physical health | 296 | |
| 2018*1 | comment section) | 78 (26.4%) | 36 (12.2%) | 19 (6.4%) | 17 (5.7%) | 16 (5.4%) | | 380 |
| | (based on comments in other parts of the questionnaire)*2 | Anxieties about radiation and its effects | Matters concerning child rearing (daily life) | physical health | Mothers' mental and/or physical health | Matters concerning family life | 84 | |
| | quodioniunoj | 19 (22.6%) | 9 (10.7%) | 8 (9.5%) | 4 (4.8%) | 3 (3.6%) | | |

^{*1} The support criteria and data entry method (questionnaire format, data entry staff, etc.) were changed in the Follow-up for FY2013 and those that followed.

^{*2} This criterion was added in the Follow-up for FY2013 and those that followed.

(3) Reasons for ending support (See Table 14.)

Support was ended through "Carefully listening to participants' statements (by sorting out problems through carefully listening to participants' statements)" for 229 mothers (60.3%), and through "Providing information and introducing administrative service offices" for 90 mothers (23.7%). The number of cases where support was discontinued due to the absence of the respondents was 124 (32.6%). (Multiple responses are allowed. The denominator for calculating percentages is the number of mothers in need of support.)

[Reference]

| • | 4 | | | | |
|------------------------------|-------------------------|--|-----------------------------------|---|-------------|
| Survey year | Survey | 1st | 2nd | 3rd | Absence |
| FY 2015 | Follow-up for FY2011 | Carefully listen to participants' statements*1 197 (52.5%) | Provide information*2 105 (28.0%) | Confirm consultation availability*3 29 (7.7%) | 131 (34.9%) |
| FY 2016 | Follow-up for FY2012 | Carefully listen to participants' statements 159 (62.1%) | Provide information 53 (20.7%) | Confirm consultation availability 26 (10.2%) | 70 (27.3%) |
| FY 2017 | Follow-up for FY2013 | Carefully listen to participants' statements 245 (62.3%) | Provide information 133 (33.8%) | Confirm consultation availability 66 (16.8%) | 119 (30.3%) |
| FY Follow-up for 2018 FY2014 | | Carefully listen to participants' statements 229 (60.3%) | Provide information 90 (23.7%) | Confirm consultation availability 55 (14.5%) | 124 (32.6%) |

^{*1} Support was ended by sorting out problems by carefully listening to participants' statements.

(4) Conclusion

- A The percentage of support provided based on responses to questions regarding depressive tendencies was 9.7%, remaining almost the same as in the follow-up survey in the previous fiscal year.
- B The most common topic of consultations was "Mothers' mental and/or physical health," based on the same support criteria as those in the first and the following follow-up surveys (only based on responses to questions regarding depressive tendencies and comments in the free comment section). The percentage of consultations on "Anxieties about radiation and its effects" has been on a declining trend.
- C Support was ended mainly through "Carefully listening to participants' statements (by sorting out problems through carefully listening to participants' statements)."

^{*2} Support was ended by appropriately providing information and introducing administrative service offices.

^{*3} Support was ended by confirming that participants already have medical institutions or counselors to consult with.

5 Tabulated Results of the Follow-up for FY2014

Coverage: 5,856 mothers, out of the overall respondents to the FY2014 PBS, who gave a

live birth and were confirmed to be living with their children as of September

2018

Tabulated responses: The questionnaire was delivered on January 11, 2019, and 2,719 responses received from January 11 to August 31, 2019 were tabulated.

(1) Number of survey sheets distributed and status of responses

[Table 1]

| | Number of | | Number of respondents | | | | | | |
|------------|-------------|---------------|-----------------------|-----------------|---------|------------------------------|--------|-------|--|
| Region | survey | survey sheets | | Total responses | | Breakdown by response method | | | |
| | distributed | | (respon | se rate) | By post | | Online | | |
| Kenpoku | 1,461 | 24.9% | 753 | (51.5%) | 547 | 72.6% | 206 | 27.4% | |
| Kenchu | 1,778 | 30.4% | 815 | (45.8%) | 574 | 70.4% | 241 | 29.6% | |
| Kennan | 423 | 7.2% | 194 | (45.9%) | 144 | 74.2% | 50 | 25.8% | |
| Soso | 419 | 7.2% | 175 | (41.8%) | 130 | 74.3% | 45 | 25.7% | |
| lwaki | 1,028 | 17.6% | 480 | (46.7%) | 337 | 70.2% | 143 | 29.8% | |
| Aizu | 693 | 11.8% | 281 | (40.5%) | 204 | 72.6% | 77 | 27.4% | |
| Minamiaizu | 54 | 0.9% | 21 | (38.9%) | 15 | 71.4% | 6 | 28.6% | |
| Total | 5,856 | 100.0% | 2,719 | (46.4%) | 1,951 | 71.8% | 768 | 28.2% | |

(2) Tabulation by survey item

Responses from 2,719 respondents were tabulated (invalid responses: 0). Individual question items may contain no or invalid responses.

[Table 2] Do you usually consider yourself healthy? (Q.1)

The percentage of mothers with poor subjective health (those who responded "Not so healthy" or "Not healthy") was 7.9%.

| Region | Very h | ealthy | Rather | healthy | Not so | healthy | Not he | ealthy | No or in | | Total |
|------------|--------|--------|--------|---------|--------|---------|--------|--------|----------|------|-------|
| Kenpoku | 123 | 16.3% | 568 | 75.4% | 55 | 7.3% | 6 | 0.8% | 1 | 0.1% | 753 |
| Kenchu | 143 | 17.5% | 596 | 73.1% | 65 | 8.0% | 6 | 0.7% | 5 | 0.6% | 815 |
| Kennan | 24 | 12.4% | 152 | 78.4% | 17 | 8.8% | 1 | 0.5% | 0 | 0.0% | 194 |
| Soso | 25 | 14.3% | 135 | 77.1% | 14 | 8.0% | 1 | 0.6% | 0 | 0.0% | 175 |
| lwaki | 113 | 23.5% | 335 | 69.8% | 30 | 6.3% | 1 | 0.2% | 1 | 0.2% | 480 |
| Aizu | 48 | 17.1% | 213 | 75.8% | 16 | 5.7% | 4 | 1.4% | 0 | 0.0% | 281 |
| Minamiaizu | 2 | 9.5% | 19 | 90.5% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 21 |
| Total | 478 | 17.6% | 2018 | 74.2% | 197 | 7.2% | 19 | 0.7% | 7 | 0.3% | 2,719 |

^{*} As percentages are rounded, the sum of percentages for each item may not become 100%.

[Table 3] Have you often felt down or depressed during the past month? (Q.2)

| Region | Ye | es | N | 0 | No or respo | Total | |
|------------|-----|-------|-------|-------|-------------|-------|-------|
| Kenpoku | 161 | 21.4% | 585 | 77.7% | 7 | 0.9% | 753 |
| Kenchu | 163 | 20.0% | 640 | 78.5% | 12 | 1.5% | 815 |
| Kennan | 36 | 18.6% | 155 | 79.9% | 3 | 1.5% | 194 |
| Soso | 46 | 26.3% | 127 | 72.6% | 2 | 1.1% | 175 |
| lwaki | 80 | 16.7% | 394 | 82.1% | 6 | 1.3% | 480 |
| Aizu | 62 | 22.1% | 218 | 77.6% | 1 | 0.4% | 281 |
| Minamiaizu | 2 | 9.5% | 19 | 90.5% | 0 | 0.0% | 21 |
| Total | 550 | 20.2% | 2,138 | 78.6% | 31 | 1.1% | 2,719 |

[Table 4] During the past month, have you often felt uninterested in or unable to truly enjoy things? (Q.3)

| Region | Yes | | N | 0 | No or respo | | Total |
|------------|-----|-------|-------|-------|-------------|------|-------|
| Kenpoku | 92 | 12.2% | 654 | 86.9% | 7 | 0.9% | 753 |
| Kenchu | 108 | 13.3% | 695 | 85.3% | 12 | 1.5% | 815 |
| Kennan | 20 | 10.3% | 171 | 88.1% | 3 | 1.5% | 194 |
| Soso | 22 | 12.6% | 151 | 86.3% | 2 | 1.1% | 175 |
| lwaki | 41 | 8.5% | 433 | 90.2% | 6 | 1.3% | 480 |
| Aizu | 42 | 14.9% | 238 | 84.7% | 1 | 0.4% | 281 |
| Minamiaizu | 2 | 9.5% | 19 | 90.5% | 0 | 0.0% | 21 |
| Total | 327 | 12.0% | 2,361 | 86.8% | 31 | 1.1% | 2,719 |

[Table 5] Depressive tendencies

(Regarding the respondents who responded "Yes" to both or either of Q.2 and Q.3)

| | | , , | <u> </u> | | | | | | |
|------------|---------|--------|----------|--------|---------|--------|------------------|------|-------|
| Region | "Yes" t | o both | "Yes" to | either | "No" to | o both | No or i respo | | Total |
| Kenpoku | 76 | 10.1% | 101 | 13.4% | 569 | 75.6% | 7 | 0.9% | 753 |
| Kenchu | 86 | 10.6% | 99 | 12.1% | 618 | 75.8% | 12 | 1.5% | 815 |
| Kennan | 15 | 7.7% | 26 | 13.4% | 150 | 77.3% | 3 | 1.5% | 194 |
| Soso | 18 | 10.3% | 32 | 18.3% | 123 | 70.3% | 2 | 1.1% | 175 |
| lwaki | 32 | 6.7% | 57 | 11.9% | 385 | 80.2% | 6 | 1.3% | 480 |
| Aizu | 36 | 12.8% | 32 | 11.4% | 212 | 75.4% | 1 | 0.4% | 281 |
| Minamiaizu | 2 | 9.5% | 0 | 0.0% | 19 | 90.5% | 0 | 0.0% | 21 |
| Total | 265 | 9.7% | 347 | 12.8% | 2,076 | 76.4% | 31 | 1.1% | 2,719 |

^{*} Depressive tendencies: 22.5% [("Yes" to both + "Yes" to either (612)) / Total (2,719)]

[Table 6] Do you sometime feel a lack of confidence concerning child-rearing? (Q.4)

| Region | Ye | es | No | | Not | sure | | No or invalid responses | | |
|------------|-----|-------|-------|-------|-------|-------|---|-------------------------|-------|--|
| Kenpoku | 153 | 20.3% | 297 | 39.4% | 298 | 39.6% | 5 | 0.7% | 753 | |
| Kenchu | 130 | 16.0% | 308 | 37.8% | 375 | 46.0% | 2 | 0.2% | 815 | |
| Kennan | 38 | 19.6% | 86 | 44.3% | 70 | 36.1% | 0 | 0.0% | 194 | |
| Soso | 35 | 20.0% | 70 | 40.0% | 70 | 40.0% | 0 | 0.0% | 175 | |
| lwaki | 70 | 14.6% | 236 | 49.2% | 173 | 36.0% | 1 | 0.2% | 480 | |
| Aizu | 54 | 19.2% | 115 | 40.9% | 111 | 39.5% | 1 | 0.4% | 281 | |
| Minamiaizu | 0 | 0.0% | 13 | 61.9% | 8 | 38.1% | 0 | 0.0% | 21 | |
| Total | 480 | 17.7% | 1,125 | 41.4% | 1,105 | 40.6% | 9 | 0.3% | 2,719 | |

[Table 7] Please check all the boxes that describe what you are worried about regarding radiation effects. (Q.5)

| Region | Child's | health | Prej | udice | F | ood | _ | enetic fects | W | /ater | _ | tdoor ivities | Ot | her | Valid responses |
|------------|---------|--------|-------|-------|-----|-------|-----|-----------------|-----|-------|-----|------------------|----|------|-----------------|
| Kenpoku | 434 | 67.1% | 297 | 45.9% | 208 | 32.1% | 204 | 31.5% | 146 | 22.6% | 156 | 24.1% | 8 | 1.2% | 647 |
| Kenchu | 453 | 64.4% | 340 | 48.4% | 234 | 33.3% | 239 | 34.0% | 218 | 31.0% | 199 | 28.3% | 8 | 1.1% | 703 |
| Kennan | 117 | 69.6% | 88 | 52.4% | 69 | 41.1% | 52 | 31.0% | 65 | 38.7% | 45 | 26.8% | 0 | 0.0% | 168 |
| Soso | 85 | 57.0% | 72 | 48.3% | 64 | 43.0% | 55 | 36.9% | 59 | 39.6% | 27 | 18.1% | 0 | 0.0% | 149 |
| lwaki | 226 | 57.1% | 168 | 42.4% | 145 | 36.6% | 111 | 28.0% | 151 | 38.1% | 98 | 24.7% | 4 | 1.0% | 396 |
| Aizu | 142 | 59.4% | 87 | 36.4% | 105 | 43.9% | 54 | 22.6% | 78 | 32.6% | 61 | 25.5% | 1 | 0.4% | 239 |
| Minamiaizu | 12 | 63.2% | 6 | 31.6% | 9 | 47.4% | 7 | 36.8% | 3 | 15.8% | 4 | 21.1% | 0 | 0.0% | 19 |
| Total | 1,469 | 63.3% | 1,058 | 45.6% | 834 | 35.9% | 722 | 31.1% | 720 | 31.0% | 590 | 25.4% | 21 | 0.9% | 2,321 |

^{*} The denominator for calculating percentages is the number of valid responses (those who checked at least one box). As multiple responses are allowed, the total of the percentages may not be 100.0%.

Questions 6 and 7 pertain to children born from August 1, 2013 to April 23, 2015.

[Table 8-1] Has your child ever had a disease that required hospitalization? (Q.6)

| Region | Ye | Yes | | 0 | No or respo | | Total |
|------------|-----|-------|-------|-------|----------------|------|-------|
| Kenpoku | 207 | 27.5% | 538 | 71.4% | 8 | 1.1% | 753 |
| Kenchu | 208 | 25.5% | 593 | 72.8% | 14 | 1.7% | 815 |
| Kennan | 55 | 28.4% | 137 | 70.6% | 2 | 1.0% | 194 |
| Soso | 48 | 27.4% | 126 | 72.0% | 1 | 0.6% | 175 |
| Iwaki | 88 | 18.3% | 388 | 80.8% | 4 | 0.8% | 480 |
| Aizu | 72 | 25.6% | 206 | 73.3% | 3 | 1.1% | 281 |
| Minamiaizu | 11 | 52.4% | 10 | 47.6% | 0 | 0.0% | 21 |
| Total | 689 | 25.3% | 1,998 | 73.5% | 32 | 1.2% | 2,719 |

^{*85.4%} of the respondents checked at least one box (2,321 out of 2,719 respondents).

[Table 8-2] Diseases that caused hospitalization mentioned in Q.6 (Has your child ever had a disease that required hospitalization?)

(Multiple responses were allowed.)

| | | | | (| | o respenses were anowed. | |
|------------------------------|-----|--------------------------------------|---|---|---|---|-----|
| Pneumonia | 160 | Epilepsy | 3 | Viral pneumonia | 1 | Neuroblastoma | 1 |
| RSV infection | 85 | Rotavirus gastroenteritis | 3 | West syndrome | 1 | Hydrocephalus | 1 |
| Bronchitis | 58 | Jaundice | 3 | Croup | 1 | Pure red cell aplasia | 1 |
| Febrile seizure | 48 | Acute nasopharyngitis | 3 | Klebsiella pneumonia | 1 | Congenital arachnoid cyst | 1 |
| Kawasaki disease | 44 | Bronchiolitis | 3 | Status epilepticus | 1 | Congenital duodenal stenosis | 1 |
| Asthma | 34 | Food allergy | 3 | Human metapneumo-virus infection | 1 | Congenital upper airway stenosis | 1 |
| Gastroenteritis | 31 | Cardiac disease | 3 | Human metapneumo-virus bronchitis | 1 | Multiple erythema | 1 |
| Inguinal hernia | 26 | Allergic purpura | 2 | Human metapneumo-virus bronchial pneumonia | 1 | Nevus of Ota | 1 |
| Bronchial asthma | 14 | Viral gastroenteritis | 2 | Human metapneumo-virus pneumonia | 1 | Meconium aspiration syndrome | 1 |
| Influenza | 13 | Norovirus gastroenteritis | 2 | Herpangina | 1 | Colorectal polyp | 1 |
| Urinary tract infection | 13 | Retractile testis | 2 | Herpes infection | 1 | Toxicoderma | 1 |
| Adenovirus infection | 10 | Bronchial pneumonia | 2 | Herpetic gingivostomatitis | 1 | Intestinal obstruction | 1 |
| RSV pneumonia | 9 | Acute laryngitis | 2 | Lymphadenitis | 1 | Anoxic brain injury | _ 1 |
| Otitis media | 9 | Acute upper respiratory inflammation | 2 | Mandible fracture | 1 | Craniosynostosis | 1 |
| Mycoplasma pneumonia | 8 | Cheiloschisis | 2 | Suppurative lymphadenitis | 1 | Idiopathic thrombocytopenic purpura | 1 |
| Croup syndrome | 7 | Neutropenia | 2 | Suppurative gonarthritis | 1 | Hearing loss | 1 |
| Intussusception | 7 | Lipoblastoma | 2 | Regional ileitis | 1 | Ureter enlargement | 1 |
| Cold syndrome | 6 | Atrial septal defect | 2 | Ptosis | 1 | Urachal remnant | 1 |
| Norovirus infection | 6 | Neonatal jaundice | 2 | Pneumothorax | 1 | Burn | 1 |
| Dehydration | 6 | Hydronephrosis | 2 | Acute myositis | 1 | Accessory ear | 1 |
| Exanthem subitum | 6 | Erythema exsudativum multiforme | 2 | Very low birth weight | 1 | Cellulitis | 1 |
| Streptococcal infection | 6 | Extremely low birth weight | 2 | Conjunctival dermoid cyst | 1 | Chronic lung disease | 1 |
| Seizure | 5 | Undescended testicle | 2 | Hemangioma | 1 | Egg allergy | 1 |
| Nephrotic syndrome | 5 | Hypospadia | 2 | Cleft lip and palate | 1 | Ovary sliding hernia | 1 |
| Rotavirus infection | 5 | Hypertrophic pyloric stenosis | 2 | Laryngitis | 1 | Funnel chest | 1 |
| Pharyngitis | 5 | Hemangioma | 2 | Laryngomalacia | 1 | Asthmatic bronchitis | 1 |
| Acute bronchopneumonia | 5 | Apnea syndrome | 2 | Syndactyly | 1 | Asthmatic attack | 1 |
| Hand, foot and mouth disease | 5 | Tonsillitis | 2 | Fracture | 1 | Adenopharyngitis | 1 |
| Pyelonephritis | 5 | Naval hernia | 2 | Purpura | 1 | Enlarged tonsil | 1 |
| Hypoglycemia | 5 | Type 1 diabetes | 1 | Parotid lymphadenitis | 1 | Perianal abscess | 1 |
| Cryptorchidism | 5 | EBV infection | 1 | Autointoxication | 1 | Axillary cellulitis | 1 |
| Hydrocele testis | 4 | RSV bronchial pneumonia | 1 | Juvenile polyp | 1 | Vesicoureteric reflux | 1 |
| Ventricular septal defect | 4 | Adenovirus gastroenteritis | 1 | Pediatric epilepsy | 1 | Cervical abscess | 1 |
| Low birth weight | 4 | Aphthous stomatitis | 1 | Small bowel abnormalities | 1 | Peters anomaly (congenital corneal opacity) | 1 |
| Tonsillar hypertrophy | 4 | Allergy | 1 | Small bowel atresia | 1 | Staphylococcal scalded skin syndrome | 1 |
| RSV bronchitis | 3 | Hemophilus influenzae pneumonia | 1 | Heart disease | 1 | | |
| Anaphylactic shock | 3 | Viral bronchitis | 1 | Neonatal asphyxia | 1 | | |

[Table 9] Please check all the boxes that describe your anxiety about your child/children (Q.7)

| Region | Mental and develop | l physical oment | Lifestyle | habits | Dise | ase | Oth | ier | Valid responses |
|------------|--------------------|---------------------|-----------|--------|------|-------|-----|------|-----------------|
| Kenpoku | 281 | 56.8% | 247 | 49.9% | 190 | 38.4% | 24 | 4.8% | 495 |
| Kenchu | 307 | 56.9% | 275 | 50.9% | 217 | 40.2% | 16 | 3.0% | 540 |
| Kennan | 79 | 63.2% | 54 | 43.2% | 54 | 43.2% | 5 | 4.0% | 125 |
| Soso | 61 | 62.9% | 42 | 43.3% | 29 | 29.9% | 7 | 7.2% | 97 |
| lwaki | 164 | 57.5% | 126 | 44.2% | 115 | 40.4% | 10 | 3.5% | 285 |
| Aizu | 82 | 48.0% | 82 | 48.0% | 57 | 33.3% | 7 | 4.1% | 171 |
| Minamiaizu | 7 | 58.3% | 4 | 33.3% | 5 | 41.7% | 0 | 0.0% | 12 |
| Total | 981 | 56.9% | 830 | 48.1% | 667 | 38.7% | 69 | 4.0% | 1,725 |

^{*} The denominator for calculating percentages is the number of valid responses (those who checked at least one box). As multiple responses are allowed, the total of the percentages may not be 100.0%.

(3) Free comments

[Table 10-1] Percentage of mothers who entered free comments

| Region | Those wh comn | o entered nents | Those wh enter co | no did not mments | Total |
|------------|---------------|--------------------|----------------------|----------------------|-------|
| Kenpoku | 51 | 6.8% | 702 | 93.2% | 753 |
| Kenchu | 60 | 7.4% | 755 | 92.6% | 815 |
| Kennan | 22 | 11.3% | 172 | 88.7% | 194 |
| Soso | 12 | 6.9% | 163 | 93.1% | 175 |
| lwaki | 29 | 6.0% | 451 | 94.0% | 480 |
| Aizu | 24 | 8.5% | 257 | 91.5% | 281 |
| Minamiaizu | 0 | 0.0% | 21 | 100.0% | 21 |
| Total | 198 | 7.3% | 2,521 | 92.7% | 2,719 |

[Table 10-2] Content of free comments

| Content | Number | Percentage |
|--|--------|------------|
| Positive comments about this survey | 42 | 21.2% |
| Opinions/complaints about this survey | 26 | 13.1% |
| Childcare consultations | 17 | 8.6% |
| Anxieties about radiation effects on fetus/child | 14 | 7.1% |
| Request for enhancing child-rearing support services | 14 | 7.1% |
| Request concerning information provision and publication of survey results | 11 | 5.6% |
| Anxieties and/or dissatisfaction about insufficient medical services | 9 | 4.5% |
| Complaint about mother's mental disorders | 9 | 4.5% |
| Request for enhancing medical services and request concerning physical health care | 9 | 4.5% |
| Request for ensuring decontamination and securing play areas | 7 | 3.5% |
| Anxieties about radiation effects on baby food and other food | 6 | 3.0% |
| Complaint about mother's physical disorders | 6 | 3.0% |
| Anxieties and/or dissatisfaction about the reliability or lack of information | 4 | 2.0% |
| Anxieties about radiation effects on water | 3 | 1.5% |
| Request concerning the Thyroid Ultrasound Examination | 3 | 1.5% |
| Matters concerning financial anxiety and burden | 2 | 1.0% |
| Request for financial support | 2 | 1.0% |
| Request concerning the Fukushima Health Management Survey | 2 | 1.0% |
| Interpersonal relations | 2 | 1.0% |
| Other matters concerning inspections and surveys | 1 | 0.5% |
| Support for life as a refugee | 1 | 0.5% |
| Other | 48 | 24.2% |

^{*} Multiple responses were allowed. The denominator for calculating percentages is 198, the total number of respondents who entered free comments.

^{*63.4%} of the respondents checked at least one box (1,725 out of 2,719 respondents).

(4) Status of post-survey support

The number of mothers in need of support in the Follow-up for FY2014 was 380 (14.0% of 2,719 respondents).

Tabulation of data regarding post-survey support is based on 2,719 responses received from January 11 to August 31, 2019.

[Table 11] Number of mothers in need of support

| Region | Number of respondents | Number of mothers in need of support | | | |
|------------|-----------------------|--|-------|--|--|
| Kenpoku | 753 | 105 | 13.9% | | |
| Kenchu | 815 | 121 | 14.8% | | |
| Kennan | 194 | 24 | 12.4% | | |
| Soso | 175 | 26 | 14.9% | | |
| lwaki | 480 | 50 | 10.4% | | |
| Aizu | 281 | 52 | 18.5% | | |
| Minamiaizu | 21 | 2 | 9.5% | | |
| Total | 2,719 | 380 | 14.0% | | |

^{*}The denominator for calculating percentages accounted for by mothers in need of support is the number of respondents.

[Table 12] Breakdown of mothers in need of support by region

| Region | identified b responses regarding | eed of support ased on their to questions depressive encies | Mothers in ne identified b content o comr | Total | |
|------------|--|---|--|-------|-----|
| Kenpoku | 76 | 72.4% | 29 | 27.6% | 105 |
| Kenchu | 86 71.1% | | 35 | 28.9% | 121 |
| Kennan | 15 | 62.5% | 9 | 37.5% | 24 |
| Soso | 18 | 69.2% | 8 | 30.8% | 26 |
| lwaki | 32 | 64.0% | 18 | 36.0% | 50 |
| Aizu | 36 69.2% | | 16 | 30.8% | 52 |
| Minamiaizu | 2 | 100.0% | 0 | 0.0% | 2 |
| Total | 265 | 69.7% | 115 | 30.3% | 380 |

^{*} As percentages are rounded, the sum of percentages for each item may not become 100%.

[Table 13] Breakdown of major topics of consultations by region

| Region | me ar phy | thers' ental id/or /sical ealth | cond child | atters cerning rearing lly life) | Anxieties about radiation and its effects Children's mental and/or physical health Children's mental and/or family life | | cerning concerning | | erning as a | Other | | Number of mothers in need of support | | | |
|------------|-----------------|---|---------------|---|---|-------|----------------------|-------|----------------|-------|---|---|-----|--------|-----|
| Kenpoku | 32 | 30.5% | 16 | 15.2% | 5 | 4.8% | 7 | 6.7% | 4 | 3.8% | 0 | 0.0% | 62 | 59.0% | 105 |
| Kenchu | 23 | 19.0% | 14 | 11.6% | 16 | 13.2% | 6 | 5.0% | 9 | 7.4% | 1 | 0.8% | 73 | 60.3% | 121 |
| Kennan | 4 | 16.7% | 2 | 8.3% | 4 | 16.7% | 1 | 4.2% | 0 | 0.0% | 0 | 0.0% | 17 | 70.8% | 24 |
| Soso | 7 | 26.9% | 4 | 15.4% | 0 | 0.0% | 3 | 11.5% | 4 | 15.4% | 0 | 0.0% | 15 | 57.7% | 26 |
| lwaki | 8 | 16.0% | 4 | 8.0% | 5 | 10.0% | 4 | 8.0% | 1 | 2.0% | 0 | 0.0% | 33 | 66.0% | 50 |
| Aizu | 8 | 15.4% | 5 | 9.6% | 6 | 11.5% | 3 | 5.8% | 4 | 7.7% | 0 | 0.0% | 33 | 63.5% | 52 |
| Minamiaizu | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 2 | 100.0% | 2 |
| Total | 82 | 21.6% | 45 | 11.8% | 36 | 9.5% | 24 | 6.3% | 22 | 5.8% | 1 | 0.3% | 235 | 61.8% | 380 |

^{*} The denominator for calculating percentages is the number of mothers in need of support. As multiple responses are allowed, the total of the percentages may not be 100.0%.

[Table 14] Breakdown of reasons for ending support

| Region | list parti | refully ten to cipants' ments ¹⁾ | | intormation ² / | | Confirm consultation availability ³⁾ | | Respond to Q&A ⁴⁾ | | ommen o seek edical are ⁵⁾ | the H Su | erral to Mental ealth upport eam ⁶⁾ | | eferral to icipalities ⁷ |
|------------|---------------|--|----|----------------------------|----|---|----|------------------------------|----|--|----------------|--|---|-------------------------------------|
| Kenpoku | 73 | 69.5% | 33 | 31.4% | 24 | 22.9% | 6 | 5.7% | 3 | 2.9% | 2 | 1.9% | 0 | 0.0% |
| Kenchu | 71 | 58.7% | 26 | 21.5% | 18 | 14.9% | 6 | 5.0% | 4 | 3.3% | 1 | 0.8% | 0 | 0.0% |
| Kennan | 13 | 54.2% | 6 | 25.0% | 4 | 16.7% | 5 | 20.8% | 1 | 4.2% | 0 | 0.0% | 0 | 0.0% |
| Soso | 14 | 53.8% | 4 | 15.4% | 3 | 11.5% | 0 | 0.0% | 1 | 3.8% | 0 | 0.0% | 0 | 0.0% |
| lwaki | 26 | 52.0% | 9 | 18.0% | 4 | 8.0% | 7 | 14.0% | 3 | 6.0% | 0 | 0.0% | 0 | 0.0% |
| Aizu | 30 | 57.7% | 12 | 23.1% | 2 | 3.8% | 2 | 3.8% | 1 | 1.9% | 0 | 0.0% | 0 | 0.0% |
| Minamiaizu | 2 | 100.0 % | 0 | 0.0% | 0 | 0 0.0% | | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Total | 229 | 60.3% | 90 | 23.7% | 55 | 14.5% | 26 | 6.8% | 13 | 3.4% | 3 | 0.8% | 0 | 0.0% |

| Region | Radi | ltation | speci | Introduce specialist physicians ⁹⁾ | | Absence | | Contact information unknown | | fusal | 0 | ther | Number of mothers in need of support |
|------------|------|---------|-------|---|-----|---------|----|-----------------------------------|---|-------|---|------|---|
| Kenpoku | 0 | 0.0% | 0 | 0.0% | 27 | 25.7% | 2 | 1.9% | 1 | 1.0% | 1 | 1.0% | 105 |
| Kenchu | 0 | 0.0% | 0 | 0.0% | 42 | 34.7% | 3 | 2.5% | 0 | 0.0% | 3 | 2.5% | 121 |
| Kennan | 0 | 0.0% | 0 | 0.0% | 9 | 37.5% | 2 | 8.3% | 0 | 0.0% | 0 | 0.0% | 24 |
| Soso | 0 | 0.0% | 0 | 0.0% | 8 | 30.8% | 4 | 15.4% | 0 | 0.0% | 0 | 0.0% | 26 |
| lwaki | 0 | 0.0% | 0 | 0.0% | 21 | 42.0% | 3 | 6.0% | 0 | 0.0% | 0 | 0.0% | 50 |
| Aizu | 0 | 0.0% | 0 | 0.0% | 17 | 32.7% | 4 | 7.7% | 0 | 0.0% | 1 | 1.9% | 52 |
| Minamiaizu | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 2 |
| Total | 0 | 0.0% | 0 | 0.0% | 124 | 32.6% | 18 | 4.7% | 1 | 0.3% | 5 | 1.3% | 380 |

^{*} The denominator for calculating percentages is the number of mothers in need of support. The breakdown shows the aggregated number. As multiple responses are allowed, the total of the percentages may not be 100.0%.

- 1) Support was ended by sorting out problems by carefully listening to participants' statements.
- 2) Support was ended by appropriately providing information and introducing administrative service offices.
- 3) Support was ended by confirming that participants already have medical institutions or counselors to consult with.
- 4) Support was ended by responding to participants' questions.
- 5) Support was ended by recommending participants to seek medical care by physicians.
- 6) Support was ended by providing participants' information to the Mental Health Support Team of the Fukushima Medical University by obtaining participants' consent.
- 7) Support was ended by providing participants' information to municipalities by obtaining participants' consent.
- 8) Support was ended by providing participants' information to the Radiation Consultation Office of Fukushima Medical University by obtaining participants' consent.
- 9) Support was ended by introducing specialist physicians of the Fukushima Medical University.

"Pregnancy and Birth Survey," Fukushima Health Management Survey Results (from FY2011 to FY2018)

1 Purpose and Outline of the Survey

Fukushima Prefecture has been conducting the Pregnancy and Birth Survey every year since FY2011 with the aim of properly ascertaining mental and physical health conditions of pregnant women intending to give birth and raise children in Fukushima, and alleviating their worries and providing them with necessary care.

A high percentage of questionnaire respondents immediately after the earthquake showed depressive tendencies in particular and the number of mothers who were not confident about child rearing was apt to increase. Accordingly, a follow-up survey has been conducted every year since FY2015 targeting mothers who had no opportunity of receiving health checkups for four years after delivery, starting with mothers who responded to the questionnaire survey in FY2011.

2 Outline of the Implementation of the Survey and the Provision of Support

(1) Main survey

Coverage: Women who obtained a maternity handbook from municipalities in Fukushima

Women who obtained a maternity handbook somewhere else but received prenatal

checkups and gave birth in Fukushima

Survey items: • Outcome of pregnancy and babies' health conditions

• Pregnant women's mental health conditions

• Present living conditions (circumstances of a refugee life or forced separation from

family members)

• Situation during delivery and pregnant women's physical health conditions

· Confidence in raising children

· Attitude toward the next pregnancy

Survey method: Questionnaire sheets are sent to the targeted pregnant women, asking them to fill in the

sheets and send them back by post. The online response system was newly introduced

in FY2016.

(2) Follow-up survey

Coverage: Respondents of the FY2011 survey to FY2014 survey

Survey items: • Pregnant women's mental health conditions

• Confidence in raising children

· Worries over radiation effects

• Hospitalization of children

· Worries over children

Survey method: Questionnaire sheets are sent to the targeted regnant women, asking them to fill in the

sheets and send them back by post. The online response system was newly introduced

in FY2016.

(3) Provision of support

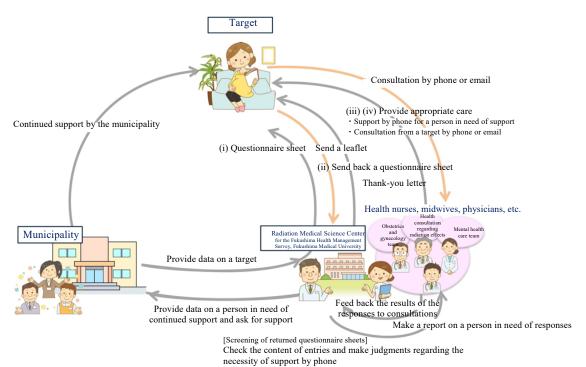
Criteria for support

Women falling under A. or B. below:

- A. Women falling under two survey items relating to depression
- B. Women considered to be in need of support based on the content of free comments (statements in the free comment column or for other survey items)
 - e.g. A woman who entered a depressive comment; a woman in need of child-rearing support; a woman worrying about figures of radiation doses; a woman complaining of feeling ill; a woman seeking concrete answers; a woman requesting support, etc.

Support methods

- A. Check the content of responses to the questionnaire promptly and identify respondents who seem to be in need of help.
- B. Midwives and health nurses of the Radiation Medical Science Center for the Fukushima Health Management Survey provide counseling and support by phone sequentially.
- C. When any case requiring more specialized responses is found through support by phone, the case is referred to a specialized physician. For women for whom regional support is found to be necessary, requests are made to municipalities where they reside to ask for further responses.
- D. Consultations are accepted at the email address and the phone line dedicated for the Pregnancy and Birth Survey and support is provided accordingly.



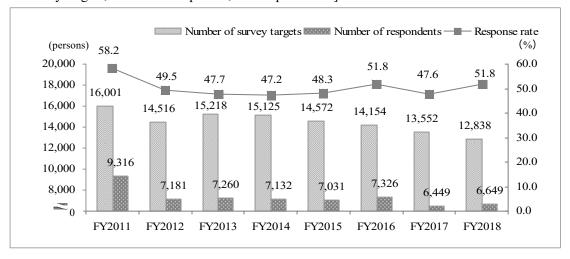
3 Survey Results

(1) Number of survey targets, number of responses, and response rate

For eight years, the response rate of the main survey was around 50%, showing a high level of people's interest. By area, immediately after the earthquake, the response rate was over 60% in the northern area of the prefecture and the Soso area, but the response rates showed no notable changes thereafter. The number of respondents once declined in FY2012 and recovered in FY2013, but was decreasing thereafter in the same manner as the trend of the number of births nationwide.

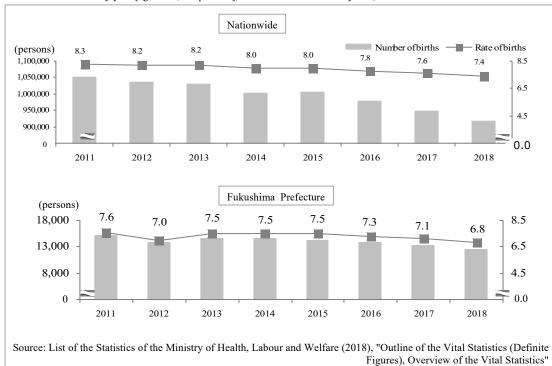
The response rate of the follow-up survey has been on a rise although being slightly lower than that of the main survey. By area as well, the response rates for the last two surveys were higher than before for all survey areas.

(Main survey)
[Number of survey targets, number of responses, and response rate]

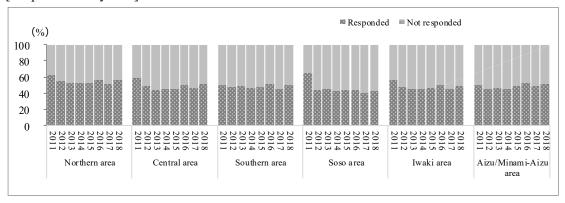


[Reference] Current Population Survey, Vital Statistics

(Number and rate of births by year [against 1,000 persons], sex ratio and total fertility rate)

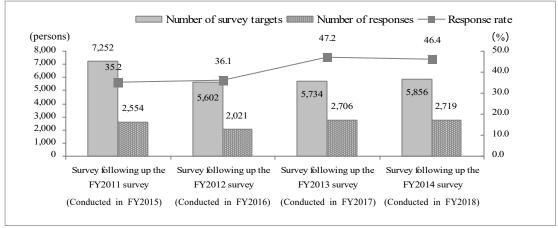


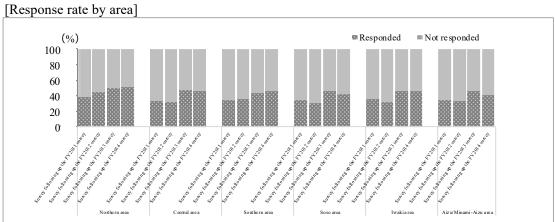
[Response rate by area]



(Follow-up survey)

[Number of survey targets, number of responses, and response rate]





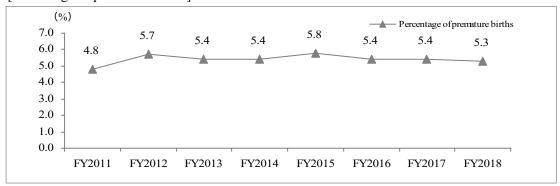
(2) Responses to the questionnaire

- A. Results of pregnancy (percentages of premature births and congenital abnormalities or anomalies)

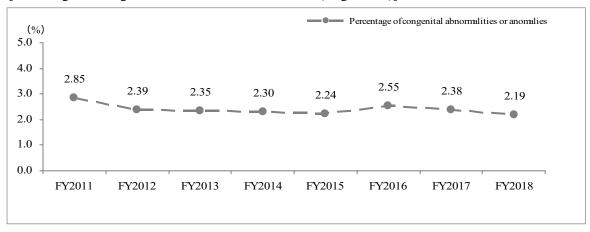
 The results of the Pregnancy and Birth Survey from FY2011 to FY2018 showed almost no differences from data of government statistics or other generally published data for each fiscal year.

 The percentages of congenital abnormalities or anomalies also showed no difference by area.
 - * Percentage of premature births: The national average for FY2017 was 5.7%. (Premature births: Babies born at a gestational age from 22 weeks to less than 37 weeks)
 - * The percentage of congenital abnormalities identifiable at the time of birth is generally 3% to 5% and the causes are diverse ("Guidelines for Obstetrical Practice in Japan: Obstetrics 2017").

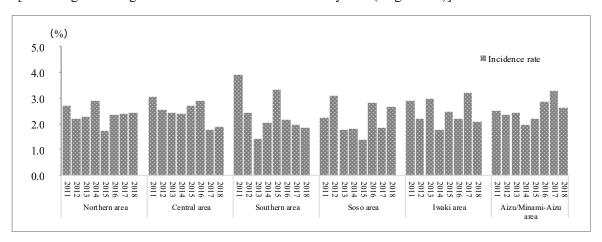
[Percentage of premature births]



[Percentages of congenital abnormalities or anomalies (single birth)]



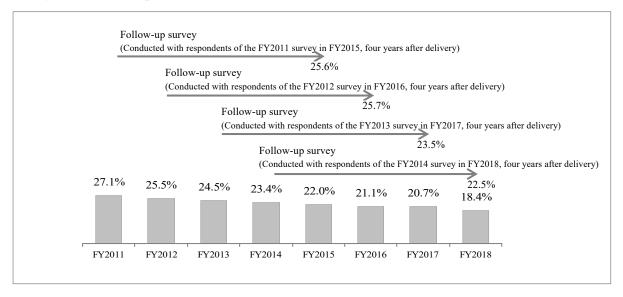
[Percentages of congenital abnormalities or anomalies by area (single birth)]



B. Mothers' mental health (percentage of depressive tendencies)

The number of mothers who responded affirmatively to both or either of the questions "Are you apt to feel depressed?" and "Are you uninterested in things?" was rather large in the earlier surveys but has been decreasing thereafter.

[Changes in mothers' depressive tendencies]



C. Care for pregnancy and delivery

The percentage of mothers unsatisfied with care for pregnancy and delivery has been small as a whole and is decreasing year by year.

[Percentage of mothers unsatisfied with care for pregnancy and delivery]

| Survey year | Percentage of responses "Unsatisfied" or "Completely unsatisfied" |
|-------------|--|
| FY2011 | No relevant questions contained |
| FY2012 | 3.5% |
| FY2013 | 2.3% |
| FY2014 | 2.7% |
| FY2015 | 2.4% |
| FY2016 | 2.1% |
| FY2017 | 1.7% |
| FY2018 | 1.7% |

- D. Status of family life and child rearing (percentages of mothers living a refugee life and mothers not confident about child rearing)
 - The percentage of mothers who responded that they are living a refugee life is decreasing year by year.
 - The percentage of mothers who responded that they sometimes are not confident about child rearing has remained slightly less than 20% since immediately after the earthquake up until now.

[Percentage of mothers living a refugee life]

| <u></u> | | 8 8 1 |
|---------|------|---|
| Survey | year | Percentage of responses that they are living a refugee life at present (including those living in temporary housing and those living in other types of housing) |
| FY20 | 011 | No relevant questions contained |
| FY20 | 012 | 7.7% |

| FY2013 | 5.5% |
|--------|------|
| FY2014 | 4.9% |
| FY2015 | 3.8% |
| FY2016 | 3.4% |
| FY2017 | 2.3% |
| FY2018 | 1.8% |

[Percentage of mothers not confident about child rearing]

| Survey year | Percentage of responses that they are not confident about child rearing |
|-------------|---|
| FY2011 | No relevant questions contained |
| FY2012 | 15.4% |
| FY2013 | 17.5% |
| FY2014 | 16.6% |
| FY2015 | 17.7% |
| FY2016 | 16.6% |
| FY2017 | 18.1% |
| FY2018 | 17.7% |

E. Intention and request concerning next pregnancy and delivery

The percentage of mothers wishing to have another child has been constantly over 50% since the earthquake. Mothers who cited worries over radiation effects as a reason for not wishing to have another child accounted for less than 1% in the most recent survey.

[Intention concerning next pregnancy and delivery]

| Survey year | Percentage of responses that they wish to have another child | Percentage of responses citing worries over radiation effects as a reason for not wishing to have another child |
|-------------|--|---|
| FY2011 | No relevant questions contained | No relevant questions contained |
| FY2012 | 52.9% | 14.8% |
| FY2013 | 52.8% | 5.6% |
| FY2014 | 57.1% | 3.9% |
| FY2015 | 53.3% | 1.6% |
| FY2016 | 54.6% | 1.2% |
| FY2017 | 52.4% | 0.8% |
| FY2018 | 52.2% | 0.5% |

F. Free comments (percentages of mothers entering free comments and mothers mentioning worries over radiation effects on fetuses and children, in particular)

The percentage of mothers who entered free comments on their worries over radiation effects on fetuses and children was nearly 30% immediately after the commencement of the survey but has been decreasing year by year to around 2% recently.

[Content of free comments]

| Survey year | Number of respondents who entered free comments (percentage) | Percentage of free comments regarding radiation effects on fetuses and children |
|-------------|--|---|
| FY2011 | 3,722 persons (42.2%) | 29.6% |

| FY2012 | 1,481 persons (20.7%) | 26.4% |
|--------|-----------------------|-------|
| FY2013 | 867 persons (12.0%) | 12.9% |
| FY2014 | 745 persons (10.5%) | 9.5% |
| FY2015 | 1,101 persons (15.7%) | 5.2% |
| FY2016 | 965 persons (13.3%) | 6.1% |
| FY2017 | 799 persons (12.4%) | 4.8% |
| FY2018 | 881 persons (13.4%) | 1.8% |

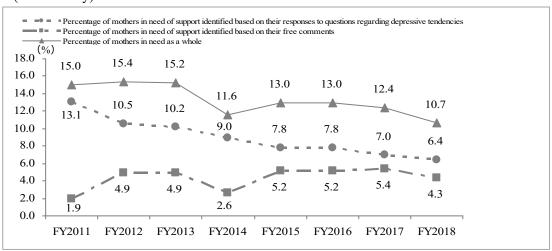
(3) Results of support

A. Provision of support

For mothers, out of the respondents of the questionnaire, who were judged to be in need of consultations and support based on their responses, full-time midwives and health nurses provide consultations and support by phone or by email. The percentage of mothers in need of support identified based on their responses to questions regarding depressive tendencies in this survey has decreased by nearly 50% from the level immediately after the earthquake and the percentage identified through follow-up surveys has also been on a decline. Since FY2012, the coverage of support has been expanded to include those suspected to be in need of support from the content of their free comments and the percentage of those in need of support marked 10.7% in FY2018.

[Provision of support and the content thereof]

(Main survey)

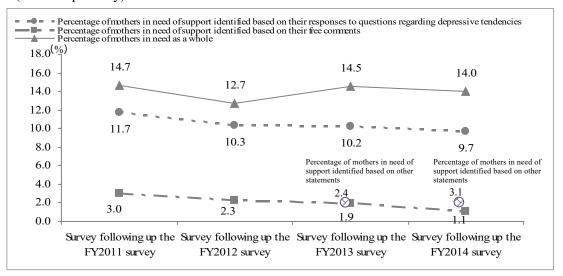


(cases)

| | | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 |
|------------------------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|
| Number of mothers in need | Responses to questions regarding depressive tendencies | 1,224 | 751 | 744 | 645 | 549 | 573 | 449 | 424 |
| of support | Free comments | 177 | 353 | 357 | 185 | 364 | 378 | 350 | 287 |
| | umber of spondents | 9,316 | 7,181 | 7,260 | 7,132 | 7,031 | 7,326 | 6,449 | 6,649 |

^{*}Mothers in need of support identified both based on their responses to questions regarding depressive tendencies and on their free comments are included in the category of those identified based on their responses to questions regarding depressive tendencies.

(Follow-up survey)



(cases)

| | | Survey following up the FY2011 survey (conducted in FY2015) | Survey following up the FY2012 survey (conducted in FY2016) | Survey following up the FY2013 survey (conducted in FY2017) | Survey following up the FY2014 survey (conducted in FY2018) |
|---|---|--|--|--|--|
| Number of mothers in need of support | Responses to questions regarding depressive tendencies | 299 | 209 | 277 | 265 |
| | Free comments | 76 | 47 | 51 | 31 |
| | Other statements | _ | _ | 65 | 84 |
| Number of respondents | | 2,554 | 2,021 | 2,706 | 2,719 |

^{*}Mothers in need of support identified both based on their responses to questions regarding depressive tendencies and on their free comments are included in the category of those identified based on their responses to questions regarding depressive tendencies.

B. Topics of consultations

Through this survey, support by phone has been provided to nearly 1,000 mothers every fiscal year, but the number of targets has been decreasing recently. Details of the consultations have varied by fiscal year. Consultations on worries over radiation and its effects were most common immediately after the earthquake but have decreased over time. Since FY2012, consultations on mothers' mental and physical health and matters concerning child rearing (daily life) have been increasing and have become dominant.

In the follow-up survey, the number of consultations on mothers' mental and physical health has constantly been the largest since the commencement of the survey in FY2015 up to FY2018. Consultations on worries over radiation and its effects have been decreasing year by year.

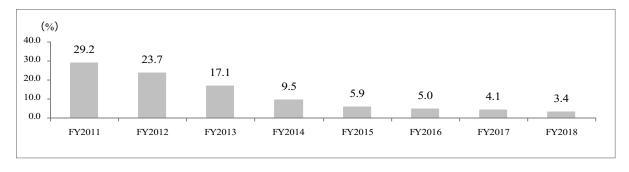
[Topics of consultations by phone]

(Main survey)

| (-12 | | | | | | | | |
|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 |
| 1st | Worries over | Mothers' mental | Mothers' mental | Mothers' mental | Mothers' mental | | Mothers' mental | Mothers' mental |
| | radiation and its | and physical |
| | effects | health |
| | 29.2% | 33.4% | 42.5% | 49.5% | 53.1% | 59.8% | 55.6% | 53.2% |
| 2ns | Mothers' mental | Matters |
| | and physical | concerning child |
| | health | rearing (daily |
| | | life) |
| | 20.2% | 26.7% | 38.7% | 36.1% | 40.9% | 43.4% | 51.8% | 41.4% |
| | Matters | Worries over | Children's | Matters | Matters | Matters | Matters | Children's |
| | concerning child | radiation and its | mental and | concerning | concerning | concerning | concerning | mental and |
| 3rd | rearing (daily | effects | physical health | family life | family life | family life | family life | physical health |
| | life) | | | | | | | |
| | 14.0% | 23.7% | 20.3% | 20.5% | 21.8% | 19.5% | 16.4% | 16.0% |
| 4th | Children's | Children's | Matters | Children's | Children's | Children's | Children's | Matters |
| | mental and | mental and | concerning | mental and | mental and | mental and | mental and | concerning |
| | physical health | physical health | family life | physical health | physical health | physical health | physical health | family life |
| | 10.5% | 13.4% | 19.8% | 14.5% | 20.6% | 18.0% | 8.6% | 9.3% |
| 5th | Matters | Matters | Worries over |
| | concerning a | concerning | radiation and its |
| | refugee life | family life | effects | effects | effects | effects | effects | effects |
| | 9.3% | 10.3% | 17.1% | 9.5% | 5.9% | 5.0% | 4.1% | 3.4% |

A single person may have made multiple consultations.

[Consultations on worries over radiation and its effects]



(Follow-up survey)

| , | 1 37 | | | |
|-----|---|---|---|---|
| | Survey following up the FY2011 survey (conducted in FY2015) | Survey following up the FY2012 survey (conducted in FY2016) | Survey following up the FY2013 survey (conducted in FY2017) | Survey following up the FY2014 survey (conducted in FY2018) |
| | Mothers' mental and physical |
| 1st | health | health | health | health |
| | 34.4% | 44.9% | 36.0% | 26.4% |
| | Worries over radiation and its | Matters concerning child rearing | Matters concerning child rearing | Matters concerning child rearing |
| 2ns | effects | (daily life) | (daily life) | (daily life) |
| | 25.6% | 23.0% | 27.7% | 12.2% |
| | Matters concerning child rearing | Children's mental and physical | Matters concerning family life | Matters concerning family life |
| 3rd | (daily life) | health | | |
| 3rd | 21.6% | 22.7% | 14.6% | 6.4% |
| | Children's mental and physical | Worries over radiation and its | Worries over radiation and its | Worries over radiation and its |
| 4th | health | effects | effects | effects |
| Tui | 18.1% | 13.3% | 13.1% | 5.7% |
| | Matters concerning family life | Matters concerning family life | Children's mental and physical | Children's mental and physical |
| 5th | | | health | health |
| | 13.9% | 10.5% | 9.8% | 5.4% |

^{*} The method of inputting information (the form and person to input information) was altered from the survey following up the FY2013 survey.

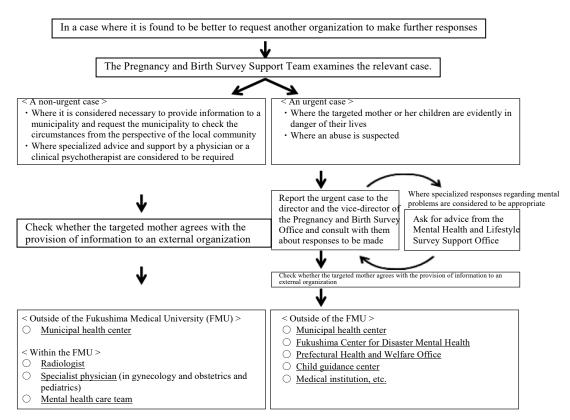
C. Referral to other organizations

When an urgent need for referral to a municipal government is found based on responses to the questionnaire, such as deterioration in psychological symptoms, difficulties in child rearing, child neglect, abuse, or domestic violence, a request for support is made to a service office of the relevant municipality after consulting with a member of the Prefectural Oversight Committee responsible for the Pregnancy and Birth Survey and obtaining consent from the relevant mother concerning the referral to the service office.

[Number of referrals of mothers in need of support to other organizations]

| | Municipal personnel in | | Radiation consultation | | Mental Health Support | | Specialist physicians of the | |
|-------------|------------------------|---------------------|-------------------------|---------------------|-----------------------|---------------------|------------------------------|---------------------|
| | charge of maternal and | | office of the Fukushima | | Team of the Fukushima | | Fukushima Medical | |
| Referred to | child health | | Medical University | | Medical University | | University | |
| | Main survey | Follow-up survey | Main survey | Follow-up survey | Main survey | Follow-up survey | Main survey | Follow-up survey |
| FY2011 | 2 | _ | 7 | _ | 4 | _ | 2 | _ |
| FY2012 | 6 | _ | 1 | _ | 14 | _ | 0 | _ |
| FY2013 | 1 | _ | 0 | _ | 6 | _ | 1 | _ |
| FY2014 | 3 | _ | 0 | _ | 1 | _ | 0 | _ |
| FY2015 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| FY2016 | 8 | 0 | 0 | 0 | 5 | 0 | 0 | 0 |
| FY2017 | 4 | 2 | 0 | 0 | 2 | 1 | 0 | 0 |
| FY2018 | 3 | 0 | 0 | 0 | 3 | 3 | 1 | 0 |

[Procedures for making contact with other organizations (outside of the Pregnancy and Birth Survey Office)]



4 Publication of Survey Results and Feedback to Communities

- The latest survey results are made available on the website of the Radiation Medical Science Center for the Fukushima Health Management Survey, Fukushima Medical University.
- From FY2014 to FY2017, we held briefing sessions to explain survey results in five areas of the

prefecture (northern area, southern area, Soso area, Aizu area, and Iwaki area).

- Since FY2015, we have reported the outline of the survey results to health nurses, etc. at meetings of personnel in charge of maternal and child health of all municipalities held by the prefectural government.
- In FY2019, we directly visited 13 municipal liaison associations mainly in the Hamadori area and individually reported the survey results.
- We prepared a leaflet to outline the survey and explain the outcomes and sent copies thereof together with questionnaire sheets to all survey targets and also delivered them to municipalities and obstetrics and gynecology clinics and other medical institutions.
- On the occasions of the public symposium hosted by the Japan Medical Association and the "Iki Iki Kenko Zukuri Forum (Health and Fitness Forum)," we displayed a panel showing the survey results and delivered the leaflet.

5 Efforts for Raising Response Rates

- From the FY2016 main survey, the online response system was newly introduced for the convenience of respondents.
- In collaboration with municipalities, we posted requests for cooperation to the survey on municipal PR magazines.
- As the questionnaire contains questions concerning a health examination for one-month old babies, questionnaire sheets came to be delivered on three occasions considering mothers' due dates from the FY2014 survey so that mothers could respond to those questions on a timely basis.
- We reviewed and decreased the questions to alleviate respondents' burden.
- We sent a reminder or sent questionnaire sheets again to encourage those not responding to the questionnaire to send back responses.
- We conducted a survey to check the status of responses among the targets of the FY2014 survey.

We selected one municipality each from the Hamadori area, Nakadori area and Aizu area, and conducted a questionnaire survey with approximately 100 mothers who came to receive a health examination for three to four-month old babies (30 to 40 mothers per municipality) to obtain suggestions concerning survey methods.

6 Roles Having Been Played by the Survey

(1) Present evidence to show that it is safe enough to get pregnant and give birth in Fukushima

The survey clarified changes in the percentages of premature births and congenital abnormalities or anomalies in Fukushima over time and showed that those percentages were the same as figures of nationwide surveys and general standards, thereby presenting the safety of getting pregnant and giving birth in Fukushima.

(2) Observe pregnant women and provide them with support through conducting the survey

The survey conducted every year has contributed to continuously observing pregnant women in

Fukushima and ascertaining their circumstances individually and has led to the provision of concrete support.

- (3) Provide support in an interactive manner
 - Targeting mothers who are judged to be in need of support based on the survey results (including those who cannot take actions by themselves), supporters have made phone calls to ascertain the current situation and provide support on a case-by-case basis. The survey results have been used to identify cases requiring individual visit support and to refer such cases to respective municipalities.
 - We prepared a dedicated phone line and email account to make it easier for anyone to make consultations and also established a service office to receive consultations from targeted mothers.
- (4) Build a system to provide support in collaboration with obstetrics and gynecology physicians and other organizations
 - We requested obstetrics and gynecology physicians and other organizations for the cooperation in delivering questionnaire sheets and referred mothers judged in need of specialized support to them, thereby promoting continued support for those mothers.
 - We visited the Japanese Midwives' Association and built a system for collaboration with regard to assistance with the main survey. The Association has been mainly introduced for mothers who experienced a stillbirth.
 - We have informed medical institutions of mothers' requests entered in questionnaire sheets via the Fukushima Society of Obstetrics and Gynecology and the Fukushima Association of Obstetricians and Gynecologists.
- (5) Closely collaborate with municipalities

We have referred mothers in need of urgent measures or continued support identified based on their responses to the questionnaire or the results of support by phone to responsible personnel of the respective municipalities and have provided support to those mothers in collaboration therewith.

- (6) Share the current status and challenges concerning maternal and child health (with the prefecture, municipalities, and related organizations)
 - Since FY2013, explanations have been provided directly by physicians at briefing sessions to explain survey results targeting health nurses, nurses, and related organizations in Fukushima and meetings hosted by the prefectural government (meetings of municipal personnel in charge of maternal and child health). For the FY2017 main survey, at the liaison association meetings of 13 municipalities in the Hamadori area, we explained the situation of each municipality and conducted opinion exchanges to share information.
 - Upon requests from municipalities, we provided survey results for the respective municipalities separately.
- (7) Respond to mothers' worries over radiation
 - After commencing the FY2011 main survey, we prepared a support book to help children and their guardians maintain their good mental and physical health and sent copies thereof to survey targets. From the next fiscal year, we sent the support book together with the questionnaire sheet to each of the survey targets (until the FY2013 main survey).
 - Starting with the FY2014 main survey, we prepared a leaflet to outline the survey and explain the outcomes and sent copies thereof together with questionnaire sheets.
- (8) Provide support to supporters

In order to further enhance qualities of supporters to enable them to properly respond to survey targets' worries and questions, we have encouraged them to acquire specialized knowledge and conduct case studies, and have provided them with training concerning knowledge on radiation and the thyroid gland, thereby promoting their appropriate responses to wide-ranging consultations.

(9) Noteworthy outcomes

- We have been able to maintain high response rates. There were criticisms concerning the survey, but there were also words of thanks and encouraging remarks. We have simplified questions and introduced an online method and have secured enough space for free comments since the first survey. Additionally, we have provided support by phone or by email. All these efforts are considered to have contributed to gaining people's approval for the survey.
- The percentages of stillbirths, premature births, low birth-weight babies, and congenital abnormalities or anomalies in Fukushima were found to be at the same levels as the national averages. Negative impacts were apt to attract attention immediately after the earthquake, but the survey results have also presented positive aspects.
- We have visited respective areas in Fukushima to directly explain survey results to responsible municipal personnel and this has raised people's interest in the survey and has enabled us to smoothly provide support to those in need of help in collaboration with municipalities. We received the following comments from municipal personnel in charge of maternal and child health who participated in briefing sessions: "I understand the current status of Fukushima Prefecture. It was very helpful." "Today's explanations will serve as useful information when I respond to consultations concerning child rearing by phone or at the time of a health examination and visit support."

Summary

The percentages of stillbirths (0.25%), premature births (4.4%), low birth-weight babies (8.7%), and congenital anomalies (2.72%) were almost the same as the national averages of those percentages in Japan.

Pregnancy and Birth Survey after the Great East Japan Earthquake and Fukushima Daiichi Nuclear Power Plant Accident in Fukushima Prefecture Fujimori K, et al. Fukushima J Med Sci. 2014;60(1):75-81.

2 Survey targets found positive for depression accounted for 28% throughout the prefecture. The percentage was high for mothers in the Soso area and those who changed obstetric care facilities, but was low for mothers in the Iwaki and Aizu areas.

Immediate effects of the Fukushima nuclear power plant disaster on depressive symptoms among mothers with infants: A prefectural-wide cross-sectional study from the Fukushima Health Management Survey

Goto A, et al. BMC Psychiatry. 2015 Mar 26;15:59.

In Fukushima, depressive symptoms were observed more frequently among mothers who experienced a miscarriage or stillbirth than among those who had a live birth.

IMMEDIATE MENTAL CONSEQUENCES OF THE GREAT EAST JAPAN EARTHQUAKE AND FUKUSHIMA NUCLEAR POWER PLANT ACCIDENT ON MOTHERS EXPERIENCING MISCARRIAGE, ABORTION, AND STILLBIRTH: THE FUKUSHIMA HEALTH MANAGEMENT SURVEY

Komiya H, et al. Fukushima J Med Sci. 2015;61(1):66-71.

4 Changes of obstetric care facilities due to medical reasons often result in premature births. However, no association was observed between premature births and changes of obstetric care facilities by mothers by themselves.

Effect of medical institution change on gestational duration after the Great East Japan Earthquake: The Fukushima Health Management Survey
Suzuki K, et al. J Obstet Gynaecol Res. 2016 Dec;42(12):1704-1711.

No influence of the earthquake was observed in the growth of one month-old babies. In the Soso area, the percentage of mothers using powdered milk showed an increasing trend over time after the earthquake.

Impact of the Great East Japan Earthquake on feeding methods and newborn growth at 1 month postpartum: results from the Fukushima Health Management Survey. Kyozuka H, et al. Radiat Environ Biophys. 2016 May;55(2):139-46.

A significantly larger percentage of mothers who used to live in the evacuation areas and who could not receive prenatal checkups as scheduled used powdered milk due to worries over radioactive contamination.

Factors Associated with Infant Feeding Methods after the Nuclear Power Plant Accident in Fukushima: Data from the Pregnancy and Birth Survey for the Fiscal Year 2011 Fukushima Health Management Survey.

Ishii K, et al. Matern Child Health J. 2016 Aug; 20(8):1704-12.

Women who became pregnant within six months after the earthquake showed higher percentages of premature births and low birth-weight babies, and cases of respiratory diseases and mental disorders increased.

Obstetric outcomes in women in Fukushima prefecture during and after the Great East Japan Earthquake and Fukushima nuclear power plant accident: The Fukushima Health Management Survey

Hayashi M, et al. Open Journal of Obstetrics and Gynecology, 2016, 6, 705-713

A significantly larger percentage of mothers who were forced to change prenatal checkups and obstetric care facilities, those with high-risk pregnancy, those who had a Caesarean, and those who gave birth to their first babies are receiving support by phone. They use powdered milk more often

than those who do not receive support, worrying about radiation effects.

Characteristics of Mothers in Need of Support by Phone after the Tokyo Electric Power Company's Fukushima Daiichi Nuclear Power Station and the Details of Consultations — Based on the Pregnancy and Birth Survey, Fukushima Health Management Survey in FY2011 — Kayoko Ishii, et al., Japan Society of Maternal Health (2016)

9 Mothers whose babies were SGA (small-for-gestational-age) accounted for 5.6%. Areas where they lived at the time of the accident at the NPS and the timing of getting pregnant did not exert any influence on the occurrence of SGA.

Influence of the Great East Japan Earthquake and the Fukushima Daiichi Nuclear Disaster on the Birth Weight of Newborns in Fukushima Prefecture: Fukushima Health Management Survey. Yasuda S, et al. J Matern Fetal Neonatal Med. 2017 Dec;30(24):2900-2904

The use of ART temporarily decreased in Fukushima immediately after the Great East Japan Earthquake but no long-term influence of the earthquake has been observed.

Impact of the Great East Japan Earthquake and Fukushima nuclear power plant accident on assisted reproductive technology in Fukushima prefecture: The Fukushima Health Management Survey

Hayashi M, et al. J Clin Med Res. 2017 Sep;9(9):776-781.

A refugee life and worries over radiation were associated with depressive tendencies, but were not associated with a low confidence in child rearing.

The Fukushima Nuclear Accident Affected Mothers' Depression but Not Maternal Confidence. Goto A, et al. Asia Pac J Public Health. 2017 Mar;29(2 suppl):139S-150S.

The percentages of those aged 30 or older and those with depressive tendencies were higher among mothers who entered free comments in the questionnaire sheet than those who did not. Mothers' concerns shifted from radiation-related problems to their own mental and physical health.

Fukushima mothers' concerns and associated factors after the Fukushima nuclear power plant disaster: analysis of qualitative data from the Fukushima Health Management Survey 2011–2013 Ito S, et al. Asia Pac J Public Health. 2017 Mar;29(2 suppl):151S-160S.

1 3 Major research papers based on the results of the surveys for four years were compiled.

Pregnancy and Birth Survey of the Fukushima Health Management Survey: Review of four surveys conducted annually after the disaster Ishii K, et al. Asia Pac J Public Health. 2017 Mar; 29(2 suppl):56S-62S. Review.

1 4 41.2% of the targeted mothers felt worries due to prejudice and discrimination and their such worries are especially associated with their age, whether they have depressive symptoms, whether they received prenatal checkups as scheduled, and whether they have developed any new diseases or symptoms after the earthquake.

Overview of the Pregnancy and Birth Survey section of the Fukushima Health Management Survey: Focusing on mother's anxieties toward radioactive exposure Ito S, et al. Journal of the National Institute of Public Health 2018 67 (1) 59-70

Mothers who used to live in the evacuation areas and those still living a refugee life are more likely to show depressive tendencies significantly. In particular, mothers who are living a refugee life separately from some of their family members and those who did not respond that they have good communications with their family members showed a higher percentage of having depressive tendencies.

Consideration of Refugee Life and Mental Health of Pregnant Women Caused by the Great East Japan Earthquake

Ota Misao, et al., Journal of the Japan Maternal and Infant Caring Association (2018)

Pregnant women who were in later pregnancy at the time of the earthquake showed increased risks of hypertensive disorders of pregnancy.

The effect of the Great East Japan Earthquake on Hypertensive Disorders during pregnancy: A study from the Fukushima Health Management Survey Kyozuka H, et al. J Matern Fetal Neonatal Med. 2019 Apr 1:1-6.

In the case of mothers having only one child, worries over radiation are associated with their reluctance to have another child.

Factors associated with intention of future pregnancy among women affected by the Fukushima Nuclear Accident: Analysis of Fukushima Health Management Survey Data from 2012 to 2014 Goto A, et al. J Epidemiol. 2019 Aug 5;29(8):308-314

By combining a paper survey and an online survey, the response rate has been raised. Respondents to the questionnaire in writing generally expressed their feelings and opinions more clearly.

Development and Implementation of an Internet Survey to Assess Community Health in the Face of a Health Crisis: Data from the Pregnancy and Birth Survey of the Fukushima Health Management Survey, 2016

Nakano H, et al. Int J Environ Res Public Health. 2019 Jun 1;16(11). pii: E1946.

Report on the Third-Round Thyroid Survey (Second Full-Scale Thyroid Survey)

1. Summary

1.1 Purpose

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

1.2 Survey Population

In addition to the participants of Preliminary Baseline Survey (Fukushima residents born between 2 April 1992 and 1 April 2011), the Full-Scale Thyroid Survey (from and after the Second-Round Survey) also includes those who were born between 2 April 2011 and 1 April 2012.

1.3 Implementation Period

The Second Full-Scale Survey started on 1 May 2016 and covered examinees up to age 20 on a municipality-by-municipality schedule to FY 2017. Thereafter, we revised the schedule of examinations so that examinees can take examinations every five years – at ages 25, 30, 35, etc. – to make it easier for examinees to remember when they are due for examination. However, the interval between the examination at age 25 and the previous one should not be greater than 5 years.

1.4 Responsible Organizations

Fukushima Prefecture commissioned Fukushima Medical University (FMU) to conduct the survey in cooperation with organizations inside and outside Fukushima for the convenience of examination participants (the number of contracts is as of 30 September 2019).

1.4-1 The primary examination

Inside Fukushima Prefecture 82 medical facilities
Outside Fukushima Prefecture 121 medical facilities

1.4-2 The confirmatory examination

Inside Fukushima Prefecture 5 medical facilities including FMU

Outside Fukushima Prefecture 37 medical facilities

1.5 Method

1.5-1 The primary examination

We use ultrasonography for examination of the thyroid gland.

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

-Diagnostic criteria (A)

Those with A1 or A2 test results are recommended for watchful waiting until they undergo the primary examination, starting from April 2018.

A1: No nodules / cysts

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

-Diagnostic criteria (B)

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

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

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

-Diagnostic criteria (C)

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

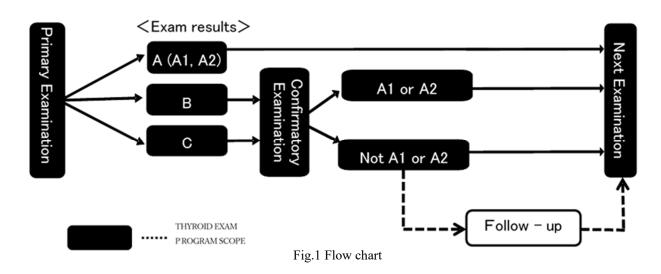
C: Immediate need for confirmatory examination, judging from the condition of the thyroid gland.

1.5-2 The 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.

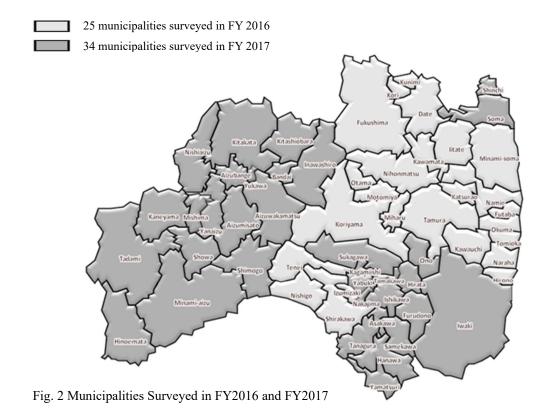
We recommend medical follow-up for those requiring it due to confirmatory test results.

1.5-3 Flow chart



1.6 Municipalities Surveyed

The municipalities where examinations were carried out in FY 2016 and FY 2017 are as follows:



2. Results as of 30 September 2019

2.1 Results of the Primary Examination

2.1-1 Progress report

The primary examination started on 1 May 2016 for at 336,669 people in 59 municipalities (25 municipalities in FY2016 and 34 municipalities in FY2017) and so far carried out for 217,904 people (64.7%). (Examination status for each municipality and that of prefectures other than Fukushima are as in Appendix 1 and Appendix 2)

Results have been confirmed for 217,897 participants (100.0%) and notifications have been sent accordingly. (The result for each municipality is as Appendix 3)

Thus far, 76,420 (35.1%) were classified as A1, 139,976 (64.2%) as A2, 1,501 (0.7%) as B, and none as C.

Table 1 Progress and results of the primary examination

As of 30 September 2019

| | Survey | Participa | ants | Exam results | | | | |
|---------|------------|------------------------|-----------|-----------------|------------|-------------------|-------------|----------------|
| | population | Proportion (%) Outside | | Proportion (%) | | Class | <u> </u> | |
| | | • ` ` ′ | Fukushima | | | A | | firmatory exam |
| | a | b (b/a) | | c (c/b) | A1 d (d/ | c) A2 e (e/c) | Bf (f/c) | C g (g/c) |
| FY 2016 | 191,876 | 126,383 (65.9) | 8,904 | 126,381 (100.0) | 44,038 (34 | .8) 81,538 (64.5) | 805 (0.6) | 0 (0.0) |
| FY 2017 | 144,793 | 91,521 (63.2) | 3,595 | 91,516 (100.0) | 32,382 (35 | 58,438 (63.9) | 696 (0.8) | 0 (0.0) |
| Total | 336,669 | 217,904 (64.7) | 12,499 | 217,897 (100.0) | 76,420 (35 | 139,976 (64.2) | 1,501 (0.7) | 0 (0.0) |

Table 2. Number and proportion of participatns with nodules/cysts

As of 30 September 2019

| | Number of | Number and proportion of participants with nodules/cysts | | | | | | |
|---------|-------------------|--|-----------|----------|----------------|--|--|--|
| | participants with | Nod | lules | Cysts | | | | |
| | confirmed results | ≥5.1 mm | ≤5.0 mm | ≥20.1 mm | ≤20.0 mm | | | |
| | a | b (b/a) | c (c/a) | d (d/a) | e (e/a) | | | |
| FY 2016 | 126,381 | 805 (0.6) | 429 (0.3) | 0 (0.0) | 81,923 (64.8) | | | |
| FY 2017 | 91,516 | 693 (0.8) | 399 (0.4) | 3 (0.0) | 58,739 (64.2) | | | |
| Total | 217,897 | 1,498 (0.7) | 828 (0.4) | 3 (0.0) | 140,662 (64.6) | | | |

- Proportions are rounded to the 1st decimal place. This also applies to other tables.
- The participants in FY2016 and FY 2017 surveys are those received the Full-Scale Survey examination conducted on a municipality-by-municipality basis (until they are older than 20 years old), whereas those who receive examination at 5-year intervals (those born in FY1992 and FY1993) are excluded.
- The results of those received examination at 5-year intervals will be shown separately. Examinations for those born in FY1992 (approx. 23,000) and FY1993 (approx. 22,000) took place in FY 2017 and FY2018, respectively.

2.1-2 Participation rates by age group

The participation rate of the age group of 18 or older (age as of 1 April 2016) in municipalities surveyed in FY 2016 was 17.2%.

The participation rate of the age group of 18 or older (age as of 1 April 2017) in municipalities surveyed in FY 2017 was 16.5%.

| | | Total | Age group (years) | | | | |
|---------|--|--|-------------------|--------|--------|--------|--|
| | Age group (years) | | 4-7 | 8-12 | 13-17 | 18-23 | |
| FY 2016 | Survey population (a) | 191,876 | 36,620 | 51,003 | 56,840 | 47,413 | |
| | Participants (b) | 126,383 | 26,425 | 45,553 | 46,267 | 8,138 | |
| | FY 2016 Participants (b) Proportion (%) (b/a) Age group (years) Survey population (a Participants (b) | 65.9 | 72.2 | 89.3 | 81.4 | 17.2 | |
| | Age group (years) | | 5-7 | 8-12 | 13-17 | 18-24 | |
| | Survey population (a) | 144,793 | 19,316 | 37,165 | 41,995 | 46,317 | |
| FY 2017 | Participants (b) | 91,521 | 14,957 | 33,947 | 34,966 | 7,651 | |
| | Proportion (%) (b/a) | tints (b) 126,383 26,425 45,553 46,267 on (%) (b/a) 65.9 72.2 89.3 81.4 cap (years) 5-7 8-12 13-17 18-2 copulation (a) 144,793 19,316 37,165 41,995 cants (b) 91,521 14,957 33,947 34,966 on (%) (b/a) 63.2 77.4 91.3 83.3 copulation (a) 336,669 55,936 88,168 98,835 | 16.5 | | | | |
| | Survey population (a) | 336,669 | 55,936 | 88,168 | 98,835 | 93,730 | |
| Total | Participants (b) | 217,904 | 41,382 | 79,500 | 81,233 | 15,789 | |
| | Proportion (%) (b/a) | 64.7 | 74.0 | 90.2 | 82.2 | 16.8 | |

[·] Age groups are formed with the age as of 1 April of each fiscal year.

2.1-3 Comparison of Full-scale Thyroid Surveys

Comparison of Third- and Second-Round Survey results is as shown in Table 4.

Among 201,519 participants who were diagnosed as A1 or A2 in the Second-Round Survey, 200,823 (99.7%) had A1 or A2 results, and 696 (0.3%) were diagnosed as B in the Third-Round Survey.

Among 1,147 participants who were diagnosed as B in the Second-Round Survey, 442 (38.5%) had A1 or A2 results, and 705 (61.5%) were diagnosed as B in the Third-Round Survey.

Table 4 Comparison of Full-scale Thyroid Survey

| | | | Results of the | Results of the Third-Round Survey *2 | | | | | |
|---------------|-------|---------------|----------------------|--------------------------------------|--------------------|-------------------|-------------------|--|--|
| | | | Second-round | I | A | | | | |
| | | | Survey*1 (%) a | A1 b b/a (%) | A2 c c/a (%) | B d d/a (%) | C e e/a (%) | | |
| | | A1 | 79,748 | 57,633 | 21,979 | 136 | 0 | | |
| | Α | Ai | (100.0) | (72.3) | (27.6) | (0.2) | (0.0) | | |
| | А | A2 | 121,771 | 12,174 | 109,037 | 560 | 0 | | |
| Results of | | | (100.0) | (10.0) | (89.5) | (0.5) | (0.0) | | |
| the Second- | | В | 1,147 | 62 | 380 | 705 | 0 | | |
| round Survey | | Ь | (100.0) | (5.4) | (33.1) | (61.5) | (0.0) | | |
| Tourid Survey | | С | 0 | 0 | 0 | 0 | 0 | | |
| | | C | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | | |
| | Ma | participation | 15,231 | 6,551 | 8,580 | 100 | 0 | | |
| | INC | participation | (100.0) | (43.0) | (56.3) | (0.7) | (0.0) | | |
| | Total | | 217,897 | 76,420 | 139,976 | 1,501 | 0 | | |
| | Total | | (100.0) | (35.1) | (64.2) | (0.7) | (0.0) | | |

^{*1} Upper figures show a previous (Second Round) diagnosis for the participants in this (Third Round) survey whose results have been confirmed. They are not the breakdown of the total number of the previous-round participants (270,557)

^{*2} Upper figures show the breakdown of the Third-Round Survey participants who were diagnosed for each diagnostic class in the Second-Round Survey. Lower figures are their proportion (%).

2.2 Results of the Confirmatory Examination

2.2-1 Progress report

Confirmatory Examinations have been conducted since October 2016 and so far 1,098 (73.2%) of 1,501 people who were recommended for a confirmatory examination as a result of the primary examination have received the examination and 1,050 (95.6%) have completed the entire procedure of the examination (Implementation status of each municipality is shown in Appendix 5).

Of the foregoing 1,050 participants, 108 (A1: 9, A2: 99) (10.3%) were confirmed to meet A1 or A2 diagnostic criteria by the Primary Examination standards (including those with other thyroid conditions). Remaining 942 (89.7%) people were confirmed to be non-equivalent to A1 or A2.

Table 5 Progress and results of the confirmatory examination

As of 30 September 2019

| | Number of | Participants | Confirmed exam results | | | | | | |
|---------|------------------------------|--------------|----------------------------|---------|-----------|--------------|-----------------|--|--|
| | those requiring confirmatory | | Confirmatory exam coverage | A1 | A2 | Not A1 or A2 | | | |
| | exam a | b (b/a) | (%) c (c/b) d | d (d/c) | e (e/c) | f (f/c) | FNAC g (g/f) | | |
| FY 2016 | 805 | 610 (75.8) | 577 (94.6) | 5 (0.9) | 58 (10.1) | 514 (89.1) | 37 (7.2) | | |
| FY 2017 | 696 | 488 (70.1) | 473 (96.9) | 4 (0.8) | 41 (8.7) | 428 (90.5) | 37 (8.6) | | |
| Total | 1,501 | 1,098 (73.2) | 1,050 (95.6) | 9 (0.9) | 99 (9.4) | 942 (89.7) | 74 (7.9) | | |

2.2-2 Results of fine needle aspiration cytology (FNAC)

Among those who underwent FNAC, 30 had nodules classified as malignant or suspicious for malignancy. 12 of them were male, and 18 were female. Participants' age at the time of the confirmatory examination ranged from 12 to 23 years (mean age: 16.4 ± 2.8 years). The minimum and maximum tumor diameters were 5.6 mm and 33.0 mm. Mean tumor diameter was 13.0 ± 6.5 mm.

Results of these 30 participants in the Full-Scale Survey (the Second-Round Survey) were: 20 were classified as A (A1: 6, A2: 14), 7 as B and 3 did not participated in the survey.

Table 6. Results of FNAC

A. Municipalities surveyed in FY 2016

Malignant or suspicious for malignancy: 12*)
 Male to female ratio: 6:6

• Mean age (SD, min-max): 16.3 (3.0, 12-23), 10.3 (2.8, 6-16) at the time of disaster

• Mean tumor size: 14.0 mm (6.0 mm, 8.7-30.4 mm)

B. Municipalities surveyed in FY 2017

Malignant or suspicious for malignancy: 18*)
Male to female ratio: 6:12

• Mean age (SD, min-max): 16.5 (2.7, 12-22), 9.4 (2.9, 5-16) at the time of disaster

• Mean tumor size: 12.4 (6.9 mm, 5.6-33.0 mm)

C. Total

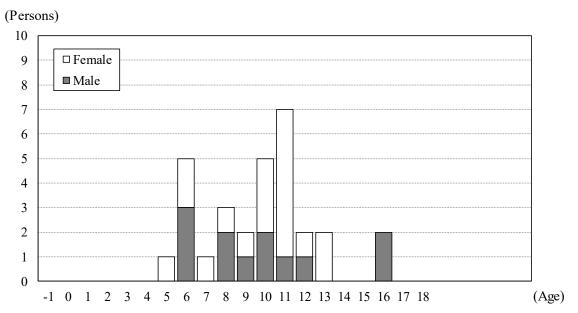
Malignant or suspicious for malignancy: 30*)
 Male to female ratio: 12:18

• Mean age (SD, min-max): 16.4 (2.8, 12-23), 9.8 (2.8, 5-16) at the time of disaster

• Mean tumor size: 13.0 mm (6.5 mm, 5.6-33.0 mm)

^{*)} Surgical cases are as shown in Appendix 6.

2.2-3 Age distribution of malignant or suspicious-for-malignancy cases diagnosed by FNAC Age distributions of 30 people having nodules classified as malignant or suspicious for malignancy by age as of 11 March 2011 is shown in Fig. 3, and by age as of the confirmatory examination in Fig. 4.



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

Fig.3 Age as of 11 March 2011

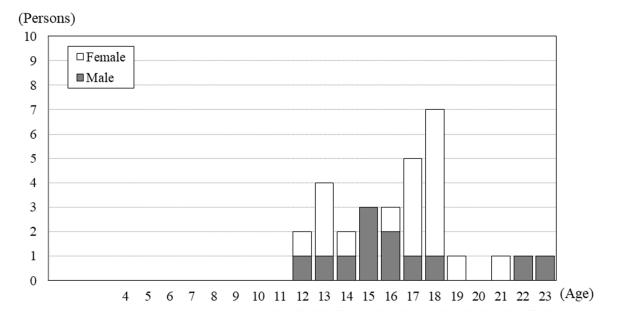


Fig.4 Age as of the date of confirmatory examination

2.2-4 Basic Survey results of those with nodules diagnosed as malignant or suspicious for malignancy by **FNAC**

11(36.7%) of the 30 people participated in the Basic Survey (for external radiation dose estimation), and 11 received the results. The highest effective dose documented was 1.5 mSv.

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

| 100 | £ 20 | Septem | h | 201 | n |
|------|------|--------|-----|-----|---|
| AS O | 1.50 | sentem | Dei | 201 | 7 |

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

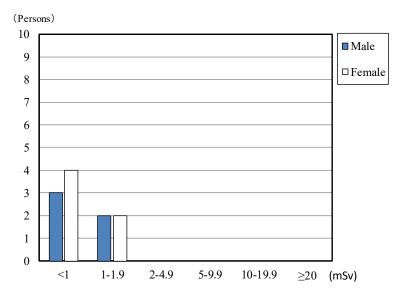


Fig. 5 Effective dose of the participants

2.2-5 Blood test and urinary iodine test results as of 30 September 2019

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

| Table 6. Diood test results | | | | | | | |
|-----------------------------|---------------------------|---------------------------|-------------------------------|-----------------------------|--------------------|--------------------------------|--|
| | FT4 ¹⁾ (ng/dL) | FT3 ²⁾ (pg/mL) | TSH ³⁾ (μIU/mL) | Tg ⁴⁾ (ng/mL) | TgAb 5) (IU/mL) | TPOAb ⁶⁾ (IU/mL) | |
| Reference Range | 0.95-1.74 7) | 2.13-4.07 7) | 0.340-3.880 7) | ≤33.7 | <28.0 | <16.0 | |
| 30 malignant or suspicious | 1.2 ± 0.1 (3.3%) | 3.6 ± 0.7 (16.7%) | 1.8 <u>+</u> 1.2 (16.7%) | 29.8 ± 38.8 (26.7%) | 20.0% | 16.7% | |
| Other 989 | 1.2 ± 0.2 (6.2%) | 3.5 ± 0.5 (6.3%) | 1.3 <u>+</u> 4.4 (9.1%) | 29.1 <u>+</u> 98.3 (14.4%) | 8.2% | 12.6% | |

- 1) FT4: free thyroxine; thyroid hormone binding 4 iodines; higher among patients with thyrotoxicosis (such as Graves' disease) and lower with hypothyroidism (such as Hashimoto's thyroiditis).
- FT3: free triiodothyronine; thyroid hormone binding 3 iodines; higher among patients with thyrotoxicosis (such as Graves' disease) 2) and lower with hypothyroidism (such as Hashimoto's thyroiditis).
- TSH: thyroid-stimulating hormone; higher among patients with Hashimoto's disease and lower with Graves' disease.
- 3) 4) Tg: thyroglobulin; higher when thyroid tissue is destroyed or when neoplastic tissue 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.
- Reference interval varies according to age.

| | Minimum | 25th percentile | Median | 75th percentile | Maximum |
|----------------------------|---------|-----------------|--------|-----------------|---------|
| 30 malignant or suspicious | 69 | 144 | 229 | 397 | 3510 |
| Other 991 | 26 | 109 | 176 | 324 | 8910 |

2.2-6 Confirmatory Examination results by area as of 30 September 2019

The proportions of participants with nodules diagnosed as malignant or suspicious for malignancy were 0.03% in Hamadori, 0.02% in 13 municipalities in the nationally designated evacuation zones and Aizu, and 0.01% in Nakadori.

Table 10 Confirmatory examination results by area

| Area | Number of Participants | Participants who required confirmatory exam | Proportion who required confirmatory exam (%) | Number who underwent confirmatory exam | Malignant or Suspicious cases | Proportion of malignant or suspicious cases (%) |
|------------------------|---------------------------|---|---|---|-------------------------------------|--|
| | a | ь | b/a | | c | c/a |
| 13 municipalities 1) | 27,084 | 212 | 0.8 | 161 | 5 | 0.02 |
| Nakadori ²⁾ | 121,916 | 761 | 0.6 | 564 | 8 | 0.01 |
| Hamadori ³⁾ | 41,295 | 323 | 0.8 | 230 | 12 | 0.03 |
| Aizu ⁴⁾ | 27,609 | 205 | 0.7 | 143 | 5 | 0.02 |
| | | | | | | |
| Total | 217,904 | 1,501 | 0.7 | 1,098 | 30 | 0.01 |

- 1) Tamura, Minami-soma, Date, Kawamata, Hirono, Naraha, Tomioka, Kawauchi, Okuma, Futaba, Namie, Katsurao, Iitate
- 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
- 3) Iwaki, Soma, Shinchi
- 4) Aizuwakamatsu, Kitakata, Shimogo, Hinoemata, Tadami, Minami-aizu, Kitashiobara, Nishiaizu, Bandai, Inawashiro, Aizubange, Yugawa, Yanaizu, Mishima, Kaneyama, Showa, Aizumisato

2.3 Mental Health Care

2.3-1 Support for primary examination participants

Since July 2015, we offer person-to-person explanations to participants at public venues where primary examinations take place. After the examination, medical doctors explain the results showing the ultrasound image in private consultation booths set up at the venue. As of 30 September 2019, 27,853 (84.9%) of 32,806 participants visited the consultation booths. In case the booths cannot be set up at school, alternatives such as briefing sessions at schools and telephonic supports are offered.

* The number of those who used the consultation booths includes participants receiving the Second-Round Survey.

2.3-2 Support for confirmatory examination participants

We have set up a support team for participants of the confirmatory examination within Fukushima Medical University to address their anxiety and concerns, as well as online support for Q&A and counseling. Since the start of the Full-Scale Thyroid Survey, 1,175 participants (413 males and 762 females) have received support as of 30 September 2019. The number of supports provided was 2,433 in total. Of these, 1,347 (55.4%) received support at their first examination and 1,020 (41.9%) at subsequent examination (includes 139 (5.7%) at FNAC) – and 66 (2.7%) at informed consent.

For those who have proceeded to the health insurance medical care, we continue to provide support in cooperation with the teams of medical staff at hospitals.

* The number of those who used the consultation booths at the confirmatory examination includes participants receiving the examination second time.

Appendix 1

Thyroid ultrasound examination (TUE) coverage by municipality

As of 30 September 2019

| Thyroid ultraso | und examii | nation (TU | E) covera | ge by mun | icipality | | | As of . | 30 September | er 2019 |
|--------------------|-------------------|------------|------------------|----------------|----------------|---------------------------|--------------------------------|--------------|-----------------------------------|----------------|
| | Survey population | Partici | pants Outside | Proportion (%) | | umber and poarticipants b | roportion*2 or by age group | f | Participants living outside | Proportion (%) |
| | a | ь | Fukushima*1 | b/a | 4-9 | 10-14 | 15-19 | ≥20 | Fukushima c*3 | c/b |
| Municipalities sur | | 2016 | I. | | | | | | | |
| Kawamata | 2,142 | 1,409 | 34 | 65.8 | 408 29.0 | 544 38.6 | 409 29.0 | 48 3.4 | 76 | 5.4 |
| Namie | 3,315 | 1,954 | 508 | 58.9 | 581 29.7 | 664 34.0 | 576 29.5 | 133 6.8 | 586 | 30.0 |
| Iitate | 987 | 604 | 23 | 61.2 | 174 28.8 | 261 43.2 | 151 25.0 | 18 3.0 | 42 | 7.0 |
| Minami-soma | 11,540 | 7,076 | 1,236 | 61.3 | 2,208 31.2 | 2,726 38.5 | 1,839 26.0 | 303 4.3 | 1,333 | 18.8 |
| Date | 10,210 | 7,085 | 242 | 69.4 | 2,028 28.6 | 2,674 37.7 | 2,095 29.6 | 288 4.1 | 266 | 3.8 |
| Tamura | 6,344 | 4,055 | 99 | 63.9 | 1,269 31.3 | 1,594 39.3 | 1,105 27.3 | 87 2.1 | 186 | 4.6 |
| Hirono | 975 | 546 | 66 | 56.0 | 163 29.9 | 185 33.9 | 154 28.2 | 44 8.1 | 61 | 11.2 |
| Naraha | 1,281 | 771 | 99 | 60.2 | 214 27.8 | 270 35.0 | 222 28.8 | 65 8.4 | 103 | 13.4 |
| Tomioka | 2,751 | 1,477 | 299 | 53.7 | 393 26.6 | 509 34.5 | 450 30.5 | 125 | 329 | 22.3 |
| Kawauchi | 297 | 171 | 15 | 57.6 | 47 27.5 | 72 42.1 | 49 28.7 | 3 | 16 | 9.4 |
| Okuma | 2,259 | 1,343 | 270 | 59.5 | 418 | 496 36.9 | 349 | 80 | 300 | 22.3 |
| Futaba | 1,133 | 464 | 117 | 41.0 | 139 | 184 39.7 | 117 25.2 | 24 | 125 | 26.9 |
| Katsurao | 211 | 129 | 4 | 61.1 | 36 27.9 | 50 38.8 | 32 24.8 | 11 8.5 | 10 | 7.8 |
| Fukushima | 49,340 | 34,103 | 2,096 | 69.1 | 10,281 | 12,202 35.8 | 10,176 29.8 | 1,444 4.2 | 2,412 | 7.1 |
| Nihonmatsu | 9,308 | 6,347 | 230 | 68.2 | 1,955 30.8 | 2,456 38.7 | 1,747 27.5 | 189 | 258 | 4.1 |
| Motomiya | 5,615 | 3,898 | 124 | 69.4 | 1,316 33.8 | 1,445 37.1 | 1,030 26.4 | 107 2.7 | 130 | 3.3 |
| Otama | 1,468 | 1,051 | 34 | 71.6 | 358 34.1 | 405 | 256 24.4 | 32 | 33 | 3.1 |
| Koriyama | 59,469 | 38,115 | 2,851 | 64.1 | 11,583 30.4 | 14,398 37.8 | 10,610 27.8 | 1,524 4.0 | 3,081 | 8.1 |
| Kori | 1,854 | 1,354 | 39 | 73.0 | 424 | 501 37.0 | 370 27.3 | 59 4.4 | 38 | 2.8 |
| Kunimi | 1,405 | 1,021 | 31 | 72.7 | 275 26.9 | 385 37.7 | 304 29.8 | 57 | 32 | 3.1 |
| Tenei | 966 | 634 | 24 | 65.6 | 191 30.1 | 258 40.7 | 164 25.9 | 21 | 23 | 3.6 |
| Shirakawa | 11,352 | 7,648 | 295 | 67.4 | 2,261 29.6 | 2,853 37.3 | 2,251 29.4 | 283 3.7 | 373 | 4.9 |
| Nishigo | 3,722 | 2,562 | 110 | 68.8 | 787 30.7 | 951 37.1 | 705 | 119 | 142 | 5.5 |
| Izumizaki | 1,163 | 799 | 12 | 68.7 | 239 | 310 | 222 27.8 | 28 | 19 | 2.4 |
| Miharu | 2,769 | 1,767 | 46 | 63.8 | 454 25.7 | 628 | 595 33.7 | 90 | 44 | 2.5 |
| Subtotal | 191,876 | 126,383 | 8,904 | 65.9 | 38,202 30.2 | 47,021 37.2 | 35,978 28.5 | 5,182 4.1 | 10,018 | 7.9 |

^{*1)} The number of participants who received the examination at facilities outside Fukushima or by teams dispatched from FMU (as of 31 August 2019)

^{*2)} The upper layer shows the number of participants, and the lower layer shows the proportion of participants from each municipality.

^{*3)} The number of participants who have resident registration outside of Fukushima.

[•] Age groups were formed based on the age at the Full-Scale Thyroid Survey (the Third-Round Survey). This applies to other tables hereafter.

| | | 1 | | | 1 | | | As of | 30 Septemb | er 2019 |
|------------------|-------------------|---------|------------------|----------------|----------------|---------------------------|-------------------------------|-----------------|-------------------|----------------|
| | Survey population | Partici | pants Outside | Proportion (%) | | umber and poarticipants b | roportion*2 o by age group | f | living outside | Proportion (%) |
| | a | ь | Fukushima*1 | b/a | 4-9 | 10-14 | 15-19 | ≥20 | Fukushima c*3 | c/b |
| Municipalities s | surveyed in | FY 2017 | | | | | | | | |
| Iwaki | 56,810 | 36,624 | 2,006 | 64.5 | 8,793 24.0 | 13,724 37.5 | 11,600 31.7 | 2,507 6.8 | 2,066 | 5.6 |
| Sukagawa | 14,113 | 9,247 | 275 | 65.5 | 2,570 27.8 | 3,476 37.6 | 2,699 29.2 | 502 5.4 | 305 | 3.3 |
| Soma | 6,252 | 3,822 | 256 | 61.1 | 1,137 29.7 | 1,410 36.9 | 1,110 29.0 | 165 4.3 | 291 | 7.6 |
| Kagamiishi | 2,417 | 1,590 | 44 | 65.8 | 436 27.4 | 614 38.6 | 470 29.6 | 70 4.4 | 46 | 2.9 |
| Shinchi | 1,320 | 849 | 34 | 64.3 | 212 25.0 | 333 39.2 | 263 31.0 | 41 4.8 | 48 | 5.7 |
| Nakajima | 972 | 645 | 6 | 66.4 | 177 27.4 | 240 37.2 | 202 31.3 | 26 4.0 | 8 | 1.2 |
| Yabuki | 3,041 | 1,962 | 43 | 64.5 | 632 32.2 | 736 37.5 | 519 26.5 | 75 3.8 | 49 | 2.5 |
| Ishikawa | 2,530 | 1,609 | 36 | 63.6 | 485 30.1 | 591 36.7 | 470 29.2 | 63 3.9 | 49 | 3.0 |
| Yamatsuri | 930 | 578 | 16 | 62.2 | 187 32.4 | 219 37.9 | 148 25.6 | 24 4.2 | 13 | 2.2 |
| Asakawa | 1,210 | 820 | 27 | 67.8 | 214 26.1 | 316 38.5 | 251 30.6 | 39 4.8 | 36 | 4.4 |
| Hirata | 1,101 | 691 | 8 | 62.8 | 208 30.1 | 268 38.8 | 196 28.4 | 19 2.7 | 11 | 1.6 |
| Tanagura | 2,749 | 1,752 | 42 | 63.7 | 536 30.6 | 677 38.6 | 479 27.3 | 60 3.4 | 54 | 3.1 |
| Hanawa | 1,492 | 889 | 27 | 59.6 | 260 29.2 | 348 39.1 | 242 27.2 | 39 4.4 | 35 | 3.9 |
| Samegawa | 617 | 382 | 12 | 61.9 | 120 31.4 | 154 40.3 | 96 25.1 | 12 | 17 | 4.5 |
| Ono | 1,716 | 1,031 | 21 | 60.1 | 318 30.8 | 423 41.0 | 254 24.6 | 36 3.5 | 19 | 1.8 |
| Tamakawa | 1,210 | 798 | 10 | 66.0 | 222 | 333 | 220 | 23 | 12 | 1.5 |
| Furudono | 946 | 623 | 16 | 65.9 | 27.8 197 | 41.7 232 | 27.6 158 | 2.9 36 | 17 | 2.7 |
| Hinoemata | 94 | 47 | 5 | 50.0 | 31.6 14 | 37.2 13 | 25.4 17 | 5.8 | 4 | 8.5 |
| Minami-aizu | 2,512 | 1,472 | 25 | 58.6 | 29.8 437 | 27.7 559 | 36.2 428 | 6.4 48 | 25 | 1.7 |
| Kaneyama | 177 | 89 | 1 | 50.3 | 29.7 19 | 38.0 42 | 29.1 25 | 3.3 | 1 | 1.1 |
| Showa | 127 | 74 | 3 | 58.3 | 21.3 26 | 47.2 26 | 28.1 20 | 3.4 2 2.7 | 4 | 5.4 |
| Mishima | 174 | 107 | 1 | 61.5 | 35.1 24 | 35.1 44 | 27.0 37 | 2 | 1 | 0.9 |
| Shimogo | 873 | 528 | 9 | 60.5 | 22.4 160 | 41.1 200 | 34.6 148 | 1.9 20 | 8 | 1.5 |
| Kitakata | 8,079 | 4,925 | 101 | 61.0 | 30.3 1,336 | 37.9 1,903 | 28.0 1,518 | 3.8 168 | 110 | 2.2 |
| Nishiaizu | 885 | 476 | 9 | 53.8 | 27.1 135 | 38.6 175 | 30.8 145 | 3.4 21 | 15 | 3.2 |
| Tadami | 642 | 391 | 7 | 60.9 | 28.4 119 | 36.8 147 | 30.5 112 | 4.4 13 | 5 | |
| | | | | | 30.4 456 | 37.6 560 | 28.6 420 | 3.3 68 | | 1.3 |
| Inawashiro | 2,383 | 1,504 | 40 | 63.1 | 30.3 105 | 37.2 143 | 27.9 98 | 4.5 9 | 47 | 3.1 |
| Bandai | 555 | 355 | 9 | 64.0 | 29.6 98 | 40.3 129 | 27.6 79 | 2.5 12 | 13 | 3.7 |
| Kitashiobara | 502 | 318 | 7 | 63.3 | 30.8 568 | 40.6 832 | 24.8 563 | 3.8 | 7 | 2.2 |
| Aizumisato | 3,311 | 2,063 | 41 | 62.3 | 27.5 489 | 40.3 679 | 27.3 490 | 4.8 78 | 45 | 2.2 |
| Aizubange | 2,790 | 1,736 | 48 | 62.2 | 28.2 103 | 39.1 129 | 28.2 | 4.5 | 38 | 2.2 |
| Yanaizu | 538 | 342 | 4 | 63.6 | 30.1 | 37.7 | 96 28.1 | 4.1 | 3 | 0.9 |
| Aizuwakamatsu | 21,119 | 12,768 | 401 | 60.5 | 3,585 28.1 | 4,811 37.7 | 3,915 30.7 | 3.6 | 470 | 3.7 |
| Yugawa | 606 | 414 | 5 | 68.3 | 29.2 | 159 38.4 | 27.8 | 19 4.6 | 8 | 1.9 |
| Subtotal | 144,793 | 91,521 | 3,595 | 63.2 | 24,499 26.8 | 34,645 37.9 | 27,603 30.2 | 4,774 5.2 | 3,880 | 4.2 |
| Total | 336,669 | 217,904 | 12,499 | 64.7 | 62,701 28.8 | 81,666 37.5 | 63,581 29.2 | 9,956 4.6 | 13,898 | 6.4 |

Appendix 2 Thyroid ultrasound examination (TUE) coverage outside Fukushima by prefecture As of 31 August 2019

| Prefecture | Number of medeical facilities | Participants * | Prefecture | Number of medeical facilities | Participants * | Prefecture | Number of medeical facilities | Participants * |
|------------|-------------------------------|----------------|------------|-------------------------------|----------------|------------|-------------------------------|----------------|
| Hokkaido | 7 | 355 | Fukui | 1 | 23 | Hiroshima | 2 | 33 |
| Aomori | 2 | 143 | Yamanashi | 2 | 105 | Yamaguchi | 1 | 22 |
| Iwate | 3 | 306 | Nagano | 3 | 139 | Tokushima | 1 | 9 |
| Miyagi | 2 | 2,546 | Gifu | 1 | 43 | Kagawa | 1 | 17 |
| Akita | 1 | 184 | Shizuoka | 2 | 112 | Ehime | 1 | 12 |
| Yamagata | 3 | 594 | Aichi | 4 | 223 | Kochi | 1 | 14 |
| Ibaraki | 4 | 770 | Mie | 1 | 25 | Fukuoka | 3 | 85 |
| Tochigi | 8 | 751 | Shiga | 1 | 22 | Saga | 1 | 5 |
| Gunma | 2 | 234 | Kyoto | 3 | 99 | Nagasaki | 2 | 27 |
| Saitama | 3 | 589 | Osaka | 7 | 232 | Kumamoto | 1 | 31 |
| Chiba | 5 | 547 | Hyogo | 2 | 138 | Oita | 1 | 14 |
| Tokyo | 16 | 2,137 | Nara | 2 | 30 | Miyazaki | 1 | 29 |
| Kanagawa | 6 | 1,034 | Wakayama | 1 | 6 | Kagoshima | 1 | 19 |
| Niigata | 2 | 590 | Tottori | 1 | 10 | Okinawa | 1 | 54 |
| Toyama | 2 | 23 | Shimane | 1 | 15 | | | |
| Ishikawa | 1 | 43 | Okayama | 3 | 60 | Total | 120 | 12,499 |

The number of participants includes those who received examination at facilities outside Fukushima or by teams dispatched by Fukushima Medical University.

The number of dispatches of FMU teams for examinations outside Fukushima was 1, to Kanagawa.

Appendix 3

Results of primary examination by municipality

| 1 2 | | Confirmed | | Number by | exam results | | | | | |
|----------------------|---------------|----------------|---------------|---------------|--------------|-----|-----------|----------|----------|---------------|
| | Participants | results b | | Proport | ion (%) | | Nod | lules | Cy | rsts |
| | l'articipants | Proportion | A | | | | Proport | tion (%) | Proport | ion (%) |
| | a | (%) b/a (%) | A1 | A2 | В | С | ≥5.1 mm | ≤5.0 mm | ≥20.1 mm | ≤20.0 mm |
| Municipalities surve | yed in FY 20 | 16 | | | | | | | | |
| Kawamata | 1,409 | 1,409 | 490 | 910 | 9 | 0 | 9 | 7 | 0 | 915 |
| 120 | 1,.05 | 100.0 | 34.8 | 64.6 | 0.6 | 0.0 | 0.6 | 0.5 | 0.0 | 64.9 |
| Namie | 1,954 | 1,954 100.0 | 652 33.4 | 1,286 65.8 | 16 0.8 | 0.0 | 0.8 | 0.5 | 0.0 | 1,289 66.0 |
| | | 604 | 203 | 397 | 4 | 0.0 | 4 | 2 | 0.0 | 397 |
| Iitate | 604 | 100.0 | 33.6 | 65.7 | 0.7 | 0.0 | 0.7 | 0.3 | 0.0 | 65.7 |
| Minami-soma | 7,076 | 7,076 | 2,568 | 4,455 | 53 | 0 | 53 | 32 | 0 | 4,477 |
| Iviiiiaiiii-soiiia | 7,070 | 100.0 | 36.3 | 63.0 | 0.7 | 0.0 | 0.7 | 0.5 | 0.0 | 63.3 |
| Date | 7,085 | 7,085 | 2,460 | 4,575 | 50 | 0 | 50 | 23 | 0 | 4,599 |
| | ., | 100.0 | 34.7 | 64.6 | 0.7 | 0.0 | 0.7 | 0.3 | 0.0 | 64.9 |
| Tamura | 4,055 | 4,055 100.0 | 1,490 36.7 | 2,519 62.1 | 46 1.1 | 0.0 | 46 1.1 | 0.5 | 0.0 | 2,544 62.7 |
| | | 546 | 195 | 347 | 4 | 0.0 | 4 | 3 | 0.0 | 346 |
| Hirono | 546 | 100.0 | 35.7 | 63.6 | 0.7 | 0.0 | 0.7 | 0.5 | 0.0 | 63.4 |
| NI 1 | 771 | 771 | 293 | 475 | 3 | 0 | 3 | 2 | 0 | 476 |
| Naraha | 771 | 100.0 | 38.0 | 61.6 | 0.4 | 0.0 | 0.4 | 0.3 | 0.0 | 61.7 |
| Tomioka | 1,477 | 1,477 | 511 | 953 | 13 | 0 | 13 | 3 | 0 | 960 |
| Tolliloka | 1,477 | 100.0 | 34.6 | 64.5 | 0.9 | 0.0 | 0.9 | 0.2 | 0.0 | 65.0 |
| Kawauchi | 171 | 171 | 41 | 129 | 1 | 0 | 1 | 0 | 0 | 130 |
| | | 100.0 | 24.0 | 75.4 | 0.6 | 0.0 | 0.6 | 0.0 | 0.0 | 76.0 |
| Okuma | 1,343 | 1,343 100.0 | 461 34.3 | 871 64.9 | 0.8 | 0.0 | 0.8 | 0.4 | 0.0 | 873 65.0 |
| | | 464 | 173 | 289 | 2 | 0.0 | 2 | 0.4 | 0.0 | 290 |
| Futaba | 464 | 100.0 | 37.3 | 62.3 | 0.4 | 0.0 | 0.4 | 0.0 | 0.0 | 62.5 |
| Katsurao | 129 | 129 | 50 | 79 | 0 | 0 | 0 | 1 | 0 | 79 |
| Katsurao | 129 | 100.0 | 38.8 | 61.2 | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | 61.2 |
| Fukushima | 34,103 | 34,103 | 11,993 | 21,917 | 193 | 0 | 193 | 105 | 0 | 22,015 |
| | | 100.0 6,347 | 35.2 | 64.3 4,036 | 0.6 45 | 0.0 | 0.6 45 | 0.3 | 0.0 | 64.6 4,060 |
| Nihonmatsu | 6,347 | 100.0 | 2,266 35.7 | 63.6 | 0.7 | 0.0 | 0.7 | 0.3 | 0.0 | 64.0 |
| | | 3,898 | 1,357 | 2,524 | 17 | 0.0 | 17 | 8 | 0.0 | 2,535 |
| Motomiya | 3,898 | 100.0 | 34.8 | 64.8 | 0.4 | 0.0 | 0.4 | 0.2 | 0.0 | 65.0 |
| Otomo | 1,051 | 1,051 | 374 | 671 | 6 | 0 | 6 | 3 | 0 | 675 |
| Otama | 1,031 | 100.0 | 35.6 | 63.8 | 0.6 | 0.0 | 0.6 | 0.3 | 0.0 | 64.2 |
| Koriyama | 38,115 | 38,113 | 13,084 | 24,790 | 239 | 0 | 239 | 130 | 0 | 24,900 |
| | | 100.0 | 34.3 | 65.0 | 0.6 | 0.0 | 0.6 | 0.3 | 0.0 | 65.3 |
| Kori | 1,354 | 1,354 100.0 | 493 36.4 | 851 62.9 | 0.7 | 0.0 | 0.7 | 0.3 | 0.0 | 858 63.4 |
| | | 1,021 | 340 | 673 | 8 | 0.0 | 8 | 2 | 0.0 | 678 |
| Kunimi | 1,021 | 100.0 | 33.3 | 65.9 | 0.8 | 0.0 | 0.8 | 0.2 | 0.0 | 66.4 |
| т | (24 | 634 | 213 | 414 | 7 | 0 | 7 | 1 | 0 | 419 |
| Tenei | 634 | 100.0 | 33.6 | 65.3 | 1.1 | 0.0 | 1.1 | 0.2 | 0.0 | 66.1 |
| Shirakawa | 7,648 | 7,648 | 2,666 | 4,941 | 41 | 0 | 41 | 23 | 0 | 4,965 |
| Silitakawa | 7,010 | 100.0 | 34.9 | 64.6 | 0.5 | 0.0 | 0.5 | 0.3 | 0.0 | 64.9 |
| Nishigo | 2,562 | 2,562 | 829 | 1,719 | 14 | 0 | 14 | 8 | 0 | 1,725 |
| | | 100.0 799 | 32.4 272 | 67.1 525 | 0.5 | 0.0 | 0.5 | 0.3 | 0.0 | 67.3 525 |
| Izumizaki | 799 | 100.0 | 34.0 | 65.7 | 0.3 | 0.0 | 0.3 | 0.6 | 0.0 | 65.7 |
| \ C1 | | 1,767 | 564 | 1,192 | 11 | 0.0 | 11 | 8 | 0.0 | 1,193 |
| Miharu | 1,767 | 100.0 | 31.9 | 67.5 | 0.6 | 0.0 | 0.6 | 0.5 | 0.0 | 67.5 |
| Subtotal | 126,383 | 126,381 | 44,038 | 81,538 | 805 | 0 | 805 | 429 | 0 | 81,923 |
| อนบเงเลา | 120,383 | 100.0 | 34.8 | 64.5 | 0.6 | 0.0 | 0.6 | 0.3 | 0.0 | 64.8 |

| | | Confirmed results | Number by exam results | | | Noc | lules | Cysts | | |
|----------------------|--------------|-----------------------|------------------------|----------------|------------|-----|------------|------------|----------|----------------|
| | Participants | b | A | Proport | ion (%) | | | tion (%) | - | tion (%) |
| | a | Proportion b/a (%) | Al | A2 | В | С | ≥5.1 mm | ≤5.0 mm | ≥20.1 mm | ≤20.0 mm |
| Municipalities surve | • | | | ' | | | | L | | l |
| Iwaki | 36,624 | 36,619 | 12,655 | 23,681 | 283 | 0 | 281 | 145 | 2 | 23,798 |
| C 1 | 0.247 | 100.0 9,247 | 34.6 3,236 | 64.7 5,928 | 0.8 83 | 0.0 | 0.8 83 | 0.4 46 | 0.0 | 5,969 |
| Sukagawa | 9,247 | 100.0 | 35.0 | 64.1 | 0.9 | 0.0 | 0.9 | 0.5 | 0.0 | 64.6 |
| Soma | 3,822 | 3,822 100.0 | 1,536 40.2 | 2,253 58.9 | 33 0.9 | 0.0 | 33 0.9 | 0.5 | 0.0 | 2,270 59.4 |
| Kagamiishi | 1,590 | 1,590 100.0 | 528 33.2 | 1,050 66.0 | 12 0.8 | 0.0 | 12 0.8 | 7 0.4 | 0.0 | 1,056 66.4 |
| Shinchi | 849 | 849 | 307 | 535 | 7 | 0 | 7 | 4 | 0 | 537 |
| Nakajima | 645 | 100.0 645 | 36.2 226 | 63.0 416 | 0.8 | 0.0 | 0.8 | 0.5 | 0.0 | 63.3 415 |
| Yabuki | 1,962 | 100.0 1,962 | 35.0 683 | 64.5 1,271 | 0.5 8 | 0.0 | 0.5 8 | 0.6 | 0.0 | 64.3 1,274 |
| | | 100.0 1,609 | 34.8 639 | 64.8 962 | 0.4 8 | 0.0 | 0.4 | 0.2 | 0.0 | 64.9 965 |
| Ishikawa | 1,609 | 100.0 | 39.7 | 59.8 | 0.5 | 0.0 | 0.5 | 0.2 | 0.0 | 60.0 |
| Yamatsuri | 578 | 578 100.0 | 196 33.9 | 379 65.6 | 0.5 | 0.0 | 0.5 | 0.2 | 0.0 | 381 65.9 |
| Asakawa | 820 | 820 | 292 | 519 | 9 | 0 | 9 | 3 | 0 | 525 |
| | <u> </u> | 100.0 691 | 35.6 271 | 63.3 415 | 1.1 | 0.0 | 1.1 | 0.4 | 0.0 | 64.0 416 |
| Hirata | 691 | 100.0 | 39.2 | 60.1 | 0.7 | 0.0 | 0.7 | 0.3 | 0.0 | 60.2 |
| Tanagura | 1,752 | 1,752 100.0 | 635 36.2 | 1,107 63.2 | 10 0.6 | 0.0 | 10 0.6 | 8 0.5 | 0.0 | 1,114 63.6 |
| Hanawa | 889 | 889 | 322 | 558 | 9 | 0 | 9 | 5 | 0 | 561 |
| C | 382 | 100.0 382 | 36.2 139 | 62.8 239 | 1.0 | 0.0 | 1.0 | 0.6 | 0.0 | 63.1 241 |
| Samegawa | 382 | 100.0 | 36.4 309 | 62.6 | 1.0 | 0.0 | 1.0 | 0.8 | 0.0 | 63.1 |
| Ono | 1,031 | 1,031 100.0 | 30.0 | 714 69.3 | 0.8 | 0.0 | 0.8 | 0.3 | 0.0 | 718 69.6 |
| Tamakawa | 798 | 798 100.0 | 283 35.5 | 512 64.2 | 3 0.4 | 0.0 | 3 0.4 | 6 0.8 | 0.0 | 513 64.3 |
| Furudono | 623 | 623 100.0 | 238 38.2 | 382 61.3 | 3 0.5 | 0.0 | 3 0.5 | 0.3 | 0.0 | 383 61.5 |
| Hinoemata | 47 | 47 100.0 | 21 44.7 | 26 55.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 26 55.3 |
| Minami-aizu | 1,472 | 1,472 100.0 | 552 37.5 | 909 61.8 | 11 0.7 | 0.0 | 11 0.7 | 3 0.2 | 0.0 | 913 62.0 |
| Kaneyama | 89 | 89 100.0 | 31 34.8 | 57 64.0 | 1 1.1 | 0.0 | 1 1.1 | 1.1 | 0.0 | 57 64.0 |
| Showa | 74 | 74 100.0 | 34 45.9 | 38 51.4 | 2.7 | 0.0 | 2.7 | 0.0 | 0.0 | 39 52.7 |
| Mishima | 107 | 107 | 28 | 78 72.9 | 1 | 0 | 1 | 1 | 0 | 79 73.8 |
| Shimogo | 528 | 100.0 528 | 26.2 220 | 303 | 0.9 | 0.0 | 0.9 5 | 0.9 | 0.0 | 307 |
| | <u> </u> | 100.0 4,925 | 41.7 1,761 | 57.4 3,128 | 0.9 36 | 0.0 | 0.9 36 | 0.2 | 0.0 | 58.1 3,139 |
| Kitakata | 4,925 | 100.0 476 | 35.8 178 | 63.5 294 | 0.7 | 0.0 | 0.7 | 0.5 | 0.0 | 63.7 293 |
| Nishiaizu | 476 | 100.0 | 37.4 | 61.8 | 0.8 | 0.0 | 0.8 | 0.4 | 0.0 | 61.6 |
| Tadami | 391 | 391 100.0 | 144 36.8 | 245 62.7 | 0.5 | 0.0 | 0.5 | 0.3 | 0.0 | 247 63.2 |
| Inawashiro | 1,504 | 1,504 100.0 | 526 35.0 | 963 64.0 | 15 1.0 | 0.0 | 15 1.0 | 7 0.5 | 0.0 | 974 64.8 |
| Bandai | 355 | 355 100.0 | 131 36.9 | 222 62.5 | 0.6 | 0.0 | 0.6 | 0.5 | 0.0 | 223 62.8 |
| Kitashiobara | 318 | 318 | 107 | 209 | 2 | 0 | 2 | 1 | 0 | 209 |
| Aizumisato | 2,063 | 100.0 2,063 | 33.6 769 | 65.7 1,279 | 0.6 15 | 0.0 | 0.6 15 | 0.3 | 0.0 | 65.7 1,285 |
| | | 100.0 1,736 | 37.3 585 | 62.0 1,137 | 0.7 14 | 0.0 | 0.7 | 0.6 | 0.0 | 62.3 1,140 |
| Aizubange | 1,736 | 100.0 342 | 33.7 123 | 65.5 219 | 0.8 | 0.0 | 0.8 | 1.0 | 0.0 | 65.7 |
| Yanaizu | 342 | 100.0 | 36.0 | 64.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 64.0 |
| Aizuwakamatsu | 12,768 | 12,768 100.0 | 4,526 35.4 | 8,150 63.8 | 92 0.7 | 0.0 | 91 0.7 | 54 0.4 | 0.0 | 8,191 64.2 |
| Yugawa | 414 | 414 100.0 | 151 36.5 | 260 62.8 | 3 0.7 | 0.0 | 3 0.7 | 0.5 | 0.0 | 262 63.3 |
| Subtotal | 91,521 | 91,516 100.0 | 32,382 35.4 | 58,438 63.9 | 696 0.8 | 0.0 | 693 0.8 | 399 0.4 | 0.0 | 58,739 64.2 |
| Total | 217,904 | 217,897 | 76,420 | 139,976 | 1,501 | 0 | 1,498 | 828 | 3 | 140,662 |
| Total | 217,904 | 100.0 | 35.1 | 64.2 | 0.7 | 0.0 | 0.7 | 0.4 | 0.0 | 64.6 |

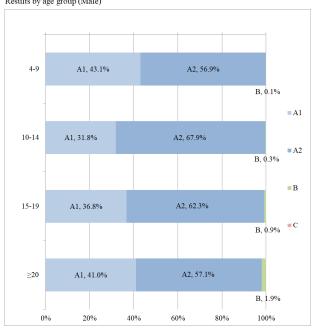
Appendix 4

1 Thyroid ultrasound examination results by age and sex

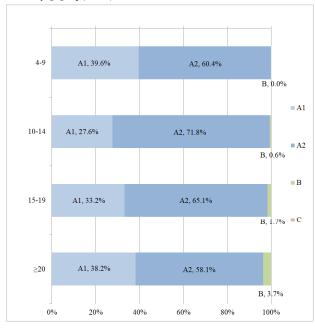
As of 30 September 2019

| Class/ | | | A | \ | | | В | | | C | | | Total | | |
|--------|--------|--------|--------|----------|--------|---------|------|--------|-------|------|--------|-------|---------|---------|---------|
| sex | | A1 | | | A2 | | | | | | | | | Total | |
| Age | Male | Female | Total | Male | Female | Total | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| 4-9 | 13,887 | 12,061 | 25,948 | 18,338 | 18,383 | 36,721 | 17 | 12 | 29 | 0 | 0 | 0 | 32,242 | 30,456 | 62,698 |
| 10-14 | 13,268 | 11,055 | 24,323 | 28,284 | 28,707 | 56,991 | 110 | 242 | 352 | 0 | 0 | 0 | 41,662 | 40,004 | 81,666 |
| 15-19 | 11,697 | 10,532 | 22,229 | 19,838 | 20,687 | 40,525 | 286 | 541 | 827 | 0 | 0 | 0 | 31,821 | 31,760 | 63,581 |
| ≥20 | 1,772 | 2,148 | 3,920 | 2,470 | 3,269 | 5,739 | 83 | 210 | 293 | 0 | 0 | 0 | 4,325 | 5,627 | 9,952 |
| Total | 40,624 | 35,796 | 76,420 | 68,930 | 71,046 | 139,976 | 496 | 1,005 | 1,501 | 0 | 0 | 0 | 110,050 | 107,847 | 217,897 |

Results by age group (Male)



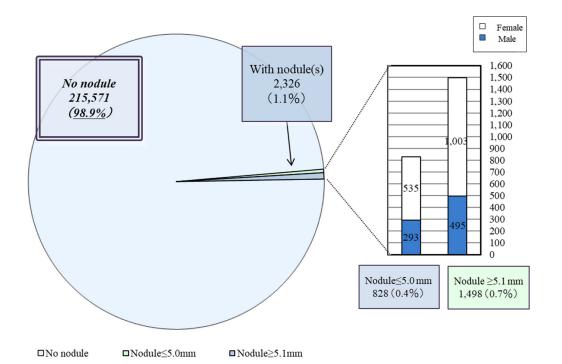
Results by age group (Female)

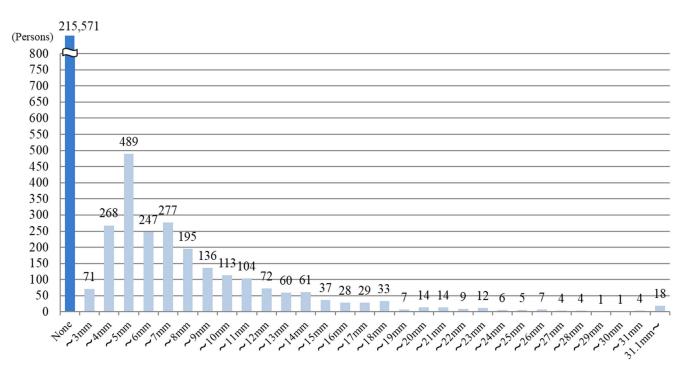


2 Nodule characteristics

As of 30 September 2019

| Nodule size | Total | | | Class | Duamantian |
|--------------|---------|---------|---------|-------|------------|
| Nodule size | Total | Male | Female | Class | Proportion |
| None | 215,571 | 109,262 | 106,309 | A1 | 98.9% |
| ≤ 3.0 mm | 71 | 34 | 37 | A2 | 0.4% |
| 3.1-5.0 mm | 757 | 259 | 498 | AZ | U.470 |
| 5.1-10.0 mm | 968 | 329 | 639 | | |
| 10.1-15.0 mm | 334 | 111 | 223 | | |
| 15.1-20.0 mm | 111 | 27 | 84 | В | 0.7% |
| 20.1-25.0 mm | 46 | 17 | 29 | | i i |
| ≥ 25.1 mm | 39 | 11 | 28 | | |
| Total | 217,897 | 110,050 | 107,847 | | |

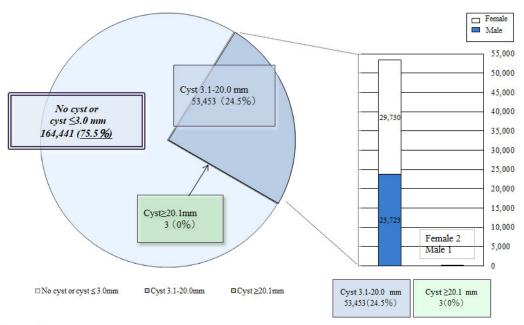


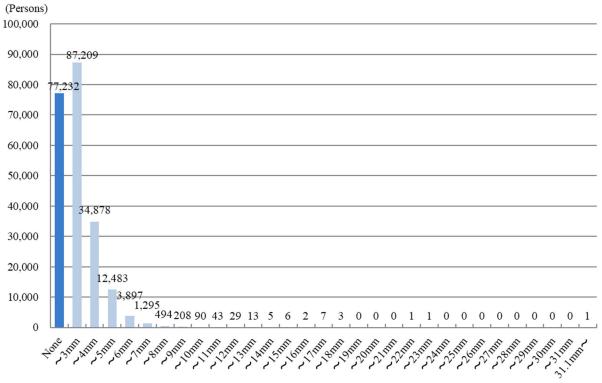


3 Cyst characteristics

As of 30 September 2019

| Creat size | Total | | | Class | Duamantian | |
|--------------|---------|---------|---------|-------|------------|--|
| Cyst size | Total | Male | Female | Class | Proportion | |
| None | 77,232 | 40,912 | 36,320 | A1 | 75.5% | |
| ≤ 3.0 mm | 87,209 | 45,414 | 41,795 | | 73.370 | |
| 3.1-5.0 mm | 47,361 | 21,602 | 25,759 | | | |
| 5.1-10.0 mm | 5,984 | 2,091 | 3,893 | A2 | 24.5% | |
| 10.1-15.0 mm | 96 | 25 | 71 | | 24.370 | |
| 15.1-20.0 mm | 12 | 5 | 7 | | į į | |
| 20.1-25.0 mm | 2 | 0 | 2 | В | 0.001% | |
| ≥ 25.1 mm | 1 | 1 | 0 | В | 0.001% | |
| Total | 217,897 | 110,050 | 107,847 | | | |





Appendix 5

| Results of conf | irmatory ex | amination b | ov area | | | | |
|----------------------|--------------|--------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------|
| | | Participants | Number of | of those who | underwent | confirmatory | y exam |
| Area | Participants | who required confirmatory exam | Total | Ages 4-9 | Ages 10-14 | Ages 15-19 | ≥ 20 |
| | a | ь | c | d | e | f | g |
| | | Proportion (%) b/a | Proportion (%) c/b | Proportion (%) d/c | Proportion (%) e/c | Proportion (%) f/c | Proportion (%) |
| 12 1) | 27.094 | 212 | 161 | 1 | 36 | 95 | 29 |
| 13 municipalities 1) | 27,084 | 0.8 | 75.9 | 0.6 | 22.4 | 59.0 | 18.0 |
| Nakadori 2) | 121,916 | 761 | 564 | 14 | 111 | 317 | 122 |
| Nakadori | 121,910 | 0.6 | 74.1 | 2.5 | 19.7 | 56.2 | 21.6 |
| 1 1 . 3) | 41,295 | 323 | 230 | 2 | 53 | 115 | 60 |
| Hamadori 3) | 41,293 | 0.8 | 71.2 | 0.9 | 23.0 | 50.0 | 26.1 |
| . 4) | 27,609 | 205 | 143 | 4 | 25 | 74 | 40 |
| Aizu 4) | 27,009 | 0.7 | 69.8 | 2.8 | 17.5 | 51.7 | 28.0 |
| | | | | | | | |
| Total | 217 904 | 1,501 | 1,098 | 21 | 225 | 601 | 251 |
| | | | | | | | |

| | | As of 3 | 0 Septem | ber 2019 |
|----------------|----------------|----------------|----------------|----------------|
| | Number o | of confirmed | results | |
| | | | Not A | or A2 |
| Total | A1 | A2 | | FNAC |
| h | i | i | k | 1 |
| Proportion (%) |
| h/c | i/h | j/h | k/h | 1/k |
| 153 | 0 | 19 | 134 | 13 |
| 95.0 | 0.0 | 12.4 | 87.6 | 9.7 |
| 536 | 5 | 45 | 486 | 31 |
| 95.0 | 0.9 | 8.4 | 90.7 | 6.4 |
| 224 | 2 | 23 | 199 | 21 |
| 97.4 | 0.9 | 10.5 | 88.8 | 10.6 |
| 137 | 2 | 12 | 123 | 9 |
| 95.8 | 1.5 | 8.8 | 89.8 | 7.3 |
| | • | • | • | • |
| 1.050 | 9 | 99 | 942 | 74 |

89.7

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

20.5

- 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
- 3) Iwaki, Soma, Shinchi

Total

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

Appendix 6

Surgical cases for malignancy or suspicion of malignancy

1. Municipalities surveyed in FY 2016

217,904

- Malignant or suspicious for malignancy: 12 (11 surgical cases: 11 papillary thyroid carcinomas)
- 2. Municipalities surveyed in FY 2017
 - Malignant or suspicious for malignancy: 18 (13 surgical case: 13 papillary thyroid carcinomas)
- 3. Total
 - Malignant or suspicious for malignancy: 30 (24 surgical cases: 24 papillary thyroid carcinomas)

Report on the Fourth-Round Thyroid Survey (Third Full-Scale Thyroid Survey)

1. Summary

1.1 Purpose

In order to monitor the long-term health of children, we are now engaged in the third Full-Scale Thyroid Survey (the Fourth-Round Survey), following the Preliminary Baseline Survey for background assessment of thyroid glands, and two Full-Scale Thyroid Surveys (the Second- and Third-Round Surveys) to continuously confirm the status of thyroid glands.

1.2 Survey Population

All the Fukushima residents approximately 18 years old or younger at the time of earthquake (born between 2 April 1992 and 1 April 2012).

1.3 Implementation Period

From April 2018 (schedule of FY 2018 and FY 2019):

1.3-1 For those 18 years old or younger

The examination will be carried out for each municipality in FY 2018 and FY 2019.

1.3-2 19 years old or older

The examination will be carried out for each age (school grade).

FY 2018: those who were born in FY 1996 and FY 1998

FY 2019: those who were born in FY 1997 and FY 1999

1.3-3 For those 25 years old

For those who are older than 20, examination will be carried out with 5-year interval.

FY 2018: those who were born in FY 1993

FY 2019: those who were born in FY 1994

The results of these examinations will be reported separately.

1.4 Responsible Organizations

Fukushima Prefecture commissioned Fukushima Medical University (FMU) to conduct the survey in cooperation with organizations inside and outside Fukushima for the convenience of examination participants (the number of contracts is as of 30 September 2019).

1.4-1 The primary examination

Inside Fukushima Prefecture 82 medical facilities
Outside Fukushima Prefecture 121 medical facilities

1.4-2 The confirmatory examination

Inside Fukushima Prefecture 5 medical facilities including FMU

Outside Fukushima Prefecture 37 medical facilities

1.5 Method

1.5-1 The primary examination

We use ultrasonography for examination of the thyroid gland.

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

-Diagnostic Criteria (A)

A1: No nodules / cysts

A2: Nodules ≤5.0 mm or cysts ≤20.0 mm

-Diagnostic Criteria (B)

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)

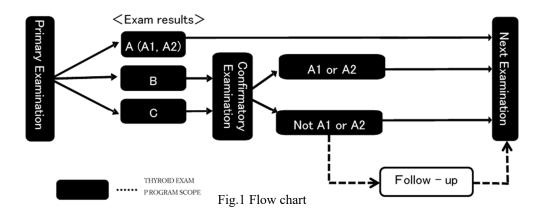
C: Immediate need for confirmatory examination, judging from the condition of the thyroid gland.

1.5-2 The 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.

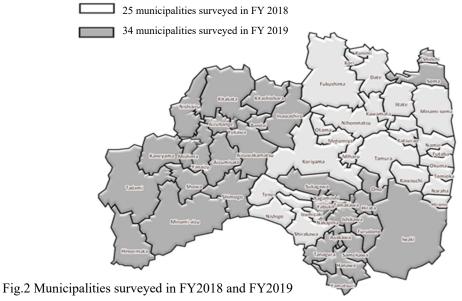
We recommend medical follow-up for those requiring it due to confirmatory exam results.

1.5-3 Flow chart



1.6 Municipalities Surveyed

The municipalities where examinations (for those 18 years old or younger) were carried out in FY 2018 and FY 2019 are as follows:



2. Results as of 30 September 2019

2.1 Results of the Primary Examination

2.1-1 Progress report

The examination was carried out for 136,942 (46.5%) participants by 30 September 2019 (Implementation status for each municipality and prefectures other than Fukushima are shown in Appendix 1 and Appendix 2). Results of 125,491 participants (91.6%) have been confirmed and notifications were sent to them accordingly. (The result for each municipality is shown in Appendix 3).

Of these, 43,064 were classified as A1 (34.3%), 81,598 as A2 (65.0%), 829 (0.7%) as B, and none as C.

Table 1 Progress and results of the primary examination

As of 30 September 2019

| | | I | Participa | nts | | | Exam results | | | | | | | |
|---------|------------|-----------|------------------------|-----------|-----------|---------|--------------|--------|--------|---------|------------------------|-------|----|-------|
| | Survey | | Proportion (%) Outside | | | | | | Cla | ass (%) | | | | |
| | population | Proportio | | | Proport | ion (%) | A | | | | Requiring confirmatory | | | |
| | | | | Fukushima | | | | | | | exam | | | |
| | a | b | (b/a) | | С | (c/b) | A1 d | (d/c) | A2 e | (e/c) | Bf | (f/c) | Сg | (g/c) |
| FY 2018 | 168,021 | 103,315 | (61.5) | 6,547 | 101,803 (| 98.5) | 34,808 | (34.2) | 66,394 | (65.2) | 601 | (0.6) | 0 | (0.0) |
| FY 2019 | 126,162 | 33,627 | (26.7) | 2,301 | 23,688 (| 70.4) | 8,256 | (34.9) | 15,204 | (64.2) | 228 | (1.0) | 0 | (0.0) |
| Total | 294,183 | 136,942 | (46.5) | 8,848 | 125,491 (| 91.6) | 43,064 | (34.3) | 81,598 | (65.0) | 829 | (0.7) | 0 | (0.0) |

Table 2. Number and proportion of participants with nodules/cysts

| | Number of | Number and proportion of participants with nodules/cysts | | | | | | | |
|---------|-------------------|--|-----------|----------|---------------|--|--|--|--|
| | participants with | Noc | lules | Cysts | | | | | |
| | confirmed results | ≥5.1 mm | ≤5.0 mm | ≥20.1 mm | ≤20.0 mm | | | | |
| | a | b (b/a) | c (c/a) | d (d/a) | e (e/a) | | | | |
| FY 2018 | 101,803 | 598 (0.6) | 330 (0.3) | 3 (0.0) | 66,695 (65.5) | | | | |
| FY 2019 | 23,688 | 228 (1.0) | 106 (0.4) | 0 (0.0) | 15,328 (64.7) | | | | |
| Total | 125,491 | 826 (0.7) | 436 (0.3) | 3 (0.0) | 82,023 (65.4) | | | | |

- Proportions are rounded at a lower decimal place. This applies to other tables as well.
- Those who receive the examination at 5-year intervals (those born between FY1992 and FY1995) are excluded. The results of examinations with 5-year intervals will be shown separately.
- The examination for those born in FY 1992 (approx. 22,000) and FY 1993 (approx. 22,000) took place in FY 2017 and FY 2018, respectively. Those born in FY 1994 (approx. 22,000) and FY 1995 (approx. 21,000) will be covered in FY 2019 and FY 2020 surveys, respectively.

2.1-2 Participation rates by age group

The participation rate for each age group as of 1 April of each year is shown in Table 3.

Table 3 Participation rates by age group

As of 30 September 2019

| | | Total | A | age group (years | up (years) | | |
|---------|-----------------------|---------|--------|------------------|------------|--|--|
| | Age group (years) | | 6-11 | 12-17 | 18-24 | | |
| | Survey population (a) | 168,021 | 56,927 | 64,829 | 46,265 | | |
| FY 2018 | Participants (b) | 103,315 | 47,728 | 51,231 | 4,356 | | |
| | Proportion (%) (b/a) | 61.5 | 83.8 | 79.0 | 9.4 | | |
| | Age group (years) | | 7-11 | 12-17 | 18-24 | | |
| | Survey population (a) | 126,162 | 34,159 | 47,276 | 44,727 | | |
| FY 2019 | Participants (b) | 33,627 | 12,904 | 16,429 | 4,294 | | |
| | Proportion (%) (b/a) | 26.7 | 37.8 | 34.8 | 9.6 | | |
| | Survey population (a) | 294,183 | 91,086 | 112,105 | 90,992 | | |
| Total | Participants (b) | 136,942 | 60,632 | 67,660 | 8,650 | | |
| | Proportion (%) (b/a) | 46.5 | 66.6 | 60.4 | 9.5 | | |

[·] Age groups are formed with the age as of 1 April of each fiscal year.

2.1-3 Comparison of Full-scale Thyroid Surveys

Comparison of Fourth- and Third-Round Survey results is shown in Table 4. Among 111,234 participants who were diagnosed as A1 or A2 in the Third-Round Survey, 110,838 (99.6%) had A1 or A2 results, and 396 (0.4%) were diagnosed as B in the Fourth-Round Survey. Among 449 participants who were diagnosed as B in the Third-Round Survey, 88 (19.6%) had A1 or A2 results, and 361 (80.4%) were diagnosed as B in the Fourth-Round Survey.

Table 4 Comparison of Full-scale Thyroid Survey

| | | | Results of the Third- | Ro | esults of the Four | th-Round Survey | *2 |
|-------------------------------|-------|---------------|-----------------------|---------|--------------------|-----------------|---|
| | | | round Survey*1 | A | A | В | C |
| | | | (%) | A1 | A2 | Б | C |
| | | | a | b | c | d | e |
| | | | | b/a (%) | c/a (%) | d/a (%) | e/a (%) |
| | | A1 | 38,604 | 29,395 | 9,159 | 50 | 0 |
| | Α | Ai | (100.0) | (76.1) | (23.7) | (0.1) | (0.0) |
| | A | A2 | 72,630 | 7,931 | 64,353 | 346 | 0 |
| | | AΔ | (100.0) | (10.9) | (88.6) | (0.5) | (0.0) |
| Results of the Third-round | | В | 449 | 4 | 84 | 361 | 0 |
| Survey | | ь | (100.0) | (0.9) | (18.7) | (80.4) | (0.0) |
| Sur vey | | С | 0 | 0 | 0 | 0 | 0 |
| | | C | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) |
| | NI. | | 13,808 | 5,734 | 8,002 | 72 | e/a (%) 0 (0.0) 0 (0.0) 0 (0.0) 0 (0.0) 0 |
| | INC | participation | (100.0) | (41.5) | (58.0) | (0.5) | (0.0) |
| | Total | | 125,491 | 43,064 | 81,598 | 829 | 0 |
| | Total | | (100.0) | (34.3) | (65.0) | (0.7) | (0.0) |

^{*1} Upper figures show a previous (Third-Round) diagnosis for the participants in this (Fourth-Round) survey whose results have been confirmed. They are not the breakdown of the total number of the previous-round participants (217,897).

^{*2} Upper figures show the breakdown of the Fourth-Round Survey participants who were diagnosed for each diagnostic class in the Third-Round Survey. Lower figures are their proportion (%).

2.2 Results of the Confirmatory Examination

2.2-1 Progress Report

By 30 September 2019, 484 of 829 people (58.4%) have received the examination. Of those, 418 (86.4%) have completed.

Of the foregoing 418 participants, 38 (A1: 2, A2: 36) (9.1%) was confirmed to meet A1 or A2 diagnostic criteria by the Primary Examination standards (including those with other thyroid conditions). Remaining 380 (90.9%) people were confirmed to be outside of A1/A2 criteria.

Table 5 Progress and results of the confirmatory examination

As of 30 September 2019

| | Number of | Participants | | Confirmed | exam results | | |
|---------|------------------------------|----------------|--------------------------------|-----------|--------------|----------------------|----------|
| | those requiring confirmatory | Proportion (%) | Confirmatory exam coverage (%) | A1 | A2 | A2 Not A1 or A2 FNAC | |
| | exam | | | | | | |
| | a | b (b/a) | c (c/b) | d (d/c) | e (e/c) | f (f/c) | g (g/f) |
| FY 2018 | 601 | 399 (66.4) | 369 (92.5) | 2 (0.5) | 34 (9.2) | 333 (90.2) | 28 (8.4) |
| FY 2019 | 228 | 85 (37.3) | 49 (57.6) | 0 (0.0) | 2 (4.1) | 47 (95.9) | 1 (2.1) |
| Total | 829 | 484 (58.4) | 418 (86.4) | 2 (0.5) | 36 (8.6) | 380 (90.9) | 29 (7.6) |

2.2-2 Results of fine needle aspiration cytology (FNAC)

Among those who underwent FNAC, 16 had nodules classified as malignant or suspicious for malignancy. 8 of them were male, and 8 were female. Participants' age at the time of the confirmatory examination ranged from 11 to 20 years (mean age: 16.1 ± 2.6 years). The minimum and maximum tumor diameters were 6.1 mm and 29.4 mm. Mean tumor diameter was 11.5 ± 5.7 mm.

13 of these 16 participants had A (A1: 3, A2: 10) and 3 had B in the Full-Scale Survey (Third-Round Survey).

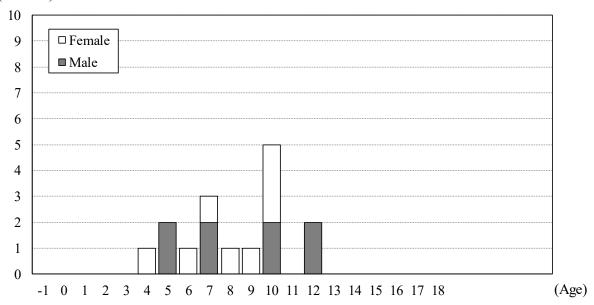
Table 6. Results of FNAC

| A. Municipalities surveyed in FY 2018 | |
|--|--|
| Malignant or suspicious for malignancy : | 15*) |
| Male to female ratio : | 7:8 |
| B. Municipalities surveyed in FY 2019 | |
| Malignant or suspicious for malignancy : | 1*) |
| Male to female ratio : | 1:0 |
| C. Total | |
| Malignant or suspicious for malignancy : | 16*) |
| Male to female ratio : | 8:8 |
| • Mean age (SD, min-max): | 16.1 (2.6, 11-20), 8.3 (2.5, 4-12) at the time of disaster |
| Mean tumor size: | 11.5 mm (5.7 mm, 6.1-29.4 mm) |

^{*)} Surgical cases are as shown in Appendix 6.

2.2-3 Age distribution of malignant or suspicious-for-malignancy cases diagnosed by FNAC Age distributions of 16 people with nodules classified as malignant or suspicious with their age as of 11 March 2011 is as Fig. 3, with their age as of confirmatory examination is as Fig. 4.

(Persons)



Note: Those who were 15 and 18 at the time of the disaster were not included in the Fourth-Round Survey participants.

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

Fig.3 Age as of 11 March 2011

(Persons)

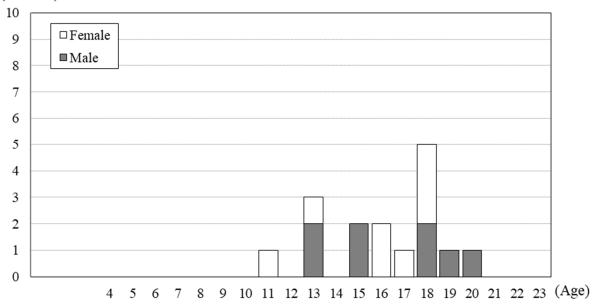


Fig. 4 Age as of the date of confirmatory examination

2.2-4 Basic Survey results of those with nodules diagnosed as malignant or suspicious for malignancy by FNAC

11 (68.8%) of the 16 people who were diagnosed as malignant or suspicious cases by FNAC had participated in the Basic Survey (for external radiation dose estimation), and 11 received the results. The highest effective dose documented was 2.4 mSv.

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

As of 30 September 2019

| E66-4i 1 | | | | Age | at the time | of the disa | ster | | | |
|----------------------|------|--------|------|--------|-------------|-------------|------|--------|------|--------|
| Effective dose (mSv) | 0- | -5 | 6-1 | 10 | 11- | -15 | 16- | -18 | To | otal |
| (IIISV) | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female |
| <1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |
| 1-1.9 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 3 | 1 |
| 2-4.9 | 2 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 3 | 2 |
| 5-9.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10-19.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ≥20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 2 | 0 | 3 | 4 | 2 | 0 | 0 | 0 | 7 | 4 |

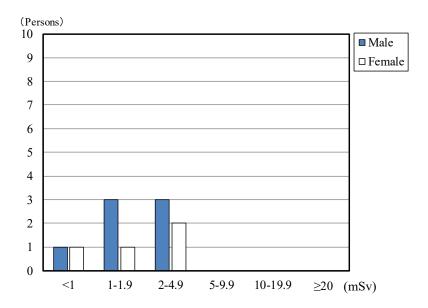


Fig. 5 Effective dose of the participants

2.2-5 Blood and urinary iodine test results as of 30 September 2019

Table 8. Blood test results Mean±SD (Abnormal value) FT4 1) FT3 2) TSH 3) Tg 4) TPOAb ((IU/mL) (IU/mL) (µIU/mL) (ng/dL) (pg/mL) (ng/mL) Reference Range $0.95\sim 1.74^{7)}$ 2.13~4.07 7) 0.340~3.8807) ≤33.7 <28.0 <16.0 16 malignant or $1.3 \pm 0.1 \ (0.0\%)$ $3.5 \pm 0.5 \; (0.0\%)$ $1.3 \pm 0.5 \ (0.0\%)$ 29.6± 67.6 (12.5%) 43.8% 37.5% suspicious Other 383 $1.3 \pm 0.3 \ (5.0\%)$ $3.6 \pm 1.0 \ (7.3\%)$ 1.2 ± 0.9 (8.4%) 20.5±28.8 (11.2%) 5.0% 5.2%

- 1) FT4: free thyroxine; thyroid hormone binding 4 iodines; higher among patients with thyrotoxicosis (such as Graves' disease) and lower with hypothyroidism (such as Hashimoto's thyroiditis).
- 2) FT3: free triiodothyronine; thyroid hormone binding 3 iodines; higher among patients with thyrotoxicosis (such as Graves' disease) and lower with hypothyroidism (such as Hashimoto's thyroiditis).
- 3) TSH: thyroid-stimulating hormone; higher among patients with Hashimoto's disease and lower with Graves' disease.
- 4) Tg: thyroglobulin; higher when thyroid tissue is destroyed or when neoplastic tissue 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 interval varies according to age.

Table 9 Urinary iodine test results

(µg/day)

| | Minimum | 25th percentile | Median | 75th percentile | Maximum |
|----------------------------|---------|-----------------|--------|-----------------|---------|
| 16 malignant or suspicious | 54 | 132 | 211 | 487 | 1780 |
| Other 377 | 32 | 116 | 193 | 331 | 17200 |

2.2-6 Confirmatory Examination results by area as of 30 September 2019

The proportions of participants with nodules diagnosed as malignant or suspicious for malignancy were 0.01% in 13 municipalities in the nationally-designated evacuation zones and Nakadori, and 0.00% in Hamadori and Aizu.

Table 10 Confirmatory examination results by area

| Area | Number of Participants | Participants who required confirmatory exam | required confirmatory exam(%) | Number who underwent confirmatory exam | Malignant or uspicious cases | Proportion of malignant or suspicious cases (%) |
|------------------------|---------------------------|---|-------------------------------------|---|------------------------------|--|
| | a | ь | b/a | | c | c/a |
| 13 municipalities 1) | 20,031 | 115 | 0.6 | 84 | 2 | 0.01 |
| Nakadori ²⁾ | 99,664 | 580 | 0.6 | 350 | 14 | 0.01 |
| Hamadori ³⁾ | 9,073 | 71 | 0.8 | 25 | 0 | 0.00 |
| A izu ⁴⁾ | 8,174 | 63 | 0.8 | 25 | 0 | 0.00 |
| | | | | | | |
| Total | 136,942 | 829 | 0.6 | 484 | 16 | 0.01 |

- Tamura, Minami-soma, Date, Kawamata, Hirono, Naraha, Tomioka, Kawauchi, Okuma, Futaba, Namie, Katsurao, Iitate
- 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
- 3) Iwaki, Soma, Shinchi
- Aizuwakamatsu, Kitakata, Shimogo, Hinoemata, Tadami, Minami-aizu, Kitashiobara, Nishiaizu, Bandai, Inawashiro, Aizubange, Yugawa, Yanaizu, Mishima, Kaneyama, Showa, Aizumisato

3. Mental Health Care

We provide the following support.

3.1 Support for the Primary Examination Participants

After the examination, medical doctors explain the results showing the ultrasound image in private consultation booths at the venue. As of 30 September 2019, 2,344 (100%) of 2,345 participants visited the consultation booths.

3.2 Briefing Sessions

To help participants or their parents improve their understanding of the thyroid examination, briefing sessions were carried out. Since April 2018, 811 people in 27 venues participated in the briefing sessions as of 30 September 2019. The cumulative total of participants is 14,834.

3.3 Support for the Confirmatory Examination Participants

We have set up a support team for participants of the confirmatory examination within Fukushima Medical University to address their anxiety and concerns, as well as online support for Q&A and counseling.

Since the start of Fourth-Round Survey, 312 participants (103 males and 209 females) have received support as of 30 September 2019. The number of supports provided was 611 in total. Of these, 312 (51.1%) received support at their first examination and 299 (48.9%) at subsequent examination.

For those who proceeded to regular insured medical care, we continue to provide support in cooperation with teams of medical staff at hospitals.

Appendix 1

Thyroid ultrasound examination (TUE) coverage by municipality

| | Survey population | Partici | · | Proportion (%) | | and proportion | | Participants living outside Fukushima | Proportion (%) |
|-------------------|-------------------|---------|------------------------|----------------|----------------|----------------|--------------|--|----------------|
| | a | b | Outside Fukushima*1 | b/a | 6-11 | 12-17 | 18-24 | c*3 | c/b |
| Municipalities su | irveyed in F | Y 2018 | | | | | | - | |
| Kawamata | 1,832 | 1,123 | 25 | 61.3 | 470 41.9 | 575 51.2 | 78 6.9 | 39 | 3.5 |
| Namie | 2,858 | 1,208 | 287 | 42.3 | 473 39.2 | 571 47.3 | 164 13.6 | 333 | 27.6 |
| Iitate | 852 | 528 | 17 | 62.0 | 217 41.1 | 273 51.7 | 38 7.2 | 24 | 4.5 |
| Minami-soma | 10,201 | 5,677 | 788 | 55.7 - | 2,404 42.3 | 2,836 50.0 | 437 | 841 | 14.8 |
| Date | 8,781 | 5,819 | 166 | 66.3 | 2,327 40.0 | 3,027 52.0 | 465 | 173 | 3.0 |
| Tamura | 5,435 | 3,360 | 65 | 61.8 - | 1,497 44.6 | 1,620 48.2 | 243 7.2 | 75 | 2.2 |
| Hirono | 801 | 294 | 30 | 36.7 | 135 45.9 | 132 | 27 9.2 | 25 | 8.5 |
| Naraha | 1,094 | 267 | 46 | 24.4 | 104 39.0 | 125 46.8 | 38 | 51 | 19.1 |
| Tomioka | 2,340 | 679 | 178 | 29.0 | 233 34.3 | 330 48.6 | 116 17.1 | 193 | 28.4 |
| Kawauchi | 267 | 132 | 9 | 49.4 | 47 35.6 | 80 | 5 3.8 | 10 | 7.6 |
| Okuma | 2,020 | 611 | 195 | 30.2 | 247 40.4 | 272 44.5 | 92 15.1 | 203 | 33.2 |
| Futaba | 978 | 236 | 57 | 24.1 | 100 | 110 46.6 | 26 11.0 | 58 | 24.6 |
| Katsurao | 174 | 97 | 3 | 55.7 - | 36 37.1 | 51 52.6 | 10.3 | 3 | 3.1 |
| Fukushima | 43,238 | 28,332 | 1,676 | 65.5 | 11,645 41.1 | 14,216 50.2 | 2,471 8.7 | 1,671 | 5.9 |
| Nihonmatsu | 8,104 | 5,389 | 186 | 66.5 | 2,264 42.0 | 2,762 51.3 | 363 6.7 | 170 | 3.2 |
| Motomiya | 4,910 | 3,153 | 88 | 64.2 | 1,390 44.1 | 1,554 49.3 | 209 | 82 | 2.6 |
| Otama | 1,287 | 908 | 23 | 70.6 | 413 | 439 | 56 | 17 | 1.9 |
| Koriyama | 52,557 | 32,416 | 2,299 | 61.7 | 13,210 40.8 | 16,441 50.7 | 2,765 8.5 | 2,271 | 7.0 |
| Kori | 1,609 | 1,112 | 29 | 69.1 | 465 41.8 | 544 48.9 | 9.3 | 25 | 2.2 |
| Kunimi | 1,204 | 794 | 17 | 65.9 | 293 36.9 | 429 54.0 | 72 9.1 | 18 | 2.3 |
| Tenei | 839 | 506 | 7 | 60.3 | 216 42.7 | 255 50.4 | 35 | 7 | 1.4 |
| Shirakawa | 9,969 | 6,373 | 235 | 63.9 | 2,584 40.5 | 3,263 51.2 | 526 8.3 | 234 | 3.7 |
| Nishigo | 3,263 | 2,163 | 86 | 66.3 - | 911 42.1 | 1,067 49.3 | 185 8.6 | 94 | 4.3 |
| Izumizaki | 1,025 | 657 | 4 | 64.1 | 274 41.7 | 332 50.5 | 51 7.8 | 4 | 0.6 |
| Miharu | 2,383 | 1,481 | 31 | 62.1 - | 559 37.7 | 771 52.1 | 151 10.2 | 24 | 1.6 |
| Subtotal | 168,021 | 103,315 | 6,547 | 61.5 | 42,514 41.1 | 52,075 50.4 | 8,726 8.4 | 6,645 | 6.4 |

^{*1)} The number of participants who received the examination at facilities outside Fukushima (as of 31 August 2019)

^{*2)} The upper layer shows number of participants, and the lower layer shows the proportion of participants from each municipality.

^{*3)} The number of participants who have resident registration outside of Fukushima.

[•] Age groups were formed based on the age at the Full-Scale Survey (the Fourth-Round Survey). This applies to other tables hereafter.

| | G | Partici | pants | ъ: | | | | Participants | |
|--------------------|----------------------|---------|-------------|----------------|----------------|-------------------------------|----------------|--------------------------------|----------------|
| | Survey population | | Outside | Proportion (%) | | and proportion and proportion | | living outside Fukushima | Proportion (%) |
| | a | b | Fukushima*1 | b/a | 6-11 | 12-17 | 18-24 | c*3 | c/b |
| Municipalities sur | rveyed in F | Y 2019 | 1 | <u>'</u> | ' | • | | <u> </u> | • |
| Iwaki | 49,600 | 5,330 | 1,295 | 10.7 | 825 15.5 | 2,358 44.2 | 2,147 40.3 | 1,166 | 21.9 |
| Sukagawa | 12,378 | 5,900 | 180 | 47.7 | 2,032 34.4 | 3,125 53.0 | 743 12.6 | 162 | 2.7 |
| Soma | 5,507 | 3,092 | 187 | 56.1 | 1,246 40.3 | 1,606 51.9 | 240 7.8 | 198 | 6.4 |
| Kagamiishi | 2,133 | 963 | 26 | 45.1 | 477 49.5 | 372 38.6 | 114 | 26 | 2.7 |
| Shinchi | 1,162 | 651 | 29 | 56.0 | 230 35.3 | 363 55.8 | 58 8.9 | 24 | 3.7 |
| Nakajima | 849 | 493 | 6 | 58.1 | 190 38.5 | 260 52.7 | 43 8.7 | 4 | 0.8 |
| Yabuki | 2,672 | 1,663 | 26 | 62.2 | 724 43.5 | 824 49.5 | 115 6.9 | 27 | 1.6 |
| Ishikawa | 2,182 | 1,313 | 19 | 60.2 | 531 40.4 | 670 51.0 | 112 8.5 | 18 | 1.4 |
| Yamatsuri | 816 | 459 | 7 | 56.3 | 210 45.8 | 229 49.9 | 20 4.4 | 6 | 1.3 |
| Asakawa | 1,064 | 634 | 13 | 59.6 | 236 37.2 | 346 54.6 | 52 8.2 | 13 | 2.1 |
| Hirata | 969 | 580 | 7 | 59.9 | 244 42.1 | 290 50.0 | 46 | 5 | 0.9 |
| Tanagura | 2,399 | 1,431 | 24 | 59.6 | 582 40.7 | 764 53.4 | 85 5.9 | 25 | 1.7 |
| Hanawa | 1,299 | 689 | 11 | 53.0 | 286 41.5 | 365 53.0 | 38 | 15 | 2.2 |
| Samegawa | 519 | 296 | 3 | 57.0 | 136 45.9 | 150 50.7 | 10 | 3 | 1.0 |
| Ono | 1,488 | 828 | 8 | 55.6 | 347 41.9 | 423 51.1 | 58 7.0 | 9 | 1.1 |
| Tamakawa | 1,052 | 643 | 3 | 61.1 | 251 39.0 | 348 54.1 | 44 6.8 | 3 | 0.5 |
| Furudono | 817 | 488 | 13 | 59.7 | 203 41.6 | 238 48.8 | 47 9.6 | 8 | 1.6 |
| Hinoemata | 87 | 29 | 1 | 33.3 | 16 55.2 | 12 41.4 | 3.4 | 0 | 0.0 |
| Minami-aizu | 2,128 | 1,000 | 14 | 47.0 | 461 46.1 | 491 49.1 | 48 | 11 | 1.1 |
| Kaneyama | 147 | 62 | 0 | 42.2 | 21 33.9 | 36 58.1 | 5 8.1 | 0 | 0.0 |
| Showa | 115 | 59 | 3 | 51.3 | 29 49.2 | 27 45.8 | 5.1 | 3 | 5.1 |
| Mishima | 148 | 67 | 0 | 45.3 | 28 41.8 | 37 55.2 | 3.0 | 0 | 0.0 |
| Shimogo | 747 | 340 | 4 | 45.5 | 172 50.6 | 156 45.9 | 12 3.5 | 4 | 1.2 |
| Kitakata | 6,947 | 296 | 45 | 4.3 | 110 37.2 | 111 37.5 | 75 25.3 | 39 | 13.2 |
| Nishiaizu | 761 | 274 | 5 | 36.0 | 148 54.0 | 105 38.3 | 7.7 | 5 | 1.8 |
| Tadami | 555 | 318 | 5 | 57.3 | 134 42.1 | 159 50.0 | 25 7.9 | 1 | 0.3 |
| Inawashiro | 2,070 | 963 | 21 | 46.5 | 475 49.3 | 441 45.8 | 47 4.9 | 19 | 2.0 |
| Bandai | 477 | 191 | 7 | 40.0 | 98 51.3 | 85 44.5 | 8 4.2 | 5 | 2.6 |
| Kitashiobara | 445 | 182 | 1 | 40.9 | 92 50.5 | 87 47.8 | 3 1.6 | 1 | 0.5 |
| Aizumisato | 2,823 | 1,290 | 23 | 45.7 | 563 43.6 | 614 47.6 | 113 | 21 | 1.6 |
| Aizubange | 2,402 | 1,028 | 31 | 42.8 | 486 47.3 | 454 44.2 | 88 8.6 | 22 | 2.1 |
| Yanaizu | 464 | 227 | 1 | 48.9 | 106 46.7 | 106 46.7 | 15 6.6 | 1 | 0.4 |
| Aizuwakamatsu | 18,421 | 1,606 | 279 | 8.7 | 464 28.9 | 625 38.9 | 517 32.2 | 254 | 15.8 |
| Yugawa | 519 | 242 | 4 | 46.6 | 116 47.9 | 99 40.9 | 27 11.2 | 7 | 2.9 |
| Subtotal | 126,162 | 33,627 | 2,301 | 26.7 | 12,269 36.5 | 16,376 48.7 | 4,982 14.8 | 2,105 | 6.3 |
| Total | 294,183 | 136,942 | 8,848 | 46.5 | 54,783 40.0 | 68,451 50.0 | 13,708 10.0 | 8,750 | 6.4 |

Appendix 2

Thyroid ultrasound examination (TUE) coverage outside Fukushima by prefecture

As of 31 August 2019

| | ound Chain | 11111111111 |
|------------|-------------------------------|----------------|
| Prefecture | Number of medeical facilities | Participants * |
| Hokkaido | 7 | 239 |
| Aomori | 2 | 112 |
| Iwate | 3 | 230 |
| Miyagi | 2 | 2,063 |
| Akita | 1 | 144 |
| Yamagata | 3 | 436 |
| Ibaraki | 4 | 492 |
| Tochigi | 8 | 554 |
| Gunma | 2 | 142 |
| Saitama | 3 | 459 |
| Chiba | 5 | 383 |
| Tokyo | 16 | 1,347 |
| Kanagawa | 6 | 623 |
| Niigata | 2 | 386 |
| Toyama | 2 | 25 |
| Ishikawa | 1 | 35 |

| coverage outs. | ide i dikubili | ma by prei |
|----------------|-------------------------------|----------------|
| Prefecture | Number of medeical facilities | Participants * |
| Fukui | 1 | 15 |
| Yamanashi | 2 | 75 |
| Nagano | 3 | 109 |
| Gifu | 1 | 22 |
| Shizuoka | 2 | 75 |
| Aichi | 4 | 160 |
| Mie | 1 | 16 |
| Shiga | 1 | 10 |
| Kyoto | 3 | 71 |
| Osaka | 7 | 157 |
| Hyogo | 2 | 108 |
| Nara | 2 | 24 |
| Wakayama | 1 | 8 |
| Tottori | 1 | 7 |
| Shimane | 1 | 11 |
| Okayama | 3 | 43 |

| ure | As of 31 A | ugust 2019 |
|------------|-------------------------------|----------------|
| Prefecture | Number of medeical facilities | Participants * |
| Hiroshima | 2 | 21 |
| Yamaguchi | 1 | 20 |
| Tokushima | 1 | 3 |
| Kagawa | 1 | 23 |
| Ehime | 1 | 10 |
| Kochi | 1 | 10 |
| Fukuoka | 3 | 64 |
| Saga | 1 | 1 |
| Nagasaki | 2 | 23 |
| Kumamoto | 1 | 23 |
| Oita | 1 | 11 |
| Miyazaki | 1 | 19 |
| Kagoshima | 1 | 5 |
| Okinawa | 1 | 34 |
| | | |

120

8,848

Total

^{*}The number of participants represents those who received examination at facilities outside Fukushima

Appendix 3Results of primary examination by municipality

As of 30 September 2019

| | | Confirmed | | Number by | exam results | | | | | |
|------------------|---------------|-----------------|--------|-----------|--------------|-----|---------|---------|----------|----------|
| | Participants | results | | Proport | ion (%) | | Nod | ules | Cy | /sts |
| | Participants | b Proportion | | A | (/0) | | Proport | ion (%) | Proport | tion (%) |
| | | (%) | | | В | С | | | | |
| | a | b/a (%) | A1 | A2 | | | ≥5.1 mm | ≤5.0 mm | ≥20.1 mm | ≤20.0 mm |
| Municipalities : | surveyed in F | Y 2018 | | | | | | | | |
| • | | 1,120 | 407 | 709 | 4 | 0 | 4 | 2 | 0 | 713 |
| Kawamata | 1,123 | 99.7 | 36.3 | 63.3 | 0.4 | 0.0 | 0.4 | 0.2 | 0.0 | 63.7 |
| | | 1,141 | 387 | 745 | 9 | 0.0 | 9 | 5 | 0.0 | 747 |
| Namie | 1,208 | 94.5 | 33.9 | 65.3 | 0.8 | 0.0 | 0.8 | 0.4 | 0.0 | 65.5 |
| | | 521 | | 324 | 4 | 0.0 | 4 | 2 | 0.0 | 327 |
| Iitate | 528 | | 193 | | | | | | | |
| | | 98.7 | 37.0 | 62.2 | 0.8 | 0.0 | 0.8 | 0.4 | 0.0 | 62.8 |
| Minami-soma | 5,677 | 5,484 | 1,939 | 3,512 | 33 | 0 | 33 | 27 | 0 | 3,523 |
| | | 96.6 | 35.4 | 64.0 | 0.6 | 0.0 | 0.6 | 0.5 | 0.0 | 64.2 |
| Date | 5,819 | 5,798 | 1,993 | 3,771 | 34 | 0 | 34 | 17 | 0 | 3,791 |
| | 2,025 | 99.6 | 34.4 | 65.0 | 0.6 | 0.0 | 0.6 | 0.3 | 0.0 | 65.4 |
| Tamura | 3,360 | 3,283 | 1,217 | 2,047 | 19 | 0 | 19 | 10 | 0 | 2,054 |
| 1 4111414 | 3,300 | 97.7 | 37.1 | 62.4 | 0.6 | 0.0 | 0.6 | 0.3 | 0.0 | 62.6 |
| Hirono | 294 | 276 | 90 | 181 | 5 | 0 | 5 | 1 | 0 | 183 |
| 11110110 | 294 | 93.9 | 32.6 | 65.6 | 1.8 | 0.0 | 1.8 | 0.4 | 0.0 | 66.3 |
| NI1 | 267 | 230 | 90 | 140 | 0 | 0 | 0 | 0 | 0 | 140 |
| Naraha | 267 | 86.1 | 39.1 | 60.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 60.9 |
| | (50 | 630 | 233 | 394 | 3 | 0 | 3 | 0 | 0 | 395 |
| Tomioka | 679 | 92.8 | 37.0 | 62.5 | 0.5 | 0.0 | 0.5 | 0.0 | 0.0 | 62.7 |
| | | 128 | 39 | 88 | 1 | 0 | 1 | 0 | 0 | 89 |
| Kawauchi | 132 | 97.0 | 30.5 | 68.8 | 0.8 | 0.0 | 0.8 | 0.0 | 0.0 | 69.5 |
| | | 562 | 193 | 367 | 2 | 0.0 | 2 | 2 | 0.0 | 369 |
| Okuma | 611 | 92.0 | 34.3 | 65.3 | 0.4 | 0.0 | 0.4 | 0.4 | 0.0 | 65.7 |
| | | 215 | 69 | 146 | 0.4 | 0.0 | 0.4 | 0.4 | 0.0 | 146 |
| Futaba | 236 | | | | | | - | | | |
| | | 91.1 | 32.1 | 67.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 67.9 |
| Katsurao | 97 | 94 | 30 | 63 | 1 | 0 | 1 | 0 | 0 | 63 |
| | | 96.9 | 31.9 | 67.0 | 1.1 | 0.0 | 1.1 | 0.0 | 0.0 | 67.0 |
| Fukushima | 28,332 | 28,205 | 9,710 | 18,343 | 152 | 0 | 151 | 86 | 1 | 18,418 |
| | , | 99.6 | 34.4 | 65.0 | 0.5 | 0.0 | 0.5 | 0.3 | 0.0 | 65.3 |
| Nihonmatsu | 5,389 | 5,364 | 1,871 | 3,444 | 49 | 0 | 48 | 20 | 1 | 3,471 |
| | | 99.5 | 34.9 | 64.2 | 0.9 | 0.0 | 0.9 | 0.4 | 0.0 | 64.7 |
| Motomiya | 3,153 | 3,131 | 1,101 | 2,018 | 12 | 0 | 12 | 8 | 0 | 2,019 |
| - Indianinyu | 3,133 | 99.3 | 35.2 | 64.5 | 0.4 | 0.0 | 0.4 | 0.3 | 0.0 | 64.5 |
| Otama | 908 | 906 | 301 | 599 | 6 | 0 | 6 | 2 | 0 | 602 |
| Otalila | 308 | 99.8 | 33.2 | 66.1 | 0.7 | 0.0 | 0.7 | 0.2 | 0.0 | 66.4 |
| V ~ | 22 416 | 31,829 | 10,491 | 21,150 | 188 | 0 | 187 | 104 | 1 | 21,248 |
| Koriyama | 32,416 | 98.2 | 33.0 | 66.4 | 0.6 | 0.0 | 0.6 | 0.3 | 0.0 | 66.8 |
| 77 . | 1 110 | 1,105 | 392 | 706 | 7 | 0 | 7 | 2 | 0 | 709 |
| Kori | 1,112 | 99.4 | 35.5 | 63.9 | 0.6 | 0.0 | 0.6 | 0.2 | 0.0 | 64.2 |
| | | 789 | 254 | 526 | 9 | 0 | 9 | 1 | 0 | 533 |
| Kunimi | 794 | 99.4 | 32.2 | 66.7 | 1.1 | 0.0 | 1.1 | 0.1 | 0.0 | 67.6 |
| | | 461 | 174 | 285 | 2 | 0.0 | 2 | 2 | 0.0 | 287 |
| Tenei | 506 | 91.1 | 37.7 | 61.8 | 0.4 | 0.0 | 0.4 | 0.4 | 0.0 | 62.3 |
| | | 6,298 | | 4,074 | 38 | 0.0 | | 23 | 0.0 | 4,093 |
| Shirakawa | 6,373 | 98.8 | 2,186 | | | | 38 | | | |
| | | | 34.7 | 64.7 | 0.6 | 0.0 | 0.6 | 0.4 | 0.0 | 65.0 |
| Nishigo | 2,163 | 2,136 | 718 | 1,407 | 11 | 0 | 11 | 9 | 0 | 1,412 |
| | | 98.8 | 33.6 | 65.9 | 0.5 | 0.0 | 0.5 | 0.4 | 0.0 | 66.1 |
| Izumizaki | 657 | 634 | 236 | 396 | 2 | 0 | 2 | 2 | 0 | 398 |
| | 007 | 96.5 | 37.2 | 62.5 | 0.3 | 0.0 | 0.3 | 0.3 | 0.0 | 62.8 |
| Miharu | 1,481 | 1,463 | 494 | 959 | 10 | 0 | 10 | 5 | 0 | 965 |
| iviiiiai u | 1,401 | 98.8 | 33.8 | 65.6 | 0.7 | 0.0 | 0.7 | 0.3 | 0.0 | 66.0 |
| Subtotal | 102 215 | 101,803 | 34,808 | 66,394 | 601 | 0 | 598 | 330 | 3 | 66,695 |
| Subtotal | 103,315 | 98.5 | 34.2 | 65.2 | 0.6 | 0.0 | 0.6 | 0.3 | 0.0 | 65.5 |

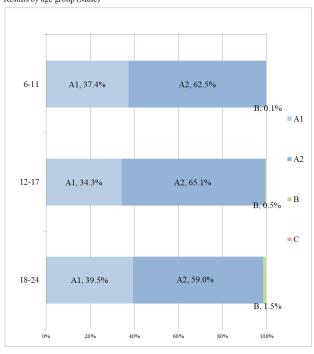
| | 1 | | | | | | As of 30 September 2019 | | | |
|--------------------|-------------------|----------------------------------|----------------|----------------|------------|-----|-------------------------|------------|----------|----------------|
| | Participants a | Confirmed Number by exam results | | | | | Nodules | | Cysts | |
| | | b | D 4 | | | (%) | | tion (%) | Propor | tion (%) |
| | | Proportion (%) b/a (%) | A1 | A2 | В | C | ≥5.1 mm | ≤5.0 mm | ≥20.1 mm | ≤20.0 mm |
| Municipalities sur | _ | | | | | 1 | I | | ı | |
| Iwaki | 5,330 | 2,974 | 1,068 | 1,864 | 42 | 0 | 42 | 22 | 0 | 1,882 |
| Sukagawa | 5,900 | 55.8 1,975 | 35.9 657 | 62.7 1,291 | 1.4 27 | 0.0 | 1.4 27 | 0.7 | 0.0 | 63.3 1,306 |
| Sukagawa | 3,900 | 33.5 1,961 | 33.3 660 | 65.4 1,274 | 1.4 | 0.0 | 1.4 | 0.9 | 0.0 | 66.1 1,292 |
| Soma | 3,092 | 63.4 | 33.7 | 65.0 | 1.4 | 0.0 | 1.4 | 0.5 | 0.0 | 65.9 |
| Kagamiishi | 963 | 316 32.8 | 105 33.2 | 204 64.6 | 2.2 | 0.0 | 2.2 | 0.6 | 0.0 | 208 65.8 |
| Shinchi | 651 | 329 50.5 | 105 31.9 | 222 | 2 | 0 | 2 | 2 | 0 | 224 |
| Nakajima | 493 | 480 | 165 | 67.5 312 | 0.6 | 0.0 | 0.6 | 0.6 | 0.0 | 68.1 315 |
| | | 97.4 1,524 | 34.4 556 | 65.0 961 | 0.6 | 0.0 | 0.6 | 0.0 | 0.0 | 65.6 965 |
| Yabuki | 1,663 | 91.6 | 36.5 | 63.1 | 0.5 | 0.0 | 0.5 | 0.4 | 0.0 | 63.3 |
| Ishikawa | 1,313 | 1,283 97.7 | 33.3 | 844 65.8 | 0.9 | 0.0 | 0.9 | 0.3 | 0.0 | 851 66.3 |
| Yamatsuri | 459 | 457 99.6 | 145 31.7 | 312 68.3 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 312 68.3 |
| Asakawa | 634 | 622 | 200 | 415 | 7 | 0 | 7 | 3 | 0 | 416 |
| | | 98.1 534 | 32.2 208 | 66.7 325 | 1.1 | 0.0 | 1.1 | 0.5 | 0.0 | 66.9 326 |
| Hirata | 580 | 92.1 | 39.0 | 60.9 | 0.2 | 0.0 | 0.2 | 0.2 | 0.0 | 61.0 |
| Tanagura | 1,431 | 1,416 99.0 | 518 36.6 | 888 62.7 | 0.7 | 0.0 | 0.7 | 0.5 | 0.0 | 896 63.3 |
| Hanawa | 689 | 680 98.7 | 258 37.9 | 419 61.6 | 0.4 | 0.0 | 0.4 | 0.3 | 0.0 | 419 61.6 |
| Samegawa | 296 | 293 | 123 | 167 | 3 | 0 | 3 | 0 | 0 | 168 |
| | | 99.0 758 | 42.0 236 | 57.0 516 | 1.0 | 0.0 | 1.0 | 0.0 | 0.0 | 57.3 521 |
| Ono | 828 | 91.5 | 31.1 | 68.1 | 0.8 | 0.0 | 0.8 | 0.1 | 0.0 | 68.7 |
| Tamakawa | 643 | 567 88.2 | 217 38.3 | 343 60.5 | 7 1.2 | 0.0 | 7 1.2 | 0.2 | 0.0 | 346 61.0 |
| Furudono | 488 | 97.3 | 185 38.9 | 289 60.8 | 0.2 | 0.0 | 0.2 | 0.4 | 0.0 | 288 60.6 |
| Hinoemata | 29 | 28 | 10 | 18 | 0 | 0 | 0 | 0 | 0 | 18 |
| | | 96.6 921 | 35.7 341 | 64.3 573 | 0.0 7 | 0.0 | 0.0 | 0.0 | 0.0 | 64.3 577 |
| Minami-aizu | 1,000 | 92.1 49 | 37.0 11 | 62.2 38 | 0.8 | 0.0 | 0.8 | 0.2 | 0.0 | 62.6 38 |
| Kaneyama | 62 | 79.0 | 22.4 | 77.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 77.6 |
| Showa | 59 | 79.7 | 23.4 | 76.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 76.6 |
| Mishima | 67 | 56 | 14 | 42 | 0 | 0 | 0 | 0 | 0 | 42 |
| Shimogo | 340 | 83.6 304 | 25.0 119 | 75.0 183 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 75.0 184 |
| | | 89.4 247 | 39.1 89 | 60.2 153 | 0.7 5 | 0.0 | 0.7 | 0.0 | 0.0 | 60.5 154 |
| Kitakata | 296 | 83.4 | 36.0 | 61.9 | 2.0 | 0.0 | 2.0 | 0.8 | 0.0 | 62.3 |
| Nishiaizu | 274 | 269 98.2 | 99 36.8 | 170 63.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 170 63.2 |
| Tadami | 318 | 311 | 108 | 202 | 1 | 0.0 | 1 | 0 | 0 | 203 |
| Inawashiro | 963 | 97.8 876 | 34.7 312 | 65.0 554 | 0.3 | 0 | 0.3 | 0.0 | 0.0 | 65.3 563 |
| | | 91.0 175 | 35.6 45 | 63.2 128 | 1.1 | 0.0 | 1.1 | 0.2 | 0.0 | 64.3 129 |
| Bandai | 191 | 91.6 | 25.7 | 73.1 | 1.1 | 0.0 | 1.1 | 0.6 | 0.0 | 73.7 |
| Kitashiobara | 182 | 176 96.7 | 61 34.7 | 113 64.2 | 1.1 | 0.0 | 1.1 | 0.0 | 0.0 | 115 65.3 |
| Aizumisato | 1,290 | 1,132 87.8 | 356 31.4 | 769 67.9 | 7 0.6 | 0.0 | 7 0.6 | 0.5 | 0.0 | 770 68.0 |
| Aizubange | 1,028 | 928 | 288 | 633 | 7 | 0 | 7 | 2 | 0 | 639 |
| | | 90.3 205 | 31.0 69 | 68.2 136 | 0.8 | 0.0 | 0.8 | 0.2 | 0.0 | 68.9 136 |
| Yanaizu | 227 | 90.3 | 33.7 | 66.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 66.3 |
| Aizuwakamatsu | 1,606 | 1,080 67.2 | 385 35.6 | 676 62.6 | 19 1.8 | 0.0 | 19 1.8 | 0.8 | 0.0 | 684 63.3 |
| Yugawa | 242 | 240 | 105 | 134 | 1 | 0 | 1 | 1 | 0 | 135 |
| Subtotal | 33,627 | 99.2 23,688 | 43.8 8,256 | 55.8 15,204 | 0.4 228 | 0.0 | 0.4 228 | 0.4 106 | 0.0 | 56.3 15,328 |
| Subtotal | 33,02/ | 70.4 | 34.9 | 64.2 | 1.0 | 0.0 | 1.0 | 0.4 | 0.0 | 64.7 |
| Total | 136,942 | 125,491 91.6 | 43,064 34.3 | 81,598 65.0 | 829 0.7 | 0.0 | 826 0.7 | 436 0.3 | 0.0 | 82,023 65.4 |

1 Thyroid ultrasound examination results by age and sex

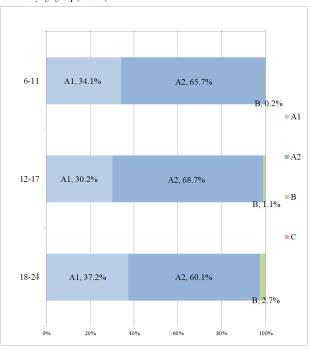
As of 30 September 2019

| Class/ Sex | | | A | ١ | | | | В | | | С | | Total | | |
|---------------|--------|--------|--------|--------|--------|--------|------|--------|-------|------|--------|-------|--------|--------|---------|
| Sex | | A1 | | | A2 | | | ь | | | | | | 10111 | |
| Ages | Male | Female | Total | Male | Female | Total | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| 6-11 | 9,886 | 8,606 | 18,492 | 16,508 | 16,594 | 33,102 | 32 | 40 | 72 | 0 | 0 | 0 | 26,426 | 25,240 | 51,666 |
| 12-17 | 10,785 | 9,097 | 19,882 | 20,456 | 20,742 | 41,198 | 162 | 333 | 495 | 0 | 0 | 0 | 31,403 | 30,172 | 61,575 |
| 18-24 | 2,257 | 2,433 | 4,690 | 3,372 | 3,926 | 7,298 | 87 | 175 | 262 | 0 | 0 | 0 | 5,716 | 6,534 | 12,250 |
| Total | 22,928 | 20,136 | 43,064 | 40,336 | 41,262 | 81,598 | 281 | 548 | 829 | 0 | 0 | 0 | 63,545 | 61,946 | 125,491 |

Results by age group (Male)



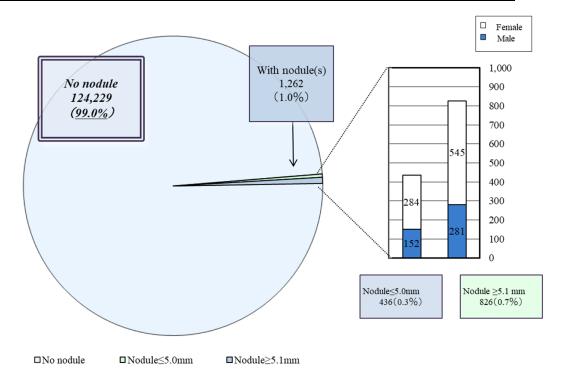
Results by age group (Female)

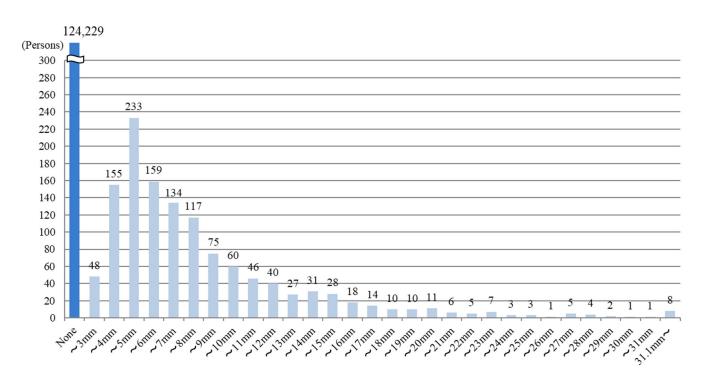


2 Nodule characteristics

As of 30 September 2019

| | | | | • | |
|--------------|---------|--------|--------|-------|-------------|
| Nodule size | Total | Male | Female | Class | Proportion |
| None | 124,229 | 63,112 | 61,117 | A1 | 99.0% |
| ≤ 3.0 mm | 48 | 22 | 26 | A2 | 0.3% |
| 3.1-5.0 mm | 388 | 130 | 258 | AZ | 0.5701 I |
| 5.1-10.0 mm | 545 | 187 | 358 | | |
| 10.1-15.0 mm | 172 | 67 | 105 | | |
| 15.1-20.0 mm | 63 | 18 | 45 | В | 0.7% |
| 20.1-25.0 mm | 24 | 6 | 18 | | į į |
| ≥ 25.1 mm | 22 | 3 | 19 | | <u> </u> |
| Total | 125,491 | 63,545 | 61,946 | | |

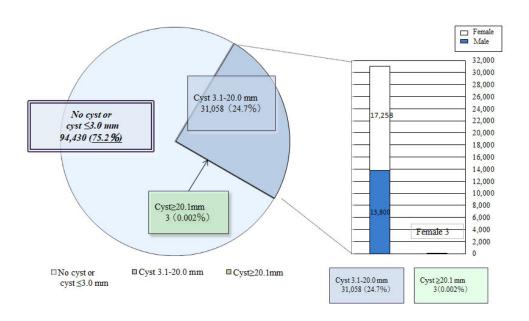


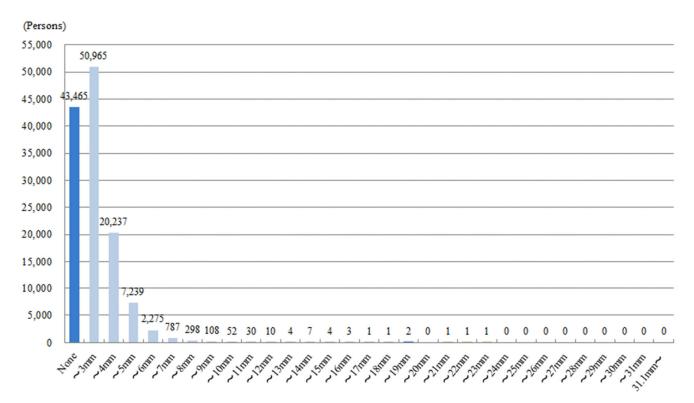


3 Cyst characteristics

As of 30 September 2019

| Cyst size | Total | | | Class | Duamantian |
|--------------|---------|--------|--------|-------|------------|
| Cyst size | 101a1 | Male | Female | Class | Proportion |
| None | 43,465 | 23,077 | 20,388 | A1 | 75.2% |
| ≤ 3.0 mm | 50,965 | 26,668 | 24,297 | | 73.276 |
| 3.1-5.0 mm | 27,476 | 12,491 | 14,985 | | |
| 5.1-10.0 mm | 3,520 | 1,289 | 2,231 | A2 | 24.7% |
| 10.1-15.0 mm | 55 | 19 | 36 | | 24.//0 |
| 15.1-20.0 mm | 7 | 1 | 6 | | |
| 20.1-25.0 mm | 3 | 0 | 3 | D | 0.0029/ |
| ≥ 25.1 mm | 0 | 0 | 0 | В | 0.002% |
| Total | 125,491 | 63,545 | 61,946 | | |





Results of confirmatory examination coverage by area

| Results of confir | matory exam | ınatıon cover | age by area | | | |
|----------------------|--------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | who required | Number of the | hose who under | went confirma | tory exam |
| Area | Participants | confirmatory exam | Total | Ages 6-11 | Ages 12-17 | ≥ 18 |
| | a | b | c | d | e | f |
| | | Proportion (%) b/a | Proportion (%) c/b | Proportion (%) d/c | Proportion (%) e/c | Proportion (%) f/c |
| D | 20,031 | 115 | 84 | 7 | 58 | 19 |
| 13 municipalities 1) | 20,031 | 0.6 | 73.0 | 8.3 | 69.0 | 22.6 |
| Nakadori 2) | 99,664 | 580 | 350 | 36 | 211 | 103 |
| INAKAGOII | 77,004 | 0.6 | 60.3 | 10.3 | 60.3 | 29.4 |
| Hamadori 3) | 9.073 | 71 | 25 | 1 | 3 | 21 |
| Hamadon | 9,073 | 0.8 | 35.2 | 4.0 | 12.0 | 84.0 |
| Aizu 4) | 8.174 | 63 | 25 | 5 | 12 | 8 |
| Aizu | 0,174 | 0.8 | 39.7 | 20.0 | 48.0 | 32.0 |
| | | | | | | |
| Total | 136,942 | 829 | 484 | 49 | 284 | 151 |
| Total | 130,742 | 0.6 | 58.4 | 10.1 | 58.7 | 31.2 |

| | Number of | of confirmed | results | |
|----------------|----------------|----------------|----------------|----------------|
| | | | Not Al | l or A2 |
| Total | A1 | A2 | | FNAC |
| h | i | j | k | 1 |
| Proportion (%) |
| h/c | i/h | j/h | k/h | l/k |
| 82 | 1 | 1 | 80 | 5 |
| 97.6 | 1.2 | 1.2 | 97.6 | 6.3 |
| 307 | 1 | 34 | 272 | 24 |
| 87.7 | 0.3 | 11.1 | 88.6 | 8.8 |
| 17 | 0 | 0 | 17 | 0 |
| 68.0 | 0.0 | 0.0 | 100.0 | 0.0 |

As of 30 September 2019

| 48.0 | 0.0 | 8.3 | 91.7 | 0.0 |
|------|-----|-----|------|-----|
| | | | | |
| 418 | 2 | 36 | 380 | 29 |
| 86.4 | 0.5 | 8.6 | 90.9 | 7.6 |

- 1) Tamura, Minami-soma, Date, Kawamata, Hirono, Naraha, Tomioka, Kawauchi, Okuma, Futaba, Namie, Katsurao, Iitate
- 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
- 3) Iwaki, Soma, Shinchi
- 4) Aizuwakamatsu, Kitakata, Shimogo, Hinoemata, Tadami, Minami-aizu, Kitashiobara, Nishiaizu, Bandai, Inawashiro, Aizubange, Yugawa, Yanaizu, Mishima, Kaneyama, Showa, Aizumisato

Appendix 6

Surgical cases for malignancy or suspicion of malignancy

1. Municipalities surveyed in FY 2018

Malignant or suspicious for malignancy: 15 (8 surgical cases: 8 papillary thyroid carcinomas)

2. Municipalities surveyed in FY 2019

Malignant or suspicious for malignancy: 1 (0 surgical case: 0 papillary thyroid carcinomas)

3. Total

Malignant or suspicious for malignancy: 16 (8 surgical cases: 8 papillary thyroid carcinomas)

Report on the Thyroid Survey for Age 25

1. Summary

1.1 Survey Population

Among Fukushima residents 18 years old or younger at the time of disaster (born between 2 April 1992 and 1 April 2012), those who turn 25 years old in each fiscal year, including those who moved of the prefecture, are invited to receive a thyroid ultrasound examination (TUE).

This report includes the status of the following groups:

- Those who were born between 2 April 1992 and 1 April 1993
- Those who were born between 2 April 1993 and 1 April 1994

1.2 Implementation Period

The Thyroid Survey for Age 25 (hereinafter "Age 25 Survey") started in FY2017. If participants fail to receive TUE in the year they turn 25, they are entitled for TUE until the fiscal year prior to the year they turn 30 (see Fig. 1 for the implementation schedule of Age 25 Survey).

Eligible residents are invited to take examination every 5 years and can take one by the year before their next examination.

| Year of examination | FY2017 | FY2018 | FY2019 | FY2020 | FY2021 | FY2022 | FY2023 | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--|
| Birth Year of examinee | Age | |
| FY1992 | 25★ | 26 | 27 | 28 | 29 | 30★ | 31 | |
| FY1993 | 24 | 25★ | 26 | 27 | 28 | 29 | 30★ | |
| FY1994 | 23 | 24 | 25★ | 26 | 27 | 28 | 29 | |
| FY1995 | 22 | 23 | 24 | 25★ | 26 | 27 | 28 | |
| | | | | | | | | |

- Beginning from FY2017, examinations are offered to Fukushima residents and ex-residents who turn age 25 in each fiscal year.
- Notifications for the examination will be sent to 25-year-old residents in the fiscal year marked with *.

Fig. 1 Implementation schedule for Age 25 Survey

2. Summarized Results of Age 25 Survey (as of 30 September 2019)

2.1 Results of the Primary Examination

2.1-1 Progress report

The primary examination for Age 25 Survey started in May 2017 for those who turned 25 years old in FY2017 (those born in FY1992 and FY1993) and 4,277 (9.6%) people participated.

Results of 4,239 (99.1%) participants have been confirmed and results reports were sent to them accordingly. Of these, 1,839 were classified as A1 (43.4%), 2,202 as A2(51.9%), 198 (4.7%) as B, and none as C.

Table 1. Progress and results of the primary examination

As of 30 September 2019

| | Survey | Participa | nts | Exam results | | | | | | | |
|----------------|------------|----------------|-------------|----------------|--------------|--------------|----------------|---------------|--|--|--|
| | population | Proportion (%) | Outside | Proportion (%) | | Class | | | | | |
| | | | Fukushima | | | A | Requiring conf | irmatory exam | | | |
| | a | b (b/a) | rukusiiiiia | c (c/b) | A1 d (d/c) | A2 e (e/c) | B f (f/c) | C g (g/c) | | | |
| Born in FY1992 | 22,653 | 2,234 (9.9) | 709 | 2,230 (99.8) | 929 (41.7) | 1,203 (53.9) | 98 (4.4) | 0 (0.0) | | | |
| Born in FY1993 | 21,889 | 2,043 (9.3) | 721 | 2,009 (98.3) | 910 (45.3) | 999 (49.7) | 100 (5.0) | 0 (0.0) | | | |
| Total | 44,542 | 4,277 (9.6) | 1,430 | 4,239 (99.1) | 1,839 (43.4) | 2,202 (51.9) | 198 (4.7) | 0 (0.0) | | | |

Table 2. Number and proportion of participants with nodules/cysts

As of 30 September 2019

| | Number of | Number and | proportion of particip | oants with nodules/cy | sts |
|----------------|------------------------|--------------------|------------------------|-----------------------|---------------------|
| | participants with | Noc | lules | Cy | rsts |
| | confirmed results a | ≥5.1 mm b (b/a) | ≤5.0 mm c (c/a) | ≥20.1 mm d (d/a) | ≤20.0 mm e (e/a) |
| Born in FY1992 | 2,230 | 97 (4.3) | 46 (2.1) | 1 (0.0) | 1,248 (56.0) |
| Born in FY1993 | 2,009 | 100 (5.0) | 35 (1.7) | 0 (0.0) | 1,043 (51.9) |
| Total | 4,239 | 197 (4.6) | 81 (1.9) | 1 (0.0) | 2,291 (54.0) |

[•] Proportions are rounded to the tenths digit. This will apply to other tables.

2.1-2 Comparison with the previous examination results

The comparison of the results of Age 25 Survey and the previous surveys is shown in Table 3.

Among 2,788 participants who were diagnosed as A (A1 or A2) in the previous survey, 2,724 (97.7%) were diagnosed as A (A1 or A2), and 64 (2.3%) as B in Age 25 Survey.

Among 102 participants who were diagnosed as B in the previous survey, 33 (32.4%) were diagnosed as A (A1 or A2), and 69 (67.6%) as B in Age 25 Survey.

[•] The number of survey population and number of actual participants will be presented by fiscal year in this and future reports.

Table 3 Comparison with the previous survey results

| | | | Results of the previous | | Results of the A | ge 25 Survey *2 | |
|--------------------------------|--------------------|---------------|-------------------------|--------------------|--------------------|-------------------|-------------------|
| | | | survey *1 | | A | | |
| | A A2 softhe ious B | | a | A1 b b/a (%) | A2 c c/a (%) | B d d/a (%) | C e e/a (%) |
| | | A1 | 1,385 (100.0) | 1,127 (81.4) | 245 (17.7) | 13 (0.9) | 0 (0.0) |
| | A | A2 | 1,994 (100.0) | 317 (15.9) | 1,610 (80.7) | 67 (3.4) | 0 (0.0) |
| Results of the previous survey | | В | 115 (100.0) | 4 (3.5) | 31 (27.0) | 80 (69.6) | 0 (0.0) |
| survey | | С | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| | No | participation | 1,740 (100.0) | 780 (44.8) | 876 (50.3) | 84 (4.8) | 0 (0.0) |
| - | Γotal | | 5,234 (100.0) | 2,228 (42.6) | 2,762 (52.8) | 244 (4.7) | 0 (0.0) |

^{*1} Upper figures show a previous diagnosis for the participants in this (the Age 25) survey whose results have been confirmed.

2.2 Results of the Confirmatory Examination

2.2-1 Progress report

Out of 198 eligible people, 145 (73.2%) participated, of whom 127 (87.6%) completed the whole procedure of the examination.

Of the foregoing 127 participants, 7 (A2 equivalent: 7) (5.5%) were confirmed to meet A1 or A2 diagnostic criteria by the Primary Examination standards (including those with thyroid diseases). The remaining 120 (94.5%) participants were confirmed to be non-equivalent to A1 or A2.

Table 4. Progress and results of the confirmatory examination

As of 30 September 2019

| | Number of those requiring | Participants | | Confirm | ned exam results | | |
|-------------------|---------------------------|----------------|--------------------------------|----------|------------------|--------------|-----------------|
| | confirmatory exam | Proportion (%) | Confirmatory exam coverage (%) | A1 | A2 | Not A1 or A2 | |
| | a | b (b/a) | c (c/b) | d (d/c) | e (e/c) | f (f/c) | FNAC g (g/f) |
| Born in FY1992 | 98 | 81 (82.7) | 78 (96.3) | 0 (0.0) | 3 (3.8) | 75 (96.2) | 8 (10.7) |
| Born in FY1993 | 102 | 84 (82.4) | 80 (95.2) | 0 (0.0) | 7 (8.8) | 73 (91.3) | 5 (6.8) |
| Born in FY1994 | 44 | 3 (6.8) | 2 (66.7) | 1 (50.0) | 0 (0.0) | 1 (50.0) | 0 (0.0) |
| Total | 244 | 168 (68.9) | 160 (95.2) | 1 (0.6) | 10 (6.3) | 149 (93.1) | 13 (8.7) |

^{*2} Upper figures show the breakdown of the Age 25 Survey participants who were diagnosed for each diagnostic class in the previous Survey. Lower figures are their proportion (%).

2.2-2 Results of fine needle aspiration cytology (FNAC)

Among those who underwent FNAC, 4 were diagnosed as having malignant or suspicious-for-malignancy nodules: 2 males and 2 females. Participants' age at the time of the confirmatory examination ranged from 24 to 25 years (mean age: 24.8 ± 0.5 years). The minimum and maximum tumor diameters were 12.3 mm and 18.0 mm. Mean tumor diameter was 14.5 ± 2.7 mm.

In the previous survey, 1 of these 4 participants had A2 and 3 had not participated.

Table 5. Results of FNAC

Among those who underwent Age 25 Survey:

Malignant or suspicious for malignancy: 4*)
Male to female ratio: 2:2

• Mean age (SD, min-max): 24.8 (0.5, 24-27), 17.0 (0.8, 16-18) at the time of disaster

• Mean tumor size: 14.5 mm (2.7 mm, 12.3-18.0 mm)

3 Mental Health Care

3.1 Support for Primary Examination Participants

Since April 2017, we offer person-to-person explanations to participants at public venues where primary examinations take place. After the examination, medical doctors explain the results, showing the ultrasound image in private consultation booths at the venue. As of 30 September 2019, 362 (99.7%) of 363 participants visited the consultation booths.

3.2 Support for Confirmatory Examination Participants

For participants of the confirmatory examination, a support team was set up within Fukushima Medical University to address their anxiety and concerns, as well as online support for Q&A and counseling.

Since the start of Age 25 Survey, 54 participants have received support as of 30 September 2019, including 14 males and 40 females. Support was provided to 110 in total. Of these, 54 (49.1%) received support at their first examination and 56 (50.9%) at subsequent examinations.

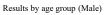
For those who have proceeded to the health insurance medical care, we continue to provide support in cooperation with the teams of medical staff at hospitals.

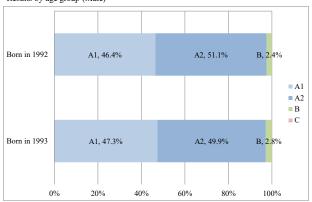
^{*)} Surgical cases are as shown in Appendix 2.

1 Thyroid ultrasound examination results by sex

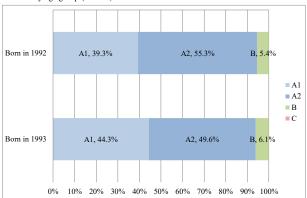
As of 30 September 2019

| Class/ | Sex | | | | | | В | | | C | | | Total | | |
|-------------------|------|--------|-------|------|--------|-------|------|--------|-------|------|--------|-------|-------|--------|-------|
| Sex | | A1 | | | A2 | | | | | | | | | 10111 | |
| Survey Population | Male | Female | Total | Male | Female | Total |
| Born in FY1992 | 345 | 584 | 929 | 380 | 823 | 1,203 | 18 | 80 | 98 | 0 | 0 | 0 | 743 | 1,487 | 2,230 |
| Born in FY1993 | 322 | 588 | 910 | 340 | 659 | 999 | 19 | 81 | 100 | 0 | 0 | 0 | 681 | 1,328 | 2,009 |
| Total | 667 | 1,172 | 1,839 | 720 | 1,482 | 2,202 | 37 | 161 | 198 | 0 | 0 | 0 | 1,424 | 2,815 | 4,239 |





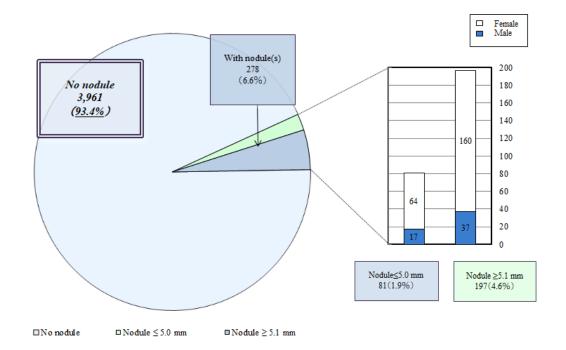
Results by age group (Female)

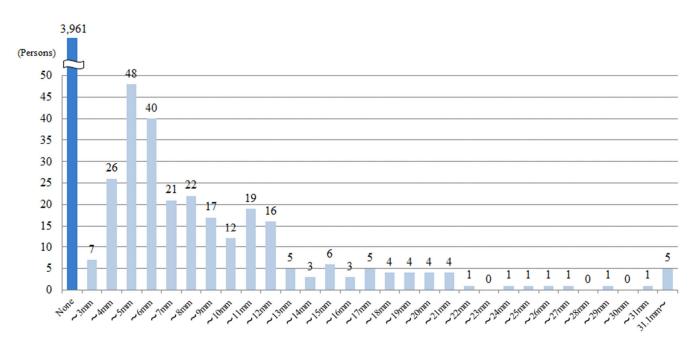


2 Nodule characteristics

As of 30 September 2019

| Nodule size | Total | | | Class | Proportion |
|-------------|-------|-------|--------|-------|------------|
| | | Male | Female | Class | Tioportion |
| None | 3,961 | 1,370 | 2,591 | A1 | 93.4% |
| ~3.0mm | 7 | 0 | 7 | A2 | 1.9% |
| 3.1~5.0mm | 74 | 17 | 57 | | |
| 5.1~10.0mm | 112 | 22 | 90 | | 4.6% |
| 10.1~15.0mm | 49 | 10 | 39 | | |
| 15.1~20.0mm | 20 | 2 | 18 | | |
| 20.1~25.0mm | 7 | 2 | 5 | | |
| 25.1mm∼ | 9 | 1 | 8 | | |
| Total | 4,239 | 1,424 | 2,815 | | |

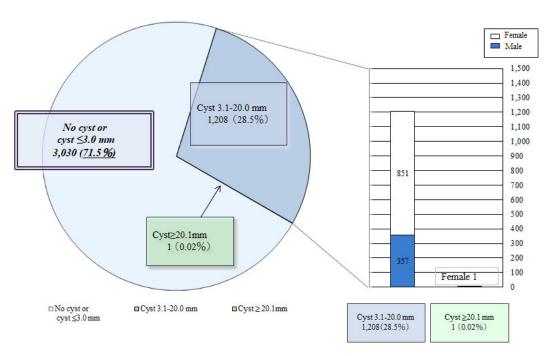


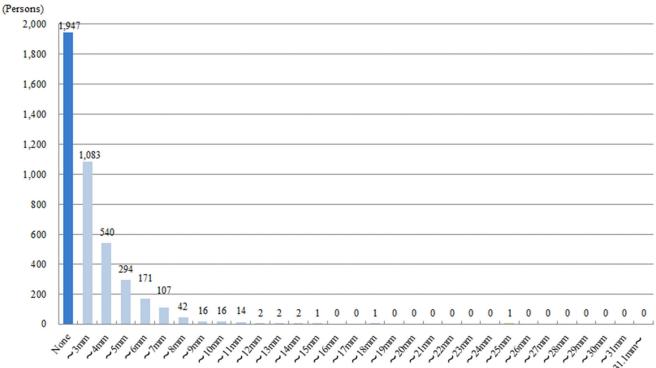


3 Cyst characteristics

As of 30 September 2019

| Cyst size | Total | | | Class | Dranartian |
|-------------|-------|-------|--------|-------|------------|
| | | Male | Female | CIASS | Proportion |
| None | 1,947 | 694 | 1,253 | A1 | 71 504 |
| ~3.0mm | 1,083 | 373 | 710 | A2 | /1.370 |
| 3.1∼5.0mm | 834 | 259 | 575 | | 28.5% |
| 5.1~10.0mm | 352 | 93 | 259 | | |
| 10.1~15.0mm | 21 | 4 | 17 | | |
| 15.1~20.0mm | 1 | 1 | 0 | | |
| 20.1~25.0mm | 1 | 0 | 1 | п | 0.020/ |
| 25.1mm∼ | 0 | 0 | 0 | ь | 0.02% |
| Total | 4,239 | 1,424 | 2,815 | | |





Surgical cases for malignancy or suspicion of malignancy

Among those who underwent Thyroid Survey for Age 25:

• Malignant or suspicious for malignancy:4 (1 surgical cases: 1 papillary thyroid carcinomas)