

List of Materials for the 58th Oversight Committee for the Fukushima Health Management Survey

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FY2011-FY2025
Implementation Status of the Comprehensive Health Check
Fukushima Health Management Survey (FHMS)

1. Overview of the Comprehensive Health Check

1-1 Purpose

The Great East Japan Earthquake and the accident at TEPCO's Fukushima Daiichi Nuclear Power Plant led to a large-scale evacuation of residents. Many evacuees have since been concerned about their own health, due primarily to drastic changes in their lifestyle, such as diet and exercise habits, in addition to the loss of opportunity to undergo necessary health checks. In response to this situation, the Comprehensive Health Check (CHC) has been conducted to ascertain people's health status and use such data for the prevention of lifestyle diseases and early detection and treatment of diseases in general.

1-2 Coverage

- Residents registered in the covered area* from March 11, 2011, to April 1, 2012 (including those who moved out of the area)
- Registered residents in the covered area* as of April 1 of the examination year
- Others, as warranted, based on Basic Survey results, even if the above conditions are not met

* Covered area: municipalities designated as evacuation zones in 2011

Hirono Town, Naraha Town, Tomioka Town, Kawauchi Village, Okuma Town, Futaba Town, Namie Town, Katsurao Village, Iitate Village, Minamisoma City, Tamura City, Kawamata Town, and a part of Date City (specifically recommended for evacuation)

1-3 Health check items

Health check items differ according to age groups as follows.

| Age group | Health check items |
|---|---|
| 0-6 years old (preschool children and infants) | Height, weight [Following items are optional - applicants only] CBC (red blood cell count, hematocrit, hemoglobin, platelet count, white blood cell count and differential) |
| 7-15 years old (from 1st to 9th grade) | Height, weight, blood pressure, CBC (red blood cell count, hematocrit, hemoglobin, platelet count, white blood cell count and differential) [Following items are optional - applicants only] Blood biochemistry (AST, ALT, γ -GT, TG, HDL-C, LDL-C, HbA1c, plasma glucose, serum creatinine, uric acid) |
| 16 years old and older | Height, weight, abdominal circumference (BMI), blood pressure, <u>CBC (red blood cell count, hematocrit, hemoglobin, platelet count, white blood cell count and differential)</u> , urinalysis (urine sugar, urine protein, <u>urine occult blood</u>), blood biochemistry (AST, ALT, γ -GT, TG, HDL-C, LDL-C, HbA1c, plasma glucose, <u>serum creatinine, estimated glomerular filtration rate [eGFR], uric acid</u>) *The underlined values are not routinely measured during specific health checks. |

2. Implementation Status for FY2011 to FY2024

2-1 Methods

Health check venues are arranged as follows for the convenience of eligible persons.

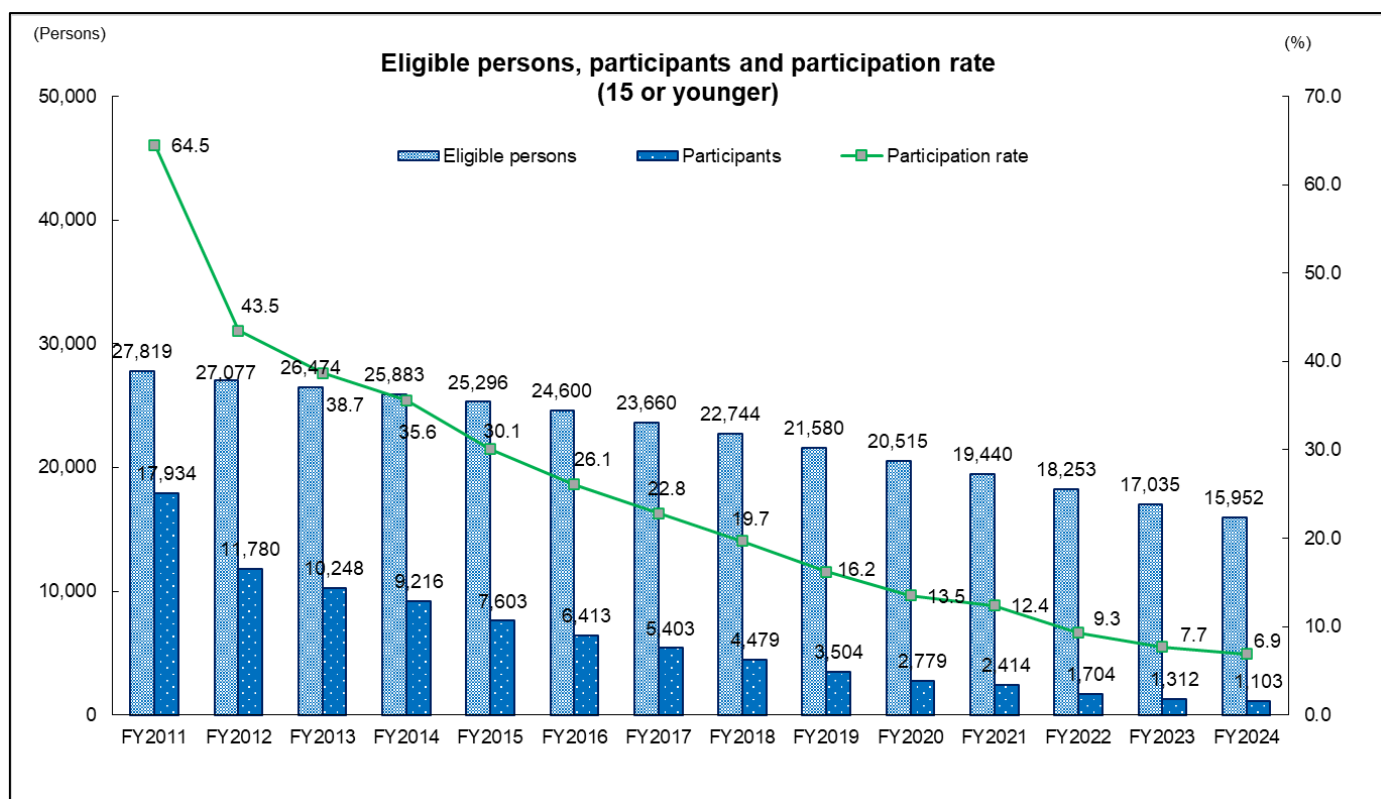
| Age group | Place of residence | Implementation method | Number of cooperating medical facilities in FY2024 | Tabulation category |
|----------------|--------------------------------------|---|--|---|
| 15 and younger | Those living in Fukushima prefecture | Pediatric health checks at designated health check facilities in the prefecture | 78 | Pediatric health check in the prefecture |
| | Those living outside the prefecture | Pediatric health checks at designated health check facilities outside of the prefecture | 229 (of which 134 facilities also accept those aged 16 or older) | Pediatric health check outside of the prefecture |
| 16 and older | Those living in Fukushima prefecture | Additional health check items are added to specific health checks or general health checks conducted by municipalities. | — | Municipal general health check in the prefecture |
| | | Individual health checks conducted at designated health check facilities in the prefecture ^(*) | 385 | Individual health check in the prefecture |
| | | Group health checks conducted by FMU ^(*) | 29 venues in the prefecture (conducted 52 times) | Group health check in the prefecture |
| | Those living outside the prefecture | Additional health check items are added to specific health checks or general health checks conducted by municipalities. | — | Other *1 |
| | | Individual health checks conducted at designated health check facilities outside of the prefecture | 376 (of which 134 facilities also accept those aged 15 or younger) | Individual health check outside of the prefecture |

2-2 Participation status

A. Number of participants by method and by venue (in or outside the prefecture)

(a) Participants aged 15 or younger

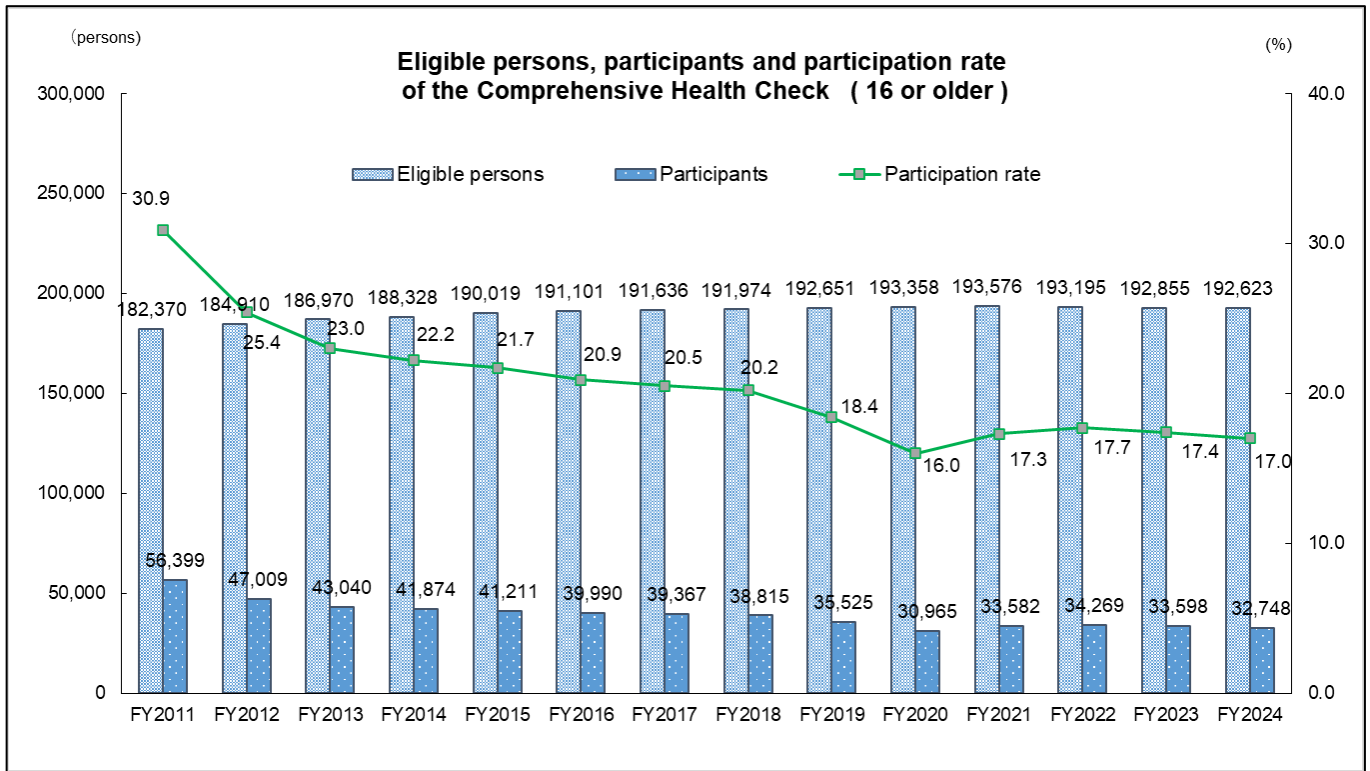
The participation rate for FY2024 was 6.9%, down by 0.8 points compared to 7.7% in FY2023.



| | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 | FY2019 | FY2020 | FY2021 | FY2022 | FY2023 | FY2024 |
|--|------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| | Confirmed data as of Sep. 11, 2012 | Confirmed data as of July 5, 2013 | Confirmed data as of Sep. 1, 2014 | Confirmed data as of Sep. 1, 2015 | Confirmed data as of Sep. 1, 2016 | Confirmed data as of Dec. 31, 2017 | Confirmed data as of Mar. 31, 2018 | Confirmed data as of Mar. 31, 2019 | Confirmed data as of Mar. 31, 2020 | Confirmed data as of Mar. 31, 2021 | Confirmed data as of Mar. 31, 2022 | Confirmed data as of Mar. 31, 2023 | Confirmed data as of Mar. 31, 2024 | Confirmed data as of Mar. 31, 2025 |
| Eligible persons | 27,819 | 27,077 | 26,474 | 25,883 | 25,296 | 24,600 | 23,660 | 22,744 | 21,580 | 20,515 | 19,440 | 18,253 | 17,035 | 15,952 |
| Pediatric health checks in Fukushima | 15,002 | 9,534 | 8,432 | 7,432 | 6,206 | 5,193 | 4,474 | 3,648 | 2,857 | 2,335 | 2,037 | 1,426 | 1,115 | 952 |
| Pediatric health checks outside Fukushima | 2,949 | 2,283 | 1,822 | 1,792 | 1,403 | 1,226 | 929 | 834 | 650 | 444 | 377 | 278 | 197 | 151 |
| Number of those participated both of the above | 17 | 37 | 6 | 8 | 6 | 6 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 |
| Total (excluding those participated both) | 17,934 | 11,780 | 10,248 | 9,216 | 7,603 | 6,413 | 5,403 | 4,479 | 3,504 | 2,779 | 2,414 | 1,704 | 1,312 | 1,103 |
| Participation rate (%) | 64.5% | 43.5% | 38.7% | 35.6% | 30.1% | 26.1% | 22.8% | 19.7% | 16.2% | 13.5% | 12.4% | 9.3% | 7.7% | 6.9% |

(b) Participants aged 16 or older

The participation rate for FY2024 was 17.0%, down by 0.4% compared to 17.4% in FY2023.



| | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 | FY2019 | FY2020 | FY2021 | FY2022 | FY2023 | FY2024 |
|---|------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| | Confirmed data as of Sep. 11, 2012 | Confirmed data as of July 5, 2013 | Confirmed data as of Sep. 1, 2014 | Confirmed data as of Sep. 1, 2015 | Confirmed data as of Sep. 1, 2016 | Confirmed data as of Dec. 31, 2017 | Confirmed data as of Mar. 31, 2018 | Confirmed data as of Mar. 31, 2019 | Confirmed data as of Mar. 31, 2020 | Confirmed data as of Mar. 31, 2021 | Confirmed data as of Mar. 31, 2022 | Confirmed data as of Mar. 31, 2023 | Confirmed data as of Mar. 31, 2024 | Confirmed data as of Mar. 31, 2025 |
| Eligible persons | 182,370 | 184,910 | 186,970 | 188,328 | 190,019 | 191,101 | 191,636 | 191,974 | 192,651 | 193,358 | 193,576 | 193,195 | 192,855 | 192,623 |
| Participants in municipal general health checks in the prefecture | 8,798 | 23,907 | 25,604 | 25,913 | 26,195 | 26,636 | 26,411 | 26,140 | 25,255 | 19,002 | 21,339 | 22,196 | 22,274 | 21,546 |
| Participants in individual health checks in the prefecture | - | 6,692 | 5,806 | 4,927 | 4,443 | 3,941 | 3,782 | 3,730 | 2,869 | 3,771 | 3,927 | 3,680 | 3,259 | 3,447 |
| Participants in group health checks in the prefecture | 41,949 | 10,603 | 6,767 | 5,808 | 5,183 | 4,341 | 3,963 | 3,776 | 2,444 | 3,496 | 3,396 | 3,717 | 3,527 | 3,350 |
| Participants in individual health checks outside the prefecture | 3,815 | 3,055 | 3,205 | 3,418 | 3,332 | 2,118 | 2,102 | 2,087 | 1,988 | 1,847 | 1,809 | 1,753 | 1,664 | 1,642 |
| Other ^{*1, *2} | 2,045 | 3,206 | 2,017 | 1,846 | 2,113 | 3,011 | 3,154 | 3,122 | 3,001 | 2,941 | 3,187 | 2,975 | 2,936 | 2,862 |
| Number of those who participated in both of the above | 208 | 454 | 359 | 38 | 55 | 57 | 45 | 40 | 32 | 92 | 76 | 52 | 62 | 99 |
| Total (not double-counting those who participated in both) | 56,399 | 47,009 | 43,040 | 41,874 | 41,211 | 39,990 | 39,367 | 38,815 | 35,525 | 30,965 | 33,582 | 34,269 | 33,598 | 32,748 |
| Participation rate (%) | 30.9% | 25.4% | 23.0% | 22.2% | 21.7% | 20.9% | 20.5% | 20.2% | 18.4% | 16.0% | 17.3% | 17.7% | 17.4% | 17.0% |

*1 Other: Municipal health checks conducted in the prefecture by the county/municipal medical association or medical facilities

*2 Other: Municipal health checks conducted outside the prefecture by cooperating facilities

B. Number of participants by age group

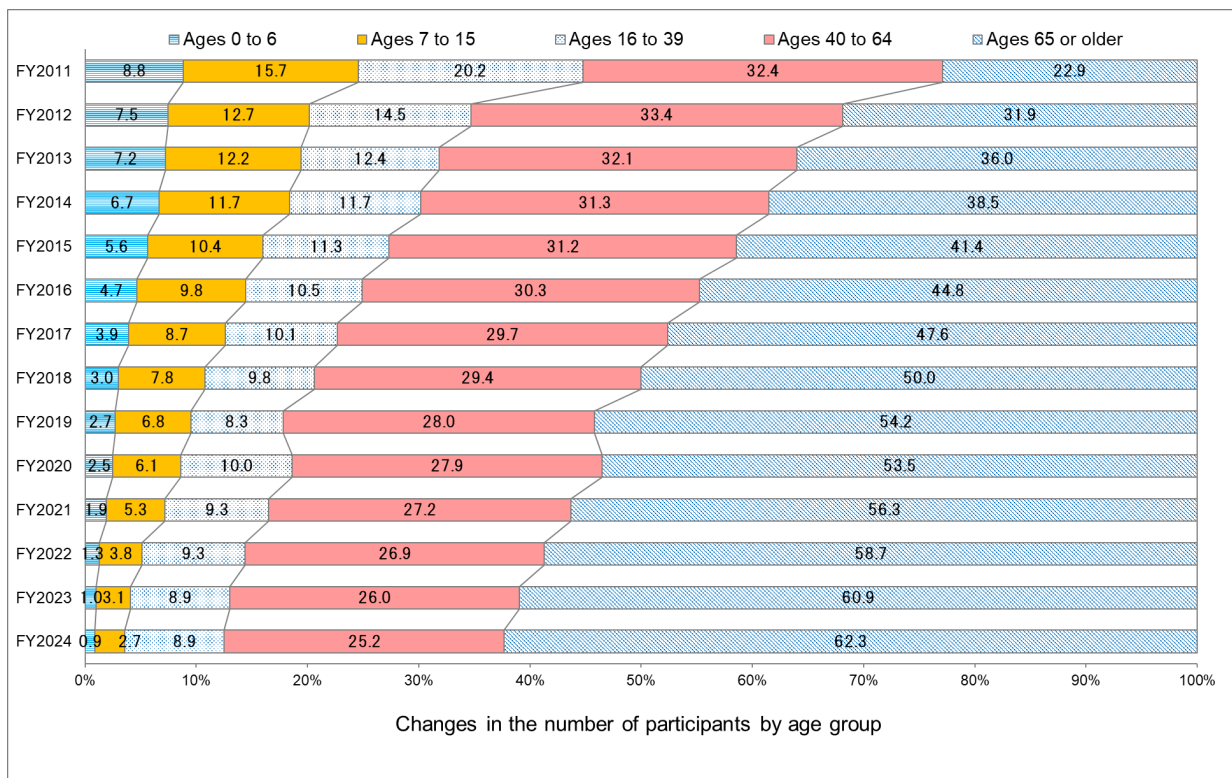
In FY2024, the number of participants decreased in all age groups.

As for the participation trend by age group, the number of participants aged 65 or older has been increasing year by year, and in FY2024, they accounted for 62.3%.

Changes in the number of participants by age group

(persons)

| | Ages 0 to 6 | Ages 7 to 15 | Ages 16 to 39 | Ages 40 to 64 | Ages 65 or older |
|--------|-------------|--------------|---------------|---------------|------------------|
| FY2011 | 6,453 | 11,473 | 14,728 | 23,587 | 16,663 |
| FY2012 | 4,345 | 7,421 | 8,428 | 19,357 | 18,450 |
| FY2013 | 3,799 | 6,426 | 6,500 | 16,766 | 18,807 |
| FY2014 | 3,325 | 5,835 | 5,838 | 15,573 | 19,159 |
| FY2015 | 2,654 | 4,898 | 5,346 | 14,722 | 19,549 |
| FY2016 | 2,055 | 4,312 | 4,624 | 13,364 | 19,750 |
| FY2017 | 1,647 | 3,712 | 4,305 | 12,665 | 20,282 |
| FY2018 | 1,220 | 3,166 | 3,973 | 11,928 | 20,329 |
| FY2019 | 959 | 2,457 | 2,984 | 10,095 | 19,529 |
| FY2020 | 783 | 1,936 | 3,157 | 8,791 | 16,853 |
| FY2021 | 638 | 1,739 | 3,079 | 8,982 | 18,566 |
| FY2022 | 434 | 1,246 | 3,025 | 8,761 | 19,145 |
| FY2023 | 315 | 966 | 2,744 | 8,052 | 18,842 |
| FY2024 | 259 | 819 | 2,660 | 7,547 | 18,636 |



*Percentages in the graph are rounded, so totals may not be 100%.

*Source: Materials for the 21st, 26th, 30th, 34th, 37th, 41st, 44th, 48th, 50th and 54th meetings of the Oversight Committee for the Fukushima Health Management Survey (including those who have participated in at least 1 health check item)

[Reference]

FY2024 Number of eligible persons by area of residence (in or outside the prefecture)*

| 15 or younger | In the prefecture | Outside the prefecture | Total | 16 or older | In the prefecture | Outside the prefecture | Total |
|--------------------|-------------------|------------------------|-------|--------------------|-------------------|------------------------|---------|
| | Eligible persons | 14,319 | 1,633 | | 15,952 | Eligible persons | 160,005 |
| Participants | 946 | 157 | 1,103 | Participants | 30,089 | 2,659 | 32,748 |
| Participation rate | 6.6% | 9.6% | 6.9% | Participation rate | 18.8% | 8.2% | 17.0% |

*Eligible persons were divided into “in the prefecture” and “outside the prefecture” based on the mailing address to which health check invitations were sent. This method of division differs from that of dividing participants by health check type or by venue.

3. Implementation Status for FY2025 (as of December 31, 2025)

Covered population: 207,232 (aged 15 or younger: 14,630; aged 16 or older: 192,602)

| | | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. |
|--------------------|------------------------|------|-----|--|--|------|------|------|------|--|------|------|------|
| Aged 15 or younger | In the prefecture | | | | Pediatric health checks at designated medical facilities in the prefecture Participants 723 (Preliminary data) | | | | | | | | |
| | Outside the prefecture | | | | Pediatric health checks at designated medical facilities outside the prefecture Participants 69 (Preliminary data) | | | | | | | | |
| Aged 16 or older | In the prefecture | | | Specific health checks or general health checks organized by municipalities with additional examination items Tamura City, Minamisoma City, Kawamata Town, Hirono Town, Naraha Town, Tomioka Town, Kawauchi Village, Okuma Town, Futaba Town, Namie Town, Katsurao Village, and Iitate Village Participants 21,441 (Preliminary data) | | | | | | Group health checks Starting from Jan. 10, 2026 | | | |
| | Outside the prefecture | | | Health checks at designated medical facilities outside of the prefecture Participants 439 (Preliminary data) | | | | | | Individual health checks at medical facilities Starting from Jan. 5, 2026 | | | |

3-1. Eligible persons residing in Fukushima prefecture

A. For those aged 15 or younger

In the same manner as in the previous fiscal year, pediatric health checks at designated health check facilities were conducted for a period of around six months from July to December 2025 (at 76 cooperating health check facilities).

B. For those aged 16 or older

CHC was conducted simultaneously with specific and general health checks by municipalities, adding some items to regular check-up items (hereinafter referred to as "add-on health checks") in the same manner as in the previous fiscal year across the 12 municipalities, excluding Date City. Additionally, group health checks and individual health checks at designated health check facilities were also conducted from January 2026, covering eligible persons who could not receive “add-on health checks” (at 374 cooperating health check facilities for individual health checks).

3-2 Eligible persons residing outside the prefecture

After coordinating venues in the eligible participants' prefectures of residence, we prepared and sent invitations for health checks starting from the end of June.

3-3 Results reports and feedback

A. Individual results reports

CHC individual results are mailed to each participant. In addition, face-to-face explanations of results are offered to those aged 15 or younger and their parents/guardians at the health check facilities where they received health checks.

B. Preparation of a leaflet

For group and individual health checks covering individuals aged 16 years and older, an informational leaflet summarizing key findings from health examination results has been enclosed with the notification materials sent to participants since FY2017. The leaflet features a different theme each year. "Hyperuricemia" was the theme in FY2024, and the focus was "Obesity" in FY2025, with detailed explanations of the differences of obesity, obesity-related disease, and metabolic syndrome, as well as methods for their prevention.

For pediatric health checks conducted within the prefecture for those aged 15 years and younger, similar leaflets have been prepared and enclosed with notifications since FY2022. In FY2024, the leaflet disseminated research findings on obesity, along with information on its association with lifestyle-related diseases and key points for prevention. In FY2025, the content focused specifically on obesity and was presented in an easy-to-understand format using illustrations.

C. Preparation of analysis reports on CHC results

We prepared CHC results analysis reports for each of the participating municipalities, showing temporal changes in their residents' health check results so that the residents can understand their health conditions. In FY2025, we conducted an additional analysis, tabulating data by age group, which would be useful for lifestyle disease prevention measures. We then utilized the results in health seminars and other activities in response to requests from the municipalities.

D. Holding health seminars

In order to deepen residents' understanding of the importance of receiving health checks every year and to support them in receiving health checks, we hold seminars at events such as health check results-reporting meetings or health classes organized by municipalities. In health seminars, medical doctors give health lectures to residents of the participating municipalities, presenting results and analyses of the CHC, and specialists offer individual consultations or blood glucose level measurement.

Health seminars and sessions conducted in FY2025

as of December 31, 2025

| Municipality | Name of the event | Times | Contents |
|------------------|---|-------|---|
| Naraha Town | Frailty prevention program | 10 | <ul style="list-style-type: none"> Individual consultation with health specialists |
| | Individual health consultation session | 2 | <ul style="list-style-type: none"> Lecture by a medical doctor Individual consultation with health specialists Blood glucose level measurement |
| | Brushing lessons for adults | 1 | <ul style="list-style-type: none"> Lecture by a medical doctor Blood glucose level measurement |
| | Health check result explanatory session | 2 | <ul style="list-style-type: none"> Lecture by a medical doctor Individual consultation with health specialists Blood glucose level measurement |
| Futaba Town | Health check result explanatory session | 7 | <ul style="list-style-type: none"> Individual consultation with health specialists Panel exhibition and leaflet distribution |
| | HOKO-TOUCH interim measurement meeting | 1 | <ul style="list-style-type: none"> Individual consultation with health specialists Exercise class |
| Kawamata Town | Health Supporters' Training Session | 1 | <ul style="list-style-type: none"> Individual consultation with health specialists |
| | Kawamata Genki Festival | 1 | <ul style="list-style-type: none"> Lecture by a medical doctor Individual consultation with health specialists Blood glucose level and blood pressure measurement Exercise class Panel exhibition and leaflet distribution |
| Namie Town | Walking performance assessment | 6 | <ul style="list-style-type: none"> Individual consultation with health specialists Panel exhibition |
| | Fitness assessment | 5 | <ul style="list-style-type: none"> Individual consultation with health specialists Panel exhibition |
| | Health check result explanatory session | 2 | <ul style="list-style-type: none"> Individual consultation with health specialists |
| Tomioka Town | Health promotion class | 1 | <ul style="list-style-type: none"> Lecture by a medical doctor |
| Katsurao Village | Health check result explanatory session | 3 | <ul style="list-style-type: none"> Individual consultation with health specialists Panel exhibition |
| | Katsurao thanksgiving festival | 1 | <ul style="list-style-type: none"> Panel exhibition |
| Okuma Town | Health check result explanatory session | 1 | <ul style="list-style-type: none"> Individual consultation with health specialists |
| Tamura City | Mental health session | 1 | <ul style="list-style-type: none"> Explanation and consultation about KOKOKARA Survey |

Total: 45 seminars and sessions

3-4 Efforts to raise health awareness through the CHC

We have continuously conducted the following activities, using the CHC as an opportunity to raise residents' health awareness in the face of changing living conditions after a lapse of time since the Great East Japan Earthquake.

A. Publicity efforts

We have requested that municipal and prefectural governments run notices of the CHC in their public relations magazines to encourage as many residents as possible to receive health checks for prevention and/or treatment of diseases. We have also prepared posters and flyers to promote routine health checks and requested that medical facilities post them on the walls of their premises.

B. Securing venues for group health checks

Since the beginning of the CHC program, we have endeavored to secure health check venues in locations convenient to residents, for example, by setting up group health check venues in areas where there are many eligible residents. With the lifting of evacuation orders, we have also set up new venues in former evacuation zones and changed the locations of venues in the area where there are only a small number of eligible residents.

C. Efforts to deepen residents' understanding of health

We prepared the results of CHC and the health information of Fukushima residents into a flyer, and posted it at municipal health checkup venues to raise awareness while examinees were waiting. We also created a pamphlet titled "The Health Check is Like a Report Card for Your Body," which summarizes how to read the results and explains diseases, preventive measures, and the importance of health checks. This pamphlet was used as material for health seminars. To promote a deeper understanding of health checks, we created panels that summarized CHC results and displayed them at health seminar venues.

D. Posting and updating articles about "Health" on the Center's website

To provide the general public with easy-to-understand information on prevention methods for lifestyle-related diseases, we started to post articles on our website, and we update them on a regular basis. Currently, the following columns are available: "hypertension," "obesity," "diabetes," "liver dysfunction," "renal dysfunction," "dyslipidemia," "hyperuricemia," "blood count," "childhood obesity," "dyslipidemia in children," "radiation," "frailty," "sarcopenia and locomotion," "hyperuricemia," "relation of laughter and physical and mental health," and "cardiovascular disease." We plan to update these regularly going forward.

E. Efforts to disseminate information through the Center's official SNS account

The newly opened Center's official X (formerly Twitter) account is used to disseminate information on health check notices and the new health-related column on our website.

Report on the Results of the FY2024 Comprehensive Health Check Fukushima Health Management Survey (Participants Aged 15 or Younger)

< Supplementary Notes >

- * Pediatric Health Checks were conducted during the following periods.
FY2011: January to March 2012
FY2012 to FY2024: July to December of the respective fiscal year
- * Percentages of obese participants were evaluated using BMI Standard Deviation Scores (BMI SDS), which were calculated based on the heights and weights of the participants measured periodically at ages from 0 to 15, and the results from FY2011 to FY2024 were compared.
- * Results of blood tests vary substantially by age, but since participants were divided broadly into two age groups, 0 to 6 years and 7 to 15 years, year-by-year comparisons are not possible, and definitive conclusions cannot be drawn.

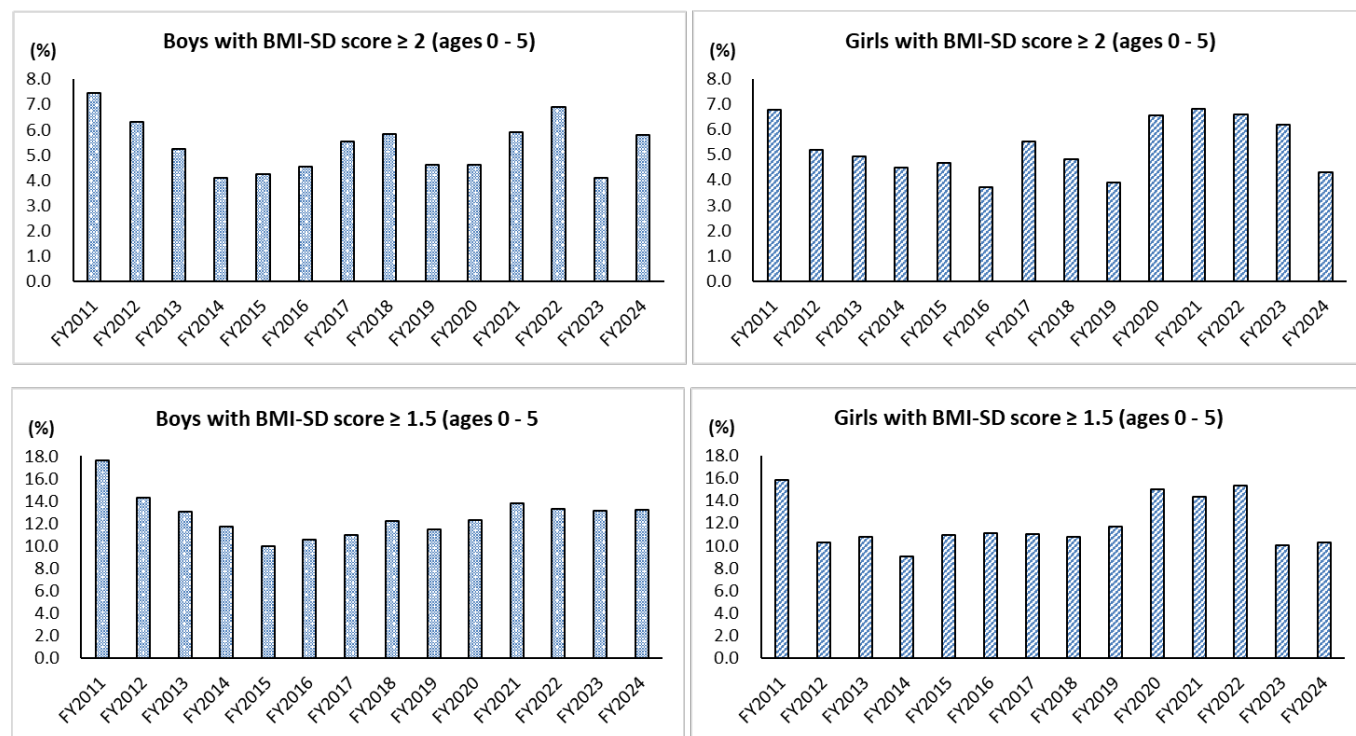
[Reference: red blood cell count trend by average age]

| Age Group | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 | FY2019 | FY2020 | FY2021 | FY2022 | FY2023 | FY2024 |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0-6 | 3.6 | 3.6 | 3.7 | 3.8 | 3.8 | 3.8 | 3.6 | 3.5 | 3.5 | 3.6 | 3.6 | 3.6 | 3.6 | 3.5 |
| 7-15 | 11.0 | 10.9 | 10.8 | 10.9 | 10.9 | 10.9 | 10.8 | 10.9 | 11.2 | 11.4 | 11.6 | 11.8 | 11.9 | 11.9 |

- * Rules for describing tabulation results are the same as those used for *Vital Statistics in Japan* by the Ministry of Health, Labour and Welfare, including this nomenclature:
When there is no data: -
When the ratio is minor (lower than 0.05): 0.0%
- * Reference materials
FY2011 to FY2014: Material 3-2 "Basic Statistics of CHC Results by Health Check Item" for the 21st Prefectural Oversight Committee Meeting for the Fukushima Health Management Survey
FY2015: Material 3-2 "Basic Statistics of CHC Results by Health Check Item" for the 26th Prefectural Oversight Committee Meeting for the Fukushima Health Management Survey
FY2016: Material 2-3 "Basic Statistics of CHC Results by Health Check Item" for the 30th Prefectural Oversight Committee Meeting for the Fukushima Health Management Survey
FY2017: Material 2-3 "Basic Statistics of CHC Results by Health Check Item" for the 34th Prefectural Oversight Committee Meeting for the Fukushima Health Management Survey
FY2018: Material 4-4 "Tabulation Results by Health Check Item" for the 37th Prefectural Oversight Committee Meeting for the Fukushima Health Management Survey
FY2019: Material 3-4 "Tabulation Results by Health Check Item" for the 41st Prefectural Oversight Committee Meeting for the Fukushima Health Management Survey
FY2020: Material 4-4 "Tabulation Results by Health Check Item" for the 44th Prefectural Oversight Committee Meeting for the Fukushima Health Management Survey
FY2021: Material 4-4 "Tabulation Results by Health Check Item" for the 48th Prefectural Oversight Committee Meeting for the Fukushima Health Management Survey
FY2022: Material 1-5 "Tabulation Results by Health Check Item" for the 50th Prefectural Oversight Committee Meeting for the Fukushima Health Management Survey
FY2023: Material 1-4 "Tabulation Results by Health Check Item" for the 54th Prefectural Oversight Committee Meeting for the Fukushima Health Management Survey

Physical Exam (percentage with obesity based on BMI SD scores):**1. Results****[Participants aged 0 to 5]**

The percentage of obese children who were aged 0 to 5 at the time of the examination (BMI SDS \geq 2 and BMI SDS \geq 1.5) showed no specific trend for either boys or girls.

**Boys ages 0 - 5 at the time of health check**

| | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 | FY2019 | FY2020 | FY2021 | FY2022 | FY2023 | FY2024 |
|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Participants | 2,706 | 1,933 | 1,755 | 1,516 | 1,156 | 907 | 722 | 582 | 454 | 391 | 305 | 203 | 145 | 121 |
| Average age | 3.5 | 3.4 | 3.4 | 3.5 | 3.4 | 3.3 | 3.2 | 3.1 | 3.1 | 3.2 | 3.2 | 3.3 | 3.3 | 3.3 |
| Average BMI-SDS | 0.627 | 0.399 | 0.402 | 0.326 | 0.322 | 0.337 | 0.283 | 0.288 | 0.265 | 0.346 | 0.323 | 0.300 | 0.327 | 0.275 |
| SD | 1.011 | 1.083 | 1.027 | 1.034 | 0.989 | 1.028 | 1.047 | 1.103 | 1.096 | 1.038 | 1.053 | 1.123 | 1.058 | 1.140 |
| SD score \geq 2 (%) | 7.5 | 6.3 | 5.2 | 4.1 | 4.2 | 4.5 | 5.5 | 5.8 | 4.6 | 4.6 | 5.9 | 6.9 | 4.1 | 5.8 |
| SD score \geq 1.5 (%) | 17.6 | 14.3 | 13.0 | 11.7 | 9.9 | 10.6 | 10.9 | 12.2 | 11.5 | 12.3 | 13.8 | 13.3 | 13.1 | 13.2 |

Girls ages 0 - 5 at the time of health check

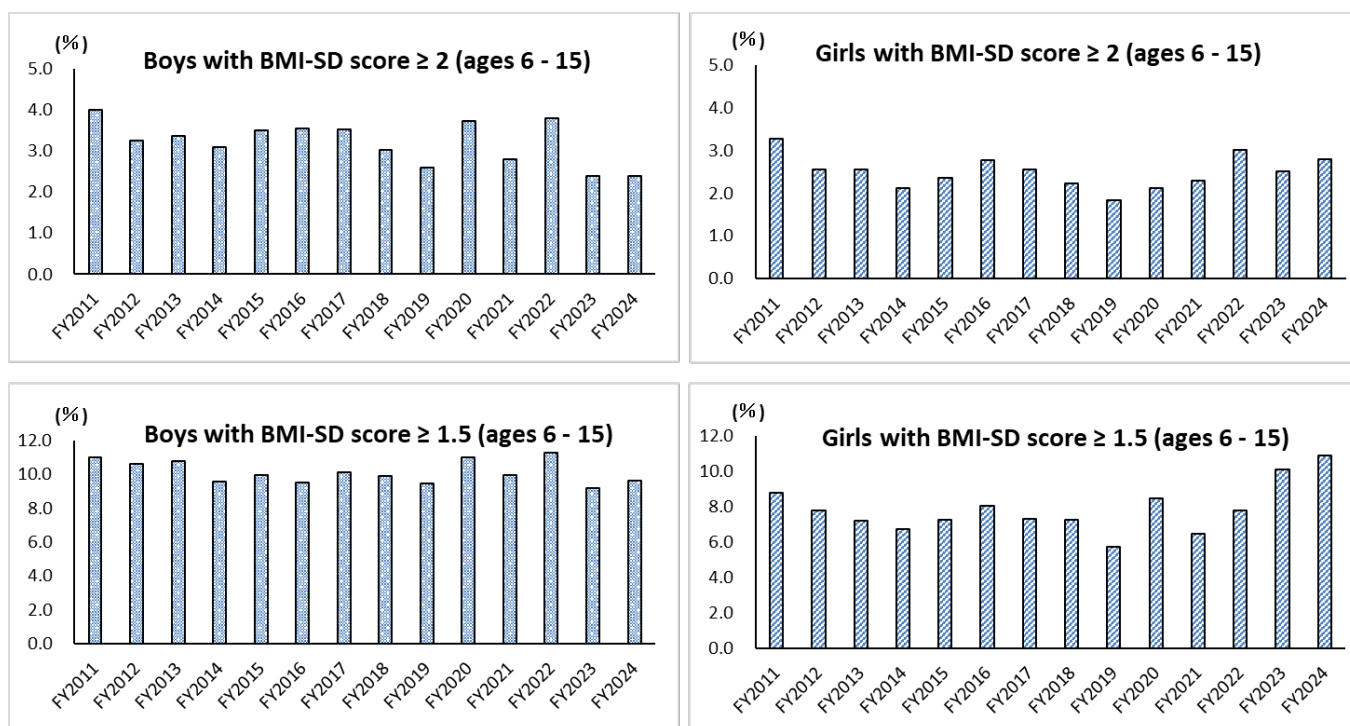
| | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 | FY2019 | FY2020 | FY2021 | FY2022 | FY2023 | FY2024 |
|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Participants | 2,685 | 1,946 | 1,666 | 1,465 | 1,180 | 892 | 741 | 539 | 437 | 320 | 279 | 182 | 130 | 116 |
| Average age | 3.5 | 3.3 | 3.4 | 3.5 | 3.5 | 3.4 | 3.3 | 3.3 | 3.2 | 3.2 | 3.3 | 3.1 | 3.0 | 3.1 |
| Average BMI-SDS | 0.558 | 0.331 | 0.305 | 0.279 | 0.315 | 0.318 | 0.339 | 0.291 | 0.265 | 0.447 | 0.447 | 0.391 | 0.313 | 0.285 |
| SD | 0.984 | 1.018 | 1.010 | 0.992 | 0.988 | 0.964 | 1.018 | 1.011 | 1.037 | 1.028 | 1.008 | 1.071 | 1.055 | 1.054 |
| SD score \geq 2 (%) | 6.8 | 5.2 | 4.9 | 4.5 | 4.7 | 3.7 | 5.5 | 4.8 | 3.9 | 6.6 | 6.8 | 6.6 | 6.2 | 4.3 |
| SD score \geq 1.5 (%) | 15.8 | 10.3 | 10.7 | 9.1 | 10.9 | 11.1 | 11.1 | 10.8 | 11.7 | 15.0 | 14.3 | 15.4 | 10.0 | 10.3 |

Cited file for calculation:

Growth Research Committee, The Japanese Association for Human Auxology/The Japanese Society for Pediatric Endocrinology: http://jspe.umin.jp/medical/chart_dl.html (accessed November 18, 2021)

[Participants aged 6 to 15]

The percentage of obese children who were aged 6 to 15 at the time of the examination (BMI SDS \geq 2 and BMI SDS \geq 1.5) showed no specific trend for either boys or girls.

**Boys ages 6 - 15 at the time of health check**

| | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 | FY2019 | FY2020 | FY2021 | FY2022 | FY2023 | FY2024 |
|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Participants | 6,313 | 4,034 | 3,481 | 3,161 | 2,707 | 2,365 | 1,981 | 1,650 | 1,266 | 1,016 | 914 | 657 | 531 | 419 |
| Average age | 10.9 | 10.6 | 10.6 | 10.6 | 10.7 | 10.7 | 10.6 | 10.8 | 11.0 | 11.3 | 11.4 | 11.5 | 11.6 | 11.5 |
| Average BMI-SDS | 0.167 | 0.066 | 0.091 | 0.051 | 0.047 | 0.019 | 0.076 | 0.061 | 0.045 | 0.154 | 0.123 | 0.119 | -0.048 | -0.058 |
| SD | 1.048 | 1.127 | 1.089 | 1.077 | 1.097 | 1.113 | 1.066 | 1.074 | 1.158 | 1.082 | 1.075 | 1.100 | 1.110 | 1.114 |
| SD score \geq 2 (%) | 4.0 | 3.2 | 3.4 | 3.1 | 3.5 | 3.6 | 3.5 | 3.0 | 2.6 | 3.7 | 2.8 | 3.8 | 2.4 | 2.4 |
| SD score \geq 1.5 (%) | 11.0 | 10.6 | 10.8 | 9.6 | 9.9 | 9.5 | 10.1 | 9.9 | 9.5 | 11.0 | 10.0 | 11.3 | 9.2 | 9.6 |

Girls ages 6 -15 at the time of health check

| | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 | FY2019 | FY2020 | FY2021 | FY2022 | FY2023 | FY2024 |
|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Participants | 6,204 | 3,853 | 3,322 | 3,019 | 2,509 | 2,203 | 1,915 | 1,614 | 1,259 | 992 | 878 | 638 | 475 | 422 |
| Average age | 11.0 | 10.7 | 10.6 | 10.6 | 10.6 | 10.6 | 10.5 | 10.7 | 11.1 | 11.2 | 11.4 | 11.5 | 11.7 | 11.8 |
| Average BMI-SDS | 0.135 | 0.004 | -0.001 | -0.013 | 0.022 | 0.007 | 0.000 | -0.011 | -0.070 | 0.019 | 0.001 | 0.014 | 0.024 | 0.045 |
| SD | 0.993 | 1.023 | 1.002 | 0.988 | 0.981 | 1.017 | 0.991 | 1.002 | 1.000 | 1.007 | 0.985 | 1.079 | 1.096 | 1.095 |
| SD score \geq 2 (%) | 3.3 | 2.5 | 2.6 | 2.1 | 2.4 | 2.8 | 2.6 | 2.2 | 1.8 | 2.1 | 2.3 | 3.0 | 2.5 | 2.8 |
| SD score \geq 1.5 (%) | 8.8 | 7.8 | 7.2 | 6.8 | 7.3 | 8.0 | 7.3 | 7.2 | 5.7 | 8.5 | 6.5 | 7.8 | 10.1 | 10.9 |

Cited file for calculation:

Growth Research Committee, The Japanese Association for Human Auxology/The Japanese Society for Pediatric Endocrinology: http://jspe.umin.jp/medical/chart_dl.html (accessed November 18, 2021)

2. Explanation of the Graphs

A body mass index standard deviation score (BMI SDS) was calculated from height and weight; those with a BMI SDS of 2 or higher were classified as obese.

3. Action Threshold

| Item | Obese |
|---------|-------------|
| BMI SDS | \geq 2 SD |

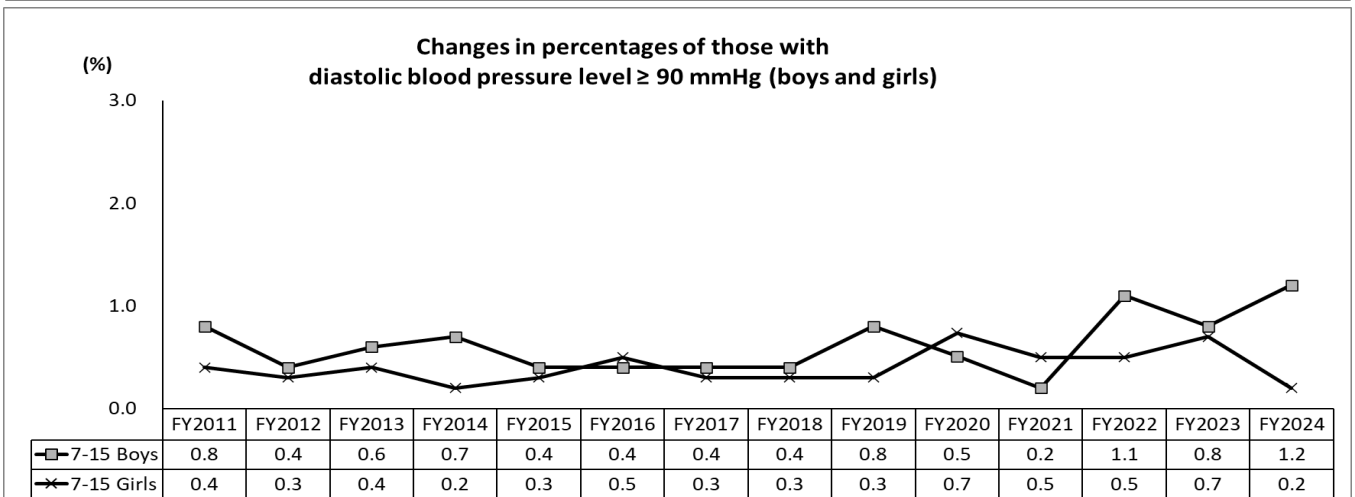
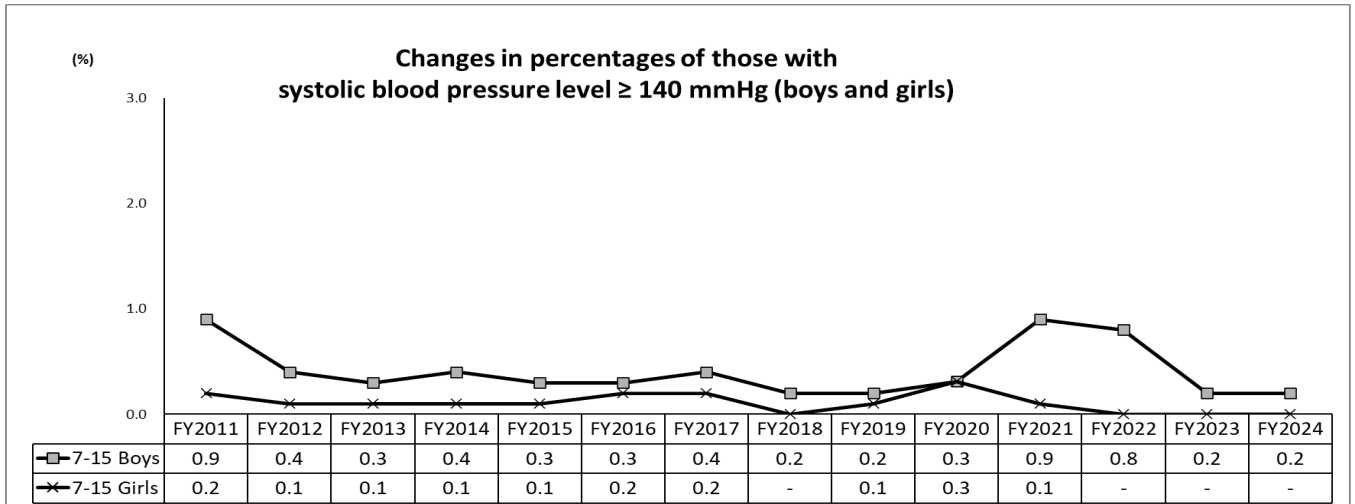
* When evaluating the physical constitution of Japanese children, it is considered appropriate to use thresholds based on anthropometric data published by the Ministry of Health, Labour and Welfare and the Ministry of Education, Culture, Sports, Science and Technology in FY2000, for standard values ("Fundamental Concept for the Evaluation of Japanese Children's Physical Constitution" prepared by the Joint Committee for Standard Values of the Japanese Society for Pediatric Endocrinology and the Japanese Association for Human Auxology).

In this report, the standard values calculated based on the FY2000 measurement results were used.

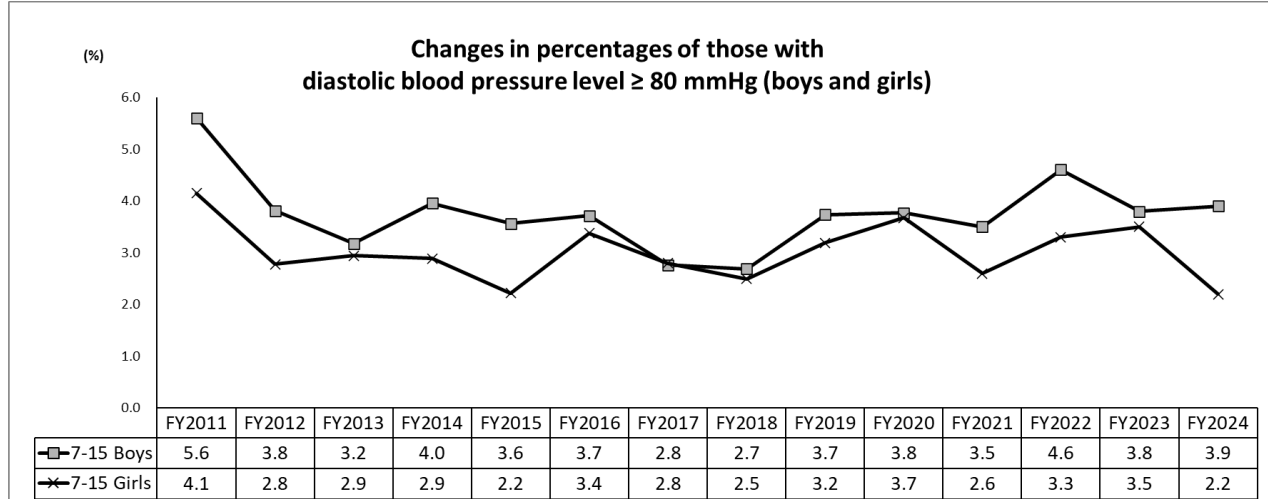
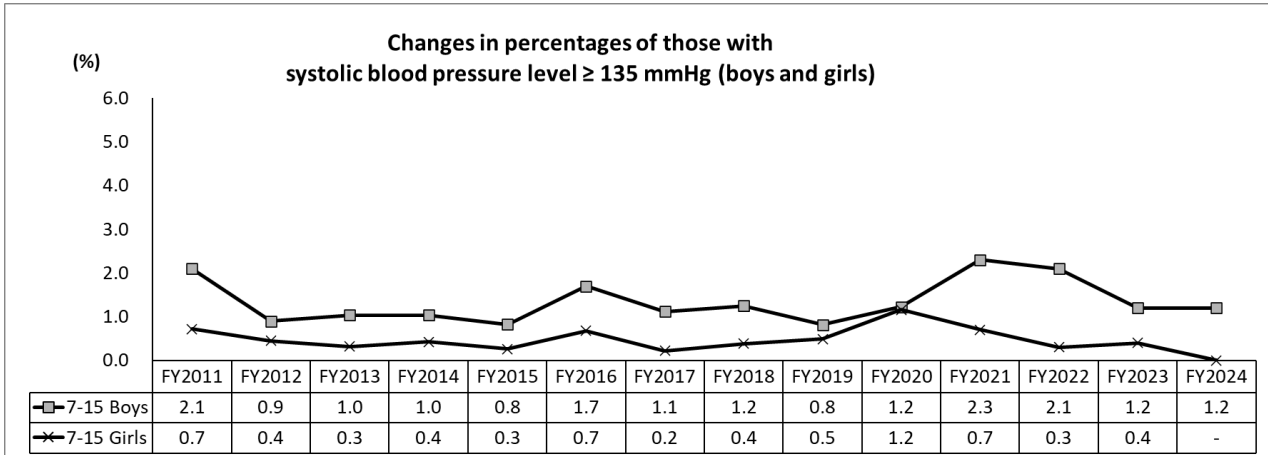
Physical Exam: Blood Pressure

1. Results

The percentage of boys with systolic blood pressures of 140 mmHg or over was the highest in FY2011 and lower thereafter, following no particular trend. An increasing trend was observed from FY2022 in the percentage of boys with diastolic blood pressures of 90 mmHg or over. The percentage of girls with systolic blood pressures of 140 mmHg or over showed no substantial changes. The percentage of girls with diastolic blood pressures of 90 mmHg or over also showed no substantial changes.



The percentage of boys with systolic blood pressure of 135 mmHg or higher showed no trend. The percentage of boys with diastolic blood pressures of 80 mmHg or higher was highest in FY2011 and showed no particular trend thereafter. The percentage of girls with systolic blood pressures of 135 mmHg or over showed no substantial changes from FY2011 to FY2019, showed an upward trend in FY2020, then a downward trend through FY2024. The percentage of girls with diastolic blood pressures of 80 mmHg or over was the highest in FY2011, and showed no particular trends thereafter.



. Explanation of the Graphs

In the Guidelines for the Management of Hypertension (Japanese Society of Hypertension, 2019), systolic blood pressures of 140 mmHg or over and diastolic blood pressures of 90 mmHg or over are action values used for group and individual health checks for those aged 16 or older; systolic blood pressures of 135 mmHg or over and diastolic blood pressures of 80 mmHg or over are action values for higher-grade elementary school students.

3. Reference Intervals for Blood Pressure by Age Group and by Sex

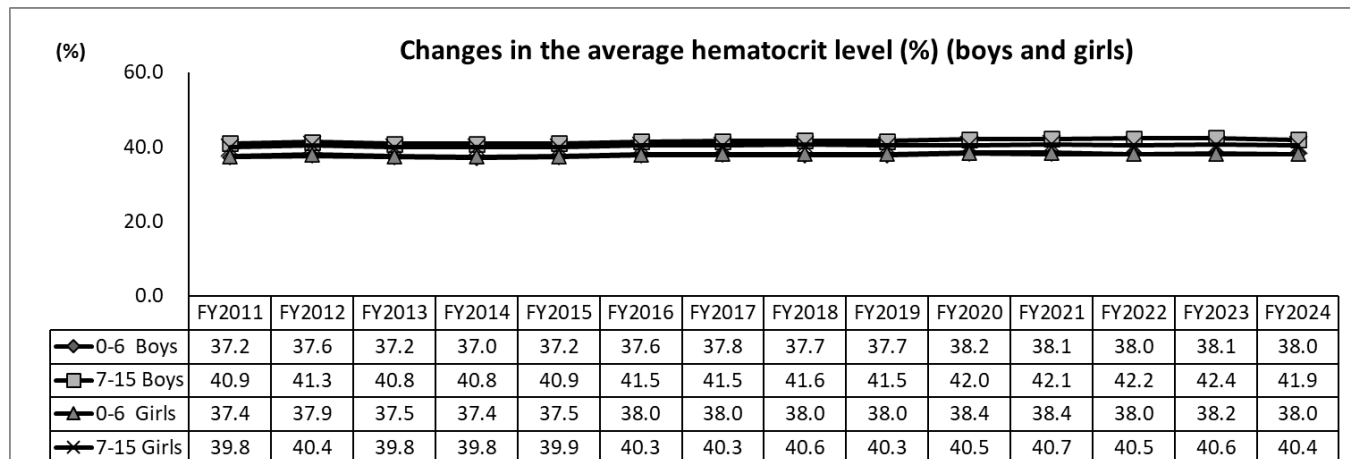
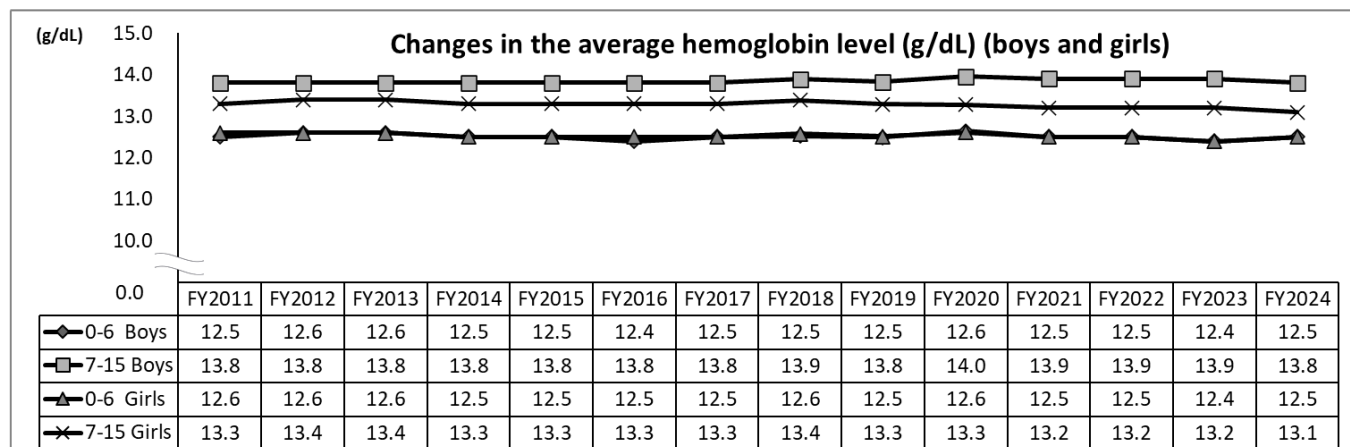
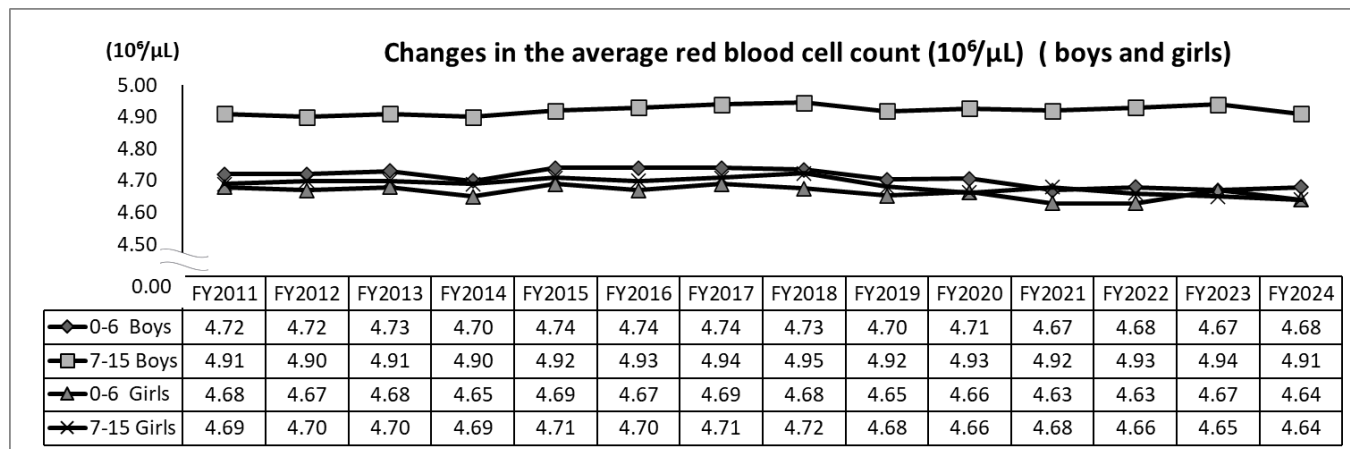
| Age group | Systolic blood pressure level (mmHg) | Diastolic blood pressure level (mmHg) |
|---------------------------------|--------------------------------------|---------------------------------------|
| Infants | \geq 120 | \geq 70 |
| Elementary school: Lower grades | \geq 130 | \geq 80 |
| Higher grades | \geq 135 | \geq 80 |
| Junior high school: Boys | \geq 140 | \geq 85 |
| Girls | \geq 135 | \geq 80 |
| High school | \geq 140 | \geq 85 |

Source: Guidelines for the Management and Treatment of Hypertension (Japanese Society of Hypertension, 2025)

Peripheral Blood Tests: Red Blood Cells, Hemoglobin, Hematocrit

1. Results

The average values of red blood cell count, hemoglobin, or hematocrit for either boys or girls in any age group showed no substantial changes.



2. Explanation of the Graphs

The graphs show changes in the average values of red blood cell counts, hemoglobin, and hematocrit.

3. Reference Intervals

| Age | Red blood cells ($\times 10^{12}/L$) | Hemoglobin (g/dL) | Hematocrit (%) |
|---------------|---|----------------------|----------------|
| At birth | 5.25 \pm 0.40 | 16.6 \pm 1.5 | 53 \pm 4.5 |
| 1 day old | 5.14 \pm 0.60 | 19.0 \pm 2.0 | 58 \pm 5.5 |
| 1 week old | 4.86 \pm 0.60 | 17.9 \pm 1.5 | 56 \pm 6.0 |
| 1 month old | 4.10 \pm 0.60 | 14.2 \pm 2.0 | 43 \pm 6.0 |
| 3 months old | 3.70 \pm 0.35 | 11.3 \pm 1.0 | 33 \pm 3.0 |
| 6 months old | 4.60 \pm 0.35 | 12.3 \pm 1.0 | 36 \pm 3.0 |
| 12 months old | 4.60 \pm 0.40 | 11.6 \pm 0.75 | 36 \pm 1.5 |
| Aged 1 – 4 | 4.70 \pm 0.35 | 12.6 \pm 0.5 | 38 \pm 1.5 |
| Aged 4 – 12 | 4.80 \pm 0.30 | 13.0 \pm 1.0 | 40 \pm 2.5 |
| Adult males | 5.40 \pm 0.35 | 16.0 \pm 1.0 | 47 \pm 3.0 |
| Adult females | 4.80 \pm 0.30 | 14.0 \pm 1.0 | 42 \pm 2.5 |

* Average value \pm standard deviation

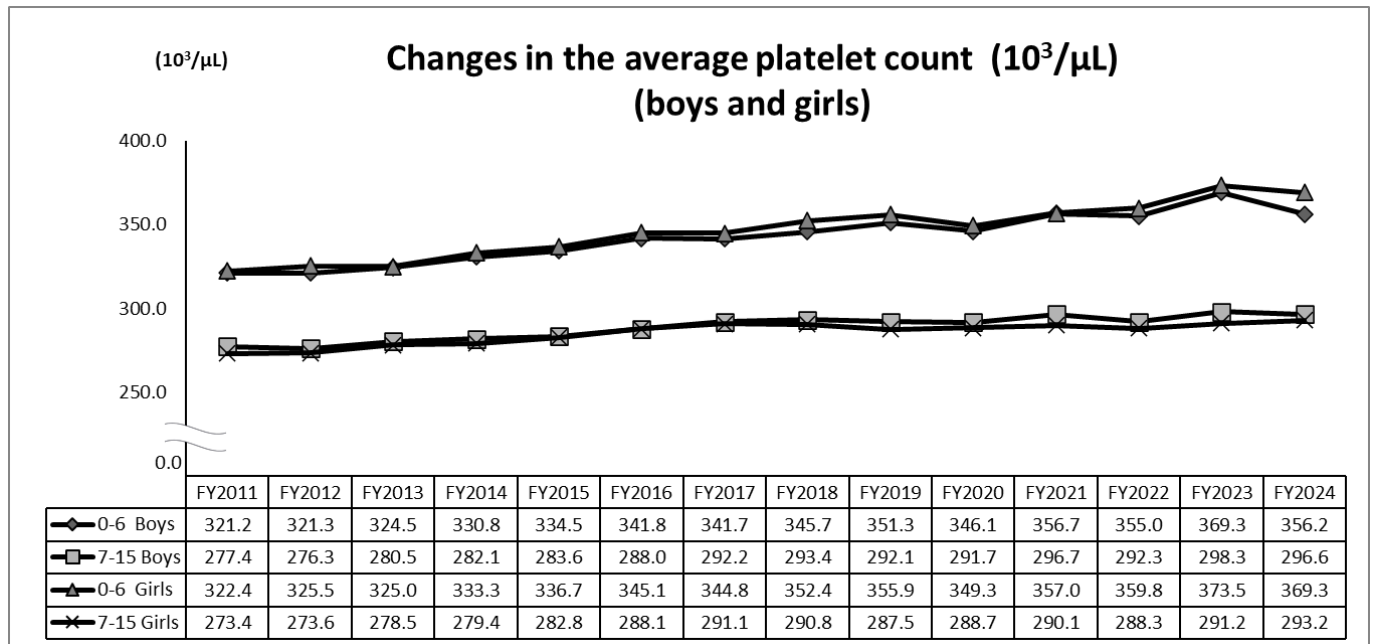
* By international consensus, red blood cell counts are expressed as numbers $\times 10^{12}/L$ or $\times 10^6/\mu L$.

Source: Clinical Management of Laboratory Data in Pediatrics 2017 (2nd edition)

Peripheral Blood Test: Platelet Counts

1. Results

The average platelet count remained within the reference range for both boys and girls across all age groups from FY2011 onward, but showed a gradual increasing trend.



2. Explanation of the Graph

The graph shows changes in the average values of platelet counts.

3. Reference Interval

| Item | Reference interval |
|---|--------------------|
| Number of blood platelets (×10 ⁹ /L) | 150 - 400 |

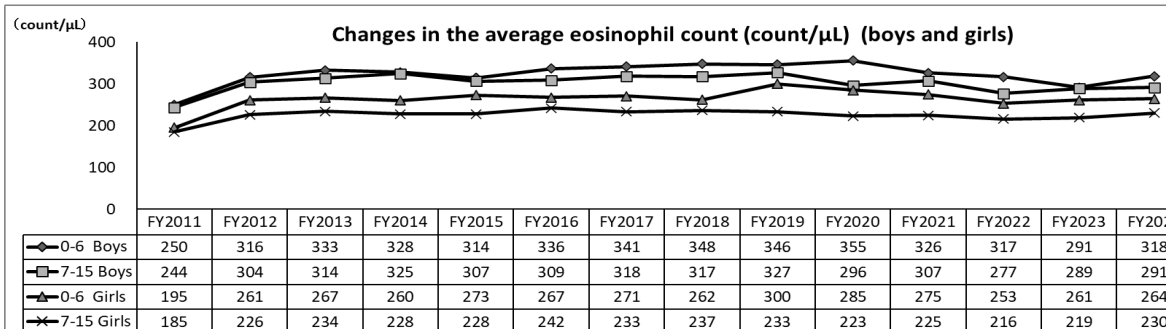
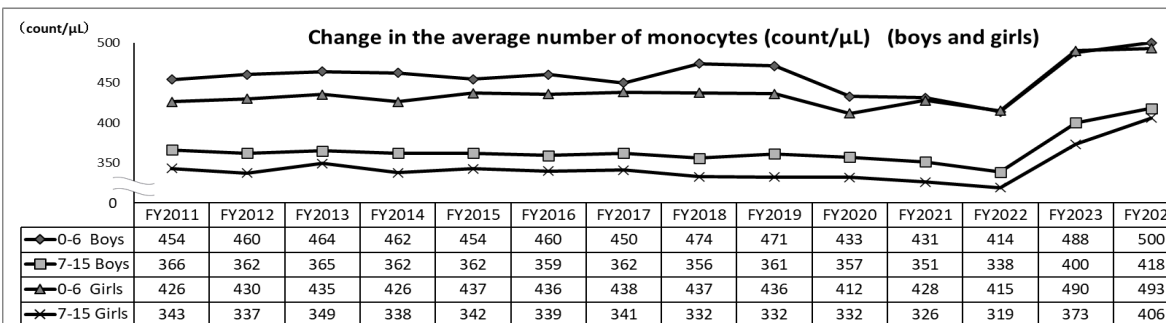
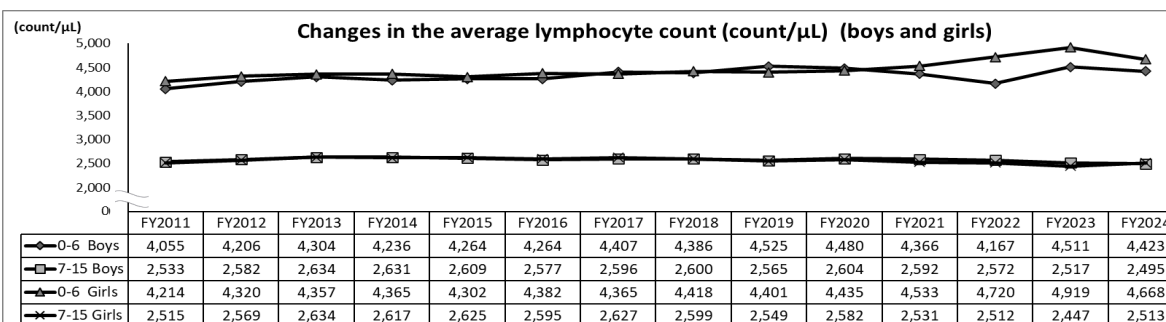
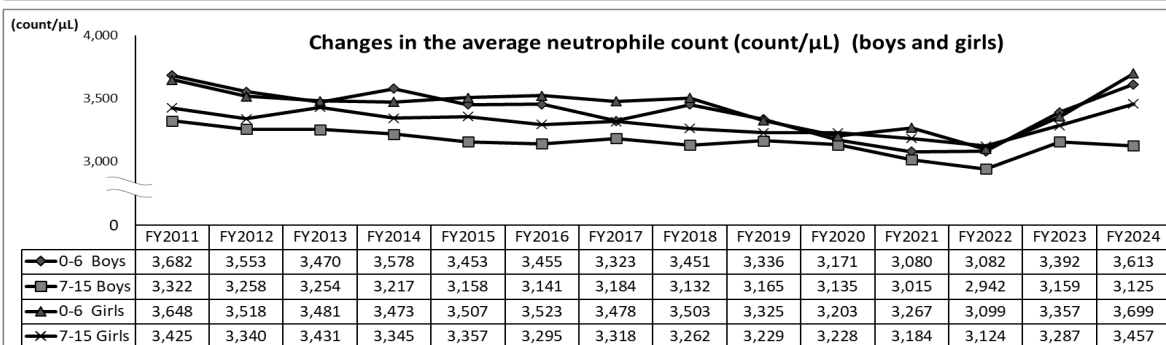
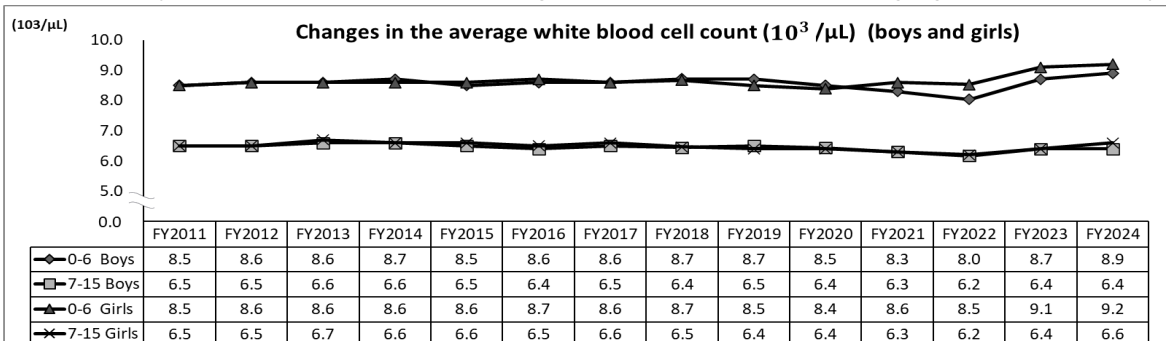
*By international consensus, platelet counts are expressed as numbers ×10⁹/L or ×10³/μL.

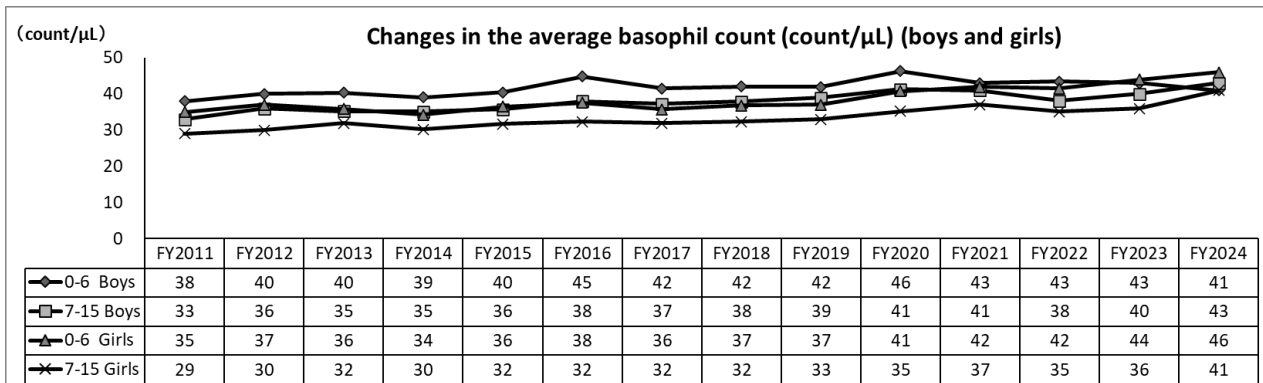
Source: Clinical Management of Laboratory Data in Pediatrics 2017 (3rd edition)

Peripheral Blood Tests: White Blood Cell Counts and Differentials

1. Results

No substantial changes were observed in the average white blood cell count, lymphocyte count, eosinophil count, or basophil count in any age group of boys and girls. The neutrophil count showed an increasing trend from FY2023 among boys and girls aged 0–6 years, and among girls aged 7–15 years. The monocyte count showed an increasing trend from FY2023 for all age groups in both boys and girls.





2. Explanation of the Graphs

The graphs show changes in the average values of white blood cell counts and differentials.

3. Reference Intervals

Total number of white blood cells ($\times 10^9/L$)

| Age | Average | Range | Age (years) | Average | Range |
|----------|---------|-----------|-------------|---------|----------|
| At birth | 18.1 | 9.0-30.0 | 1 | 11.4 | 6.0-17.5 |
| 12 hours | 22.8 | 13.0-38.0 | 2 | 10.6 | 6.0-17.0 |
| 1 day | 18.9 | 9.4-34.0 | 4 | 9.1 | 5.5-15.5 |
| 1 week | 12.2 | 5.0-21.0 | 6 | 8.5 | 5.0-14.5 |
| 2 weeks | 11.4 | 5.0-20.0 | 8 | 8.3 | 4.5-13.5 |
| 1 month | 10.8 | 5.0-19.5 | 10 | 8.1 | 4.5-13.5 |
| 6 months | 11.9 | 6.0-17.5 | 16 | 7.8 | 4.5-13.0 |
| | | | 21 | 7.4 | 4.5-11.0 |

* By international consensus, white blood cell counts are expressed as numbers $\times 10^9/L$ or $\times 10^3/\mu L$.
 Source: Clinical Management of Laboratory Data in Pediatrics 2017 (3rd edition)

Neutrophil, lymphocyte, monocyte, and eosinophil counts and percentages

($\times 10^3/\mu L$; Range is the 95% confidence interval.)

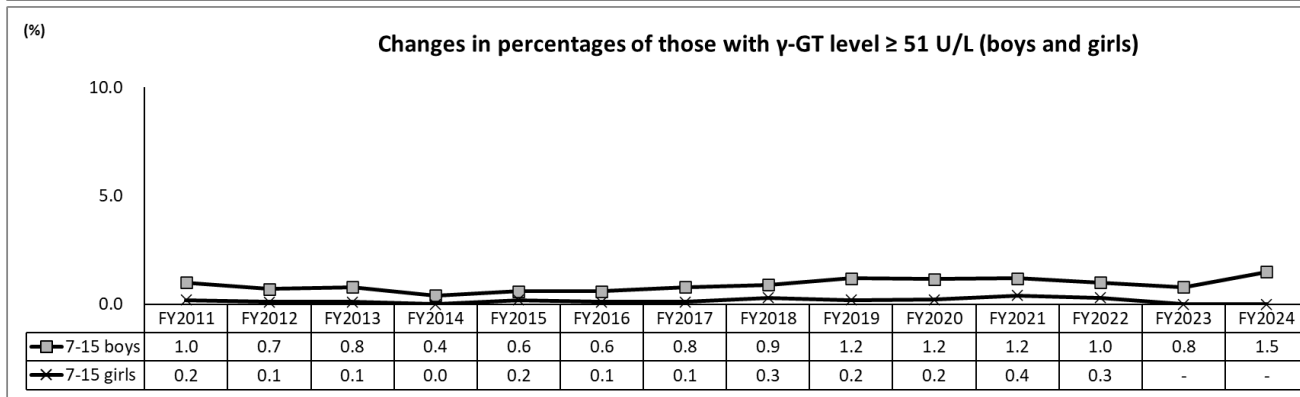
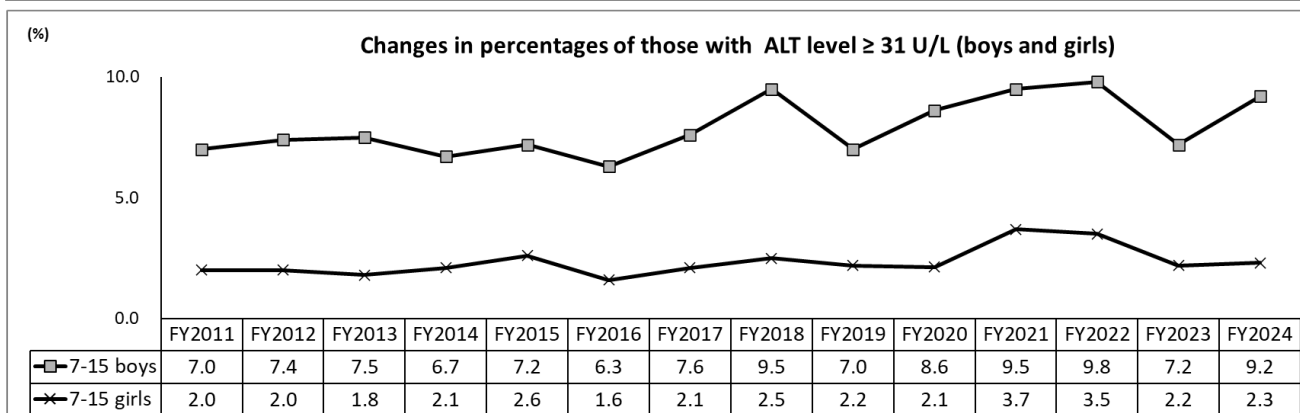
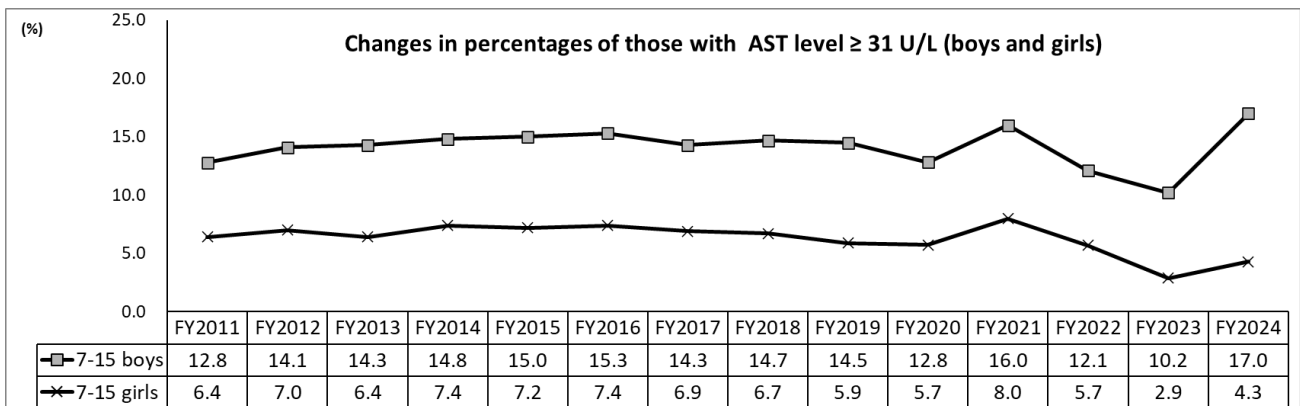
| Age | Neutrophil count | | | Lymphocyte count | | | Monocyte count | | Eosinophil count | |
|----------|------------------|----------|----|------------------|----------|----|----------------|---|------------------|---|
| | Average | Range | % | Average | Range | % | Average | % | Average | % |
| At birth | 11.0 | 6.0-26.0 | 61 | 5.5 | 2.0-11.0 | 31 | 1.1 | 6 | 0.4 | 2 |
| 12 hours | 15.5 | 6.0-28.0 | 68 | 5.5 | 2.0-11.0 | 24 | 1.2 | 5 | 0.5 | 2 |
| 1 day | 11.5 | 5.0-21.0 | 61 | 5.8 | 2.0-11.5 | 31 | 1.1 | 6 | 0.5 | 2 |
| 1 week | 5.5 | 1.5-10.0 | 45 | 5.0 | 2.0-17.0 | 41 | 1.1 | 9 | 0.5 | 4 |
| 2 weeks | 4.5 | 1.0-9.5 | 40 | 5.5 | 2.0-17.0 | 48 | 1.0 | 9 | 0.4 | 3 |
| 1 month | 3.8 | 1.0-8.5 | 35 | 6.0 | 2.5-16.5 | 56 | 0.7 | 7 | 0.3 | 3 |
| 6 months | 3.8 | 1.0-8.5 | 32 | 7.3 | 4.0-13.5 | 61 | 0.6 | 5 | 0.3 | 3 |
| 1 | 3.5 | 1.5-8.5 | 31 | 7.0 | 4.0-10.5 | 61 | 0.6 | 5 | 0.3 | 3 |
| 2 | 3.5 | 1.5-8.5 | 33 | 6.3 | 3.0-9.5 | 59 | 0.5 | 5 | 0.3 | 3 |
| 4 | 3.8 | 1.5-8.5 | 42 | 4.5 | 2.0-8.0 | 50 | 0.5 | 5 | 0.3 | 3 |
| 6 | 4.3 | 1.5-8.0 | 51 | 3.5 | 1.5-7.0 | 42 | 0.4 | 5 | 0.2 | 3 |
| 8 | 4.4 | 1.5-8.0 | 53 | 3.3 | 1.5-6.8 | 39 | 0.4 | 4 | 0.2 | 2 |
| 10 | 4.4 | 1.8-8.5 | 54 | 3.1 | 1.5-6.5 | 38 | 0.4 | 4 | 0.2 | 2 |
| 16 | 4.4 | 1.8-8.0 | 57 | 2.8 | 1.2-5.2 | 35 | 0.4 | 5 | 0.2 | 3 |
| 21 | 4.4 | 1.8-7.7 | 59 | 2.5 | 1.0-4.8 | 34 | 0.3 | 4 | 0.2 | 3 |

Source: Clinical Management of Laboratory Data in Pediatrics (3rd edition)

Liver Function: AST, ALT, γ -GT

1. Results

Liver dysfunction was found more often among boys than among girls in all fiscal years. Also, an increasing trend was observed for AST level ≥ 31 U/L in FY2024 among boys.



2. Explanation of the Graphs

An AST level of 31 U/L or over, an ALT level of 31 U/L or over, and a γ -GT level of 51 U/L or over are action values used for group and individual health checks for those aged 16 or older.

3. Reference Intervals

AST (GOT) (U/L)

| Age | Male | | Female | | Age | Male | | Female | |
|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|
| | Lower limit | Upper limit | Lower limit | Upper limit | | Lower limit | Upper limit | Lower limit | Upper limit |
| At birth | 19.9 | 62.0 | 19.9 | 62.0 | 5 years old | 24.0 | 38.7 | 24.0 | 39.0 |
| 1 month | 21.0 | 64.0 | 21.0 | 64.0 | 6 years old | 24.0 | 37.5 | 24.0 | 37.5 |
| 2 months | 22.0 | 65.0 | 22.0 | 65.0 | 7 years old | 24.0 | 36.0 | 24.0 | 35.5 |
| 3 months | 22.3 | 66.0 | 22.3 | 66.0 | 8 years old | 22.5 | 34.8 | 22.5 | 33.5 |
| 4 months | 23.0 | 67.0 | 23.0 | 67.0 | 9 years old | 19.0 | 33.0 | 18.5 | 32.0 |
| 5 months | 24.0 | 68.0 | 24.0 | 68.0 | 10 years old | 17.0 | 32.0 | 17.0 | 31.0 |
| 6 months | 24.5 | 68.0 | 24.5 | 68.0 | 11 years old | 16.0 | 31.5 | 16.0 | 30.0 |
| 7 months | 25.0 | 67.5 | 25.0 | 67.5 | 12 years old | 15.0 | 31.0 | 15.0 | 29.5 |
| 8 months | 24.5 | 66.5 | 24.5 | 66.5 | 13 years old | 14.5 | 31.0 | 14.0 | 29.0 |
| 9 months | 24.0 | 65.5 | 24.0 | 65.5 | 14 years old | 14.0 | 30.0 | 13.5 | 28.0 |
| 10 months | 23.5 | 63.9 | 23.5 | 63.9 | 15 years old | 14.0 | 30.0 | 13.0 | 28.0 |
| 11 months | 23.0 | 61.5 | 23.0 | 61.5 | 16 years old | 14.0 | 30.0 | 12.5 | 28.0 |
| 1 year old | 23.0 | 56.5 | 24.0 | 57.0 | 17 years old | 14.0 | 30.0 | 12.0 | 28.0 |
| 2 years old | 24.0 | 49.0 | 24.0 | 50.0 | 18 years old | 14.0 | 30.0 | 12.0 | 28.0 |
| 3 years old | 24.0 | 43.0 | 24.0 | 44.0 | 19 years old | 14.0 | 31.0 | 12.0 | 27.5 |
| 4 years old | 24.0 | 40.8 | 24.0 | 41.5 | 20 years old | 14.0 | 32.0 | 12.0 | 27.0 |

ALT (GPT) (U/L)

| Age | Male | | Female | | Age | Male | | Female | |
|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|
| | Lower limit | Upper limit | Lower limit | Upper limit | | Lower limit | Upper limit | Lower limit | Upper limit |
| At birth | 11.0 | 45.0 | 11.0 | 45.0 | 5 years old | 9.0 | 28.0 | 9.0 | 27.0 |
| 1 month | 11.7 | 50.0 | 11.7 | 50.0 | 6 years old | 9.0 | 28.0 | 9.0 | 27.0 |
| 2 months | 12.5 | 54.5 | 12.5 | 54.5 | 7 years old | 9.0 | 28.0 | 9.0 | 27.0 |
| 3 months | 13.0 | 56.0 | 13.0 | 56.0 | 8 years old | 9.0 | 28.5 | 9.0 | 27.0 |
| 4 months | 13.0 | 56.0 | 13.0 | 56.0 | 9 years old | 9.0 | 29.0 | 9.0 | 27.0 |
| 5 months | 12.9 | 55.5 | 12.9 | 55.5 | 10 years old | 9.0 | 30.0 | 9.0 | 27.0 |
| 6 months | 12.5 | 54.5 | 12.5 | 54.5 | 11 years old | 9.0 | 31.0 | 9.0 | 27.5 |
| 7 months | 12.3 | 53.0 | 12.3 | 53.0 | 12 years old | 9.0 | 32.0 | 9.0 | 28.0 |
| 8 months | 12.0 | 50.5 | 12.0 | 50.5 | 13 years old | 9.0 | 33.0 | 9.0 | 28.0 |
| 9 months | 11.5 | 48.0 | 11.5 | 48.0 | 14 years old | 9.0 | 34.0 | 9.0 | 28.5 |
| 10 months | 10.5 | 45.0 | 10.5 | 45.0 | 15 years old | 9.0 | 35.0 | 9.0 | 29.0 |
| 11 months | 9.5 | 42.0 | 9.5 | 42.0 | 16 years old | 9.0 | 36.0 | 9.0 | 29.5 |
| 1 year old | 9.4 | 38.4 | 9.4 | 38.4 | 17 years old | 9.0 | 37.0 | 9.0 | 30.0 |
| 2 years old | 9.0 | 34.0 | 9.0 | 34.0 | 18 years old | 9.0 | 38.0 | 9.0 | 30.5 |
| 3 years old | 9.0 | 30.0 | 9.0 | 30.0 | 19 years old | 9.0 | 39.0 | 9.0 | 31.0 |
| 4 years old | 9.0 | 28.0 | 9.0 | 28.0 | 20 years old | 9.0 | 41.0 | 9.0 | 32.0 |

γ -GT(U/L)

| | Males | Females |
|-------------------------------|--|---------|
| Adults | 0-50 | 0-30 |
| From children to young adults | γ -GT levels normally reach adult values 5 to 6 months after birth. | |
| Newborns | 5 to 6 times the normal upper limit | |

Source: Clinical Management of Laboratory Data in Pediatrics (3rd edition)

Lipids: LDL Cholesterol, Triglycerides, HDL Cholesterol

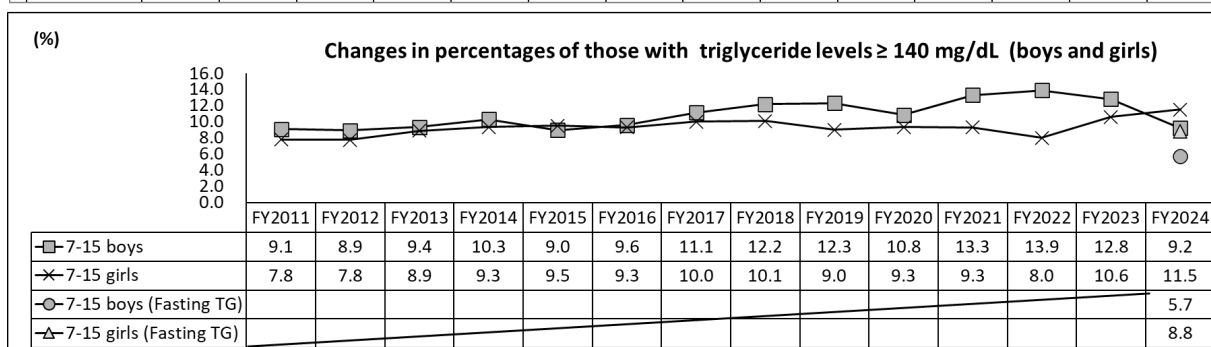
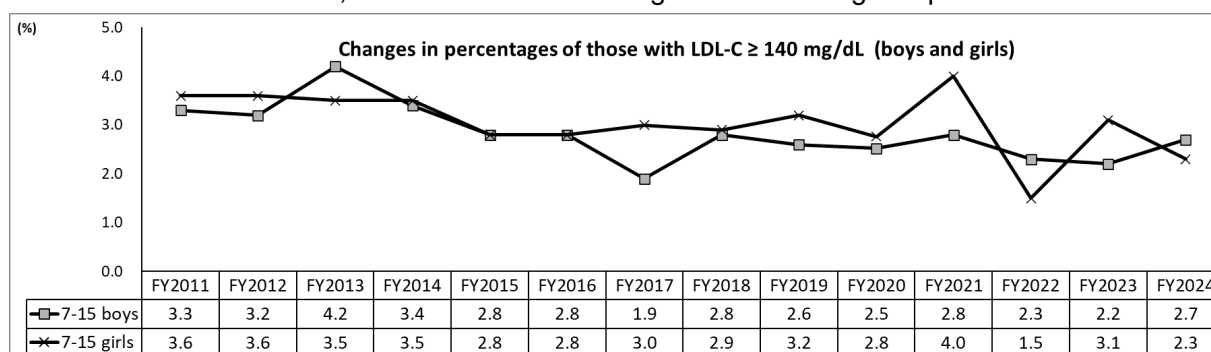
1. Results

The proportion of both boys and girls with LDL-C levels of 140 mg/dL or higher showed no particular trends.

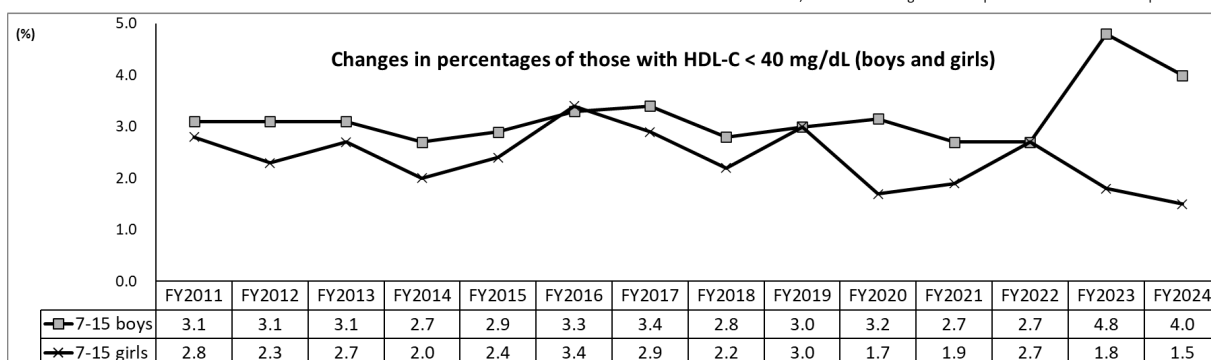
Among boys, the proportion with triglyceride levels ≥ 140 mg/dL in non-fasting blood samples* had shown a gradual increasing trend, although a decline was observed in FY2024. Among girls, an increasing trend was observed beginning in FY2023. Triglyceride levels in fasting blood samples tended to be higher among girls than boys.

The proportion with HDL-C levels < 40 mg/dL increased among boys in FY2023 and 2024, but no consistent trend was observed among girls.

* Non-fasting blood samples were defined as samples collected regardless of the interval between food intake and blood collection, and included both fasting and non-fasting samples.



* From FY2024, results for fasting blood samples alone have also been presented.



2. Explanation of the Graphs

Determination of hyperlipidemia was based on the following reference intervals.

3. Reference intervals for diagnosing hyperlipidemia in children

(age 15 and younger, fasting blood samples)

| | |
|-------------------------|--------------------|
| LDL cholesterol (LDL-C) | ≥ 140 mg / dL |
| Triglycerides (TG) | ≥ 140 mg / dL |
| HDL cholesterol (HDL-C) | < 40 mg / dL |

Source: Japan Atherosclerosis Society (JAS) Guidelines for Prevention of Atherosclerotic Cardiovascular Diseases 2022

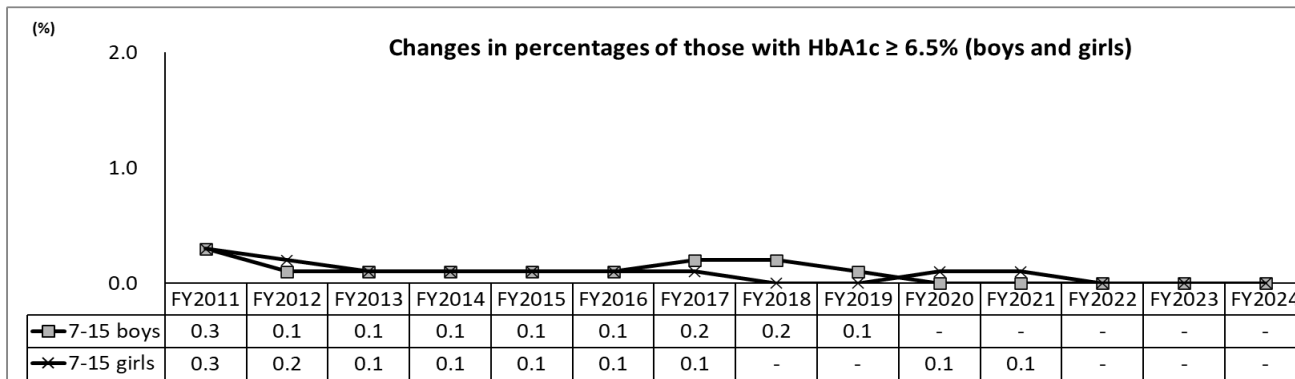
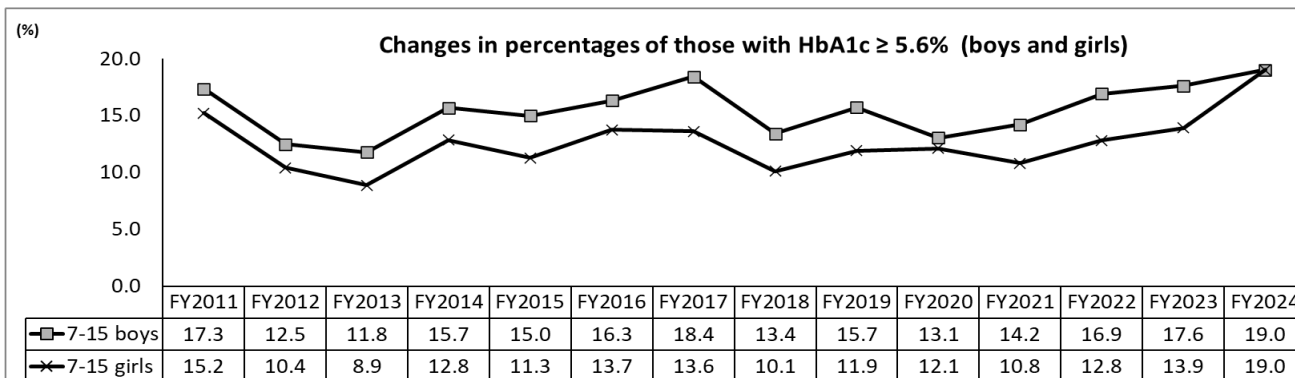
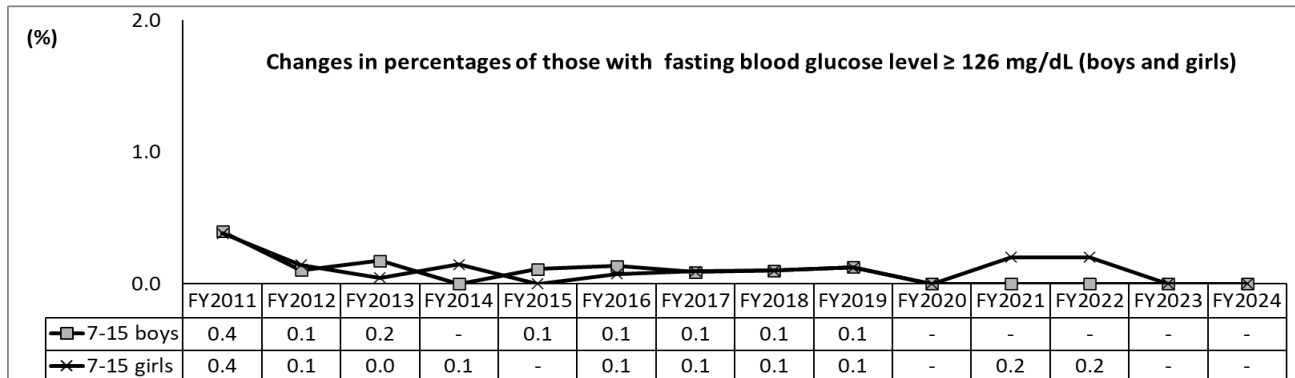
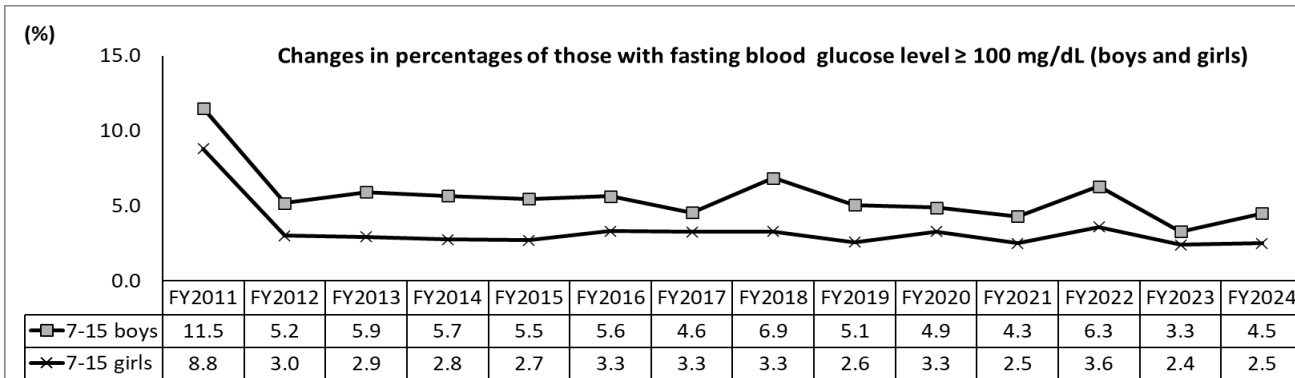
Blood Glucose: Fasting Blood Glucose, HbA1c

1. Results

Both for boys and girls, the percentages of those whose fasting blood glucose level was 100 mg/dL or over hit a peak in FY2011, decreased through FY2012, and maintained almost the same levels thereafter. There were no substantial changes in the percentage of those with fasting blood glucose levels of 126 mg/dL or over for either boys or girls.

The percentage of those with HbA1c levels of 5.6% or over showed a slight increasing trend among boys from FY2021 onward and among girls from FY2022 onward.

There were also no substantial differences in the percentages of those whose HbA1c level was 6.5% or over between boys and girls, and the percentages remained unchanged for boys and girls.



2. Explanation of the Graphs

Determinations of the existence of a high blood glucose level (fasting blood glucose level of 100 mg/dL or over and HbA1c level of 5.6% or over) and diabetes (fasting blood glucose level of 126 mg/dL or over and HbA1c level of 6.5% or over) were based on the following reference intervals, applicable to children and adults.

3. Reference Intervals

Classification and diagnostic criteria based on glucose levels after fasting and with a 75g oral glucose tolerance test (OGTT)

| | Measurement time | | | Classification |
|-------------------------------------|--|---------|----------------------|----------------|
| | Fasting | | 2-hours postprandial | |
| Blood glucose (venous plasma level) | 126 mg/dL or over | ◀ or ▶ | 200 mg/dL or over | Diabetes |
| | Intermediate values, neither diabetic nor normal | | | Borderline |
| | Less than 110 mg/dL | ◀ and ▶ | Less than 140 mg/dL | Normal |

- (i) Early morning fasting blood glucose level: 126 mg/dL or over
- (ii) Blood glucose after 2 hours in a 75g OGTT: 200 mg/dL or over
- (iii) Casual blood glucose level: 200 mg/dL or over
- (iv) HbA1c level: 6.5% or over

Blood glucose levels matching any of (i) to (iv) are diagnostic of diabetes.

- (v) Early morning fasting blood glucose level: less than 110 mg/dL
- (vi) Blood glucose after 2 hours in a 75g OGTT: less than 140 mg/dL

Blood glucose levels matching (v) and (vi) rule out a diagnosis of diabetes.

- Intermediate blood glucose values indicate a “borderline” condition that is neither diabetic nor normal.

*Source: "Treatment Guide for Diabetes 2024"

*In this report, based on the “Epidemiological study: To estimate the frequency of diabetes mellitus,” ‘diabetes mellitus’ can be substituted for the determination of ‘diabetic type’ from a single examination. In this case, HbA1c of 6.5% (JDS HbA1c $\geq 6.1\%$) alone can be diagnostic of diabetes mellitus. Source: Report of the Committee on the classification and diagnostic criteria of diabetes mellitus 2012 (by JDS, the Japan Diabetes Society) ‘diabetic type’ is deemed ‘diabetes mellitus.’

Criteria for conducting a detailed health check (additional check items based on a doctor's judgment)

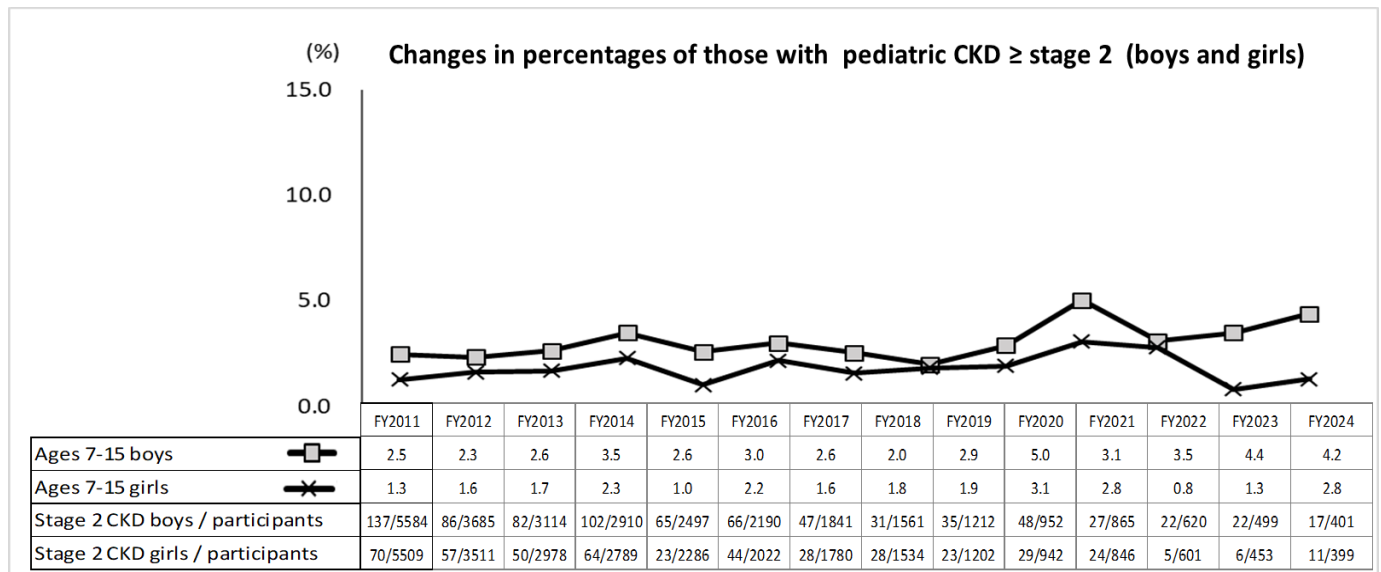
| | |
|---------------------|---|
| Blood glucose level | Fasting blood glucose level of 100 mg/dL or over and HbA1c level (NGSP level) of 5.6% or over, or casual blood glucose level of 100 mg/dL or over |
|---------------------|---|

Source: "Guidelines for Smooth Implementation of Specified Health Checkups and Health Guidance (4.2 Edition) 2025" by the Ministry of Health, Labour and Welfare

Renal Function: Serum Creatinine

1. Results

The percentage of children having stage 2 or higher chronic kidney disease showed no particular trend for either boys or girls.



2. Explanation of the Graph

The graph shows the percentages of children who were diagnosed as having stage 2 or higher chronic kidney disease, based on their serum creatinine levels and the following reference intervals.

3. Reference Intervals

Table for determining chronic kidney disease (CKD) stages based on serum creatinine levels (mg/dL)

| Age | Stage 2 | Stage 3 | Stage 4 | Stage 5 |
|-----|---------|---------|---------|---------|
| 7 | 0.50- | 0.75- | 1.49- | 2.97- |
| 8 | 0.54- | 0.81- | 1.61- | 3.21- |
| 9 | 0.55- | 0.83- | 1.65- | 3.29- |
| 10 | 0.55- | 0.83- | 1.65- | 3.29- |
| 11 | 0.61- | 0.91- | 1.81- | 3.61- |

| Age | Stage 2 | | Stage 3 | | Stage 4 | | Stage 5 | |
|-----|---------|-------|---------|-------|---------|-------|---------|-------|
| | Boys | Girls | Boys | Girls | Boys | Girls | Boys | Girls |
| 12 | 0.71- | 0.70- | 1.07- | 1.05- | 2.13- | 2.09- | 4.25- | 4.17- |
| 13 | 0.79- | 0.71- | 1.19- | 1.07- | 2.37- | 2.13- | 4.73- | 4.25- |
| 14 | 0.87- | 0.78- | 1.31- | 1.17- | 2.61- | 2.33- | 5.21- | 4.65- |
| 15 | 0.91- | 0.75- | 1.37- | 1.13- | 2.73- | 2.25- | 5.45- | 4.49- |

Source: "Child Chronic Kidney Disease: Guidelines for Renal Impairment Diagnosis and Renal Function Assessment for Children" (2019) by the Guidelines Editorial Board

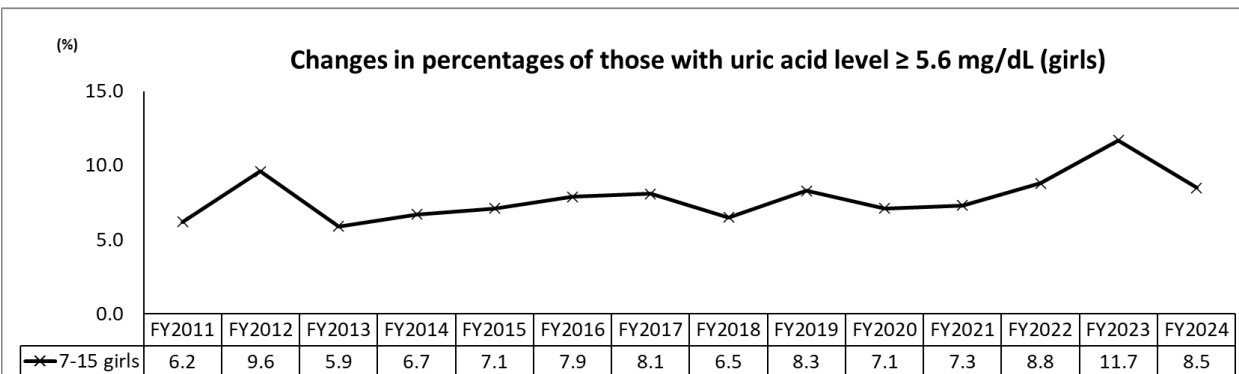
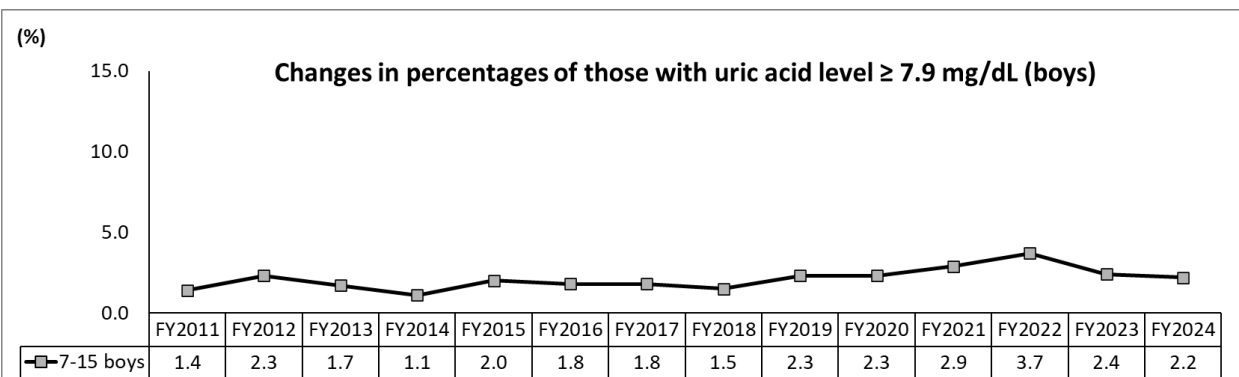
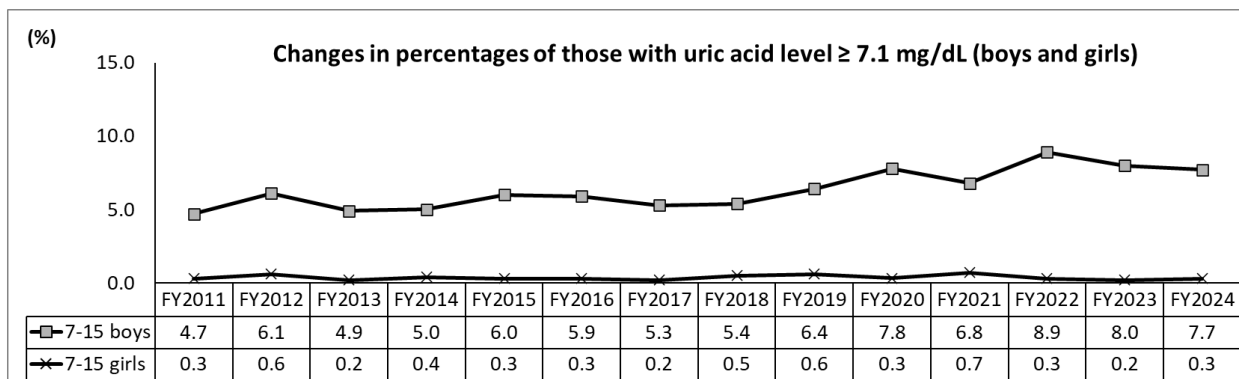
Renal Function: Uric Acid

1. Results

The proportion of boys with uric acid levels ≥ 7.1 mg/dL showed a slight increase from FY2011 to FY2022, followed by a stable trend thereafter. No marked change was observed in the proportion of girls with uric acid levels ≥ 7.1 mg/dL.

The proportion of boys with uric acid levels ≥ 7.9 mg/dL showed a slight increase from FY2011 to FY2022, followed by a decreasing trend beginning in FY2023.

Among girls, the proportion with uric acid levels ≥ 5.6 mg/dL showed an increasing trend from FY2022 onward, although a slight decrease was observed in FY2024.



2. Explanation of the Graphs

Determination of hyperuricemia was based on the following reference intervals.

3. Reference Intervals

| | |
|--|--|
| Definition of hyperuricemia in the "Guidelines for the Management of Hyperuricemia and Gout" by the Japanese Society of Gout and Uric & Nucleic Acids. | Uric acid: 7.1 mg/dL or higher |
| Values exceeding the upper limits of the common reference intervals established by the Japanese Committee for Clinical Laboratory Standards | Uric acid Boys: 7.9 mg/dL or higher Girls: 5.6 mg/dL or higher |

Report on the Results of the FY2024 Comprehensive Health Check Fukushima Health Management Survey (Participants Aged 16 or Older)

< Supplementary Notes >

- * Participants aged 16 or older were divided into three age groups: 16 to 39 years, 40 to 64 years, and 65 years or older, with results compiled and shown accordingly.
- * Because individuals shift from one age group to another, year-by-year comparisons are difficult, and definitive conclusions cannot be drawn.

[Reference: red blood cell count trend by average age]

| Age Group | FY2011 | FY2012 | FY2013 | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 | FY2019 | FY2020 | FY2021 | FY2022 | FY2023 | FY2024 |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 16 - 39 | 28.1 | 28.6 | 29.0 | 29.0 | 29.2 | 29.2 | 29.2 | 29.1 | 29.4 | 28.9 | 28.9 | 29.2 | 29.3 | 29.3 |
| 40 - 64 | 54.0 | 54.9 | 55.3 | 55.1 | 55.0 | 55.1 | 55.1 | 55.0 | 55.1 | 54.8 | 54.7 | 54.7 | 54.5 | 54.4 |
| 65 and older | 73.7 | 73.5 | 73.5 | 73.3 | 73.3 | 73.3 | 73.3 | 73.4 | 73.4 | 73.7 | 73.8 | 74.0 | 74.2 | 74.4 |

- * Rules for describing tabulation results are the same as those used for Vital Statistics in Japan by the Ministry of Health, Labour and Welfare.

When there is no data: -

When the ratio is minor (lower than 0.05): 0.0%

- * Reference materials

FY2011 to FY2014: Material 3-2 "Basic Statistics of CHC Results by Health Check Item" for the 21st Prefectural Oversight Committee Meeting for the Fukushima Health Management Survey

FY2015: Material 3-2 "Basic Statistics of CHC Results by Health Check Item" for the 26th Prefectural Oversight Committee Meeting for the Fukushima Health Management Survey

FY2016: Material 2-3 "Basic Statistics of CHC Results by Health Check Item" for the 30th Prefectural Oversight Committee Meeting for the Fukushima Health Management Survey

FY2017: Material 2-3 "Basic Statistics of CHC Results by Health Check Item" for the 34th Prefectural Oversight Committee Meeting for the Fukushima Health Management Survey

FY2018: Material 4-4 "Tabulation Results by Health Check Item" for the 37th Prefectural Oversight Committee Meeting for the Fukushima Health Management Survey

FY2019: Material 3-4 "Tabulation Results by Health Check Item" for the 41st Prefectural Oversight Committee Meeting for the Fukushima Health Management Survey

FY2020: Material 4-4 "Tabulation Results by Health Check Item" for the 44th Prefectural Oversight Committee Meeting for the Fukushima Health Management Survey

FY2021: Material 4-4 "Tabulation Results by Health Check Item" for the 48th Prefectural Oversight Committee Meeting for the Fukushima Health Management Survey

FY2022: Material 1-5 "Tabulation Results by Health Check Item" for the 50th Prefectural Oversight Committee Meeting for the Fukushima Health Management Survey

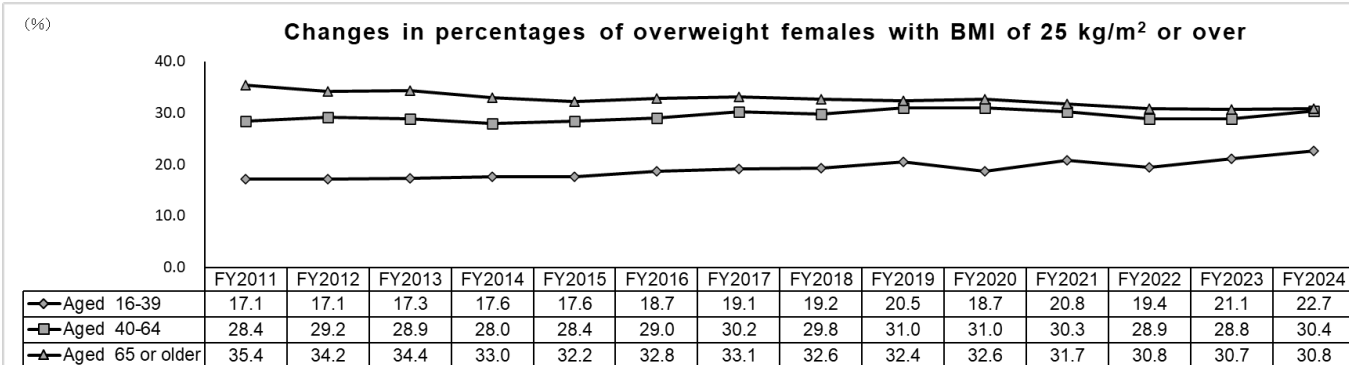
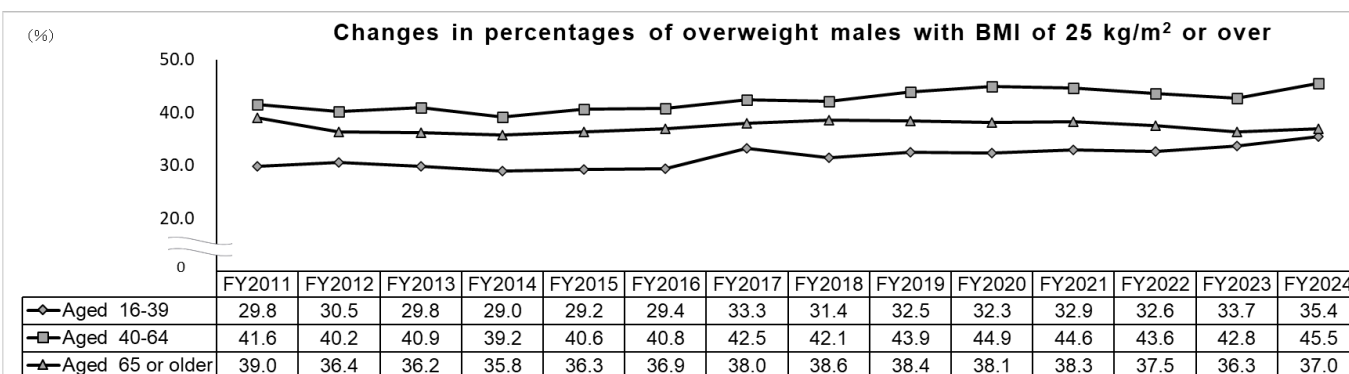
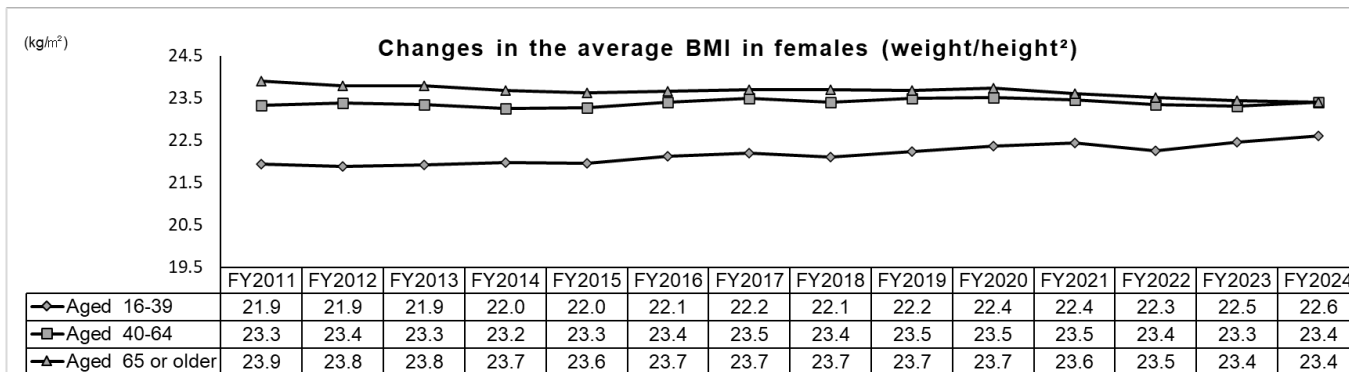
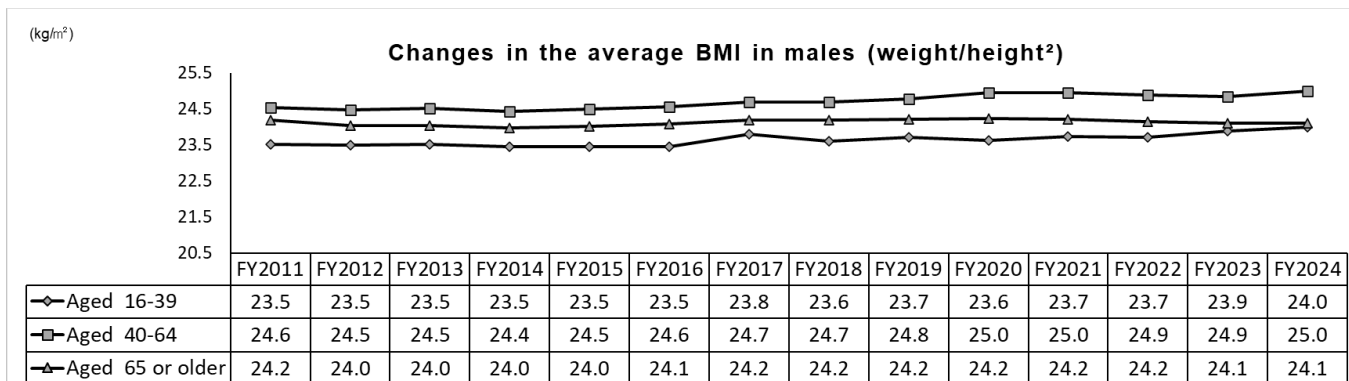
FY2023: Material 1-4 "Tabulation Results by Health Check Item" for the 54th Prefectural Oversight Committee Meeting for the Fukushima Health Management Survey

Physical Exam: BMI

1. Results

Among males, the proportion with a BMI ≥ 25 kg/m² showed an increasing trend from FY2023 among those aged 16–39 years, and an increasing trend was observed in FY2024 among those aged 40–64 years. No marked changes were observed among those aged 65 years and older.

Among females, the proportion with a BMI ≥ 25 kg/m² showed an increasing trend from FY2023 among those aged 16–39 years. No marked changes were observed among those aged 40–64 years. Among those aged 65 years and older, a slight decreasing trend was observed from FY2011 to FY2022, and no marked changes were observed thereafter.



2. Explanation of the Graphs

BMI was calculated from measured height and weight, and individuals with a BMI of 25 kg/m² or higher were classified as obese.

$$\text{BMI} = \text{Weight (kg)} / \text{Height (m)} / \text{Height (m)}$$

3. Reference Intervals and Action Thresholds

Degrees of obesity

| BMI (kg/m ²) | Classification | | WHO standards |
|--------------------------|-----------------|-----------------|-----------------|
| BMI < 18.5 | Underweight | | Underweight |
| 18.5 ≤ BMI < 25 | Normal weight | | Normal range |
| 25 ≤ BMI < 30 | Obese (level 1) | | Pre-obese |
| 30 ≤ BMI < 35 | Obese (level 2) | | Obese class I |
| 35 ≤ BMI < 40 | Severe obesity | Obese (level 3) | Obese class II |
| 40 ≤ BMI | | Obese (level 4) | Obese class III |

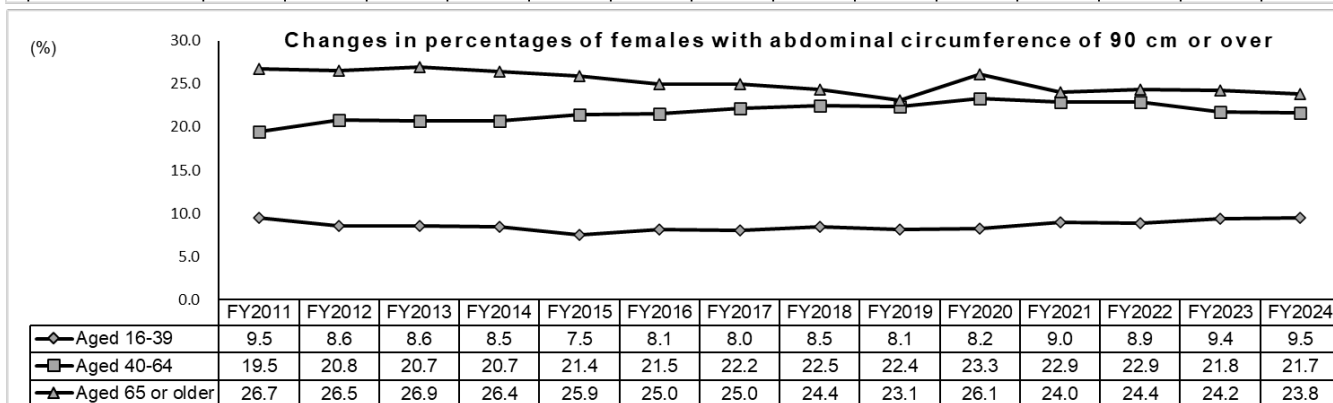
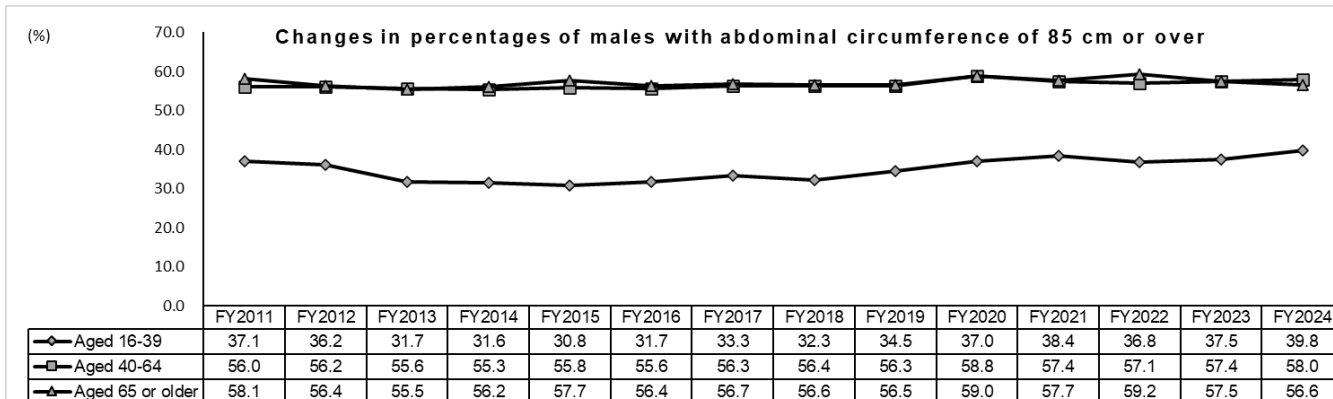
*Source: "Guidelines for the Management of Obesity Disease 2022" by the Japan Society for the Study of Obesity

Physical Exam: Abdominal Circumference

1. Results

The percentage of males with an abdominal circumference of 85.0 cm or over decreased among those aged 16 to 39 from FY2011 to FY2015, but showed a slight upward trend through FY2024.

The percentage of females with an abdominal circumference of 90.0 cm or over increased among those aged 40 to 64 from FY2011 to FY2020, but decreased thereafter.



2. Explanation of the Graphs

Waist circumference (abdominal circumference), which is one of the diagnostic criteria for metabolic syndrome, was evaluated using the following reference intervals.

3. Reference Intervals

Diagnostic criteria for metabolic syndrome

Visceral fat (intra-abdominal fat) accumulation

Waist circumference Males \geq 85 cm
 Females \geq 90 cm

(Visceral fat area: Equivalent to \geq 100 cm² for both males and females)

Two or more of the following, in addition to the above

Hypertriglyceridemia \geq 150 mg/dL
 and/or

Hypo-HDL cholesterolemia $<$ 40 mg/dL for both males and females

Systolic blood pressure \geq 130 mmHg
 and/or

Diastolic blood pressure \geq 85 mmHg

Fasting hyperglycemia \geq 110 mg/dL

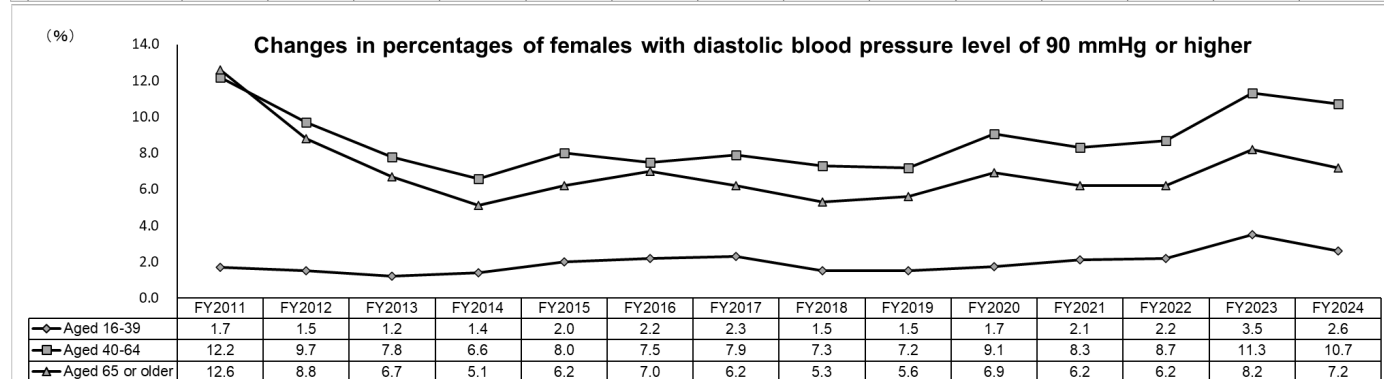
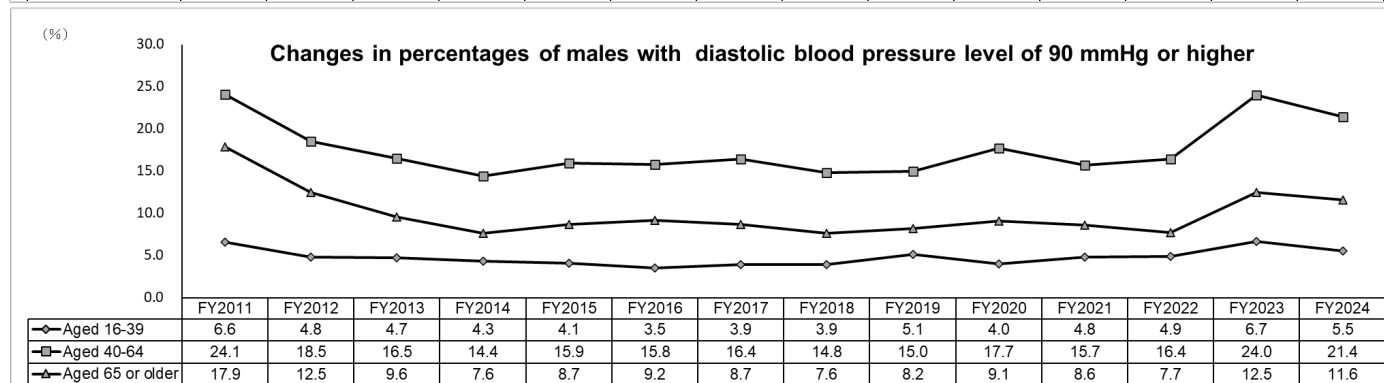
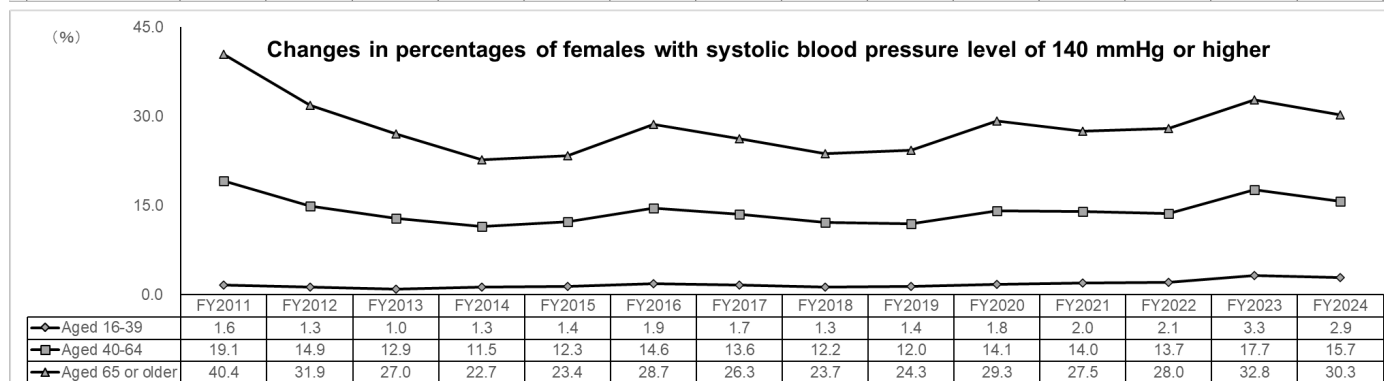
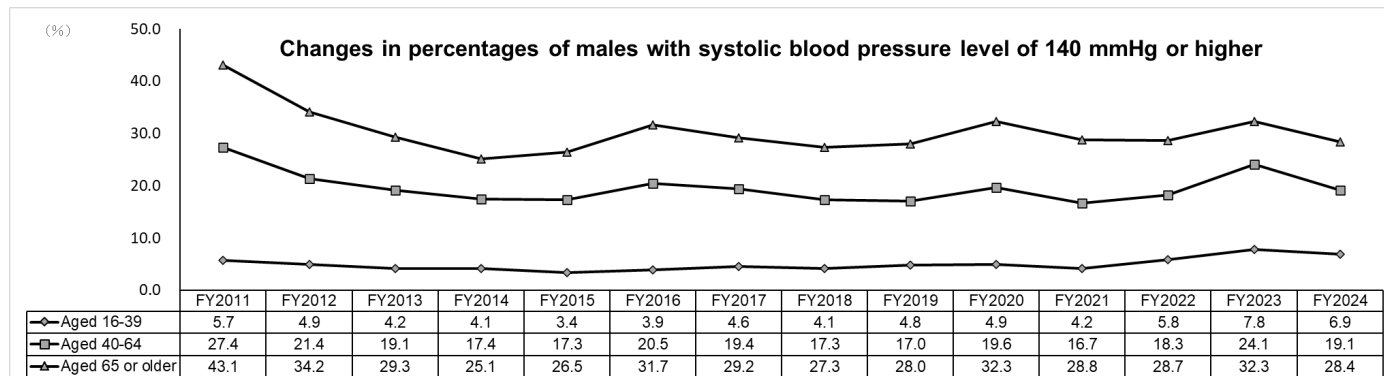
*Source: "Definition and Diagnostic Criteria for Metabolic Syndrome (2005)"
 by the Metabolic Syndrome Diagnostic Standards Review Committee

Physical Exam: Blood Pressure

1. Results

The percentage of those with systolic blood pressure levels of 140 mmHg or higher decreased both among males and females aged 40 or older from FY2011 to FY2014, and showed no particular trends thereafter.

The percentage of those with diastolic blood pressure levels of 90 mmHg or higher decreased among both males and females aged 40 or older from FY2011 to FY2014, and showed no substantial changes thereafter.



2. Explanation of the Graphs

Determinations of systolic hypertension and diastolic hypertension were based on the following reference intervals.

3. Reference Intervals

Classification of adults' blood pressure levels

| Classification | Office blood pressure (mmHg) | | Home blood pressure (mmHg) | |
|----------------------------------|------------------------------|----------------|----------------------------|--------------|
| | Systolic BP | Diastolic BP | Systolic BP | Diastolic BP |
| Normal BP | < 120 | and < 80 | < 115 | and < 75 |
| High normal BP | 120–129 | and < 80 | 115–124 | and < 75 |
| High BP | 130–139 | and/or 80–89 | 125–134 | and/or 75–84 |
| Level 1 hypertension | 140–159 | and/or 90–99 | 135–144 | and/or 85–89 |
| Level 2 hypertension | 160–179 | and/or 100–109 | 145–159 | and/or 90–99 |
| Level 3 hypertension | ≥ 180 | and/or ≥ 110 | ≥ 160 | and/or ≥ 100 |
| (Isolated) systolic hypertension | ≥ 140 | and < 90 | ≥ 135 | and < 85 |

Source: "Guidelines for the Management and Treatment of Hypertension 2025"
by the Japanese Society of Hypertension

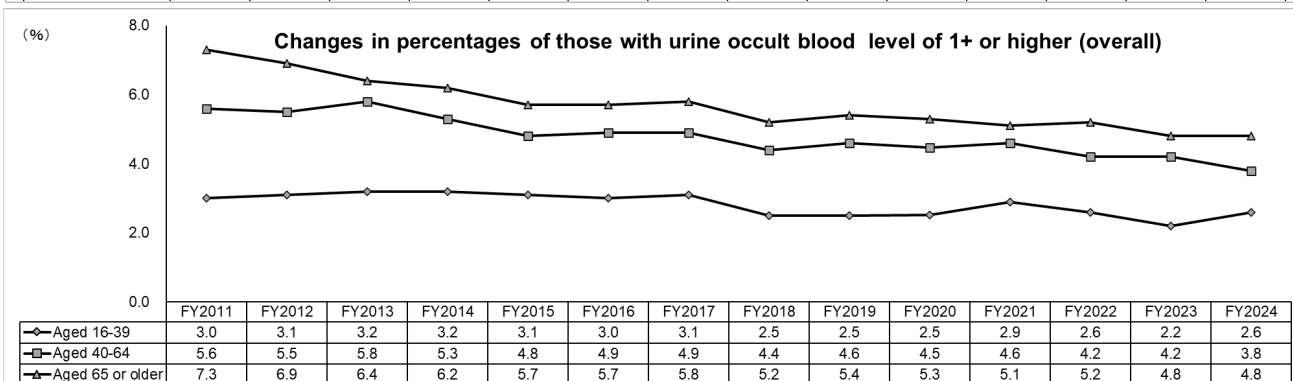
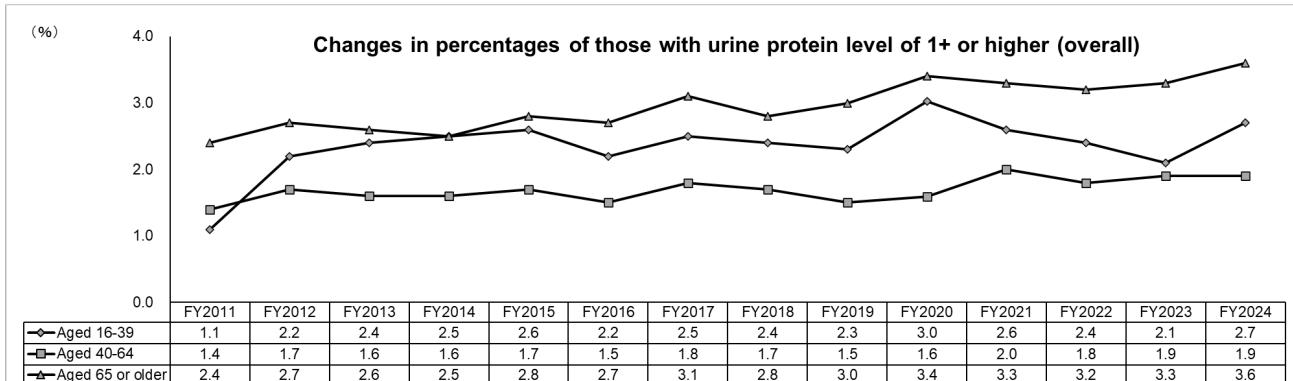
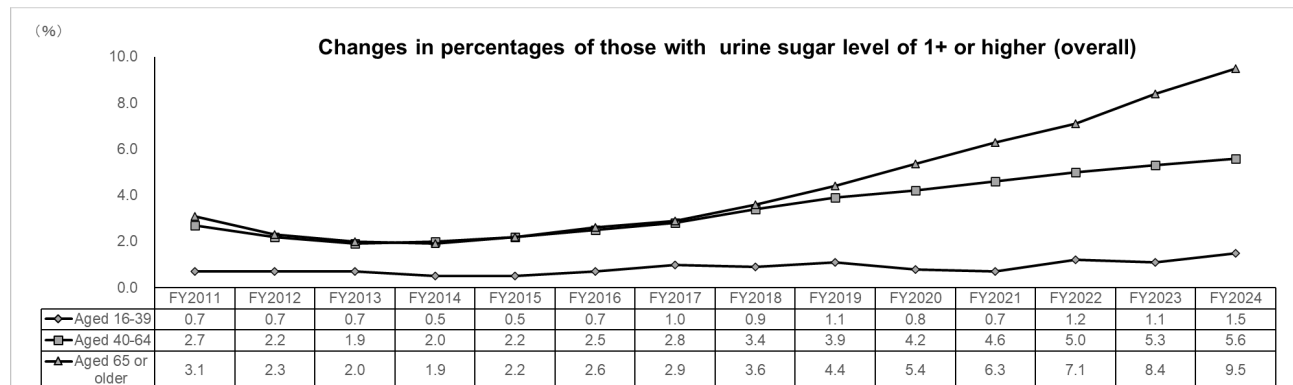
Urine Tests: Urine Sugar, Urine Protein, Urine Occult Blood

1. Results

The percentage of those with a urine sugar level of 1+ or higher showed an upward trend among those aged 40 or older from FY2015.

The percentage of those with a urine protein level of 1+ or higher gradually increased among those aged 65 or older.

The percentage of those with a urine occult blood level of 1+ or higher decreased among those aged 65 or older from FY2011 to FY2023.



*(+1) or over and excluding those on their period

2. Explanation of the Graphs

Determination of the existence of abnormalities in urine test results was based on the following reference intervals.

3. Screening Values (Diagnostic criteria used for group and individual health checks)

| Item \ Diagnosis | Expected | Action Threshold | Abnormality |
|------------------|----------|------------------|---------------|
| Urine sugar | (-) | (±) | (+) or higher |
| Urine protein | (-) | (±) | (+) or higher |
| Occult blood | (-) | (±) | (+) or higher |

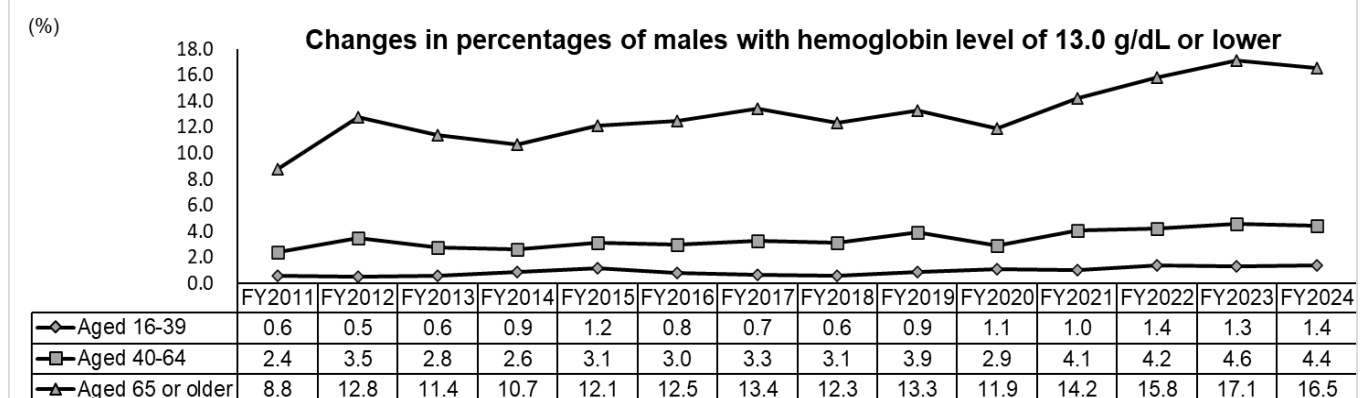
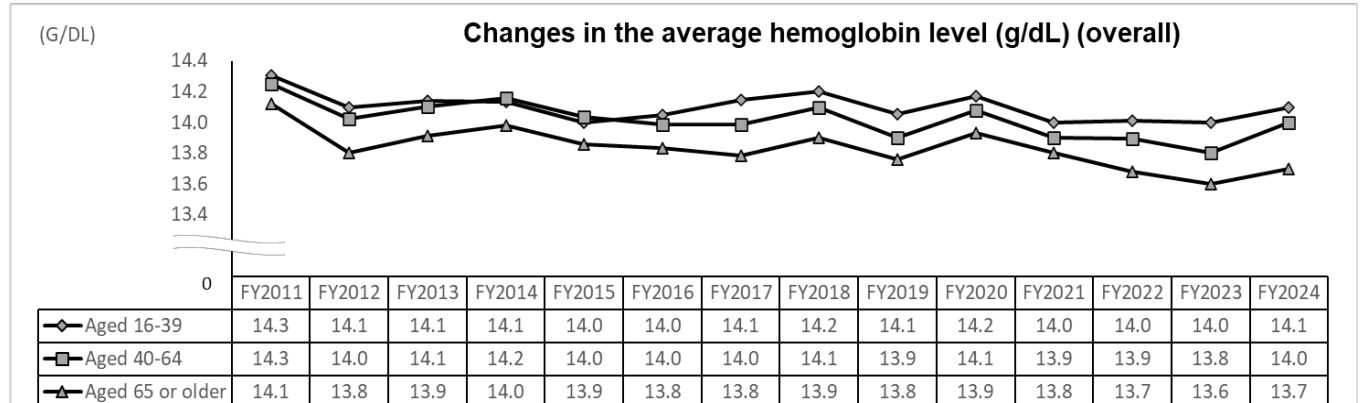
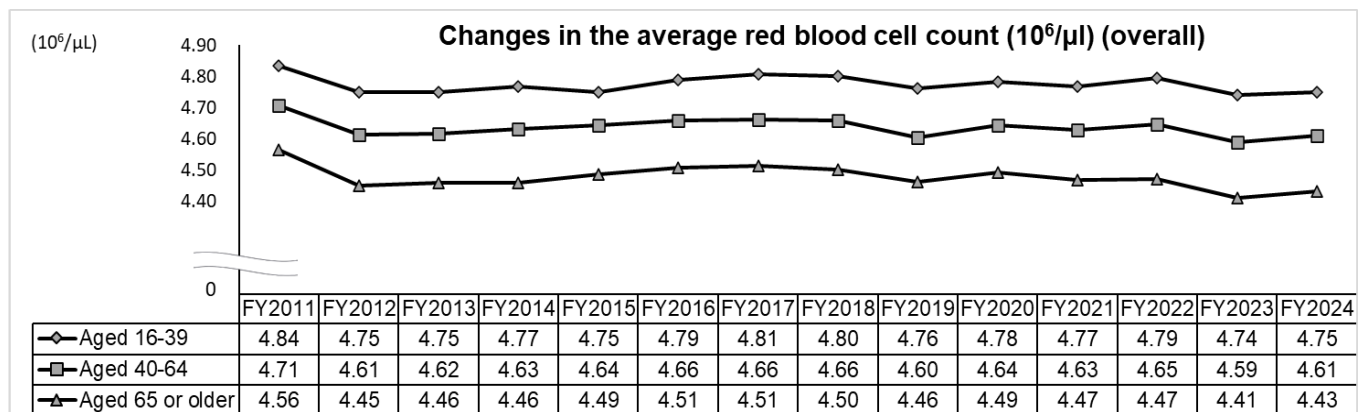
Peripheral Blood Tests: Red Blood Cells, Hemoglobin, Hematocrit

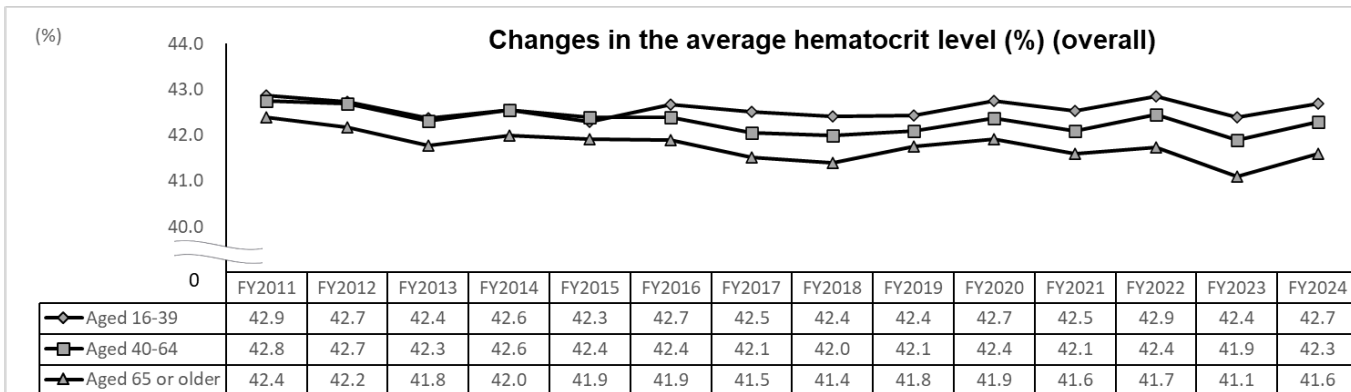
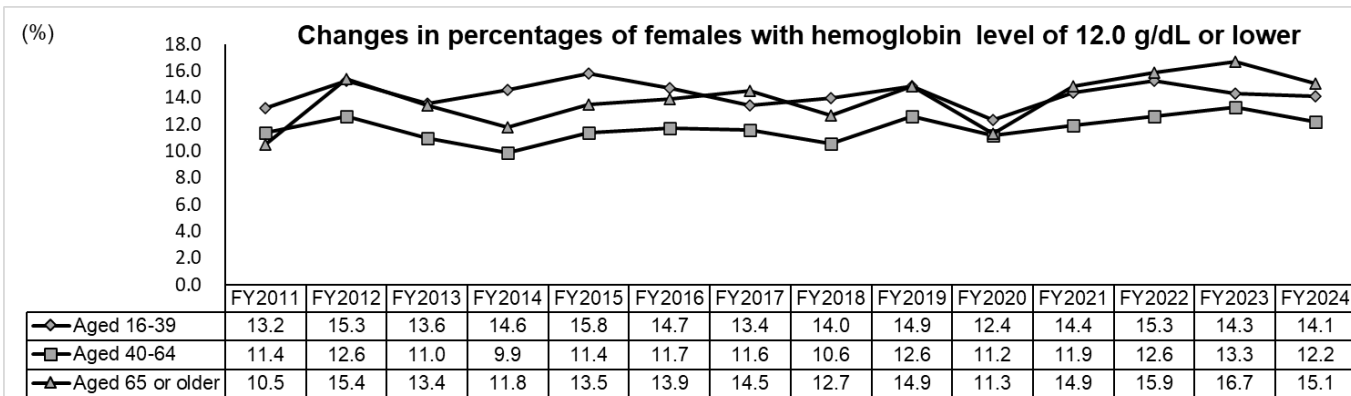
1. Results

The average red blood cell count and the average hemoglobin level decreased for all age groups from FY2011 to FY2012, but without substantial changes.

The percentage of males with hemoglobin levels of 13.0 g/dL or lower increased among those aged 65 or older from FY2011 to FY2012 and showed no sign of a trend thereafter, but has increased since FY2021. In addition, the proportion was consistently higher among those aged 65 years and older than among those aged 64 years and younger across all fiscal years. The proportion of females with hemoglobin levels ≤ 12.0 g/dL increased among those aged 65 years and older from FY2011 to FY2012, after which no consistent trend was observed. Also, no marked differences were observed in any age group.

No marked changes were observed in the average hematocrit levels across all age groups.





2. Explanation of the Graphs

The graphs show changes in average values of red blood cell counts, hemoglobin, and hematocrit. The WHO standards for anemia are 13.0 g/dL or lower for males and 12.0 g/dL or lower for females.

3. Reference Intervals

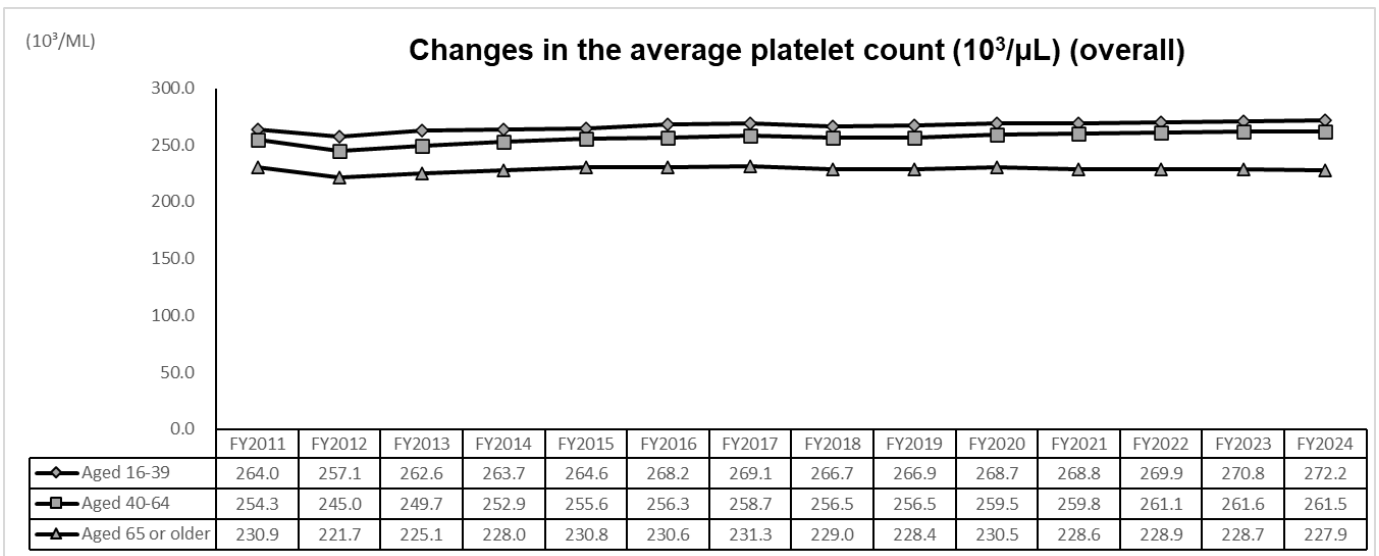
| Item | Unit | | Lower reference limit | Upper reference limit |
|----------------------|---------------------|--------|-----------------------|-----------------------|
| Red blood cell count | 10 ⁶ /μL | Male | 4.35 | 5.55 |
| | | Female | 3.86 | 4.92 |
| Hemoglobin | g/dL | Male | 13.7 | 16.8 |
| | | Female | 11.6 | 14.8 |
| Hematocrit | % | Male | 40.7 | 50.1 |
| | | Female | 35.1 | 44.4 |

Source: “Guidelines for Clinical Laboratory Tests 2024” (JSLM2024) by the Japanese Society of Laboratory Medicine

Peripheral Blood Test: Platelet Counts

1. Results

There were no substantial changes in the average platelet count in any age group.



2. Explanation of the Graph

The graph shows changes in the average values of platelet counts.

3. Reference Intervals and Action Thresholds (diagnostic criteria used for group and individual health checks)

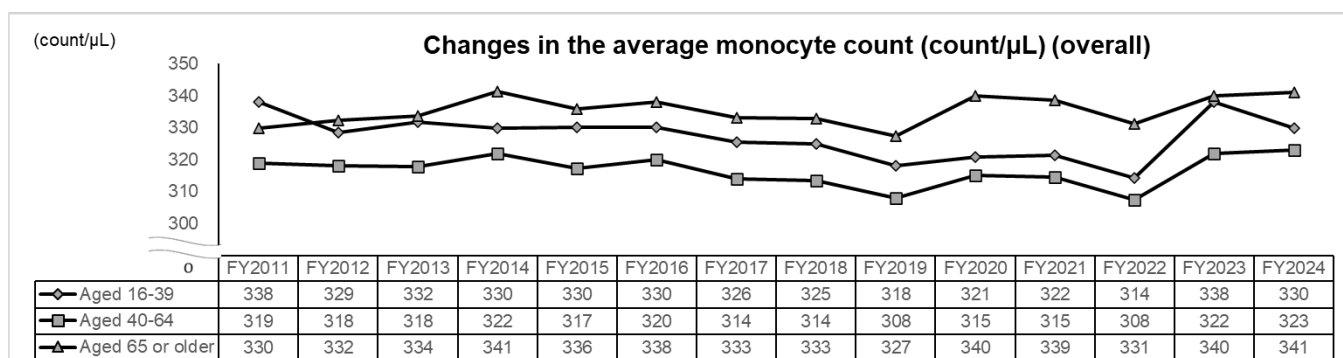
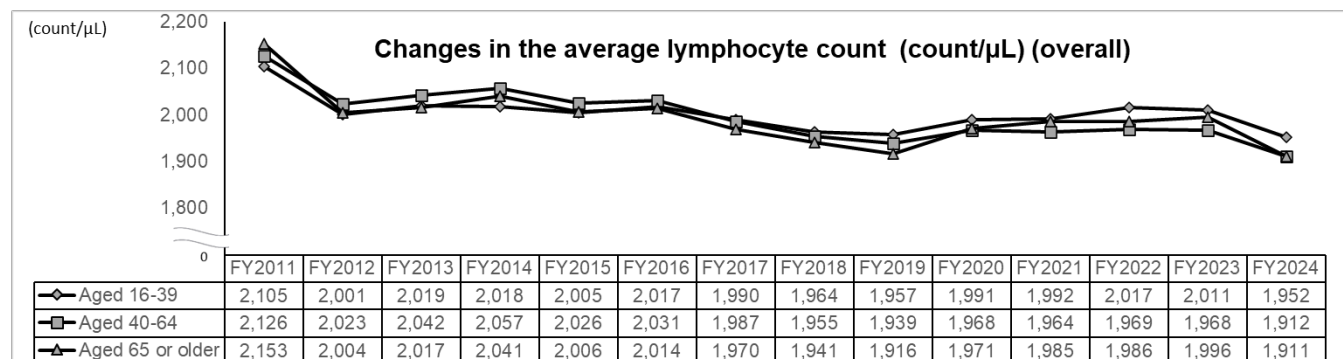
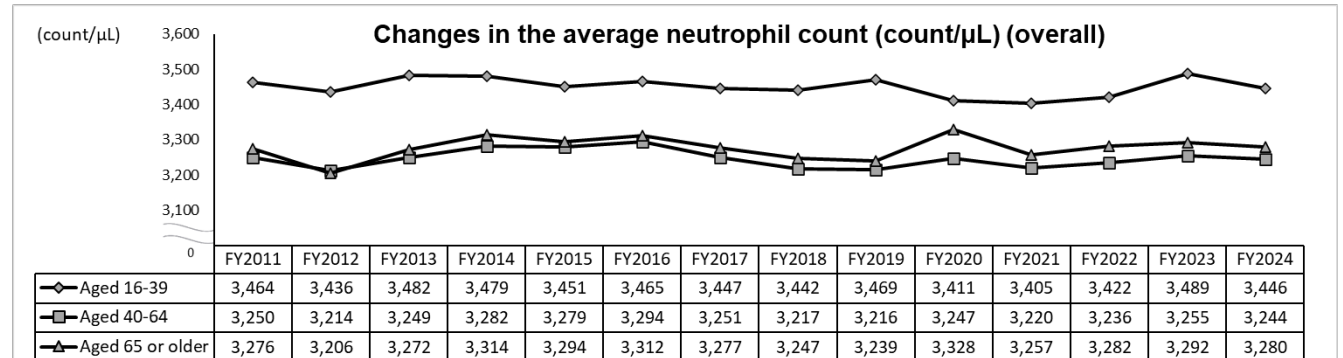
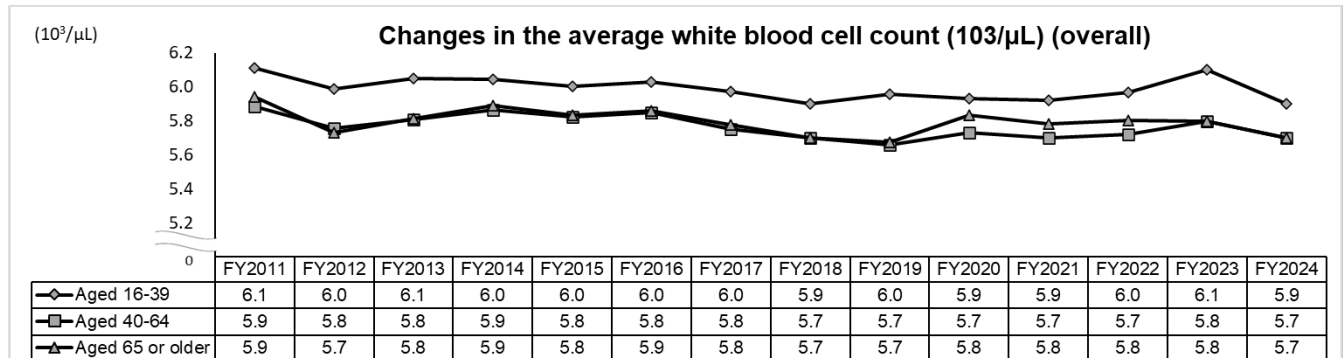
| Diagnosis Item | Reference Interval | Action Thresholds | | Abnormality | | Units |
|---------------------------|--------------------|-------------------|---------|-------------|---------------|----------------------|
| Number of blood platelets | 130–369 | 90–129 | 370–449 | 89 or lower | 450 or higher | ×10 ³ /μL |

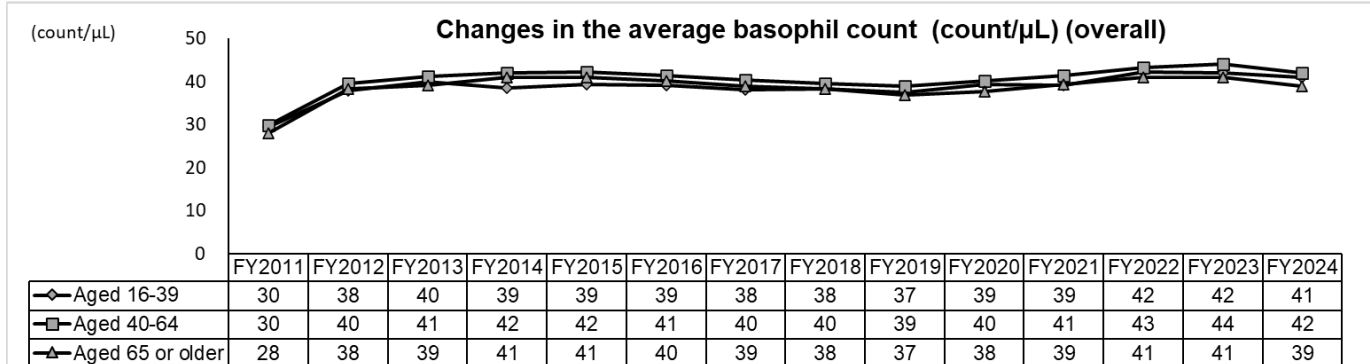
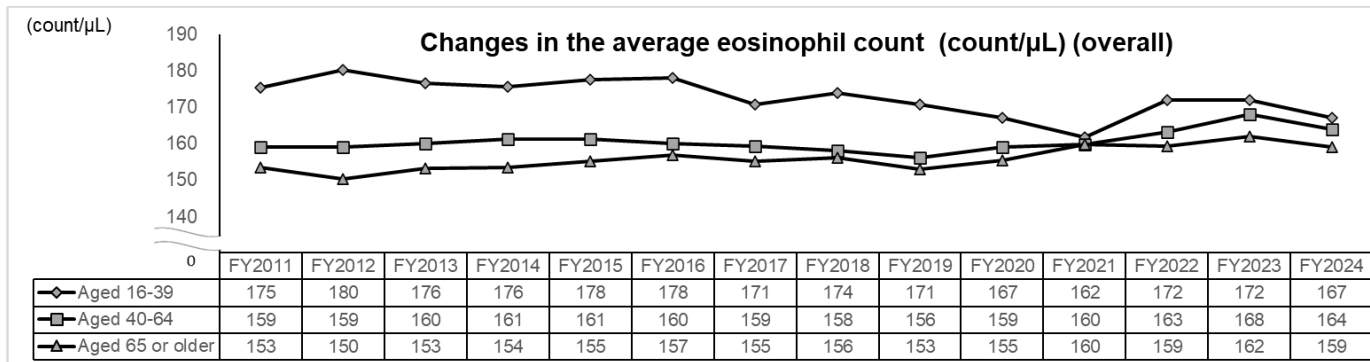
Peripheral Blood Tests: White Blood Cell Counts and Differentials

1. Results

There were no substantial changes in the average white blood cell count in any age group.

For white blood cell differentials, the average neutrophil, monocyte, eosinophil, and basophil counts showed no consistent trends across all age groups. In contrast, the mean lymphocyte count showed a decreasing trend in FY2024 across all age groups.





2. Explanation of the Graphs

The graphs show changes in average values of white blood cell counts and differentials.

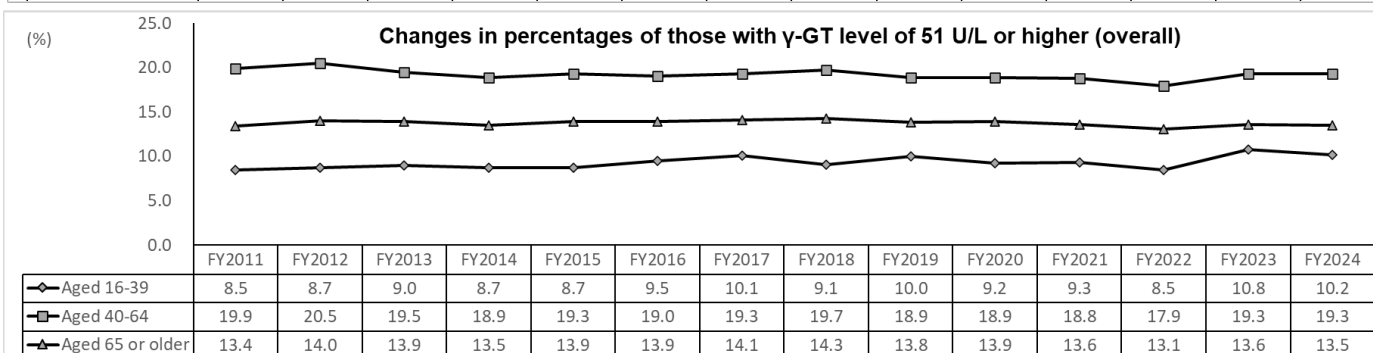
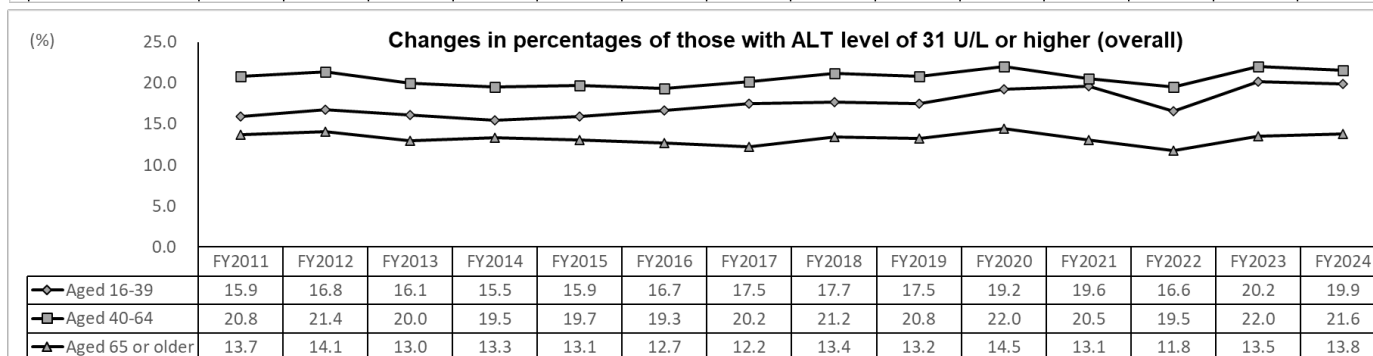
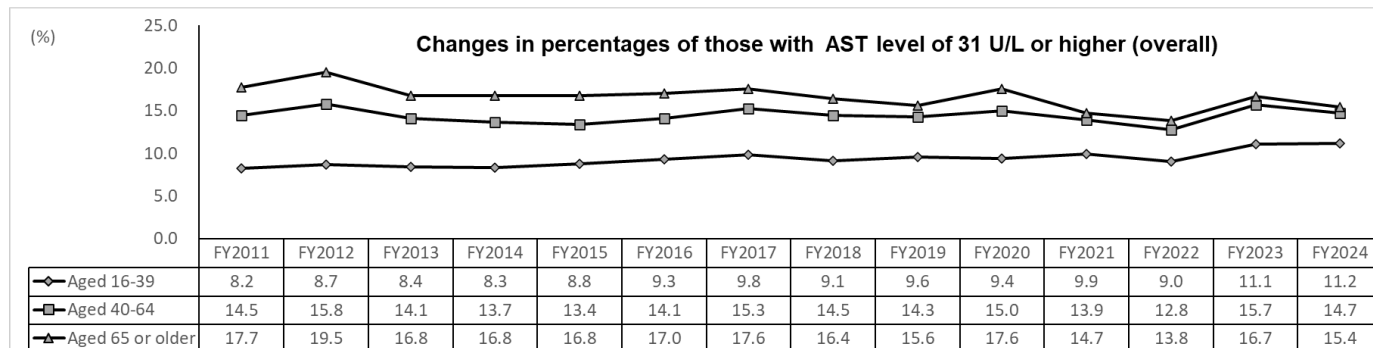
3. Reference Intervals and Action Thresholds (diagnostic criteria used for group and individual health checks)

| Item | Diagnosis | Reference Interval | Action Thresholds | | Abnormality | | Unit |
|---|-------------|--------------------|-------------------|----------|--------------|----------------|----------------------|
| | | | 3.0–3.9 | 9.6–11.0 | 2.9 or lower | 11.1 or higher | |
| Number of white blood cells | | 4.0–9.5 | 3.0–3.9 | 9.6–11.0 | 2.9 or lower | 11.1 or higher | ×10 ³ /μL |
| Differential Leucocyte Counts (DLCs, Reference) | Neutrophils | 40.0–75.0 | | | | | % |
| | Lymphocytes | 20.0–55.0 | | | | | |
| | Monocytes | 0–12.0 | | | | | |
| | Eosinophils | 0–10.0 | | | | | |
| | Basophils | 0–3.0 | | | | | |

Liver Function: AST, ALT, γ-GT

1. Results

The percentages of those with AST of 31 U/L or higher, those with ALT of 31 U/L or higher, and those with γ-GT of 51 U/L or higher showed no substantial changes in any age group.



2. Explanation of the Graphs

Determination of hepatic dysfunction was based on the following reference intervals.

3. Reference Intervals and Action Thresholds (diagnostic criteria used for group and individual health checks)

| Diagnosis Item | Reference Interval | Action Threshold | Abnormality | Unit |
|----------------|--------------------|------------------|---------------|------|
| AST (GOT) | 30 or lower | 31-50 | 51 or higher | U/L |
| ALT (GPT) | 30 or lower | 31-50 | 51 or higher | U/L |
| γ-GT | 50 or lower | 51-100 | 101 or higher | U/L |

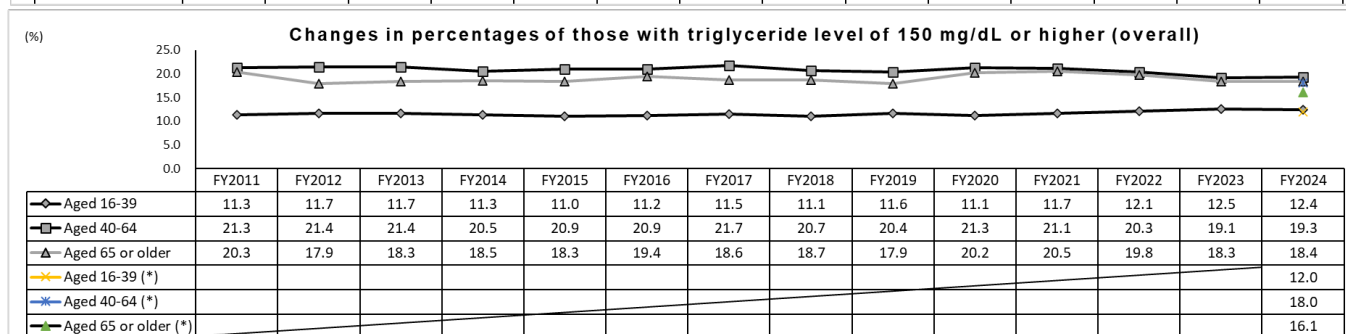
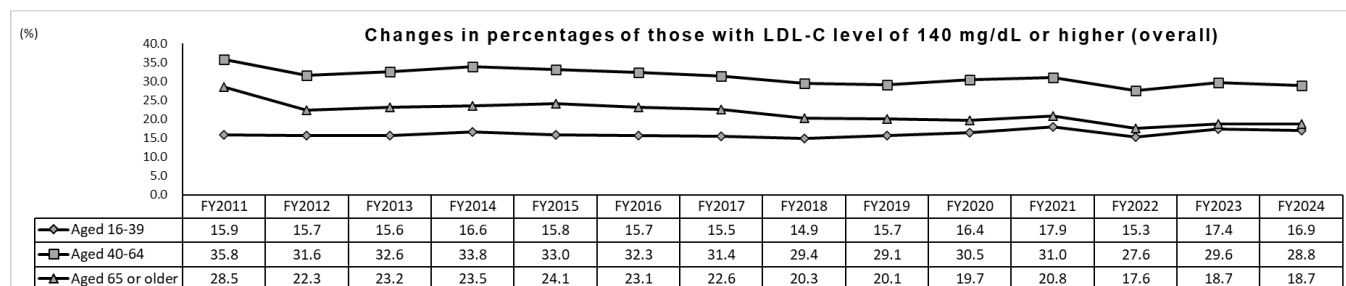
Lipids: LDL Cholesterol, Triglycerides, HDL Cholesterol

1. Results

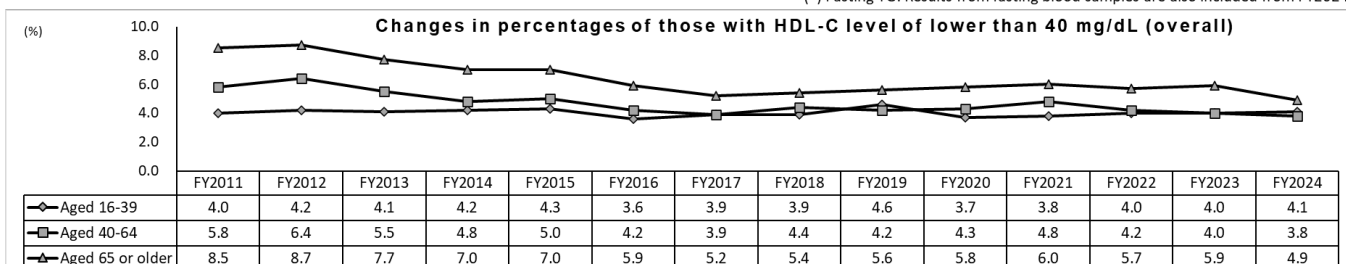
Among those aged 65 years and older, the proportions with LDL-C ≥ 140 mg/dL and triglycerides ≥ 150 mg/dL in casual blood samples* showed a slight decreasing trend from FY2011 to FY2012, but no marked changes were observed thereafter. Triglyceride levels in fasting blood samples tended to be slightly lower than those in casual blood samples across all age groups.

The proportion with HDL-C < 40 mg/dL among those aged 65 years and older showed a decreasing trend from FY2011 to FY2017, after which no marked changes were observed.

* Casual blood samples refer to blood samples collected without regard to the interval between meals and blood collection (including both fasting and non-fasting blood samples).



(*) Fasting TG: Results from fasting blood samples are also included from FY2024



2. Explanation of the Graphs

Hyperlipidemia was determined using the following reference intervals.

3. Reference Intervals

Diagnostic criteria for hyperlipidemia (fasting blood sampling)

| | | |
|------------------------------|---------------------|--------------------------------------|
| LDL cholesterol | 140 mg/dL or higher | Hyper-LDL cholesterolemia |
| | 120–139 mg/dL | Borderline hyper-LDL cholesterolemia |
| HDL cholesterol | Lower than 40 mg/dL | Hypo-HDL cholesterolemia |
| Triglycerides (neutral fats) | 150 mg/dL or higher | Hypertriglyceridemia |

Source: "Guidelines for the Prevention of Arteriosclerotic Diseases 2022" by the Japan Atherosclerosis Society

Blood Glucose: Fasting Blood Glucose, HbA1c

1. Results

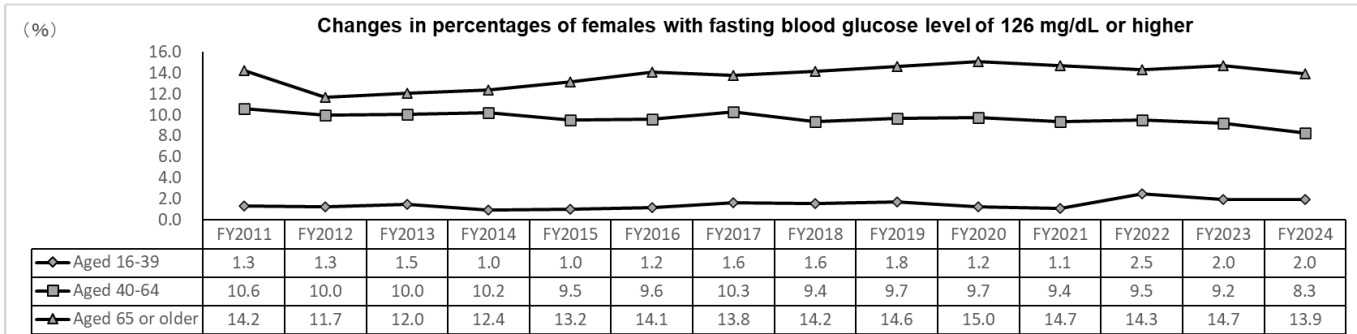
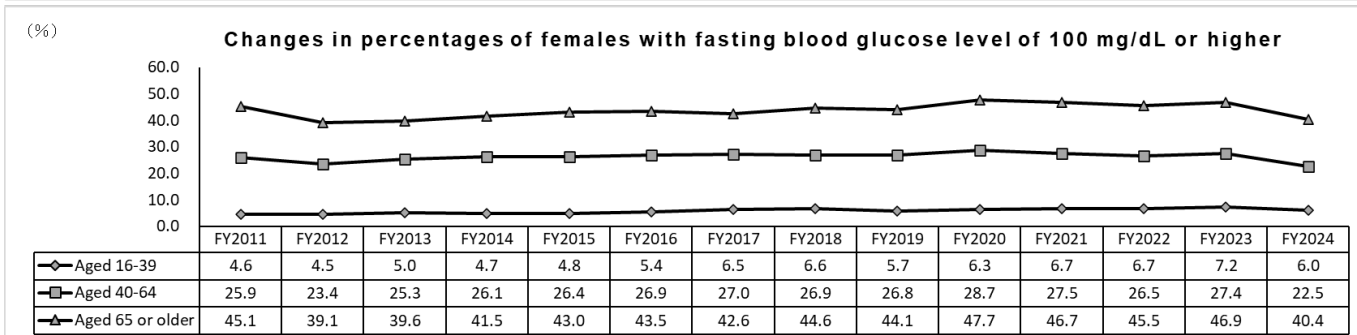
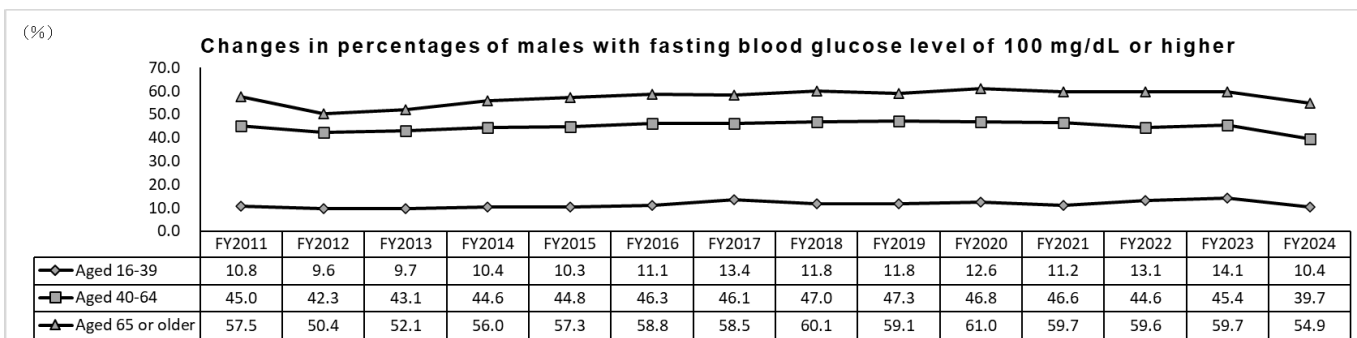
Among males and females aged 65 or older, the percentages of those with fasting blood glucose of 100 mg/dL or higher decreased from FY2011 to FY2012, then showed slight increases thereafter until FY2020, but slightly decreased thereafter.

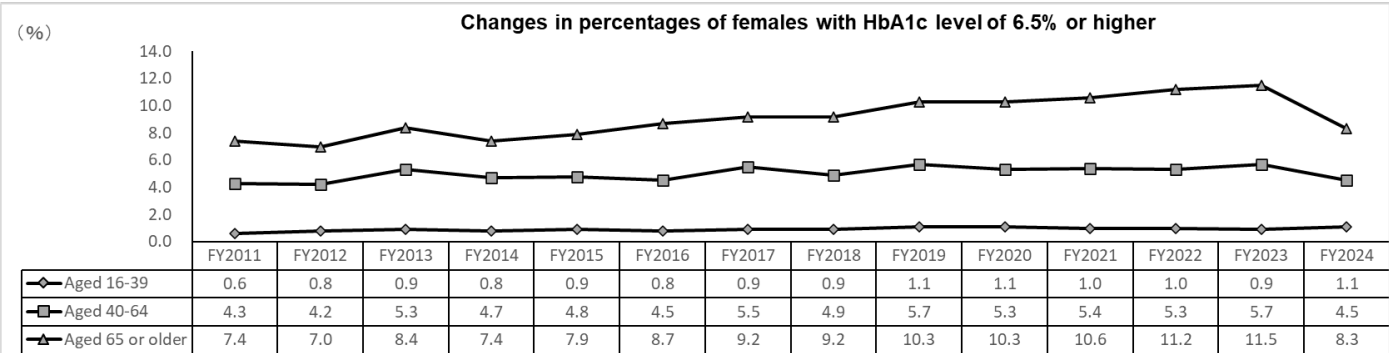
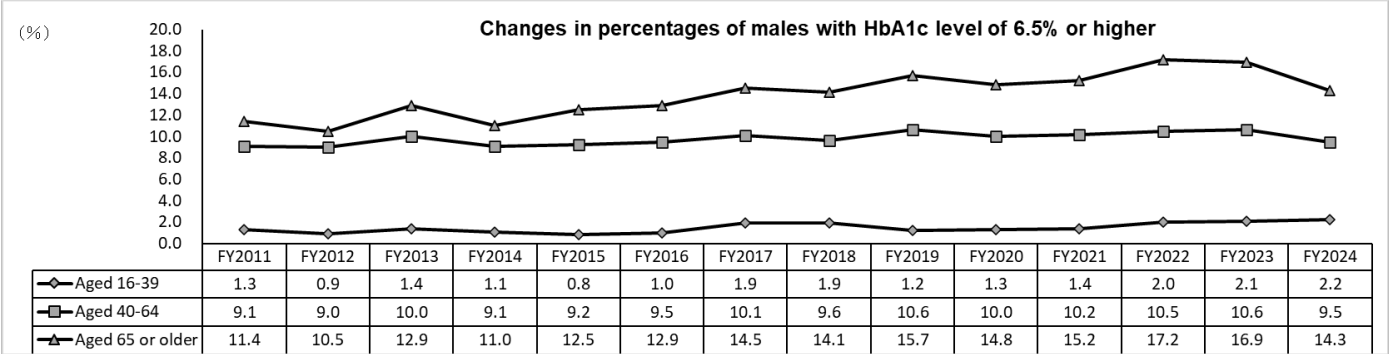
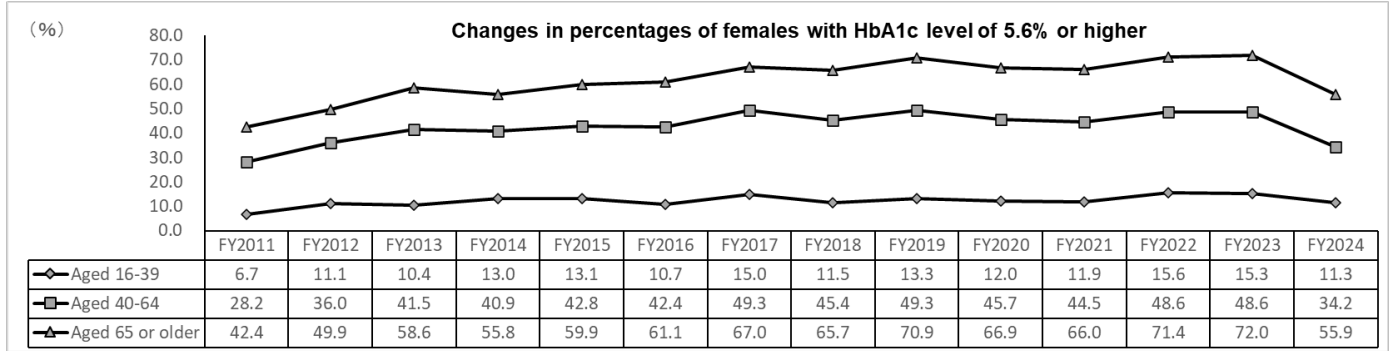
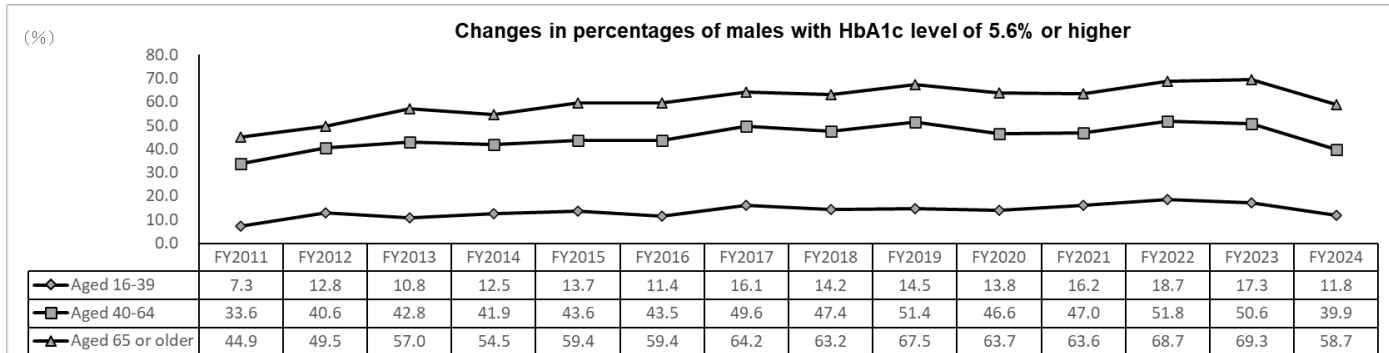
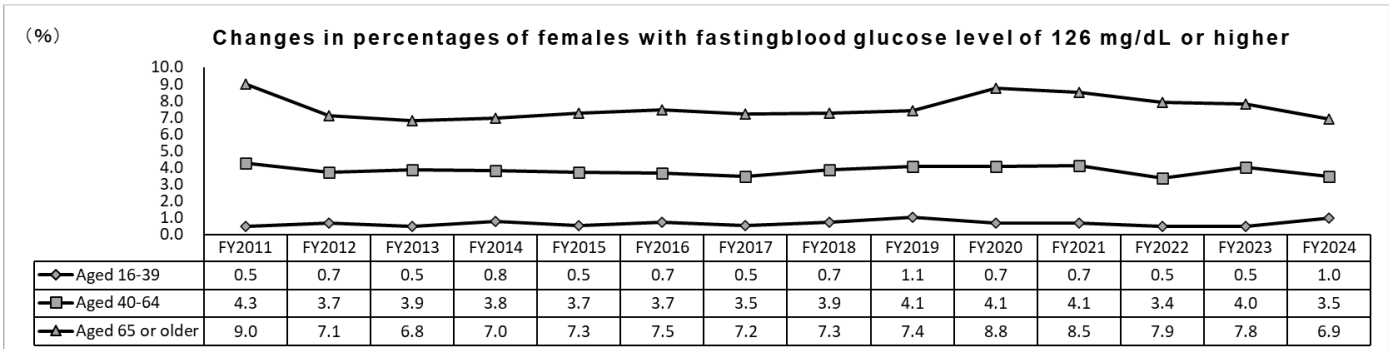
The percentage of males aged 65 or older with fasting blood glucose of 126 mg/dL or higher was on a downward trend from FY2011 to FY2012, but showed slight increases thereafter through FY2020 and a slight decrease thereafter.

Among females aged 65 years and older, the proportion with fasting blood glucose levels ≥ 126 mg/dL showed a decreasing trend from FY2011 to FY2013, followed by a slight increasing trend through FY2020, and a slight decreasing trend was observed thereafter.

The proportion with HbA1c $\geq 5.6\%$ showed an increasing trend from FY2011 to FY2023 among both males and females aged 40 years and older, followed by a slight decreasing trend in FY2024.

The proportion with diabetes mellitus (HbA1c $\geq 6.5\%$) showed an increasing trend from FY2011 to FY2023 among both males and females aged 65 years and older, followed by a slight decreasing trend in FY2024.





2. Explanation of the Graphs

Determinations of the existence of high blood glucose (fasting blood glucose of 100 mg/dL or higher and HbA1c of 5.6% or higher) and diabetes (fasting blood glucose of 126 mg/dL or higher and HbA1c of 6.5% or higher) were based on the following reference intervals.

3. Reference Intervals

Classification and diagnostic criteria based on glucose levels after fasting and with a 75g oral glucose tolerance tes (OGTT)

| | Time of measurement | | | Classification |
|-------------------------------------|--|-----|----------------------|----------------|
| | Fasting | | 2 hours postprandial | |
| Blood glucose (venous plasma level) | 126 mg/dL or higher | OR | 200 mg/dL or higher | Diabetes |
| | Intermediate values, neither diabetic nor normal | | | Borderline |
| | Less than 110 mg/dL | AND | Less than 140 mg/dL | Normal |

- 1) Fasting plasma glucose of 126 mg/dL or higher in the early morning
- 2) Plasma glucose of 200 mg/dL or higher at 2 hours after a 75g OGTT
- 3) Casual plasma glucose of 200 mg/dL or higher
- 4) HbA1c level of 6.5% or higher
- 5) Fasting plasma glucose of less than 110 mg/dL in the early morning
- 6) Plasma glucose of less than 140 mg/dL at 2 hours after a 75g OGTT

If any of the items 1) through 4) apply, the person will be diagnosed as having diabetes.

If the blood glucose level is 5) or 6), the person will be diagnosed as normal.

●Individuals who are not diagnosed as diabetic or normal will be classified as borderline.

Source: "Japanese Clinical Practice Guideline for Diabetes 2024" by the Japan Diabetes Society

*In this report, based on the "Epidemiological study: To estimate the frequency of diabetes mellitus," 'diabetes mellitus' can be substituted for the determination of 'diabetic type' from a single examination. In this case, an HbA1c of 6.5% (JDS HbA1c ≥ 6.1%) alone can be considered diagnostic of diabetes mellitus. Source: "Report of the Committee on the Classification and Diagnostic Criteria of Diabetes Mellitus (2012)" (by JDS, the Japan Diabetes Society).

Criteria for conducting a detailed health check (additional check items based on a doctor's judgment)

| | |
|---------------------|--|
| Blood glucose level | Fasting blood glucose of 100 mg/dL or higher and HbA1c (NGSP level) of 5.6% or higher or casual blood glucose of 100 mg/dL or higher |
|---------------------|--|

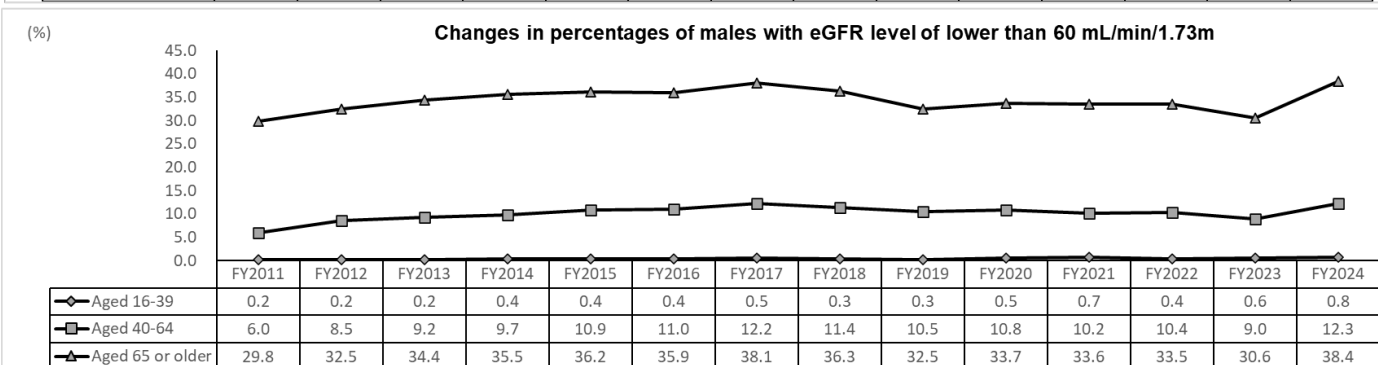
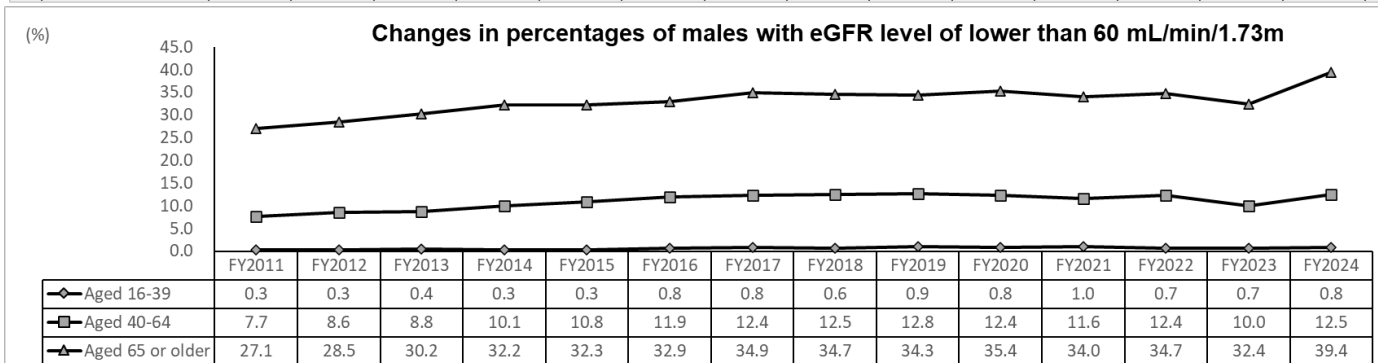
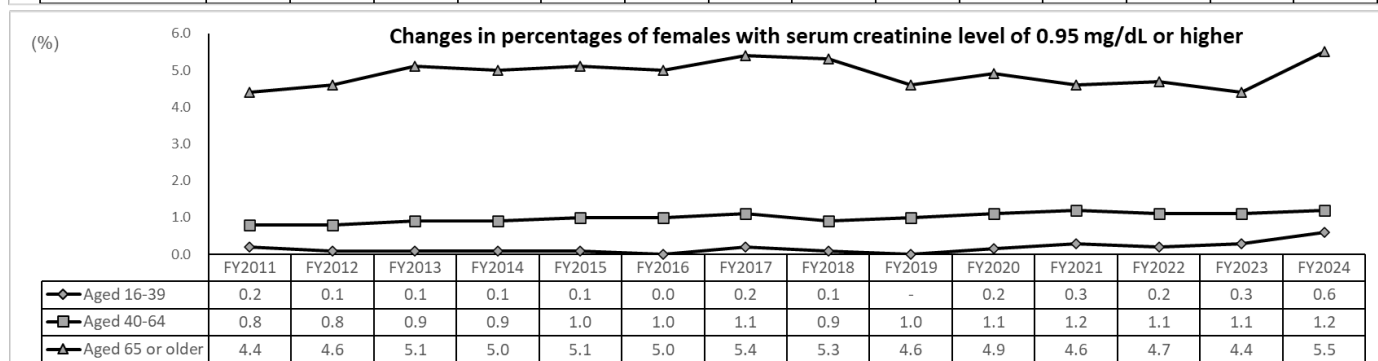
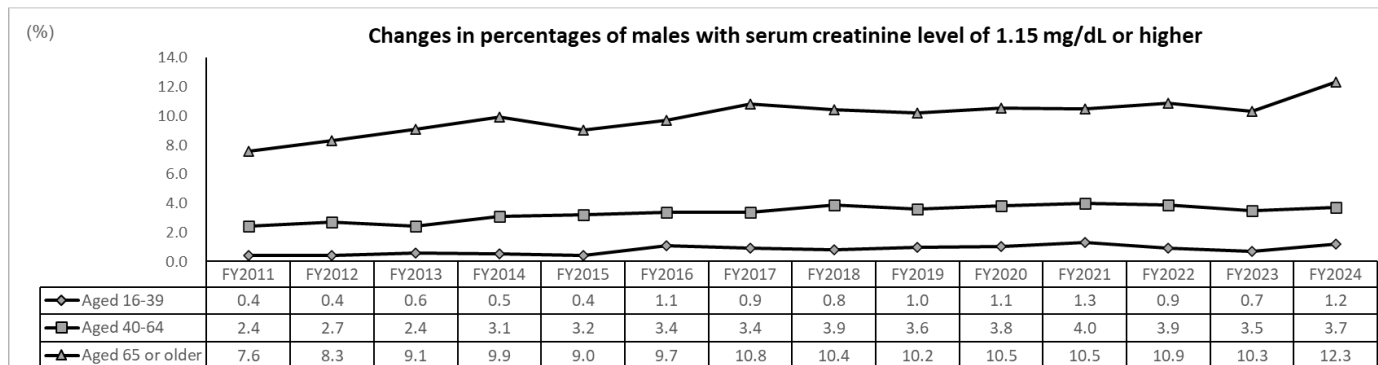
Source: "Guidelines for Smooth Implementation of Specified Health Checkups and Health Guidance (4.2 Edition) 2025" by the Ministry of Health, Labour and Welfare

Renal Function: Serum Creatinine, eGFR

1. Results

The percentage of males with serum creatinine levels ≥ 1.15 mg/dL and females with serum creatinine levels ≥ 0.95 mg/dL showed no consistent trends.

The percentage with eGFR < 60 mL/min/1.73 m² showed a gradual increasing trend from FY2011 to FY2024 among both males and females aged 65 years and older.



2. Explanation of the Graphs

The graphs show the percentages of those with eGFR lower than 60mL/min/1.73m², which is one of the diagnostic criteria for chronic kidney disease.

3. Reference Intervals and Action Thresholds (criteria used for group and individual health checks)

| Item | Diagnosis | Reference Interval | Action Threshold | Abnormality | Unit |
|--|-----------|--------------------|------------------|----------------|---------------------------|
| Serum creatinine (enzymatic method) | Males | 0.45–1.14 | 1.15–1.34 | 1.35 or higher | mg/dL |
| | Females | 0.35–0.94 | 0.95–1.14 | 1.15 or higher | |
| eGFR (estimated glomerular filtration rate) | | 60.0 or higher | 45.0–59.9 | 44.9 or lower | mL/min/1.73m ² |

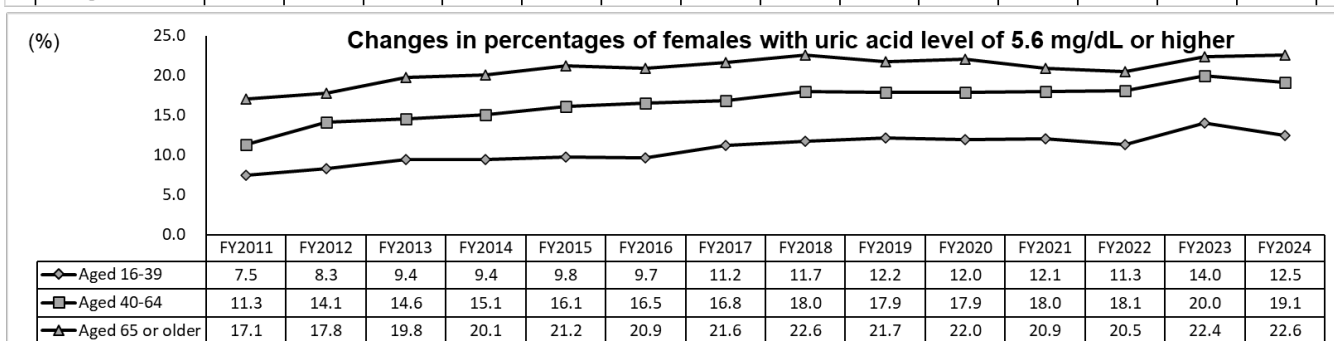
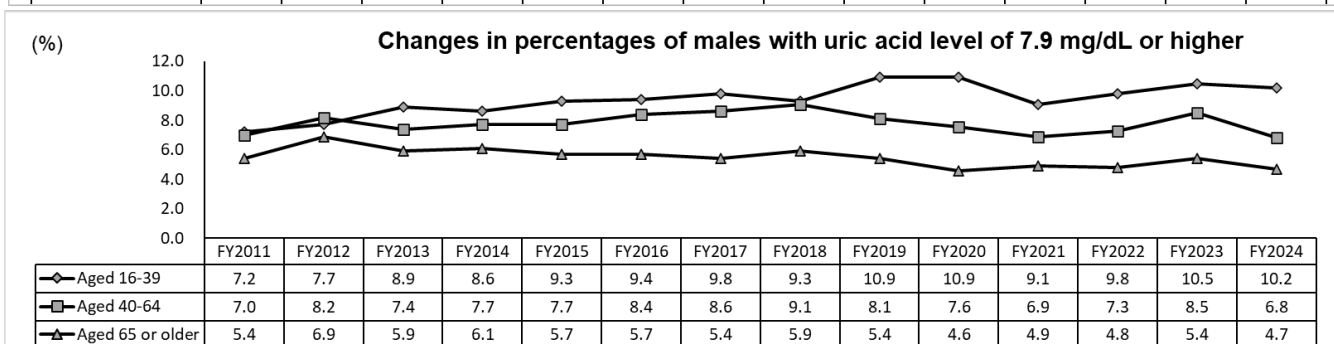
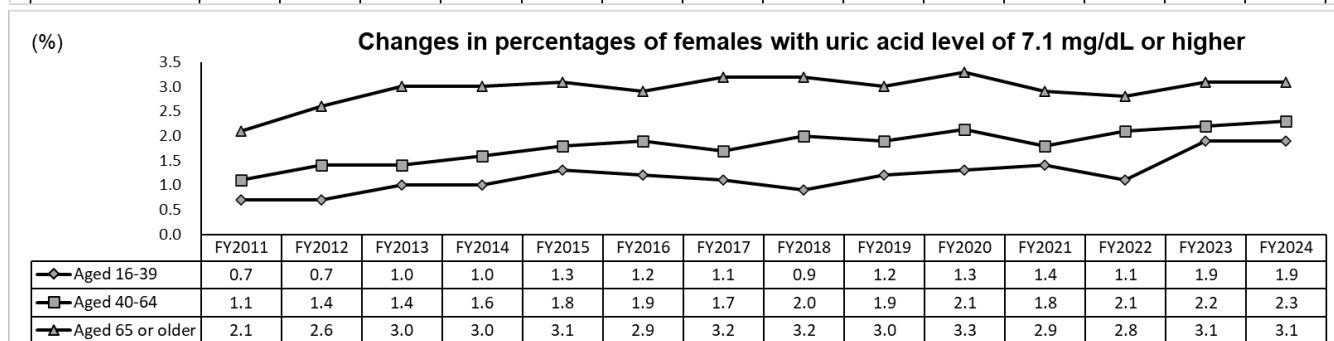
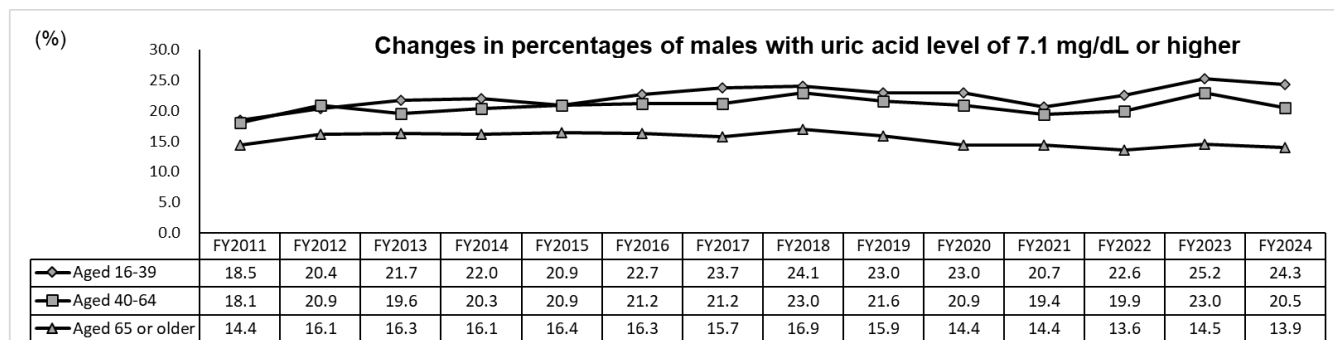
Renal Function: Uric Acid

1. Results

Among males aged 16–39 years, the proportion with uric acid levels ≥ 7.1 mg/dL showed a gradual increasing trend from FY2011 to FY2023. No marked changes were observed among females across all age groups.

Among males aged 16–39 years, the proportion with uric acid levels ≥ 7.9 mg/dL showed an increasing trend from FY2011 to FY2020, after which no consistent trend was observed.

Among females aged 65 years and older, the proportion with uric acid levels ≥ 5.6 mg/dL showed an increasing trend from FY2011 to FY2024.



2. Explanation of the Graphs

Determination of hyperuricemia was based on the following reference intervals.

3. Reference Intervals

| | |
|---|--|
| Definition of hyperuricemia in the “Guidelines for Management of Hyperuricemia and Gout” by the Japanese Society of Gout and Uric & Nucleic Acids | Uric acid of 7.1 mg/dL or higher |
| Levels that exceed the upper limit of the common reference interval established by the Japanese Committee for Clinical Laboratory Standards | Uric acid of 7.9 mg/dL or higher for males and 5.6 mg/dL or higher for females |

FY2024 Comprehensive Health Check Fukushima Health Management Survey Results of Tabulation by Health Check Item

[Coverage]

- Residents registered at covered areas* from March 11, 2011 to April 1, 2012 (also after moving out from those covered areas)
- Residents registered at evacuation zones, etc. as of April 1 of the examination year
- Others, as warranted, based on Basic Survey results, even if the above conditions are not met
- * Covered areas: Municipalities designated as the evacuation zone in 2011
Hirono Town, Naraha Town, Tomioka Town, Kawauchi Village, Okuma Town, Futaba Town, Namie Town, Katsurao Village, Iitate Village, Minamisoma City, Tamura City and Kawamata Town, and parts of Date City (containing specific spots recommended for evacuation)

[Examination Items]

| Age Group | Examination items |
|---|--|
| 0-6 years old (Preschool children and infants) | Height, weight (The following items are only as for the applicants) CBC (number of red blood cells, hematocrit, hemoglobin, platelet count, number of white blood cells, differential white blood count) |
| 7-15 years old (from 1st to 9th grades) | Height, weight CBC (number of red blood cells, hematocrit, hemoglobin, platelet count, number of white blood cells, differential white blood count) (The following items are only as for the applicants) Blood biochemistry (AST, ALT, γ -GT, TG, HDL-C, LDL-C, HbA1c, plasma glucose, serum creatinine, uric acid) |
| 16 years old and older | Height, weight, abdominal circumference (BMI), blood pressure, <u>CBC (number of red blood cells, hematocrit, hemoglobin, platelet count, number of white blood cells, differential white blood count),</u> Urine test (urine sugar, urine protein, <u>urine occult blood</u>), Blood biochemistry (AST, ALT, γ -GT, TG, HDL-C, LDL-C, HbA1c, plasma glucose, <u>serum creatinine, estimated glomerular filtration rate [eGFR], uric acid</u>) The underlined values are not routinely measured during regular health checks. |

- * As general age categories and items for the Comprehensive Health Check do not correspond, we classified the participants into five age groups: ages 0 to 6, ages 7 to 15, ages 16 to 39, ages 40 to 64, and ages 65 and older, and tabulated the results by each health check item.
- * For each health check item, tabulation was conducted by age group and by gender.
- * Only the result of earlier date is included in the tabulation for those who received health checks twice or more in the same fiscal year.
- * Rules for describing tabulation results are the same as those used for the Vital Statistics in Japan by the Ministry of Health, Labour and Welfare.
 - When there is no data: -
 - When an item does not apply to age group: -
 - When it is inappropriate to indicate data: -
 - When the ratio is minor (lower than 0.05): 0.0%
- * The Data in this document are presented with the same items as those in the previous reports to make comparison possible. Therefore, the results may not correspond to the graphs shown in the Report on the Results of the FY2024 Comprehensive Health Check.
- * The "number of participants" are the numbers used for the tabulation, and it differs from the actual number of examinees.

Height

| Height (cm) (overall) | | | |
|-----------------------|------------------------|-------------|---------------|
| Age group | Number of participants | Average age | Average value |
| 0 to 6 | 259 | 3.4 | 94.5 |
| 7 to 15 | 819 | 11.9 | 147.7 |
| 16 to 39 | 2,660 | 29.3 | 163.2 |
| 40 to 64 | 7,544 | 54.4 | 161.7 |
| 65 or older | 18,633 | 74.4 | 156.8 |

| Height (cm) (males) | | | | | |
|---------------------|------------------------|-------------|---------------|-------------------|------------------|
| Age group | Number of participants | Average age | Average value | 150 cm or shorter | 170 cm or taller |
| 0 to 6 | 132 | 3.5 | 95.3 | - | - |
| 7 to 15 | 408 | 11.7 | 148.3 | - | - |
| 16 to 39 | 1,063 | 28.0 | 170.8 | 0.6% | 55.4% |
| 40 to 64 | 2,757 | 54.4 | 169.9 | 0.3% | 50.8% |
| 65 or older | 8,635 | 74.7 | 163.7 | 1.8% | 16.1% |

| Height (cm) (females) | | | | | |
|-----------------------|------------------------|-------------|---------------|-------------------|------------------|
| Age group | Number of participants | Average age | Average value | 140 cm or shorter | 160 cm or taller |
| 0 to 6 | 127 | 3.3 | 93.8 | - | - |
| 7 to 15 | 411 | 12.0 | 147.1 | - | - |
| 16 to 39 | 1,597 | 30.1 | 158.1 | 0.2% | 38.3% |
| 40 to 64 | 4,787 | 54.4 | 157.0 | 0.2% | 29.4% |
| 65 or older | 9,998 | 74.2 | 150.8 | 4.5% | 5.9% |

Weight

| Weight (kg) (overall) | | | |
|-----------------------|------------------------|-------------|---------------|
| Age group | Number of participants | Average age | Average value |
| 0 to 6 | 259 | 3.4 | 14.6 |
| 7 to 15 | 819 | 11.9 | 42.2 |
| 16 to 39 | 2,660 | 29.3 | 62.0 |
| 40 to 64 | 7,544 | 54.4 | 63.1 |
| 65 or older | 18,633 | 74.4 | 58.6 |

| Weight (kg) (males) | | | | | |
|---------------------|------------------------|-------------|---------------|---------------|---------------|
| Age group | Number of participants | Average age | Average value | 50 kg or less | 70 kg or over |
| 0 to 6 | 132 | 3.5 | 15.0 | - | - |
| 7 to 15 | 408 | 11.7 | 42.3 | - | - |
| 16 to 39 | 1,063 | 28.0 | 70.2 | 6.0% | 44.2% |
| 40 to 64 | 2,757 | 54.4 | 72.4 | 1.3% | 53.6% |
| 65 or older | 8,635 | 74.7 | 64.8 | 5.2% | 27.7% |

| Weight (kg) (females) | | | | | |
|-----------------------|------------------------|-------------|---------------|---------------|---------------|
| Age group | Number of participants | Average age | Average value | 45 kg or less | 65 kg or over |
| 0 to 6 | 127 | 3.3 | 14.2 | - | - |
| 7 to 15 | 411 | 12.0 | 42.2 | - | - |
| 16 to 39 | 1,597 | 30.1 | 56.6 | 13.3% | 19.2% |
| 40 to 64 | 4,787 | 54.4 | 57.7 | 10.0% | 22.2% |
| 65 or older | 9,998 | 74.2 | 53.3 | 17.1% | 10.3% |

1. Physical Exam (1) BMI

| BMI (Weight/Height ²) (overall) | | | | | |
|---|------------------------|-------------|---------------|-------------------------------|------------------------------|
| Age group | Number of participants | Average age | Average value | 18 kg/m ² or lower | 25 kg/m ² or over |
| 0 to 6 | – | – | – | – | – |
| 7 to 15 | – | – | – | – | – |
| 16 to 39 | 2,660 | 29.3 | 23.2 | 8.7% | 27.8% |
| 40 to 64 | 7,544 | 54.4 | 24.0 | 4.7% | 35.9% |
| 65 or older | 18,633 | 74.4 | 23.8 | 3.6% | 33.7% |

| BMI (Weight/Height ²) (males) | | | | | |
|---|------------------------|-------------|---------------|-------------------------------|------------------------------|
| Age group | Number of participants | Average age | Average value | 18 kg/m ² or lower | 25 kg/m ² or over |
| 0 to 6 | – | – | – | – | – |
| 7 to 15 | – | – | – | – | – |
| 16 to 39 | 1,063 | 28.0 | 24.0 | 6.4% | 35.4% |
| 40 to 64 | 2,757 | 54.4 | 25.0 | 1.5% | 45.5% |
| 65 or older | 8,635 | 74.7 | 24.1 | 2.0% | 37.0% |

| BMI (Weight/Height ²) (females) | | | | | |
|---|------------------------|-------------|---------------|-------------------------------|------------------------------|
| Age group | Number of participants | Average age | Average value | 18 kg/m ² or lower | 25 kg/m ² or over |
| 0 to 6 | – | – | – | – | – |
| 7 to 15 | – | – | – | – | – |
| 16 to 39 | 1,597 | 30.1 | 22.6 | 10.3% | 22.7% |
| 40 to 64 | 4,787 | 54.4 | 23.4 | 6.6% | 30.4% |
| 65 or older | 9,998 | 74.2 | 23.4 | 5.0% | 30.8% |

1. Physical Exam (2) Abdominal Circumference

| Abdominal circumference (cm) (overall) | | | |
|--|------------------------|-------------|---------------|
| Age group | Number of participants | Average age | Average value |
| 0 to 6 | – | – | – |
| 7 to 15 | – | – | – |
| 16 to 39 | 727 | 29.2 | 79.2 |
| 40 to 64 | 7,545 | 54.4 | 84.0 |
| 65 or older | 11,173 | 70.5 | 85.0 |

| Abdominal circumference (cm) (males) | | | | |
|--------------------------------------|------------------------|-------------|---------------|---------------|
| Age group | Number of participants | Average age | Average value | 85 cm or over |
| 0 to 6 | – | – | – | – |
| 7 to 15 | – | – | – | – |
| 16 to 39 | 349 | 29.2 | 83.3 | 39.8% |
| 40 to 64 | 2,758 | 54.4 | 87.7 | 58.0% |
| 65 or older | 4,988 | 70.7 | 86.8 | 56.6% |

| Abdominal circumference (cm) (females) | | | | |
|--|------------------------|-------------|---------------|---------------|
| Age group | Number of participants | Average age | Average value | 90 cm or over |
| 0 to 6 | – | – | – | – |
| 7 to 15 | – | – | – | – |
| 16 to 39 | 378 | 29.2 | 75.5 | 9.5% |
| 40 to 64 | 4,787 | 54.4 | 81.9 | 21.7% |
| 65 or older | 6,185 | 70.4 | 83.6 | 23.8% |

1. Physical Exam (3) Blood Pressure

| Systolic blood pressure (mmHg) (overall) | | | | |
|--|------------------------|-------------|---------------|--------------------|
| Age group | Number of participants | Average age | Average value | 140 mmHg or higher |
| 0 to 6 | – | – | – | – |
| 7 to 15 | 818 | 11.9 | 106.2 | 0.1% |
| 16 to 39 | 2,660 | 29.3 | 114.9 | 4.5% |
| 40 to 64 | 7,547 | 54.4 | 125.0 | 17.0% |
| 65 or older | 18,636 | 74.4 | 131.6 | 29.4% |

| Systolic blood pressure (mmHg) (males) | | | | |
|--|------------------------|-------------|---------------|--------------------|
| Age group | Number of participants | Average age | Average value | 140 mmHg or higher |
| 0 to 6 | – | – | – | – |
| 7 to 15 | 407 | 11.7 | 106.9 | 0.2% |
| 16 to 39 | 1,063 | 28.0 | 119.6 | 6.9% |
| 40 to 64 | 2,758 | 54.4 | 127.3 | 19.1% |
| 65 or older | 8,635 | 74.7 | 131.2 | 28.4% |

| Systolic blood pressure (mmHg) (females) | | | | |
|--|------------------------|-------------|---------------|--------------------|
| Age group | Number of participants | Average age | Average value | 140 mmHg or higher |
| 0 to 6 | – | – | – | – |
| 7 to 15 | 411 | 12.0 | 105.5 | – |
| 16 to 39 | 1,597 | 30.1 | 111.8 | 2.9% |
| 40 to 64 | 4,789 | 54.4 | 123.6 | 15.7% |
| 65 or older | 10,001 | 74.2 | 132.0 | 30.3% |

| Diastolic blood pressure (mmHg) (overall) | | | | |
|---|------------------------|-------------|---------------|-------------------|
| Age group | Number of participants | Average age | Average value | 90 mmHg or higher |
| 0 to 6 | – | – | – | – |
| 7 to 15 | 818 | 11.9 | 61.4 | 0.7% |
| 16 to 39 | 2,660 | 29.3 | 69.7 | 3.8% |
| 40 to 64 | 7,547 | 54.4 | 77.6 | 14.6% |
| 65 or older | 18,636 | 74.4 | 75.7 | 9.3% |

| Diastolic blood pressure (mmHg) (males) | | | | |
|---|------------------------|-------------|---------------|-------------------|
| Age group | Number of participants | Average age | Average value | 90 mmHg or higher |
| 0 to 6 | – | – | – | – |
| 7 to 15 | 407 | 11.7 | 61.0 | 1.2% |
| 16 to 39 | 1,063 | 28.0 | 71.8 | 5.5% |
| 40 to 64 | 2,758 | 54.4 | 81.4 | 21.4% |
| 65 or older | 8,635 | 74.7 | 77.1 | 11.6% |

| Diastolic blood pressure (mmHg) (females) | | | | |
|---|------------------------|-------------|---------------|-------------------|
| Age group | Number of participants | Average age | Average value | 90 mmHg or higher |
| 0 to 6 | – | – | – | – |
| 7 to 15 | 411 | 12.0 | 61.8 | 0.2% |
| 16 to 39 | 1,597 | 30.1 | 68.3 | 2.6% |
| 40 to 64 | 4,789 | 54.4 | 75.5 | 10.7% |
| 65 or older | 10,001 | 74.2 | 74.6 | 7.2% |

2. Urine Test (1) Urine Sugar

| Urine sugar (overall) | | | |
|-----------------------|------------------------|-------------|----------------|
| Age group | Number of participants | Average age | (1+) or higher |
| 0 to 6 | – | – | – |
| 7 to 15 | – | – | – |
| 16 to 39 | 2,640 | 29.3 | 1.5% |
| 40 to 64 | 7,534 | 54.4 | 5.6% |
| 65 or older | 18,558 | 74.4 | 9.5% |

| Urine sugar (males) | | | |
|---------------------|------------------------|-------------|----------------|
| Age group | Number of participants | Average age | (1+) or higher |
| 0 to 6 | – | – | – |
| 7 to 15 | – | – | – |
| 16 to 39 | 1,062 | 28.1 | 2.1% |
| 40 to 64 | 2,756 | 54.4 | 9.2% |
| 65 or older | 8,604 | 74.7 | 13.9% |

| Urine sugar (females) | | | |
|-----------------------|------------------------|-------------|----------------|
| Age group | Number of participants | Average age | (1+) or higher |
| 0 to 6 | – | – | – |
| 7 to 15 | – | – | – |
| 16 to 39 | 1,578 | 30.1 | 1.1% |
| 40 to 64 | 4,778 | 54.4 | 3.5% |
| 65 or older | 9,954 | 74.1 | 5.7% |

2. Urine Test (2) Urine Protein

| Urine protein (overall) | | | |
|-------------------------|------------------------|-------------|----------------|
| Age group | Number of participants | Average age | (1+) or higher |
| 0 to 6 | – | – | – |
| 7 to 15 | – | – | – |
| 16 to 39 | 2,640 | 29.3 | 2.7% |
| 40 to 64 | 7,534 | 54.4 | 1.9% |
| 65 or older | 18,558 | 74.4 | 3.6% |

| Urine protein (males) | | | |
|-----------------------|------------------------|-------------|----------------|
| Age group | Number of participants | Average age | (1+) or higher |
| 0 to 6 | – | – | – |
| 7 to 15 | – | – | – |
| 16 to 39 | 1,062 | 28.1 | 3.0% |
| 40 to 64 | 2,756 | 54.4 | 2.9% |
| 65 or older | 8,604 | 74.7 | 5.4% |

| Urine protein (females) | | | |
|-------------------------|------------------------|-------------|----------------|
| Age group | Number of participants | Average age | (1+) or higher |
| 0 to 6 | – | – | – |
| 7 to 15 | – | – | – |
| 16 to 39 | 1,578 | 30.1 | 2.5% |
| 40 to 64 | 4,778 | 54.4 | 1.3% |
| 65 or older | 9,954 | 74.1 | 2.0% |

2. Urine Test (3) Urine Occult Blood

| Urine occult blood (overall) | | | | |
|------------------------------|------------------------|-------------|----------------|---|
| Age group | Number of participants | Average age | (1+) or higher | (1+) or higher and excluding those on their |
| 0 to 6 | – | – | – | – |
| 7 to 15 | – | – | – | – |
| 16 to 39 | 2,639 | 29.3 | 6.7% | 2.6% |
| 40 to 64 | 7,534 | 54.4 | 5.3% | 3.8% |
| 65 or older | 18,558 | 74.4 | 4.8% | 4.8% |

| Urine occult blood (males) | | | |
|----------------------------|------------------------|-------------|----------------|
| Age group | Number of participants | Average age | (1+) or higher |
| 0 to 6 | – | – | – |
| 7 to 15 | – | – | – |
| 16 to 39 | 1,062 | 28.1 | 0.7% |
| 40 to 64 | 2,756 | 54.4 | 1.9% |
| 65 or older | 8,604 | 74.7 | 3.5% |

| Urine occult blood (females) | | | | |
|------------------------------|------------------------|-------------|----------------|---|
| Age group | Number of participants | Average age | (1+) or higher | (1+) or higher and excluding those on their |
| 0 to 6 | – | – | – | – |
| 7 to 15 | – | – | – | – |
| 16 to 39 | 1,577 | 30.1 | 10.7% | 3.9% |
| 40 to 64 | 4,778 | 54.4 | 7.3% | 5.0% |
| 65 or older | 9,954 | 74.1 | 5.9% | 5.9% |

3. Peripheral Blood Test (1)-1 Red Blood Cells

| Red blood cell count ($10^6/\mu\text{L}$) (overall) | | | |
|---|------------------------|-------------|---------------|
| Age group | Number of participants | Average age | Average value |
| 0 to 6 | 232 | 3.5 | 4.66 |
| 7 to 15 | 803 | 11.9 | 4.77 |
| 16 to 39 | 2,658 | 29.3 | 4.75 |
| 40 to 64 | 7,542 | 54.4 | 4.61 |
| 65 or older | 18,632 | 74.4 | 4.43 |

| Red blood cell count ($10^6/\mu\text{L}$) (males) | | | | | | |
|---|------------------------|-------------|---------------|---|---|--|
| Age group | Number of participants | Average age | Average value | $3.69 \times 10^6/\mu\text{L}$ or lower | $3.99 \times 10^6/\mu\text{L}$ or lower | $5.80 \times 10^6/\mu\text{L}$ or higher |
| 0 to 6 | 123 | 3.6 | 4.68 | – | – | – |
| 7 to 15 | 401 | 11.7 | 4.91 | 0.2% | 1.0% | 0.7% |
| 16 to 39 | 1,062 | 28.0 | 5.16 | 0.1% | 0.3% | 5.3% |
| 40 to 64 | 2,756 | 54.4 | 4.89 | 1.0% | 2.9% | 2.4% |
| 65 or older | 8,633 | 74.7 | 4.59 | 4.2% | 11.1% | 0.7% |

| Red blood cell count ($10^6/\mu\text{L}$) (females) | | | | | | |
|---|------------------------|-------------|---------------|---|---|--|
| Age group | Number of participants | Average age | Average value | $3.39 \times 10^6/\mu\text{L}$ or lower | $3.69 \times 10^6/\mu\text{L}$ or lower | $5.50 \times 10^6/\mu\text{L}$ or higher |
| 0 to 6 | 109 | 3.4 | 4.64 | – | – | 0.9% |
| 7 to 15 | 402 | 12.1 | 4.64 | – | – | 0.2% |
| 16 to 39 | 1,596 | 30.1 | 4.47 | 0.2% | 1.1% | 0.6% |
| 40 to 64 | 4,786 | 54.4 | 4.45 | 0.4% | 1.8% | 0.7% |
| 65 or older | 9,999 | 74.2 | 4.30 | 1.4% | 6.3% | 0.4% |

3. Peripheral Blood Test (1)-2 Hemoglobin

| Hemoglobin (g/dL) (overall) | | | |
|-----------------------------|------------------------|-------------|---------------|
| Age group | Number of participants | Average age | Average value |
| 0 to 6 | 232 | 3.5 | 12.5 |
| 7 to 15 | 803 | 11.9 | 13.4 |
| 16 to 39 | 2,658 | 29.3 | 14.1 |
| 40 to 64 | 7,542 | 54.4 | 14.0 |
| 65 or older | 18,632 | 74.4 | 13.7 |

| Hemoglobin (g/dL) (males) | | | | | | |
|---------------------------|------------------------|-------------|---------------|--------------------|--------------------|---------------------|
| Age group | Number of participants | Average age | Average value | 12.0 g/dL or lower | 13.0 g/dL or lower | 18.0 g/dL or higher |
| 0 to 6 | 123 | 3.6 | 12.5 | 31.7% | 77.2% | - |
| 7 to 15 | 401 | 11.7 | 13.8 | 4.2% | 23.9% | - |
| 16 to 39 | 1,062 | 28.0 | 15.5 | 0.6% | 1.4% | 0.8% |
| 40 to 64 | 2,756 | 54.4 | 15.1 | 1.0% | 4.4% | 1.2% |
| 65 or older | 8,633 | 74.7 | 14.4 | 6.0% | 16.5% | 0.5% |

| Hemoglobin (g/dL) (females) | | | | | | |
|-----------------------------|------------------------|-------------|---------------|--------------------|--------------------|---------------------|
| Age group | Number of participants | Average age | Average value | 11.0 g/dL or lower | 12.0 g/dL or lower | 16.0 g/dL or higher |
| 0 to 6 | 109 | 3.4 | 12.5 | 4.6% | 31.2% | - |
| 7 to 15 | 402 | 12.1 | 13.1 | 2.2% | 9.7% | - |
| 16 to 39 | 1,596 | 30.1 | 13.1 | 4.3% | 14.1% | 0.3% |
| 40 to 64 | 4,786 | 54.4 | 13.3 | 4.6% | 12.2% | 0.7% |
| 65 or older | 9,999 | 74.2 | 13.1 | 3.3% | 15.1% | 0.6% |

3. Peripheral Blood Test (1)-3 Hematocrit

| Hematocrit (%) (overall) | | | |
|--------------------------|------------------------|-------------|---------------|
| Age group | Number of participants | Average age | Average value |
| 0 to 6 | 232 | 3.5 | 38.0 |
| 7 to 15 | 803 | 11.9 | 41.1 |
| 16 to 39 | 2,658 | 29.3 | 42.7 |
| 40 to 64 | 7,542 | 54.4 | 42.3 |
| 65 or older | 18,632 | 74.4 | 41.6 |

| Hematocrit (%) (males) | | | | | | |
|------------------------|------------------------|-------------|---------------|----------------|----------------|-----------------|
| Age group | Number of participants | Average age | Average value | 35.9% or lower | 37.9% or lower | 55.0% or higher |
| 0 to 6 | 123 | 3.6 | 38.0 | 26.8% | 50.4% | - |
| 7 to 15 | 401 | 11.7 | 41.9 | 2.2% | 12.0% | - |
| 16 to 39 | 1,062 | 28.0 | 46.4 | 0.2% | 0.7% | 0.3% |
| 40 to 64 | 2,756 | 54.4 | 45.3 | 0.9% | 2.4% | 0.5% |
| 65 or older | 8,633 | 74.7 | 43.3 | 4.5% | 9.7% | 0.2% |

| Hematocrit (%) (females) | | | | | | |
|--------------------------|------------------------|-------------|---------------|----------------|----------------|-----------------|
| Age group | Number of participants | Average age | Average value | 28.9% or lower | 32.9% or lower | 48.0% or higher |
| 0 to 6 | 109 | 3.4 | 38.0 | - | 1.8% | - |
| 7 to 15 | 402 | 12.1 | 40.4 | 0.2% | 0.7% | - |
| 16 to 39 | 1,596 | 30.1 | 40.2 | 0.4% | 1.6% | 0.3% |
| 40 to 64 | 4,786 | 54.4 | 40.6 | 0.4% | 2.1% | 1.0% |
| 65 or older | 9,999 | 74.2 | 40.1 | 0.2% | 1.7% | 0.9% |

3. Peripheral Blood Test (2) Platelet Count

| Platelet count ($10^3/\mu\text{L}$) (overall) | | | | | | | |
|---|------------------------|-------------|---------------|---------------------------------------|--|---|---|
| Age group | Number of participants | Average age | Average value | $89 \times 10^3/\mu\text{L}$ or lower | $129 \times 10^3/\mu\text{L}$ or lower | $370 \times 10^3/\mu\text{L}$ or higher | $450 \times 10^3/\mu\text{L}$ or higher |
| 0 to 6 | 232 | 3.5 | 362.3 | - | - | 39.2% | 13.4% |
| 7 to 15 | 803 | 11.9 | 294.9 | 0.1% | 0.2% | 11.6% | 2.1% |
| 16 to 39 | 2,656 | 29.3 | 272.2 | - | 0.2% | 6.6% | 0.9% |
| 40 to 64 | 7,533 | 54.4 | 261.5 | 0.1% | 0.6% | 4.9% | 0.8% |
| 65 or older | 18,600 | 74.4 | 227.9 | 0.3% | 2.0% | 1.5% | 0.3% |

| Platelet count ($10^3/\mu\text{L}$) (males) | | | | | | | |
|---|------------------------|-------------|---------------|---------------------------------------|--|---|---|
| Age group | Number of participants | Average age | Average value | $89 \times 10^3/\mu\text{L}$ or lower | $129 \times 10^3/\mu\text{L}$ or lower | $370 \times 10^3/\mu\text{L}$ or higher | $450 \times 10^3/\mu\text{L}$ or higher |
| 0 to 6 | 123 | 3.6 | 356.2 | - | - | 35.8% | 12.2% |
| 7 to 15 | 401 | 11.7 | 296.6 | - | - | 12.0% | 2.7% |
| 16 to 39 | 1,061 | 28.0 | 263.2 | - | - | 3.9% | 0.3% |
| 40 to 64 | 2,751 | 54.4 | 254.4 | 0.1% | 0.5% | 2.8% | 0.3% |
| 65 or older | 8,618 | 74.7 | 220.2 | 0.4% | 2.6% | 1.4% | 0.3% |

| Platelet count ($10^3/\mu\text{L}$) (females) | | | | | | | |
|---|------------------------|-------------|---------------|---------------------------------------|--|---|---|
| Age group | Number of participants | Average age | Average value | $89 \times 10^3/\mu\text{L}$ or lower | $129 \times 10^3/\mu\text{L}$ or lower | $370 \times 10^3/\mu\text{L}$ or higher | $450 \times 10^3/\mu\text{L}$ or higher |
| 0 to 6 | 109 | 3.4 | 369.3 | - | - | 43.1% | 14.7% |
| 7 to 15 | 402 | 12.1 | 293.2 | 0.2% | 0.5% | 11.2% | 1.5% |
| 16 to 39 | 1,595 | 30.1 | 278.2 | - | 0.3% | 8.5% | 1.3% |
| 40 to 64 | 4,782 | 54.4 | 265.5 | 0.1% | 0.6% | 6.1% | 1.1% |
| 65 or older | 9,982 | 74.2 | 234.6 | 0.3% | 1.6% | 1.7% | 0.3% |

3. Peripheral Blood Test (3)-1 White Blood Cell Count

| White blood cell count ($10^3/\mu\text{L}$) (overall) | | | | | | | |
|---|------------------------|-------------|---------------|--|--|---|--|
| Age group | Number of participants | Average age | Average value | $2.9 \times 10^3/\mu\text{L}$ or lower | $3.9 \times 10^3/\mu\text{L}$ or lower | $9.6 \times 10^3/\mu\text{L}$ or higher | $11.1 \times 10^3/\mu\text{L}$ or higher |
| 0 to 6 | 232 | 3.5 | 9.0 | - | 0.4% | 35.3% | 17.7% |
| 7 to 15 | 803 | 11.9 | 6.5 | 0.1% | 2.6% | 4.1% | 1.7% |
| 16 to 39 | 2,658 | 29.3 | 5.9 | 0.8% | 8.1% | 3.5% | 1.3% |
| 40 to 64 | 7,542 | 54.4 | 5.7 | 1.0% | 11.0% | 2.0% | 0.6% |
| 65 or older | 18,632 | 74.4 | 5.7 | 0.7% | 8.8% | 1.9% | 0.6% |

| White blood cell count ($10^3/\mu\text{L}$) (males) | | | | | | | |
|---|------------------------|-------------|---------------|--|--|---|--|
| Age group | Number of participants | Average age | Average value | $2.9 \times 10^3/\mu\text{L}$ or lower | $3.9 \times 10^3/\mu\text{L}$ or lower | $9.6 \times 10^3/\mu\text{L}$ or higher | $11.1 \times 10^3/\mu\text{L}$ or higher |
| 0 to 6 | 123 | 3.6 | 8.9 | - | - | 35.0% | 18.7% |
| 7 to 15 | 401 | 11.7 | 6.4 | - | 3.2% | 3.5% | 1.7% |
| 16 to 39 | 1,062 | 28.0 | 5.9 | 0.5% | 7.1% | 3.3% | 1.0% |
| 40 to 64 | 2,756 | 54.4 | 6.0 | 0.4% | 6.4% | 2.5% | 0.8% |
| 65 or older | 8,633 | 74.7 | 5.9 | 0.5% | 6.7% | 2.4% | 0.8% |

| White blood cell count ($10^3/\mu\text{L}$) (females) | | | | | | | |
|---|------------------------|-------------|---------------|--|--|---|--|
| Age group | Number of participants | Average age | Average value | $2.9 \times 10^3/\mu\text{L}$ or lower | $3.9 \times 10^3/\mu\text{L}$ or lower | $9.6 \times 10^3/\mu\text{L}$ or higher | $11.1 \times 10^3/\mu\text{L}$ or higher |
| 0 to 6 | 109 | 3.4 | 9.2 | - | 0.9% | 35.8% | 16.5% |
| 7 to 15 | 402 | 12.1 | 6.6 | 0.2% | 2.0% | 4.7% | 1.7% |
| 16 to 39 | 1,596 | 30.1 | 5.9 | 1.0% | 8.7% | 3.6% | 1.4% |
| 40 to 64 | 4,786 | 54.4 | 5.5 | 1.4% | 13.6% | 1.7% | 0.5% |
| 65 or older | 9,999 | 74.2 | 5.6 | 0.9% | 10.7% | 1.4% | 0.4% |

3. Peripheral Blood Test (3)-2 Neutrophil count

| Neutrophil count (count/ μ L) (overall) | | | |
|---|------------------------|-------------|---------------|
| Age group | Number of participants | Average age | Average value |
| 0 to 6 | 232 | 3.5 | 3,653 |
| 7 to 15 | 803 | 11.9 | 3,291 |
| 16 to 39 | 2,654 | 29.3 | 3,446 |
| 40 to 64 | 7,540 | 54.4 | 3,244 |
| 65 or older | 18,632 | 74.4 | 3,280 |

| Neutrophil count (count/ μ L) (males) | | | |
|---|------------------------|-------------|---------------|
| Age group | Number of participants | Average age | Average value |
| 0 to 6 | 123 | 3.6 | 3,613 |
| 7 to 15 | 401 | 11.7 | 3,125 |
| 16 to 39 | 1,061 | 28.0 | 3,347 |
| 40 to 64 | 2,755 | 54.4 | 3,440 |
| 65 or older | 8,633 | 74.7 | 3,422 |

| Neutrophil count (count/ μ L) (females) | | | |
|---|------------------------|-------------|---------------|
| Age group | Number of participants | Average age | Average value |
| 0 to 6 | 109 | 3.4 | 3,699 |
| 7 to 15 | 402 | 12.1 | 3,457 |
| 16 to 39 | 1,593 | 30.1 | 3,513 |
| 40 to 64 | 4,785 | 54.4 | 3,130 |
| 65 or older | 9,999 | 74.2 | 3,158 |

3. Peripheral Blood Test (3)-3 Lymphocyte Count

| Lymphocyte count (count/ μ L) (overall) | | | |
|---|------------------------|-------------|---------------|
| Age group | Number of participants | Average age | Average value |
| 0 to 6 | 232 | 3.5 | 4,538 |
| 7 to 15 | 803 | 11.9 | 2,504 |
| 16 to 39 | 2,654 | 29.3 | 1,952 |
| 40 to 64 | 7,540 | 54.4 | 1,912 |
| 65 or older | 18,632 | 74.4 | 1,911 |

| Lymphocyte count (count/ μ L) (males) | | | |
|---|------------------------|-------------|---------------|
| Age group | Number of participants | Average age | Average value |
| 0 to 6 | 123 | 3.6 | 4,423 |
| 7 to 15 | 401 | 11.7 | 2,495 |
| 16 to 39 | 1,061 | 28.0 | 2,001 |
| 40 to 64 | 2,755 | 54.4 | 1,966 |
| 65 or older | 8,633 | 74.7 | 1,898 |

| Lymphocyte count (count/ μ L) (females) | | | |
|---|------------------------|-------------|---------------|
| Age group | Number of participants | Average age | Average value |
| 0 to 6 | 109 | 3.4 | 4,668 |
| 7 to 15 | 402 | 12.1 | 2,513 |
| 16 to 39 | 1,593 | 30.1 | 1,920 |
| 40 to 64 | 4,785 | 54.4 | 1,881 |
| 65 or older | 9,999 | 74.2 | 1,922 |

3. Peripheral Blood Test (3)-4 Monocyte Count

| Monocyte count (count/ μ L) (overall) | | | |
|---|------------------------|-------------|---------------|
| Age group | Number of participants | Average age | Average value |
| 0 to 6 | 232 | 3.5 | 497 |
| 7 to 15 | 803 | 11.9 | 412 |
| 16 to 39 | 2,654 | 29.3 | 330 |
| 40 to 64 | 7,540 | 54.4 | 323 |
| 65 or older | 18,632 | 74.4 | 341 |

| Monocyte count (count/ μ L) (males) | | | |
|---|------------------------|-------------|---------------|
| Age group | Number of participants | Average age | Average value |
| 0 to 6 | 123 | 3.6 | 500 |
| 7 to 15 | 401 | 11.7 | 418 |
| 16 to 39 | 1,061 | 28.0 | 347 |
| 40 to 64 | 2,755 | 54.4 | 365 |
| 65 or older | 8,633 | 74.7 | 375 |

| Monocyte count (count/ μ L) (females) | | | |
|---|------------------------|-------------|---------------|
| Age group | Number of participants | Average age | Average value |
| 0 to 6 | 109 | 3.4 | 493 |
| 7 to 15 | 402 | 12.1 | 406 |
| 16 to 39 | 1,593 | 30.1 | 318 |
| 40 to 64 | 4,785 | 54.4 | 298 |
| 65 or older | 9,999 | 74.2 | 312 |

3. Peripheral Blood Test (3)-5 Eosinophil Count

| Eosinophil count (count/ μ L) (overall) | | | |
|---|------------------------|-------------|---------------|
| Age group | Number of participants | Average age | Average value |
| 0 to 6 | 232 | 3.5 | 292 |
| 7 to 15 | 803 | 11.9 | 260 |
| 16 to 39 | 2,654 | 29.3 | 167 |
| 40 to 64 | 7,540 | 54.4 | 164 |
| 65 or older | 18,632 | 74.4 | 159 |

| Eosinophil count (count/ μ L) (males) | | | |
|---|------------------------|-------------|---------------|
| Age group | Number of participants | Average age | Average value |
| 0 to 6 | 123 | 3.6 | 318 |
| 7 to 15 | 401 | 11.7 | 291 |
| 16 to 39 | 1,061 | 28.0 | 189 |
| 40 to 64 | 2,755 | 54.4 | 186 |
| 65 or older | 8,633 | 74.7 | 184 |

| Eosinophil count (count/ μ L) (females) | | | |
|---|------------------------|-------------|---------------|
| Age group | Number of participants | Average age | Average value |
| 0 to 6 | 109 | 3.4 | 264 |
| 7 to 15 | 402 | 12.1 | 230 |
| 16 to 39 | 1,593 | 30.1 | 153 |
| 40 to 64 | 4,785 | 54.4 | 151 |
| 65 or older | 9,999 | 74.2 | 138 |

3. Peripheral Blood Test (3)-6 Basophil Count

| Basophil count (count/ μ L) (overall) | | | |
|---|------------------------|-------------|---------------|
| Age group | Number of participants | Average age | Average value |
| 0 to 6 | 232 | 3.5 | 43 |
| 7 to 15 | 803 | 11.9 | 42 |
| 16 to 39 | 2,654 | 29.3 | 41 |
| 40 to 64 | 7,540 | 54.4 | 42 |
| 65 or older | 18,632 | 74.4 | 39 |

| Basophil count (count/ μ L) (males) | | | |
|---|------------------------|-------------|---------------|
| Age group | Number of participants | Average age | Average value |
| 0 to 6 | 123 | 3.6 | 41 |
| 7 to 15 | 401 | 11.7 | 43 |
| 16 to 39 | 1,061 | 28.0 | 43 |
| 40 to 64 | 2,755 | 54.4 | 46 |
| 65 or older | 8,633 | 74.7 | 41 |

| Basophil count (count/ μ L) (females) | | | |
|---|------------------------|-------------|---------------|
| Age group | Number of participants | Average age | Average value |
| 0 to 6 | 109 | 3.4 | 46 |
| 7 to 15 | 402 | 12.1 | 41 |
| 16 to 39 | 1,593 | 30.1 | 40 |
| 40 to 64 | 4,785 | 54.4 | 40 |
| 65 or older | 9,999 | 74.2 | 38 |

4. Blood Biochemistry (1)-1 Liver Function (AST)

| AST (U/L) (overall) | | | | | |
|---------------------|------------------------|-------------|---------------|------------------|------------------|
| Age group | Number of participants | Average age | Average value | 31 U/L or higher | 51 U/L or higher |
| 0 to 6 | - | - | - | - | - |
| 7 to 15 | 800 | 11.9 | 22.7 | 10.6% | 0.9% |
| 16 to 39 | 2,659 | 29.3 | 22.0 | 11.2% | 2.6% |
| 40 to 64 | 7,544 | 54.4 | 24.2 | 14.7% | 2.9% |
| 65 or older | 18,634 | 74.4 | 25.2 | 15.4% | 2.4% |

| AST (U/L) (males) | | | | | |
|-------------------|------------------------|-------------|---------------|------------------|------------------|
| Age group | Number of participants | Average age | Average value | 31 U/L or higher | 51 U/L or higher |
| 0 to 6 | - | - | - | - | - |
| 7 to 15 | 401 | 11.7 | 25.1 | 17.0% | 1.5% |
| 16 to 39 | 1,062 | 28.0 | 25.9 | 20.6% | 4.3% |
| 40 to 64 | 2,757 | 54.4 | 26.9 | 22.3% | 4.9% |
| 65 or older | 8,634 | 74.7 | 26.1 | 18.7% | 2.9% |

| AST (U/L) (females) | | | | | |
|---------------------|------------------------|-------------|---------------|------------------|------------------|
| Age group | Number of participants | Average age | Average value | 31 U/L or higher | 51 U/L or higher |
| 0 to 6 | - | - | - | - | - |
| 7 to 15 | 399 | 12.1 | 20.3 | 4.3% | 0.3% |
| 16 to 39 | 1,597 | 30.1 | 19.4 | 4.9% | 1.4% |
| 40 to 64 | 4,787 | 54.4 | 22.7 | 10.3% | 1.7% |
| 65 or older | 10,000 | 74.2 | 24.5 | 12.5% | 2.0% |

4. Blood Biochemistry (1)-2 Liver Function (ALT)

| ALT (U/L) (overall) | | | | | |
|---------------------|------------------------|-------------|---------------|------------------|------------------|
| Age group | Number of participants | Average age | Average value | 31 U/L or higher | 51 U/L or higher |
| 0 to 6 | - | - | - | - | - |
| 7 to 15 | 800 | 11.9 | 16.1 | 5.8% | 2.4% |
| 16 to 39 | 2,659 | 29.3 | 24.4 | 19.9% | 9.4% |
| 40 to 64 | 7,544 | 54.4 | 24.9 | 21.6% | 7.0% |
| 65 or older | 18,634 | 74.4 | 21.7 | 13.8% | 3.3% |

| ALT (U/L) (males) | | | | | |
|-------------------|------------------------|-------------|---------------|------------------|------------------|
| Age group | Number of participants | Average age | Average value | 31 U/L or higher | 51 U/L or higher |
| 0 to 6 | - | - | - | - | - |
| 7 to 15 | 401 | 11.7 | 18.9 | 9.2% | 3.7% |
| 16 to 39 | 1,062 | 28.0 | 34.8 | 37.3% | 18.5% |
| 40 to 64 | 2,757 | 54.4 | 31.5 | 35.1% | 12.6% |
| 65 or older | 8,634 | 74.7 | 23.6 | 18.3% | 4.3% |

| ALT (U/L) (females) | | | | | |
|---------------------|------------------------|-------------|---------------|------------------|------------------|
| Age group | Number of participants | Average age | Average value | 31 U/L or higher | 51 U/L or higher |
| 0 to 6 | - | - | - | - | - |
| 7 to 15 | 399 | 12.1 | 13.2 | 2.3% | 1.0% |
| 16 to 39 | 1,597 | 30.1 | 17.4 | 8.3% | 3.3% |
| 40 to 64 | 4,787 | 54.4 | 21.2 | 13.8% | 3.7% |
| 65 or older | 10,000 | 74.2 | 20.1 | 9.9% | 2.4% |

4. Blood Biochemistry (1)-3 Liver Function (γ -GT)

| γ to GT (U/L) (overall) | | | | | |
|--------------------------------|------------------------|-------------|---------------|------------------|-------------------|
| Age group | Number of participants | Average age | Average value | 51 U/L or higher | 101 U/L or higher |
| 0 to 6 | - | - | - | - | - |
| 7 to 15 | 800 | 11.9 | 14.8 | 0.8% | - |
| 16 to 39 | 2,659 | 29.3 | 26.8 | 10.2% | 2.4% |
| 40 to 64 | 7,544 | 54.4 | 39.0 | 19.3% | 6.0% |
| 65 or older | 18,634 | 74.4 | 33.9 | 13.5% | 3.7% |

| γ to GT (U/L) (males) | | | | | |
|------------------------------|------------------------|-------------|---------------|------------------|-------------------|
| Age group | Number of participants | Average age | Average value | 51 U/L or higher | 101 U/L or higher |
| 0 to 6 | - | - | - | - | - |
| 7 to 15 | 401 | 11.7 | 16.6 | 1.5% | - |
| 16 to 39 | 1,062 | 28.0 | 37.4 | 19.2% | 5.0% |
| 40 to 64 | 2,757 | 54.4 | 56.7 | 34.0% | 12.2% |
| 65 or older | 8,634 | 74.7 | 43.0 | 20.6% | 6.1% |

| γ to GT (U/L) (females) | | | | | |
|--------------------------------|------------------------|-------------|---------------|------------------|-------------------|
| Age group | Number of participants | Average age | Average value | 51 U/L or higher | 101 U/L or higher |
| 0 to 6 | - | - | - | - | - |
| 7 to 15 | 399 | 12.1 | 12.9 | - | - |
| 16 to 39 | 1,597 | 30.1 | 19.7 | 4.1% | 0.7% |
| 40 to 64 | 4,787 | 54.4 | 28.8 | 10.8% | 2.5% |
| 65 or older | 10,000 | 74.2 | 26.1 | 7.4% | 1.7% |

4. Blood Biochemistry (2)-1 Lipids (LDL Cholesterol)

| LDL-C (mg/dL) (overall) | | | | | |
|-------------------------|------------------------|-------------|---------------|---------------------|---------------------|
| Age group | Number of participants | Average age | Average value | 120 mg/dL or higher | 140 mg/dL or higher |
| 0 to 6 | – | – | – | – | – |
| 7 to 15 | 800 | 11.9 | 90.0 | 9.0% | 2.5% |
| 16 to 39 | 2,659 | 29.3 | 111.2 | 36.0% | 16.9% |
| 40 to 64 | 7,544 | 54.4 | 123.2 | 52.6% | 28.8% |
| 65 or older | 18,634 | 74.4 | 114.2 | 40.7% | 18.7% |

| LDL-C (mg/dL) (males) | | | | | |
|-----------------------|------------------------|-------------|---------------|---------------------|---------------------|
| Age group | Number of participants | Average age | Average value | 120 mg/dL or higher | 140 mg/dL or higher |
| 0 to 6 | – | – | – | – | – |
| 7 to 15 | 401 | 11.7 | 89.0 | 9.2% | 2.7% |
| 16 to 39 | 1,062 | 28.0 | 115.3 | 42.8% | 21.8% |
| 40 to 64 | 2,757 | 54.4 | 121.1 | 50.9% | 26.7% |
| 65 or older | 8,634 | 74.7 | 109.7 | 35.4% | 15.0% |

| LDL-C (mg/dL) (females) | | | | | |
|-------------------------|------------------------|-------------|---------------|---------------------|---------------------|
| Age group | Number of participants | Average age | Average value | 120 mg/dL or higher | 140 mg/dL or higher |
| 0 to 6 | – | – | – | – | – |
| 7 to 15 | 399 | 12.1 | 90.9 | 8.8% | 2.3% |
| 16 to 39 | 1,597 | 30.1 | 108.5 | 31.4% | 13.7% |
| 40 to 64 | 4,787 | 54.4 | 124.4 | 53.6% | 30.0% |
| 65 or older | 10,000 | 74.2 | 118.1 | 45.3% | 21.9% |

4. Blood Biochemistry (2)-2 Lipids (Random triglycerides)

| Triglyceride (TG) (mg/dL) (overall) | | | | | |
|-------------------------------------|------------------------|-------------|---------------|---------------------|---------------------|
| Age group | Number of participants | Average age | Average value | 150 mg/dL or higher | 300 mg/dL or higher |
| 0 to 6 | – | – | – | – | – |
| 7 to 15 | 800 | 11.9 | 83.2 | 8.3% | 0.9% |
| 16 to 39 | 2,659 | 29.3 | 91.3 | 12.4% | 1.6% |
| 40 to 64 | 7,544 | 54.4 | 113.9 | 19.3% | 3.1% |
| 65 or older | 18,634 | 74.4 | 111.3 | 18.4% | 1.6% |

| Triglyceride (TG) (mg/dL) (males) | | | | | |
|-----------------------------------|------------------------|-------------|---------------|---------------------|---------------------|
| Age group | Number of participants | Average age | Average value | 150 mg/dL or higher | 300 mg/dL or higher |
| 0 to 6 | – | – | – | – | – |
| 7 to 15 | 401 | 11.7 | 77.6 | 7.5% | 0.5% |
| 16 to 39 | 1,062 | 28.0 | 110.3 | 19.6% | 3.0% |
| 40 to 64 | 2,757 | 54.4 | 142.0 | 29.7% | 6.3% |
| 65 or older | 8,634 | 74.7 | 116.8 | 21.1% | 2.3% |

| Triglyceride (TG) (mg/dL) (females) | | | | | |
|-------------------------------------|------------------------|-------------|---------------|---------------------|---------------------|
| Age group | Number of participants | Average age | Average value | 150 mg/dL or higher | 300 mg/dL or higher |
| 0 to 6 | – | – | – | – | – |
| 7 to 15 | 399 | 12.1 | 88.8 | 9.0% | 1.3% |
| 16 to 39 | 1,597 | 30.1 | 78.6 | 7.6% | 0.6% |
| 40 to 64 | 4,787 | 54.4 | 97.7 | 13.3% | 1.3% |
| 65 or older | 10,000 | 74.2 | 106.6 | 16.0% | 1.0% |

4. Blood Biochemistry (2)-2 Lipids (Fasting Triglyceride)

| Triglyceride (TG) (mg/dL) (overall) | | | | | |
|-------------------------------------|------------------------|-------------|---------------|---------------------|---------------------|
| Age group | Number of participants | Average age | Average value | 150 mg/dL or higher | 300 mg/dL or higher |
| 0 to 6 | - | - | - | - | - |
| 7 to 15 | 486 | 12.2 | 75.2 | 6.0% | 0.4% |
| 16 to 39 | 2,435 | 29.3 | 90.7 | 12.0% | 1.6% |
| 40 to 64 | 6,752 | 54.3 | 111.2 | 18.0% | 2.7% |
| 65 or older | 14,916 | 74.1 | 107.1 | 16.1% | 1.2% |

| Triglyceride (TG) (mg/dL) (males) | | | | | |
|-----------------------------------|------------------------|-------------|---------------|---------------------|---------------------|
| Age group | Number of participants | Average age | Average value | 150 mg/dL or higher | 300 mg/dL or higher |
| 0 to 6 | - | - | - | - | - |
| 7 to 15 | 247 | 11.9 | 68.2 | 4.9% | - |
| 16 to 39 | 970 | 28.1 | 110.1 | 19.2% | 3.0% |
| 40 to 64 | 2,435 | 54.3 | 139.0 | 28.5% | 5.8% |
| 65 or older | 6,926 | 74.3 | 112.4 | 19.1% | 1.7% |

| Triglyceride (TG) (mg/dL) (females) | | | | | |
|-------------------------------------|------------------------|-------------|---------------|---------------------|---------------------|
| Age group | Number of participants | Average age | Average value | 150 mg/dL or higher | 300 mg/dL or higher |
| 0 to 6 | - | - | - | - | - |
| 7 to 15 | 239 | 12.5 | 82.4 | 7.1% | 0.8% |
| 16 to 39 | 1,465 | 30.1 | 77.8 | 7.2% | 0.7% |
| 40 to 64 | 4,317 | 54.3 | 95.5 | 12.1% | 1.0% |
| 65 or older | 7,990 | 73.8 | 102.4 | 13.4% | 0.8% |

4. Blood Biochemistry (2)-3 Lipids (HDL Cholesterol)

| HDL-C (mg/dL) (overall) | | | | |
|-------------------------|------------------------|-------------|---------------|---------------------|
| Age group | Number of participants | Average age | Average value | Lower than 40 mg/dL |
| 0 to 6 | - | - | - | - |
| 7 to 15 | 800 | 11.9 | 59.9 | 2.8% |
| 16 to 39 | 2,659 | 29.3 | 62.2 | 4.1% |
| 40 to 64 | 7,544 | 54.4 | 65.6 | 3.8% |
| 65 or older | 18,634 | 74.4 | 61.5 | 4.9% |

| HDL-C (mg/dL) (males) | | | | |
|-----------------------|------------------------|-------------|---------------|---------------------|
| Age group | Number of participants | Average age | Average value | Lower than 40 mg/dL |
| 0 to 6 | - | - | - | - |
| 7 to 15 | 401 | 11.7 | 60.5 | 4.0% |
| 16 to 39 | 1,062 | 28.0 | 56.0 | 7.4% |
| 40 to 64 | 2,757 | 54.4 | 58.2 | 8.2% |
| 65 or older | 8,634 | 74.7 | 56.9 | 8.2% |

| HDL-C (mg/dL) (females) | | | | |
|-------------------------|------------------------|-------------|---------------|---------------------|
| Age group | Number of participants | Average age | Average value | Lower than 40 mg/dL |
| 0 to 6 | - | - | - | - |
| 7 to 15 | 399 | 12.1 | 59.4 | 1.5% |
| 16 to 39 | 1,597 | 30.1 | 66.3 | 1.9% |
| 40 to 64 | 4,787 | 54.4 | 69.8 | 1.3% |
| 65 or older | 10,000 | 74.2 | 65.4 | 2.0% |

4. Blood Biochemistry (3)-1 Blood Glucose (Fasting Blood Glucose)

| Fasting blood glucose (mg/dL) (overall) | | | | | | |
|---|------------------------|-------------|---------------|---------------------|---------------------|---------------------|
| Age group | Number of participants | Average age | Average value | 110 mg/dL or higher | 130 mg/dL or higher | 160 mg/dL or higher |
| 0 to 6 | - | - | - | - | - | - |
| 7 to 15 | 486 | 12.2 | 87.4 | 0.2% | - | - |
| 16 to 39 | 2,435 | 29.3 | 89.1 | 2.8% | 1.3% | 0.7% |
| 40 to 64 | 6,752 | 54.3 | 97.2 | 12.6% | 4.4% | 1.4% |
| 65 or older | 14,916 | 74.1 | 103.4 | 24.6% | 8.3% | 2.0% |

| Fasting blood glucose (mg/dL) (males) | | | | | | |
|---------------------------------------|------------------------|-------------|---------------|---------------------|---------------------|---------------------|
| Age group | Number of participants | Average age | Average value | 110 mg/dL or higher | 130 mg/dL or higher | 160 mg/dL or higher |
| 0 to 6 | - | - | - | - | - | - |
| 7 to 15 | 247 | 11.9 | 87.9 | 0.4% | - | - |
| 16 to 39 | 970 | 28.1 | 90.9 | 3.9% | 1.8% | 0.9% |
| 40 to 64 | 2,435 | 54.3 | 101.8 | 18.9% | 7.0% | 2.4% |
| 65 or older | 6,926 | 74.3 | 106.5 | 31.0% | 11.5% | 2.7% |

| Fasting blood glucose (mg/dL) (females) | | | | | | |
|---|------------------------|-------------|---------------|---------------------|---------------------|---------------------|
| Age group | Number of participants | Average age | Average value | 110 mg/dL or higher | 130 mg/dL or higher | 160 mg/dL or higher |
| 0 to 6 | - | - | - | - | - | - |
| 7 to 15 | 239 | 12.5 | 86.9 | - | - | - |
| 16 to 39 | 1,465 | 30.1 | 88.0 | 2.0% | 1.0% | 0.5% |
| 40 to 64 | 4,317 | 54.3 | 94.6 | 9.0% | 2.9% | 0.9% |
| 65 or older | 7,990 | 73.8 | 100.6 | 19.1% | 5.5% | 1.4% |

4. Blood Biochemistry (3)-2 Blood Glucose (HbA1c)

| HbA1c (%) (NGSP) (overall) | | | | | | |
|----------------------------|------------------------|-------------|---------------|----------------|----------------|----------------|
| Age group | Number of participants | Average age | Average value | 6.0% or higher | 7.0% or higher | 8.0% or higher |
| 0 to 6 | - | - | - | - | - | - |
| 7 to 15 | 800 | 11.9 | 5.4 | 0.3% | - | - |
| 16 to 39 | 2,659 | 29.3 | 5.3 | 2.4% | 1.2% | 0.7% |
| 40 to 64 | 7,544 | 54.4 | 5.6 | 13.5% | 3.3% | 1.1% |
| 65 or older | 18,633 | 74.4 | 5.8 | 26.0% | 4.6% | 0.9% |

| HbA1c (%) (NGSP) (males) | | | | | | |
|--------------------------|------------------------|-------------|---------------|----------------|----------------|----------------|
| Age group | Number of participants | Average age | Average value | 6.0% or higher | 7.0% or higher | 8.0% or higher |
| 0 to 6 | - | - | - | - | - | - |
| 7 to 15 | 401 | 11.7 | 5.4 | 0.5% | - | - |
| 16 to 39 | 1,062 | 28.0 | 5.3 | 3.1% | 1.7% | 1.0% |
| 40 to 64 | 2,757 | 54.4 | 5.6 | 17.8% | 5.1% | 1.8% |
| 65 or older | 8,634 | 74.7 | 5.8 | 30.3% | 6.2% | 1.1% |

| HbA1c (%) (NGSP) (females) | | | | | | |
|----------------------------|------------------------|-------------|---------------|----------------|----------------|----------------|
| Age group | Number of participants | Average age | Average value | 6.0% or higher | 7.0% or higher | 8.0% or higher |
| 0 to 6 | - | - | - | - | - | - |
| 7 to 15 | 399 | 12.1 | 5.4 | - | - | - |
| 16 to 39 | 1,597 | 30.1 | 5.2 | 1.9% | 0.8% | 0.5% |
| 40 to 64 | 4,787 | 54.4 | 5.5 | 11.0% | 2.2% | 0.8% |
| 65 or older | 9,999 | 74.2 | 5.7 | 22.2% | 3.3% | 0.7% |

4. Blood Biochemistry (4)-1 Renal Function (Serum Creatinine)

| Serum creatinine (mg/dL) (overall) | | | |
|------------------------------------|------------------------|-------------|---------------|
| Age group | Number of participants | Average age | Average value |
| 0 to 6 | - | - | - |
| 7 to 15 | 800 | 11.9 | 0.53 |
| 16 to 39 | 2,659 | 29.3 | 0.71 |
| 40 to 64 | 7,544 | 54.4 | 0.75 |
| 65 or older | 18,634 | 74.4 | 0.82 |

| Serum creatinine (mg/dL) (males) | | | | | |
|----------------------------------|------------------------|-------------|---------------|----------------------|----------------------|
| Age group | Number of participants | Average age | Average value | 1.15 mg/dL or higher | 1.35 mg/dL or higher |
| 0 to 6 | - | - | - | - | - |
| 7 to 15 | 401 | 11.7 | 0.56 | - | - |
| 16 to 39 | 1,062 | 28.0 | 0.85 | 1.2% | 0.2% |
| 40 to 64 | 2,757 | 54.4 | 0.88 | 3.7% | 0.8% |
| 65 or older | 8,634 | 74.7 | 0.95 | 12.3% | 4.6% |

| Serum creatinine (mg/dL) (females) | | | | | |
|------------------------------------|------------------------|-------------|---------------|----------------------|----------------------|
| Age group | Number of participants | Average age | Average value | 0.95 mg/dL or higher | 1.15 mg/dL or higher |
| 0 to 6 | - | - | - | - | - |
| 7 to 15 | 399 | 12.1 | 0.51 | - | - |
| 16 to 39 | 1,597 | 30.1 | 0.63 | 0.6% | 0.1% |
| 40 to 64 | 4,787 | 54.4 | 0.67 | 1.2% | 0.3% |
| 65 or older | 10,000 | 74.2 | 0.71 | 5.5% | 1.7% |

4. Blood Biochemistry (4)-2 Renal Function (eGFR)

| eGFR (mL/min/1.73m ²) (overall) | | | |
|---|------------------------|-------------|---------------|
| Age group | Number of participants | Average age | Average value |
| 0 to 6 | – | – | – |
| 7 to 15 | – | – | – |
| 16 to 39 | 2,659 | 29.3 | 92.6 |
| 40 to 64 | 7,544 | 54.4 | 73.7 |
| 65 or older | 18,634 | 74.4 | 63.7 |

| eGFR (mL/min/1.73m ²) (males) | | | |
|---|------------------------|-------------|---------------|
| Age group | Number of participants | Average age | Average value |
| 0 to 6 | – | – | – |
| 7 to 15 | – | – | – |
| 16 to 39 | 1,062 | 28.0 | 92.0 |
| 40 to 64 | 2,757 | 54.4 | 73.9 |
| 65 or older | 8,634 | 74.7 | 63.6 |

| eGFR (mL/min/1.73m ²) (females) | | | |
|---|------------------------|-------------|---------------|
| Age group | Number of participants | Average age | Average value |
| 0 to 6 | – | – | – |
| 7 to 15 | – | – | – |
| 16 to 39 | 1,597 | 30.1 | 93.0 |
| 40 to 64 | 4,787 | 54.4 | 73.6 |
| 65 or older | 10,000 | 74.2 | 63.8 |

4. Blood Biochemistry (4)-3 Renal Function (Uric Acid)

| Uric acid (mg/dL) (overall) | | | | | |
|-----------------------------|------------------------|-------------|---------------|---------------------|---------------------|
| Age group | Number of participants | Average age | Average value | 7.1 mg/dL or higher | 8.0 mg/dL or higher |
| 0 to 6 | – | – | – | – | – |
| 7 to 15 | 800 | 11.9 | 4.8 | 4.0% | 0.9% |
| 16 to 39 | 2,659 | 29.3 | 5.2 | 10.8% | 4.1% |
| 40 to 64 | 7,544 | 54.4 | 5.2 | 8.9% | 2.4% |
| 65 or older | 18,634 | 74.4 | 5.2 | 8.1% | 2.3% |

| Uric acid (mg/dL) (males) | | | | | | |
|---------------------------|------------------------|-------------|---------------|---------------------|---------------------|---------------------|
| Age group | Number of participants | Average age | Average value | 7.1 mg/dL or higher | 7.9 mg/dL or higher | 8.0 mg/dL or higher |
| 0 to 6 | – | – | – | – | – | – |
| 7 to 15 | 401 | 11.7 | 5.2 | 7.7% | 2.2% | 1.7% |
| 16 to 39 | 1,062 | 28.0 | 6.2 | 24.3% | 10.2% | 9.4% |
| 40 to 64 | 2,757 | 54.4 | 6.0 | 20.5% | 6.8% | 5.8% |
| 65 or older | 8,634 | 74.7 | 5.7 | 13.9% | 4.7% | 3.9% |

| Uric acid (mg/dL) (females) | | | | | | |
|-----------------------------|------------------------|-------------|---------------|---------------------|---------------------|---------------------|
| Age group | Number of participants | Average age | Average value | 5.6 mg/dL or higher | 7.1 mg/dL or higher | 8.0 mg/dL or higher |
| 0 to 6 | – | – | – | – | – | – |
| 7 to 15 | 399 | 12.1 | 4.4 | 8.5% | 0.3% | – |
| 16 to 39 | 1,597 | 30.1 | 4.4 | 12.5% | 1.9% | 0.6% |
| 40 to 64 | 4,787 | 54.4 | 4.7 | 19.1% | 2.3% | 0.5% |
| 65 or older | 10,000 | 74.2 | 4.8 | 22.6% | 3.1% | 0.9% |

Selected Publications
The Fukushima Health Management Survey:
Comprehensive Health Check
(Health Effects of Evacuation)

Radiation Medical Science Center for
the Fukushima Management Survey
Office of Comprehensive Health Check &
Health Promotion

*Published after the 54th Oversight Committee Meeting through December, 2025

- 1 *Changes in peripheral blood test results among adults in the six years following the Great East Japan Earthquake: the Fukushima Health Management Survey*
Fukushima J Med Sci. Vol. 71, No. 4, 2025 Apr 11
Akira Sakai (Radiation Medical Science Center for the Fukushima Health Management Survey, Fukushima Medical University) et al.

- 2 *Longitudinal health checkup access pattern following a triple disaster using latent class growth analysis: The Fukushima Health Management Survey*
Public Health. 2025 May 16:244:105755.
Yurie Kobashi (Radiation Medical Science Center for the Fukushima Health Management Survey, Fukushima Medical University) et al.

- 3 *Association of severe stress with the onset of chronic kidney disease after the Great East Japan Earthquake: the Fukushima Health Management Survey*
Clin Exp Nephrol. 2025 Nov 24.
Sakumi Kazama (Radiation Medical Science Center for the Fukushima Health Management Survey, Fukushima Medical University) et al.

< Past selected publications >

- The 30th Oversight Committee Meeting Document 2-4
- The 34th Oversight Committee Meeting Document 2-4
- The 41st Oversight Committee Meeting Document 3-5
- The 44th Oversight Committee Meeting Document 4-5
- The 48th Oversight Committee Meeting Document 4-5
- The 50th Oversight Committee Meeting Document 1-6
- The 54th Oversight Committee Meeting Document 1-5

Publication 1

Changes in peripheral blood test results among adults in the six years following the Great East Japan Earthquake: the Fukushima Health Management Survey

Fukushima J Med Sci. 2025 Apr 11.

Akira Sakai (Radiation Medical Science Center for the Fukushima Health Management Survey, Fukushima Medical University) et al

Relationship between the presence of anemia and its factors in males

| | 2011 | | | | 2012 | | | | 2013 | | | | 2014 | | | |
|-----------------------|------|-------|----------|--------|------|-------|----------|--------|------|-------|----------|--------|------|-------|----------|--------|
| | OR | 95%CI | <i>p</i> | | OR | 95%CI | <i>p</i> | | OR | 95%CI | <i>p</i> | | OR | 95%CI | <i>p</i> | |
| Age ≥ 65 | 1.06 | 0.72 | 1.66 | 0.766 | 0.84 | 0.62 | 1.16 | 0.274 | 1.02 | 0.71 | 1.46 | 0.927 | 0.99 | 0.69 | 1.41 | 0.934 |
| Obesity | 0.61 | 0.48 | 0.77 | <.0001 | 0.68 | 0.56 | 0.83 | 0.000 | 0.72 | 0.59 | 0.90 | 0.003 | 0.70 | 0.56 | 0.87 | 0.001 |
| Thinness | 3.63 | 2.29 | 5.76 | <.0001 | 4.39 | 3.02 | 6.38 | <.0001 | 3.40 | 2.24 | 5.16 | <.0001 | 2.94 | 1.96 | 4.44 | <.0001 |
| Evacuation | 1.09 | 0.87 | 1.36 | 0.449 | 0.76 | 0.63 | 0.90 | 0.002 | 0.92 | 0.76 | 1.12 | 0.386 | 0.77 | 0.63 | 0.93 | 0.008 |
| Smoking | 0.76 | 0.56 | 1.02 | 0.063 | 0.61 | 0.47 | 0.79 | 0.000 | 0.62 | 0.46 | 0.83 | 0.001 | 0.98 | 0.77 | 1.26 | 0.858 |
| Heavy drinking | 0.80 | 0.62 | 1.23 | 0.300 | 0.86 | 0.61 | 1.22 | 0.412 | 0.71 | 0.47 | 1.06 | 0.092 | 0.66 | 0.36 | 0.86 | 0.008 |
| EDEE ≥ 1mSv | 0.84 | 0.67 | 1.06 | 0.134 | 0.99 | 0.82 | 1.19 | 0.874 | 1.06 | 0.86 | 1.29 | 0.620 | 1.04 | 0.86 | 1.28 | 0.717 |

| | 2015 | | | | 2016 | | | | 2017 | | | |
|-----------------------|------|-------|----------|--------|------|-------|----------|--------|------|-------|----------|--------|
| | OR | 95%CI | <i>p</i> | | OR | 95%CI | <i>p</i> | | OR | 95%CI | <i>p</i> | |
| Age ≥ 65 | 1.19 | 0.84 | 1.69 | 0.328 | 1.22 | 0.84 | 1.77 | 0.302 | 0.86 | 0.60 | 1.24 | 0.426 |
| Obesity | 0.72 | 0.58 | 0.88 | 0.002 | 0.60 | 0.48 | 0.74 | <.0001 | 0.77 | 0.63 | 0.94 | 0.009 |
| Thinness | 3.21 | 2.14 | 4.82 | <.0001 | 2.37 | 1.53 | 3.66 | 0.000 | 3.04 | 2.01 | 4.60 | <.0001 |
| Evacuation | 0.83 | 0.69 | 1.01 | 0.058 | 0.92 | 0.76 | 1.11 | 0.369 | 0.89 | 0.74 | 1.08 | 0.237 |
| Smoking | 0.70 | 0.53 | 0.92 | 0.012 | 0.60 | 0.45 | 0.81 | 0.001 | 0.67 | 0.51 | 0.89 | 0.006 |
| Heavy drinking | 0.76 | 0.53 | 1.10 | 0.149 | 0.70 | 0.48 | 1.03 | 0.068 | 0.70 | 0.48 | 1.03 | 0.068 |
| EDEE ≥ 1mSv | 0.95 | 0.78 | 1.16 | 0.590 | 1.05 | 0.86 | 1.28 | 0.632 | 0.94 | 0.78 | 1.14 | 0.541 |

OR, odds ratios; CI, confidence interval

Multivariate ORs were adjusted by age, age ≥ 65, obesity, thinness, evacuation, smoking, heavy drinking, and EDEE ≥ 1mSv.

Relationship between the presence of anemia and its factors in females

| | 2011 | | | 2012 | | | 2013 | | | 2014 | | |
|----------------|------|-----------|----------|------|-----------|----------|------|-----------|----------|------|-----------|----------|
| | OR | 95%CI | <i>p</i> | OR | 95%CI | <i>p</i> | OR | 95%CI | <i>p</i> | OR | 95%CI | <i>p</i> |
| Age ≥ 65 | 1.63 | 1.36 1.97 | <.0001 | 1.80 | 1.51 2.15 | <.0001 | 1.59 | 1.32 1.92 | <.0001 | 1.59 | 1.30 1.95 | <.0001 |
| Obesity | 0.73 | 0.63 0.84 | <.0001 | 0.66 | 0.57 0.76 | <.0001 | 0.65 | 0.56 0.76 | <.0001 | 0.60 | 0.51 0.71 | <.0001 |
| Thinness | 1.11 | 0.90 1.36 | 0.328 | 1.46 | 1.22 1.76 | <.0001 | 1.21 | 0.98 1.49 | 0.082 | 1.25 | 1.00 1.56 | 0.056 |
| Evacuation | 1.17 | 1.04 1.32 | 0.010 | 0.87 | 0.78 0.98 | 0.017 | 1.00 | 0.88 1.13 | 0.993 | 0.78 | 0.69 0.89 | 0.0003 |
| Smoking | 0.74 | 0.58 0.94 | 0.013 | 0.73 | 0.57 0.93 | 0.012 | 0.69 | 0.52 0.91 | 0.010 | 1.33 | 1.11 1.58 | 0.002 |
| Heavy drinking | 0.91 | 0.42 1.98 | 0.810 | 0.90 | 0.41 1.96 | 0.783 | 0.67 | 0.27 1.67 | 0.389 | 0.77 | 0.33 1.78 | 0.538 |
| EDEE ≥ 1mSv | 1.00 | 0.88 1.14 | 0.958 | 0.93 | 0.82 1.06 | 0.289 | 0.99 | 0.87 1.13 | 0.880 | 0.94 | 0.81 1.09 | 0.397 |

| | 2015 | | | 2016 | | | 2017 | | |
|----------------|------|-----------|----------|------|-----------|----------|------|-----------|----------|
| | OR | 95%CI | <i>p</i> | OR | 95%CI | <i>p</i> | OR | 95%CI | <i>p</i> |
| Age ≥ 65 | 1.38 | 1.15 1.67 | 0.001 | 1.33 | 1.09 1.61 | 0.004 | 1.29 | 1.06 1.58 | 0.011 |
| Obesity | 0.69 | 0.59 0.80 | <.0001 | 0.71 | 0.61 0.83 | <.0001 | 0.69 | 0.59 0.80 | <.0001 |
| Thinness | 1.14 | 0.92 1.42 | 0.228 | 1.14 | 0.90 1.43 | 0.282 | 1.17 | 0.93 1.48 | 0.189 |
| Evacuation | 0.85 | 0.75 0.96 | 0.009 | 0.84 | 0.74 0.96 | 0.010 | 0.86 | 0.75 0.98 | 0.019 |
| Smoking | 0.73 | 0.54 0.98 | 0.036 | 0.74 | 0.53 1.03 | 0.078 | 0.41 | 0.27 0.65 | 0.0001 |
| Heavy drinking | 0.37 | 0.12 1.17 | 0.090 | 0.68 | 0.27 1.69 | 0.400 | 0.68 | 0.25 1.89 | 0.460 |
| EDEE ≥ 1mSv | 0.91 | 0.79 1.06 | 0.185 | 1.03 | 0.89 1.18 | 0.731 | 1.01 | 0.88 1.17 | 0.879 |

OR, odds ratios; CI, confidence interval

Multivariate ORs were adjusted by age, age ≥ 65, obesity, thinness, evacuation, smoking, heavy drinking, and EDEE ≥ 1mSv.

Abstract

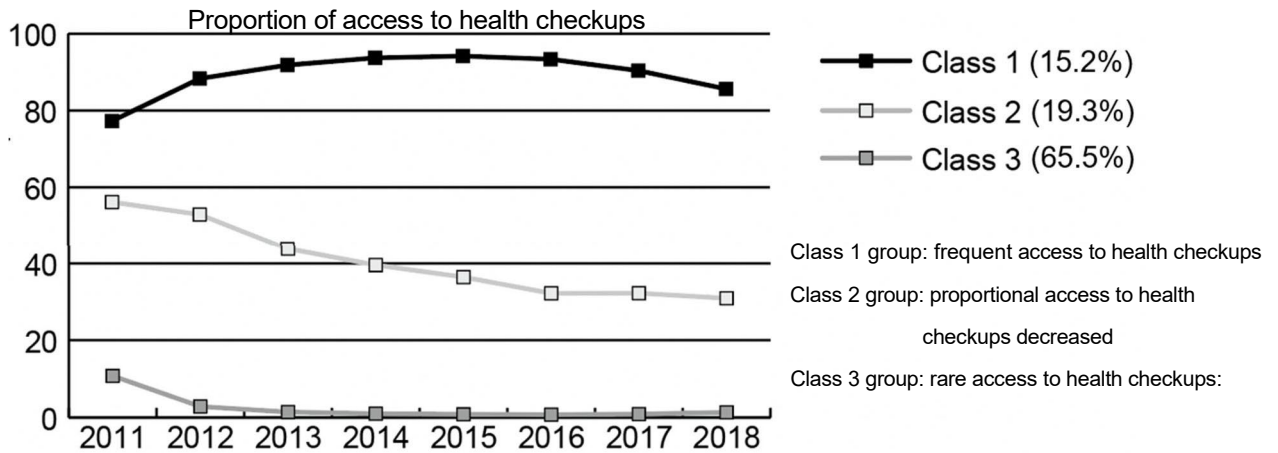
The Fukushima Health Management Survey, conducted by Fukushima Prefecture since the 2011 Great East Japan Earthquake (GEJE), has not identified any health effects from radiation exposure. Complete blood counts (CBC), which are sensitive to radiation exposure, have not shown lymphocytopenia, neutropenia, anemia, or thrombocytopenia, but the white blood cell fractions have not yet been analyzed since 2011. We classified 25,885 residents (11,383 males, 14,502 females; age range, 16-84 years) in evacuation areas with external exposure dose estimates based on behavioral surveys conducted 4 months after the GEJE into two groups (0-1 [≥0 and <1] and ≥1 mSv). We analyzed changes in CBC and leukocyte fractions from fiscal year (FY) 2011 to FY2017 and their influencing factors. Compared with FY2011, no significant increase in the number of residents with leukopenia was seen. Still, the rate of male residents with anemia increased through 2017, regardless of the radiation exposure dose, but factors contributing to the development of anemia were more critical in males. No links were found between the development of anemia and smoking, evacuation, or heavy alcohol drinking, whereas significant associations were found with thinness and older age. These findings suggest that malnutrition is a cause of anemia, especially in males.

Publication 2

Longitudinal health checkup access pattern following a triple disaster using latent class growth analysis: The Fukushima Health Management Survey

Public Health. 2025 May 16:244:105755.

Yurie Kobashi (Radiation Medical Science Center for the Fukushima Health Management Survey, Fukushima Medical University) et al.



Abstract

The aim of this study was to assess the longitudinal patterns of access to health checkups among residents of municipalities most affected by the triple disaster in Fukushima, Japan.

Study design: A prospective cohort study.

Participants included residents in 12 municipalities in Fukushima, Japan. All residents in these municipalities were eligible for the Comprehensive Health Check between 11 March 2011 and 1 April 2012. Data were sourced from the Fukushima Health Management Survey in 2021. A total of 167,479 participants aged ≥ 20 years at the time of the Great East Japan Earthquake disaster, with complete data on age, sex, municipality (2011, 2017), and health checkup visits between 2011 and 2018, were analyzed.

Annual health checkup participation rates were also reported. Latent class growth analysis was performed to classify the trajectory of access to health checkups, and multinomial logistic regression analysis was performed to determine factors associated with each group.

In total, 29.7% of participants accessed the health checkup in 2011, decreasing to 19.9% in 2018. This study identified the following three longitudinal health checkup pattern groups: (1) frequent access to health checkups (15.2%); (2) declining access to checkups (19.3%); and (3) rare access to checkups (65.5%). Notably, females and older adults were positively associated with frequent health checkup participation.

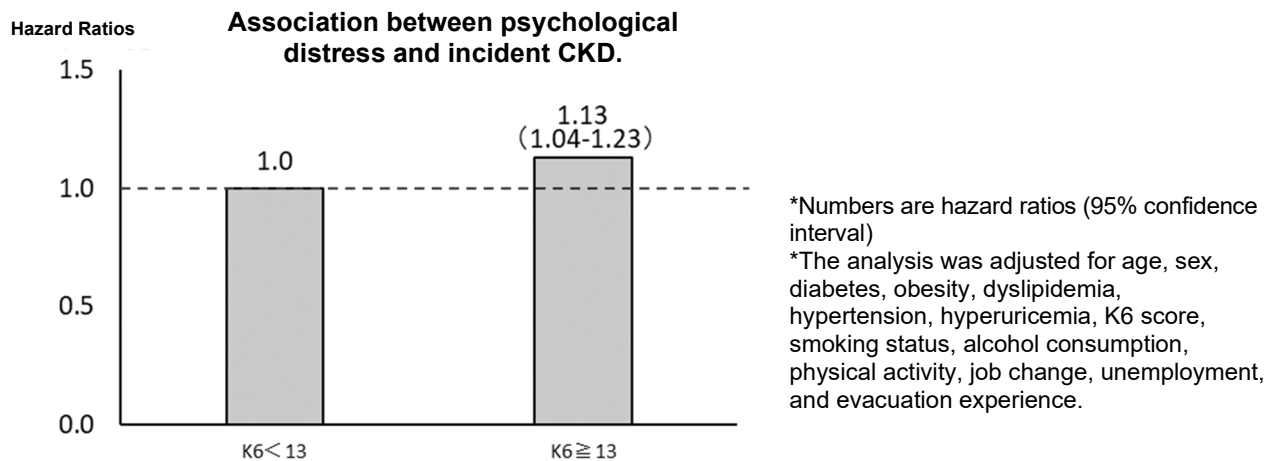
Participation in health checkups declined over time following the disaster. Comprehensive strategies are needed to promote participation in health checkups

Publication 3

Association of severe stress with the onset of chronic kidney disease after the Great East Japan Earthquake: the Fukushima Health Management Survey.

Clin Exp Nephrol. 2025 Nov 24.

Sakumi Kazama (Radiation Medical Science Center for the Fukushima Health Management Survey, Fukushima Medical University) et al.



Abstract

In 2011, the Great East Japan Earthquake hit the Futaba District on the northeast coast of Japan, followed by a tsunami and a nuclear power plant accident. In this study, we investigated the impact of post-earthquake life on the onset of chronic kidney disease (CKD) among the residents of the Futaba District.

Data on 17,859 residents of the Futaba District (7333 men, 10,526 women; mean age: 61.0 ± 10.2 years; mean follow-up period: 3.42 ± 1.51 years) who underwent health checkups and completed self-administered questionnaires of the Mental Health and Lifestyle Survey were analyzed. These residents were confirmed to be CKD-free in 2012. Hence, they were assessed for the onset of CKD from 2013 to 2017.

Univariate analysis results showed significant differences between residents with and without CKD. Differences in age, diabetes mellitus, body mass index (BMI), dyslipidemia, hypertension, hyperuricemia, Kessler 6 Psychological Distress Scale (K6) score, smoking habit, alcohol drinking history, exercise habit, history of job change, history of job loss, and evacuation experience were observed. Multivariate analysis was conducted to adjust for multiple factors, including age, BMI, dyslipidemia, hypertension, hyperuricemia, and K6 score, which were identified as significant promotional factors for CKD onset.

Among the well-recognized risk factors, severe stress reflected by a high K6 score was established to be correlated with CKD onset among residents originally without CKD. Stress management may be another treatment strategy for treating CKD.

Comprehensive Health Check for Residents Not Covered by Existing Programs in the Fukushima Health Management Survey

March 25, 2026

Healthcare Survey Division, Fukushima Prefecture

1. Purpose

As part of the Fukushima Health Management Survey, this program provides opportunities for health checkups to residents who have not previously had access to such examinations under the existing scheme. The aim is to promote the maintenance and improvement of residents' health and to contribute to achieving a society of healthy longevity in Fukushima Prefecture.

2. Eligible Population

The eligible population includes individuals who will be approximately 19 to 39 years of age in the fiscal year of implementation and who were registered as residents in Fukushima Prefecture as of April 1 of the relevant fiscal year, excluding those who have opportunities to undergo health checkups under existing programs as specified in the appendix.

[Appendix]

Health checkups conducted under the Industrial Safety and Health Act (e.g., periodic health checkups)

Health checkups for students conducted pursuant to Article 13 of the School Health and Safety Act

Comprehensive Health Check conducted by Fukushima Prefecture as part of the Fukushima Health Management Survey for residents of evacuation zones, etc.* (including additional examination items beyond standard checkups)

*Covered area: municipalities designated as evacuation zones in 2011:

Hirono Town, Naraha Town, Tomioka Town, Kawauchi Village, Okuma Town, Futaba Town, Namie Town, Katsurao Village, Iitate Village, Minamisoma City, Tamura City, Kawamata Town, and a part of Date City (specifically recommended for evacuation)

3. Health Check Items

height, weight, BMI, blood pressure, urinalysis (urine sugar, urine protein), blood biochemistry (AST、ALT、 γ -GT、TG、HDL-C、LDL-C、HbA1c, fasting or random blood glucose)

4. Implementation Methods

Health checks are outsourced to municipalities, contracted by health checkup providers, then carried out at medical institutions and through group health checkups within the prefecture.

5. Implementation Status by Fiscal Year

(persons)

| Method of implementation | FY2012 | FY2021 | FY2022 | FY2023 | FY2024 | FY2025 |
|--------------------------|--------|--------|--------|--------|--------|--------------------|
| Municipalities | 12,148 | 3,263 | 3,372 | 3,084 | 2,898 | Currently underway |
| Health checkup provider | 11,773 | 7,175 | 6,453 | 5,846 | 5,655 | |
| Total | 23,921 | 10,438 | 9,825 | 8,930 | 8,553 | |

For the results from FY2013 to FY2020, please refer to the 44th Oversight Committee meeting document.

6. FY2026 Implementation Plan (Draft)

The Comprehensive Health Check (CHC) will be scheduled and conducted through group examinations, locally organized by 32 municipalities. In addition, 27 municipalities plan to implement the CHC by utilizing external service providers (including municipalities that overlap with those outsourcing cases).

| | Apr 2026 | May 2026 | Jun 2026 | Jul 2026 | Aug 2026 | Sep 2026 | Oct 2026 | Nov 2026 | Dec 2026 | Jan 2027 | Feb 2027 | Mar 2027 |
|--------------------------|--|----------|----------|----------|---|----------|----------|-----------------|----------|----------|----------|----------|
| Manucipalities | Municipality-based health checkups (estimated number of notification recipients: approx. 91,000) | | | | | | | | | | | |
| Health checkup providers | | | | | Notifications (estimated number of notification recipients: approx. *215,000) | | | Implementations | | | | |

Note: The number of notification recipients refers to individuals to whom invitations were sent, as it was not possible to determine their type of health insurance coverage in advance.

**Tabulation errors in the results reports of the Thyroid Ultrasound Examination (TUE)
for the Fukushima Health Management Survey (FHMS)**

1. Overview

At the 56th Fukushima Prefectural Oversight Committee Meeting for the FHMS (hereafter referred to as the “56th Oversight Committee Meeting”) held on July 25, 2025, the “Primary Examination Results” in the “Report on the TUE Full-Scale Survey (Age 25 Survey)” were intended to be reported for individuals born between FY1992 and FY1999. However, in some materials, an error occurred: the data were tabulated only for individuals born between FY1992 and FY1998 (excluding those born in FY1999).

In addition, regarding the “Primary Examination Results” in the “Report on the TUE Full-Scale Survey (Age 30 Survey),” the report was intended to cover individuals born between FY1992 and FY1994. However, in some materials, an error occurred: the data were tabulated for individuals born in FY1992 and FY1993 (excluding those born in FY1994).

2. Corresponding document and contents

- (1) Document 3-2 Age 25 Survey report for the 56th Oversight Committee Meeting
Report on the TUE Full-Scale Survey (Age 25 Survey) as of March 31, 2025
 - 1 Summary (1.1 Eligible Persons)
 - 2.1-2 Comparison with previous examination results
 - Appendix 2: Implementation status of the Survey, by prefecture
 - Appendix 4.2: Nodule characteristics
 - Appendix 4.3: Cyst characteristics

- (2) Document 3-3 Age 30 Survey report for the 56th Oversight Committee Meeting
Report on the TUE Full-Scale Survey (Age 30 Survey) as of March 31, 2025
 - 1 Summary (1.1 Eligible Persons)
 - 2.1-2 Comparison with previous examination results
 - Appendix 2: Implementation status of the Survey, by prefecture
 - Appendix 4.2: Nodule characteristics
 - Appendix 4.3: Cyst characteristics

Document 3-2 Age 25 Survey report for the 56th Oversight Committee Meeting

(Erroneous data)

1. Summary

1.1 Eligible Persons

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

This report includes the Survey status of those born between FY1992 and FY1999 (those born between April 2, 1992, and April 1, 2000)

(Correct data)

1. Summary

1.1 Eligible Persons

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

This report includes the Survey status of those born between FY1992 and FY1999 (those born between April 2, 1992, and April 1, 2000)

*Because individuals born in FY1999 have relatively few examination records, only the results of the primary examination are reported.

Document 3-2 Age 25 Survey report for the 56th Oversight Committee Meeting**(Erroneous data)**

2.1-2 Comparison with previous examination results

Table 3 compares the results of the Age 25 Survey and the previous survey.

Among 7,385 participants (sum of *1) with Grade A1 or A2 results in the previous survey, 7,192 (sum of *2, 97.4%) had Grade A1 or A2 results, and 193 (sum of *3, 2.6%) had Grade B results in the Age 25 Survey.

Among 263 participants with Grade B results in the previous survey, 61 (sum of *4, 23.2%) had Grade A (A1 or A2) results, and 202 (76.8%) had Grade B results in the Age 25 Survey.

Table 3: Comparison with the previous Survey results

| | | | Results of the previous survey* | Results of the Age 25 survey** | | | |
|--------------------------------|---------------------|------------------|---------------------------------|--------------------------------|--------------------|-----------------|------------|
| | | | | A | | B | C |
| | | | | A1 | A2 | | |
| a | b | c | d | e | | | |
| | | | (%) | (b/a) | (c/a) | (d/a) | (e/a) |
| Results of the previous survey | A | A1 | 2,979 *1 (100.0) | 2,407 *2 (80.8) | 544 *2 (18.3) | 28 *3 (0.9) | 0 (0.0) |
| | | A2 | 4,406 *1 (100.0) | 732 *2 (16.6) | 3,509 *2 (79.6) | 165 *3 (3.7) | 0 (0.0) |
| | B | 263 (100.0) | 7 *4 (2.7) | 54 *4 (20.5) | 202 (76.8) | 0 (0.0) | |
| | C | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | |
| | Did not participate | 5,275 (100.0) | 2,321 (44.0) | 2,630 (49.9) | 324 (6.1) | 0 (0.0) | |
| Total | | | 12,923 (100.0) | 5,467 (42.3) | 6,737 (52.1) | 719 (5.6) | 0 (0.0) |

*Results of the previous survey for the Age 25 Survey participants, with finalized results

** Results of the Age 25 Survey participants diagnosed for each grade in the previous survey. The lower figures are proportions (%).

(Correct data)

2.1-2 Comparison with previous examination results

Table 3 compares the results of the Age 25 Survey and the previous survey.

Among 7,907 participants (sum of *1) with Grade A1 or A2 results in the previous survey, 7,707 (sum of *2, 97.5%) had Grade A1 or A2 results, and 200 (sum of *3, 2.5%) had Grade B results in the Age 25 Survey.

Among 299 participants with Grade B results in the previous survey, 67 (sum of *4, 22.4%) had Grade A (A1 or A2) results, and 232 (77.6%) had Grade B results in the Age 25 Survey.

Table 3: Comparison with the previous Survey results

| | | | Results of the previous survey* | Results of the Age 25 survey** | | | |
|--------------------------------|---------------------|------------------|---------------------------------|--------------------------------|--------------------|-----------------|------------|
| | | | | A | | B | C |
| | | | | A1 | A2 | | |
| a | b | c | d | e | | | |
| | | | (%) | (b/a) | (c/a) | (d/a) | (e/a) |
| Results of the previous survey | A | A1 | 3,176 *1 (100.0) | 2,572 *2 (81.0) | 576 *2 (18.1) | 28 *3 (0.9) | 0 (0.0) |
| | | A2 | 4,731 *1 (100.0) | 797 *2 (16.8) | 3,762 *2 (79.5) | 172 *3 (3.6) | 0 (0.0) |
| | B | 299 (100.0) | 8 *4 (2.7) | 59 *4 (19.7) | 232 (77.6) | 0 (0.0) | |
| | C | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | |
| | Did not participate | 5,569 (100.0) | 2,446 (43.9) | 2,783 (50.0) | 340 (6.1) | 0 (0.0) | |
| Total | | | 13,775 (100.0) | 5,823 (42.3) | 7,180 (52.1) | 772 (5.6) | 0 (0.0) |

*Results of the previous survey for the Age 25 Survey participants, with finalized results

** Results of the Age 25 Survey participants diagnosed for each grade in the previous survey. The lower figures are proportions (%).

3-2 Age 25 Survey report for the 56th Oversight Committee Meeting**(Erroneous data) Appendix 2: Implementation status by prefecture**

As of February 28, 2025

| Prefecture | No. of medical facilities | Participants (persons) | Prefecture | No. of medical facilities | Participants (persons) | Prefecture | No. of medical facilities | Participants (persons) |
|------------|---------------------------|------------------------|------------|---------------------------|------------------------|--------------|---------------------------|------------------------|
| Hokkaido | 7 | 77 | Fukui | 1 | 4 | Hiroshima | 1 | 17 |
| Aomori | 3 | 20 | Yamanashi | 2 | 13 | Yamaguchi | 1 | 2 |
| Iwate | 4 | 61 | Nagano | 4 | 28 | Tokushima | 1 | 3 |
| Miyagi | 2 | 495 | Gifu | 2 | 6 | Kagawa | 1 | 2 |
| Akita | 1 | 19 | Shizuoka | 3 | 48 | Ehime | 3 | 3 |
| Yamagata | 3 | 61 | Aichi | 6 | 81 | Kochi | 2 | 2 |
| Ibaraki | 6 | 222 | Mie | 1 | 4 | Fukuoka | 4 | 25 |
| Tochigi | 9 | 225 | Shiga | 1 | 9 | Saga | 1 | 1 |
| Gunma | 2 | 51 | Kyoto | 4 | 36 | Nagasaki | 3 | 2 |
| Saitama | 5 | 282 | Osaka | 10 | 75 | Kumamoto | 1 | 6 |
| Chiba | 5 | 224 | Hyogo | 3 | 34 | Oita | 1 | 3 |
| Tokyo | 23 | 1,982 | Nara | 4 | 3 | Miyazaki | 1 | 3 |
| Kanagawa | 9 | 438 | Wakayama | 1 | 6 | Kagoshima | 2 | 2 |
| Niigata | 3 | 81 | Tottori | 1 | 3 | Okinawa | 1 | 7 |
| Toyama | 2 | 8 | Shimane | 1 | 1 | | | |
| Ishikawa | 2 | 6 | Okayama | 3 | 9 | Total | 156 | 4,690 |

The number of those who received examinations at medical facilities outside Fukushima prefecture

(Correct data) Appendix 2: Implementation status by prefecture

As of February 28, 2025

| Prefecture | No. of medical facilities | Participants (persons) | Prefecture | No. of medical facilities | Participants (persons) | Prefecture | No. of medical facilities | Participants (persons) |
|------------|---------------------------|------------------------|------------|---------------------------|------------------------|--------------|---------------------------|------------------------|
| Hokkaido | 7 | 82 | Fukui | 1 | 4 | Hiroshima | 1 | 18 |
| Aomori | 3 | 22 | Yamanashi | 2 | 15 | Yamaguchi | 1 | 3 |
| Iwate | 4 | 63 | Nagano | 4 | 32 | Tokushima | 1 | 3 |
| Miyagi | 2 | 538 | Gifu | 2 | 8 | Kagawa | 1 | 3 |
| Akita | 1 | 20 | Shizuoka | 3 | 51 | Ehime | 3 | 3 |
| Yamagata | 3 | 64 | Aichi | 6 | 86 | Kochi | 2 | 2 |
| Ibaraki | 6 | 233 | Mie | 1 | 4 | Fukuoka | 4 | 25 |
| Tochigi | 9 | 246 | Shiga | 1 | 10 | Saga | 1 | 2 |
| Gunma | 2 | 54 | Kyoto | 4 | 37 | Nagasaki | 3 | 2 |
| Saitama | 5 | 309 | Osaka | 10 | 83 | Kumamoto | 1 | 7 |
| Chiba | 5 | 237 | Hyogo | 3 | 34 | Oita | 1 | 3 |
| Tokyo | 23 | 2,110 | Nara | 4 | 3 | Miyazaki | 1 | 4 |
| Kanagawa | 9 | 462 | Wakayama | 1 | 7 | Kagoshima | 2 | 3 |
| Niigata | 3 | 91 | Tottori | 1 | 3 | Okinawa | 1 | 8 |
| Toyama | 2 | 8 | Shimane | 1 | 1 | | | |
| Ishikawa | 2 | 6 | Okayama | 3 | 10 | Total | 156 | 5,019 |

The number of those who received examinations at medical facilities outside Fukushima prefecture

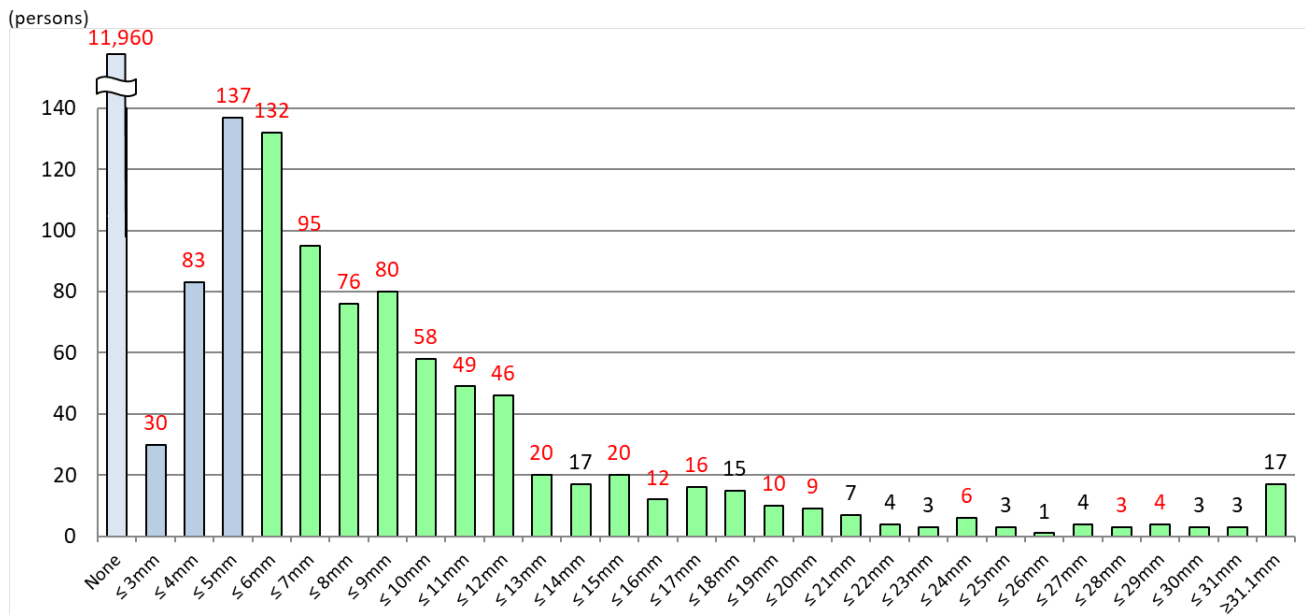
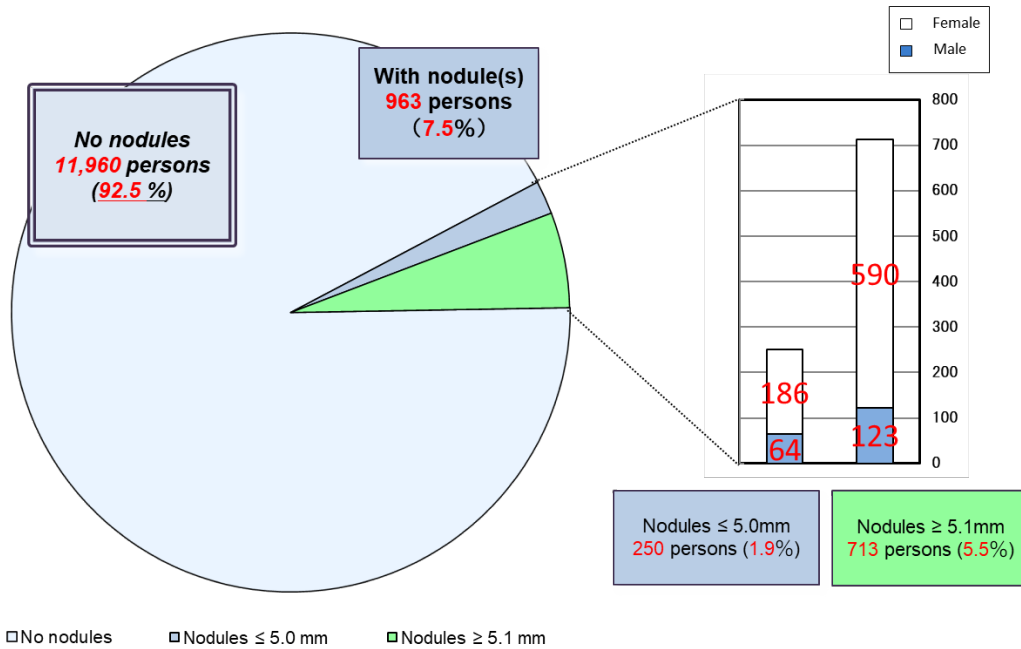
3-2 Age 25 Survey report for the 56th Oversight Committee Meeting

(Erroneous data) Appendix 4-2: Nodule characteristics

As of March 31, 2025

(persons)

| Nodule size | Total | Gender | | Grade | |
|--------------|---------------|--------------|--------------|-------|-------|
| | | Male | Female | | |
| None | 11,960 | 4,234 | 7,726 | A1 | 92.5% |
| ≤ 3.0mm | 30 | 8 | 22 | A2 | 1.9% |
| 3.1–5.0mm | 220 | 56 | 164 | | |
| 5.1–10.0mm | 441 | 79 | 362 | B | 5.5% |
| 10.1–15.0mm | 152 | 30 | 122 | | |
| 15.1–20.0mm | 62 | 8 | 54 | | |
| 20.1–25.0mm | 23 | 3 | 20 | | |
| ≥ 25.1mm | 35 | 3 | 32 | | |
| Total | 12,923 | 4,421 | 8,502 | | |

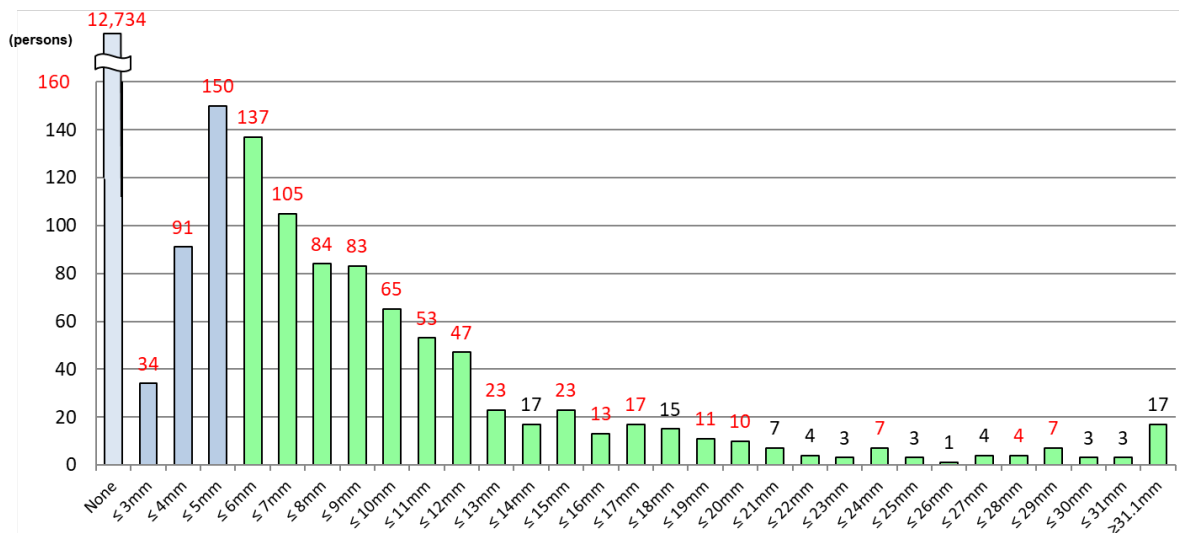
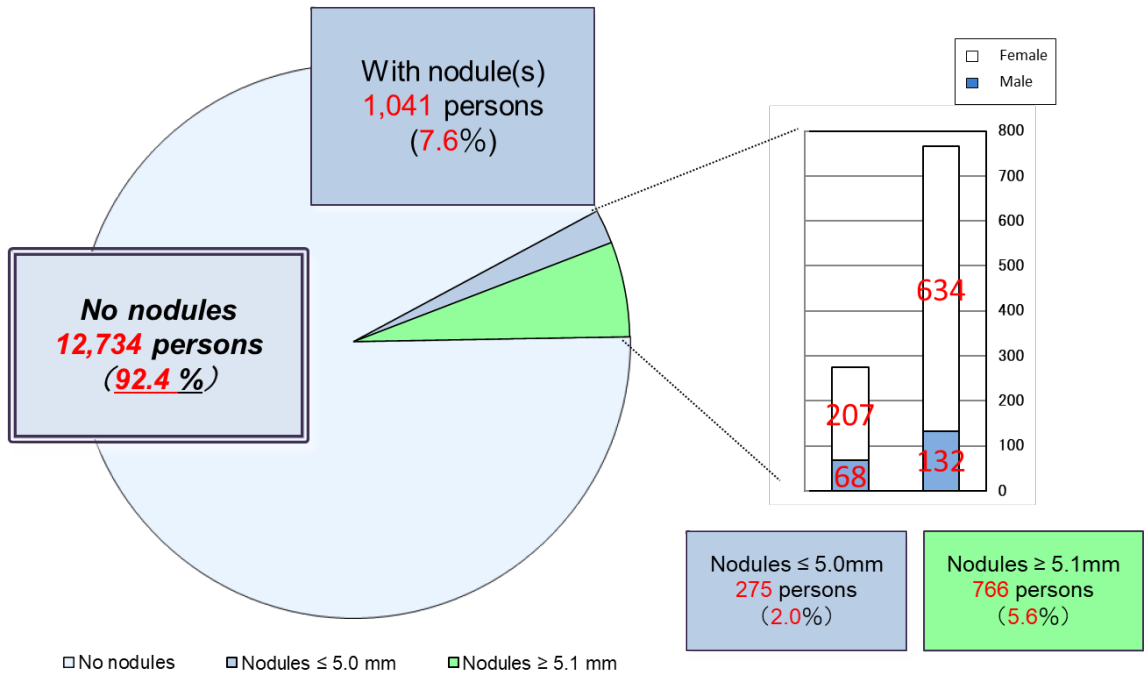


3-2 Age 25 Survey report for the 56th Oversight Committee Meeting

(Correct data) Appendix 4-2: Nodule characteristics

As of March 31, 2025
(persons)

| Nodule size | Total | Gender | | Grade | |
|--------------|---------------|--------------|--------------|-------|-------|
| | | Male | Female | | |
| None | 12,734 | 4,519 | 8,215 | A1 | 92.4% |
| ≤ 3.0mm | 34 | 8 | 26 | A2 | 2.0% |
| 3.1–5.0mm | 241 | 60 | 181 | | |
| 5.1–10.0mm | 474 | 87 | 387 | B | 5.6% |
| 10.1–15.0mm | 163 | 30 | 133 | | |
| 15.1–20.0mm | 66 | 9 | 57 | | |
| 20.1–25.0mm | 24 | 3 | 21 | | |
| ≥ 25.1mm | 39 | 3 | 36 | | |
| Total | 13,775 | 4,719 | 9,056 | | |



3-2 Age 25 Survey report for the 56th Oversight Committee Meeting

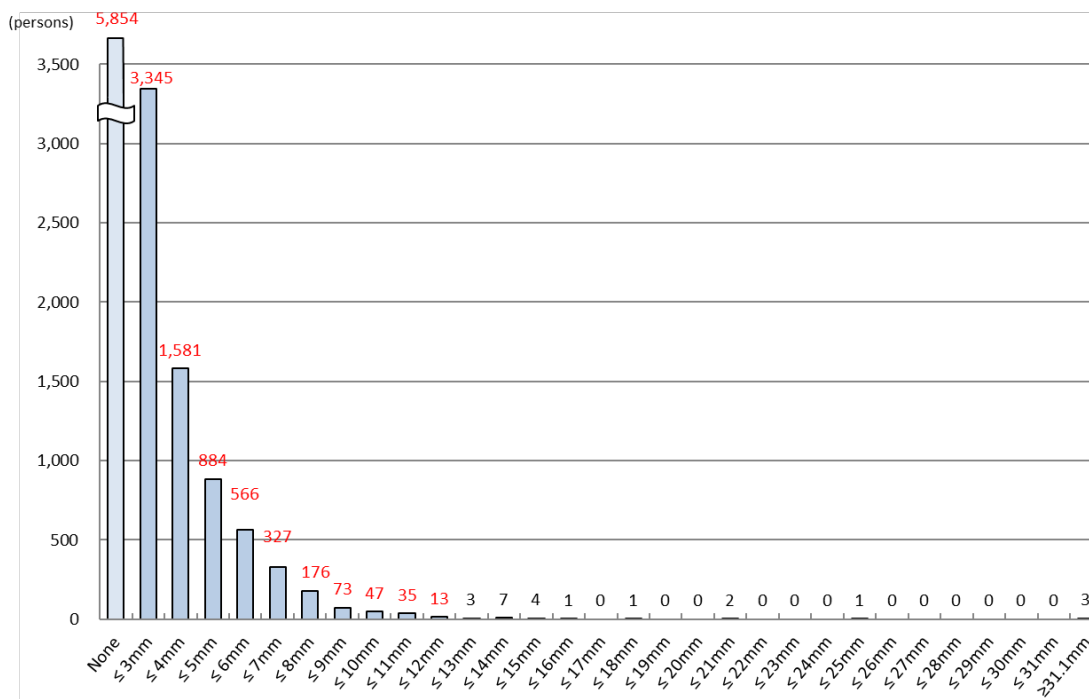
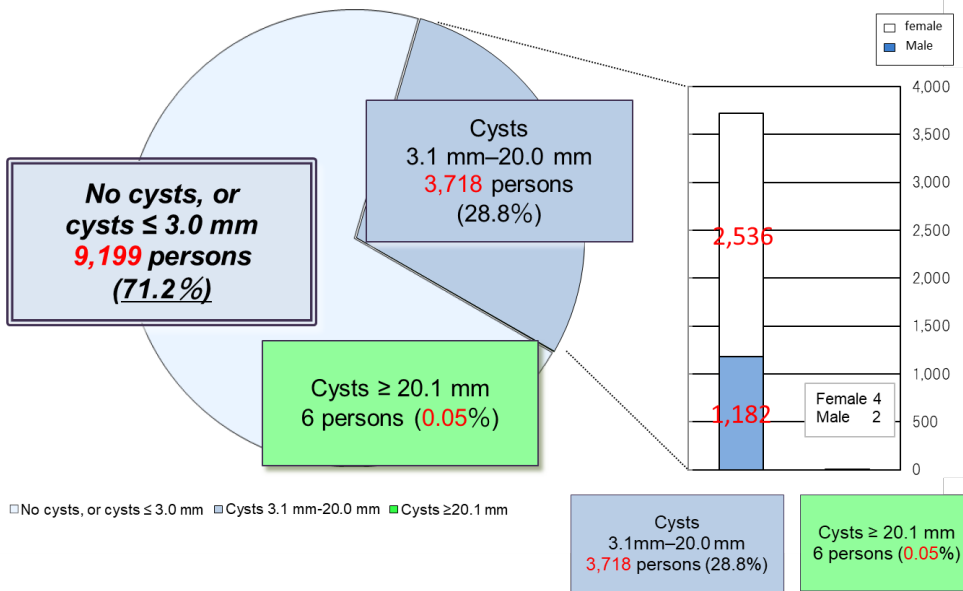
(Erroneous data) Appendix 4-3: Cyst characteristics

As of March 31, 2025

000

(persons)

| Cyst size | Total | Gender | | Grade | |
|--------------|---------------|--------------|--------------|-------|------------|
| | | Male | Female | Grade | Percentage |
| None | 5,854 | 2,054 | 3,800 | A1 | 71.2% |
| ≤ 3.0mm | 3,345 | 1,183 | 2,162 | A2 | |
| 3.1–5.0mm | 2,465 | 838 | 1,627 | | |
| 5.1–10.0mm | 1,189 | 332 | 857 | | |
| 10.1–15.0mm | 62 | 11 | 51 | | |
| 15.1–20.0mm | 2 | 1 | 1 | B | 0.05% |
| 20.1–25.0mm | 3 | 0 | 3 | | |
| ≥ 25.1mm | 3 | 2 | 1 | | |
| Total | 12,923 | 4,421 | 8,502 | | |

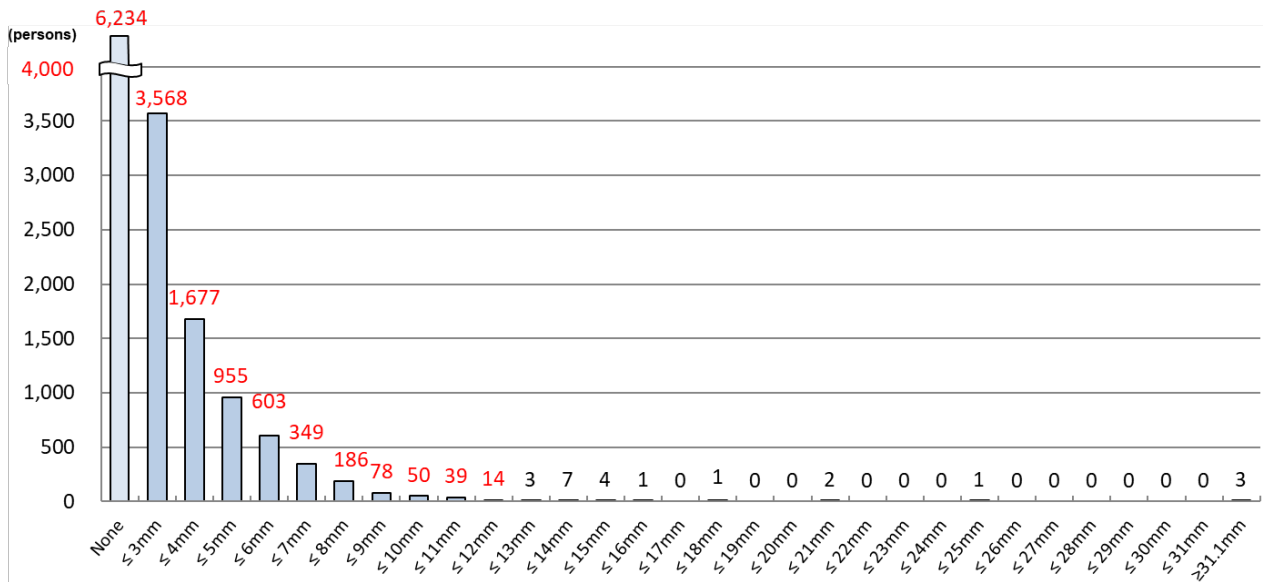
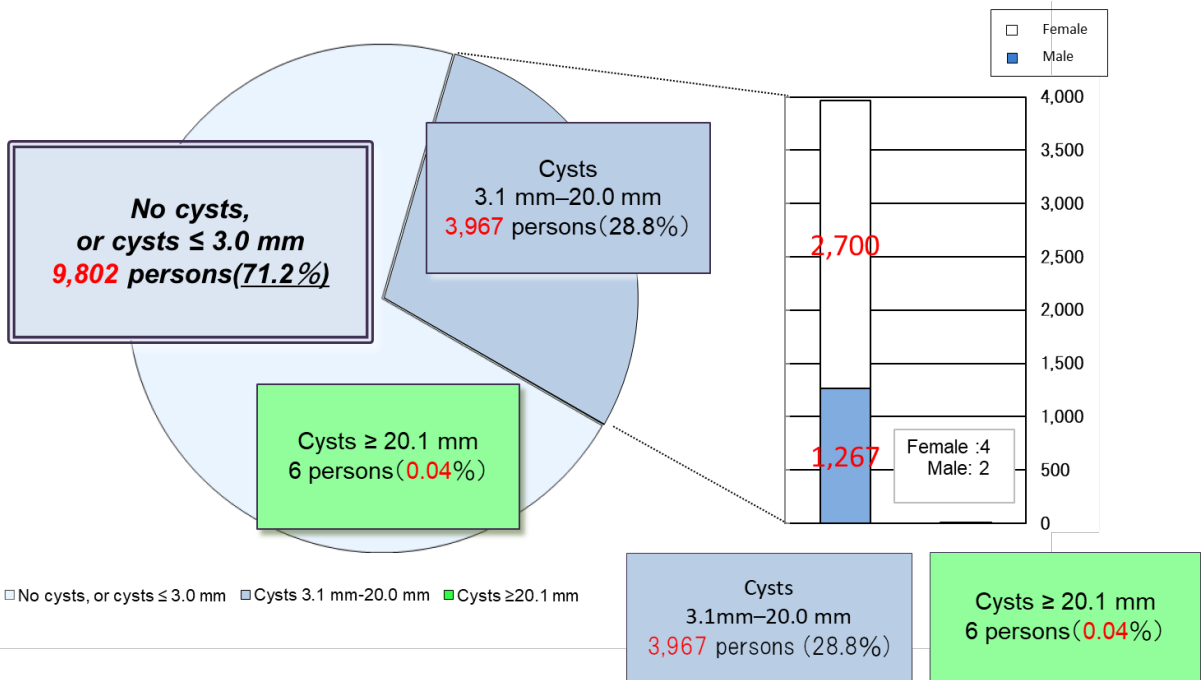


3-2 Age 25 Survey report for the 56th Oversight Committee Meeting

(Correct data) Appendix 4-3: Cyst characteristics

As of March 31, 2025

| Cyst size | Total | (persons) | | Grade | |
|--------------|---------------|--------------|--------------|-------|-------|
| | | Male | Female | | |
| None | 6,234 | 2,198 | 4,036 | A1 | 71.2% |
| ≤ 3.0mm | 3,568 | 1,252 | 2,316 | A2 | |
| 3.1–5.0mm | 2,632 | 903 | 1,729 | | |
| 5.1–10.0mm | 1,266 | 350 | 916 | | |
| 10.1–15.0mm | 67 | 13 | 54 | | |
| 15.1–20.0mm | 2 | 1 | 1 | | |
| 20.1–25.0mm | 3 | 0 | 3 | B | 0.04% |
| ≥ 25.1mm | 3 | 2 | 1 | | |
| Total | 13,775 | 4,719 | 9,056 | | |



Document 3-3 Age 30 Survey report for the 56th Oversight Committee Meeting

(Erroneous data)

1. Summary

1.1 Eligible Persons

Among Fukushima residents 18 years old or younger at the time of the disaster (those born between April 2, 1992, and April 1, 2012), those who turn 30 years old during each fiscal year, including those who moved out of Fukushima Prefecture, are invited to receive a thyroid ultrasound examination (TUE).

This report includes the Survey status of those born between FY1992 and FY1994 (those born between April 2, 1992, and April 1, 1995)

(Correct data)

1. Summary

1.1 Eligible Persons

Among Fukushima residents 18 years old or younger at the time of the disaster (those born between April 2, 1992, and April 1, 2012), those who turn 30 years old during each fiscal year, including those who moved out of Fukushima Prefecture, are invited to receive a thyroid ultrasound examination (TUE).

This report includes the Survey status of those born between FY1992 and FY1994 (those born between April 2, 1992, and April 1, 1995)

*Because individuals born in FY1994 have relatively few examination records, only the results of the primary examination are reported.

Document 3-3 Age 30 Survey report for the 56th Oversight Committee Meeting**(Erroneous data)**

2.1-2 Comparison with previous examination results

Table 3 compares the results of the Age 30 Survey and the Age 25 Survey.

Among **1,691** participants (sum of *1) with Grade A1 or A2 results in the Age 25 Survey, **1,609** (sum of *2, **95.2%**) had Grade A1 or A2 results, and **82** (sum of *3, **4.8%**) had Grade B results in the Age 30 Survey.

Among **89** participants with Grade B results in the Age 25 survey, **18** (sum of *4, **20.2%**) had Grade A (A1 or A2) results, and **71** (**79.8%**) had Grade B results in the Age 30 Survey.

Table 3: Comparison with the Age 25 Survey results

| | | | Results of the Age 25 survey* | Results of the Age 30 survey** | | | |
|------------------------------|---------------------|-------------------------|-------------------------------|----------------------------------|----------------------------------|--------------------------------|------------|
| | | | | A | | B | C |
| | | | a (%) | b (b/a) | c (c/a) | | |
| Results of the Age 25 survey | A | A1 | 707 *1 (100.0) | 557 *2 (78.8) | 132 *2 (18.7) | 18 *3 (2.5) | 0 (0.0) |
| | | A2 | 984 *1 (100.0) | 183 *2 (18.6) | 737 *2 (74.9) | 64 *3 (6.5) | 0 (0.0) |
| | B | 89 (100.0) | 4 *4 (4.5) | 14 *4 (15.7) | 71 (79.8) | 0 (0.0) | |
| | C | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | |
| | Did not participate | 1,277 (100.0) | 572 (44.8) | 587 (46.0) | 118 (9.2) | 0 (0.0) | |
| Total | | | 3,057 (100.0) | 1,316 (43.0) | 1,470 (48.1) | 271 (8.9) | 0 (0.0) |

*

Results of the Age 25 Survey participants with finalized results.

** Results of the Age 30 Survey participants diagnosed for each grade in the Age 25 Survey. The lower figures are their proportion (%)

(Correct data)

2.1-2 Comparison with previous examination results

Table 3 compares the results of the Age 30 Survey and the Age 25 Survey.

Among **2,243** participants (sum of *1) with Grade A1 or A2 results in the Age 25 Survey, **2,146** (sum of *2, **95.7%**) had Grade A1 or A2 results, and **97** (sum of *3, **4.3%**) had Grade B results in the Age 30 Survey.

Among **131** participants with Grade B results in the Age 25 survey, **26** (sum of *4, **19.8%**) had Grade A (A1 or A2) results, and **105** (**80.2%**) had Grade B results in the Age 30 Survey.

Table 3: Comparison with the Age 25 Survey results

| | | | Results of the Age 25 survey* | Results of the Age 30 survey** | | | |
|------------------------------|---------------------|-------------------------|-------------------------------|----------------------------------|----------------------------------|--------------------------------|------------|
| | | | | A | | B | C |
| | | | a (%) | b (b/a) | c (c/a) | | |
| Results of the Age 25 survey | A | A1 | 948 *1 (100.0) | 758 *2 (80.0) | 169 *2 (17.8) | 21 *3 (2.2) | 0 (0.0) |
| | | A2 | 1,295 *1 (100.0) | 237 *2 (18.3) | 982 *2 (75.8) | 76 *3 (5.9) | 0 (0.0) |
| | B | 131 (100.0) | 6 *4 (4.6) | 20 *4 (15.3) | 105 (80.2) | 0 (0.0) | |
| | C | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | |
| | Did not participate | 1,680 (100.0) | 760 (45.2) | 767 (45.7) | 153 (9.1) | 0 (0.0) | |
| Total | | | 4,054 (100.0) | 1,761 (43.4) | 1,938 (47.8) | 355 (8.8) | 0 (0.0) |

* Results of the Age 25 Survey participants with finalized results.

** Results of the Age 30 Survey participants diagnosed for each grade in the Age 25 Survey. The lower figures are their proportion (%)

Document 3-3 Age 30 Survey report for the 56th Oversight Committee Meeting**(Erroneous data) Appendix 2: Implementation status by prefecture**

As of February 28, 2025

| Prefecture | No. of medical facilities | Participants (persons) | Prefecture | No. of medical facilities | Participants (persons) | Prefecture | No. of medical facilities | Participants (persons) |
|------------|---------------------------|------------------------|------------|---------------------------|------------------------|--------------|---------------------------|------------------------|
| Hokkaido | 7 | 14 | Fukui | 1 | 1 | Hiroshima | 1 | 2 |
| Aomori | 3 | 8 | Yamanashi | 2 | 5 | Yamaguchi | 1 | 1 |
| Iwate | 4 | 9 | Nagano | 4 | 11 | Tokushima | 1 | 1 |
| Miyagi | 2 | 127 | Gifu | 2 | 1 | Kagawa | 1 | 1 |
| Akita | 1 | 4 | Shizuoka | 3 | 4 | Ehime | 3 | 1 |
| Yamagata | 3 | 18 | Aichi | 6 | 24 | Kochi | 2 | 1 |
| Ibaraki | 6 | 67 | Mie | 1 | 1 | Fukuoka | 4 | 5 |
| Tochigi | 9 | 51 | Shiga | 1 | 2 | Saga | 1 | 3 |
| Gunma | 2 | 19 | Kyoto | 4 | 7 | Nagasaki | 3 | 1 |
| Saitama | 5 | 80 | Osaka | 10 | 24 | Kumamoto | 1 | 2 |
| Chiba | 5 | 45 | Hyogo | 3 | 4 | Oita | 1 | 0 |
| Tokyo | 23 | 527 | Nara | 4 | 2 | Miyazaki | 1 | 1 |
| Kanagawa | 9 | 93 | Wakayama | 1 | 1 | Kagoshima | 2 | 0 |
| Niigata | 3 | 11 | Tottori | 1 | 2 | Okinawa | 1 | 2 |
| Toyama | 2 | 0 | Shimane | 1 | 0 | | | |
| Ishikawa | 2 | 1 | Okayama | 3 | 5 | Total | 156 | 1,189 |

The number of those who received examinations at medical facilities outside Fukushima prefecture

(Correct data) Appendix 2: Implementation status by prefecture

As of February 28, 2025

| Prefecture | No. of medical facilities | Participants (persons) | Prefecture | No. of medical facilities | Participants (persons) | Prefecture | No. of medical facilities | Participants (persons) |
|------------|---------------------------|------------------------|------------|---------------------------|------------------------|--------------|---------------------------|------------------------|
| Hokkaido | 7 | 24 | Fukui | 1 | 1 | Hiroshima | 1 | 6 |
| Aomori | 3 | 14 | Yamanashi | 2 | 6 | Yamaguchi | 1 | 1 |
| Iwate | 4 | 15 | Nagano | 4 | 15 | Tokushima | 1 | 1 |
| Miyagi | 2 | 151 | Gifu | 2 | 2 | Kagawa | 1 | 1 |
| Akita | 1 | 8 | Shizuoka | 3 | 9 | Ehime | 3 | 1 |
| Yamagata | 3 | 21 | Aichi | 6 | 33 | Kochi | 2 | 1 |
| Ibaraki | 6 | 82 | Mie | 1 | 1 | Fukuoka | 4 | 5 |
| Tochigi | 9 | 72 | Shiga | 1 | 2 | Saga | 1 | 3 |
| Gunma | 2 | 26 | Kyoto | 4 | 7 | Nagasaki | 3 | 2 |
| Saitama | 5 | 118 | Osaka | 10 | 40 | Kumamoto | 1 | 3 |
| Chiba | 5 | 54 | Hyogo | 3 | 8 | Oita | 1 | 0 |
| Tokyo | 23 | 703 | Nara | 4 | 2 | Miyazaki | 1 | 2 |
| Kanagawa | 9 | 127 | Wakayama | 1 | 1 | Kagoshima | 2 | 1 |
| Niigata | 3 | 20 | Tottori | 1 | 2 | Okinawa | 1 | 2 |
| Toyama | 2 | 0 | Shimane | 1 | 0 | | | |
| Ishikawa | 2 | 1 | Okayama | 3 | 6 | Total | 156 | 1,600 |

The number of those who received examinations at medical facilities outside Fukushima prefecture

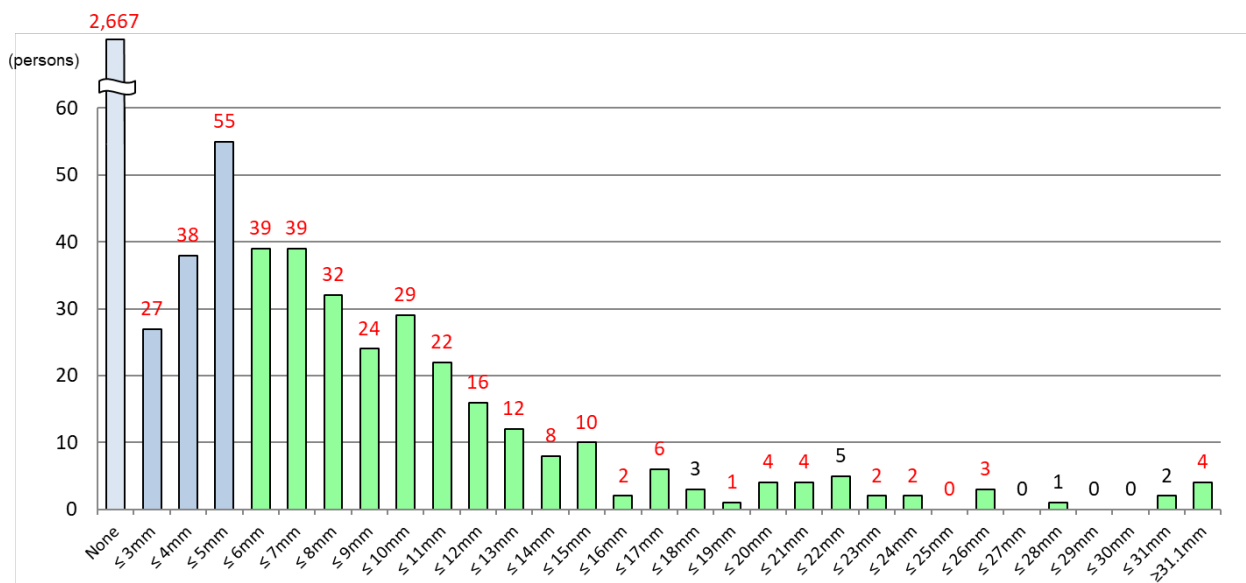
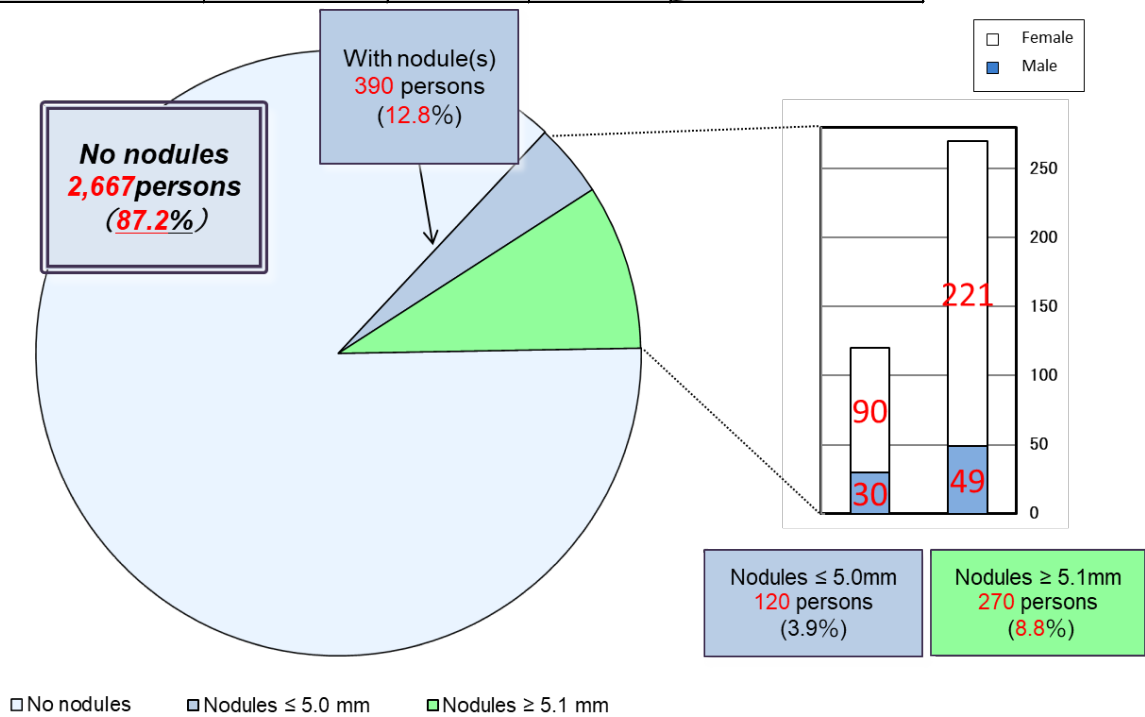
3-3 Age 30 Survey report for the 56th Oversight Committee Meeting

(Erroneous data) Appendix 4-2: Nodule characteristics

As of March 31, 2025

(persons)

| Nodule size | Total | Gender | | Grade | |
|--------------|--------------|------------|--------------|-------|-------|
| | | Male | Female | | |
| None | 2,667 | 820 | 1,847 | A1 | 87.2% |
| ≤ 3.0mm | 27 | 7 | 20 | A2 | 3.9% |
| 3.1–5.0mm | 93 | 23 | 70 | | |
| 5.1–10.0mm | 163 | 34 | 129 | B | 8.8% |
| 10.1–15.0mm | 68 | 7 | 61 | | |
| 15.1–20.0mm | 16 | 4 | 12 | | |
| 20.1–25.0mm | 13 | 1 | 12 | | |
| ≥ 25.1mm | 10 | 3 | 7 | | |
| Total | 3,057 | 899 | 2,158 | | |



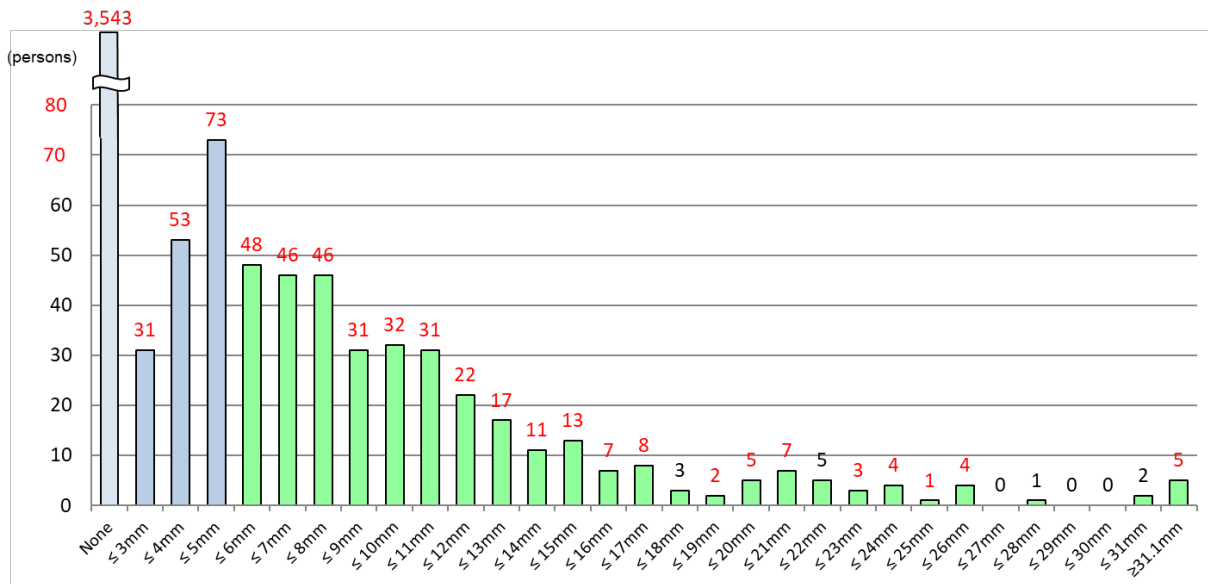
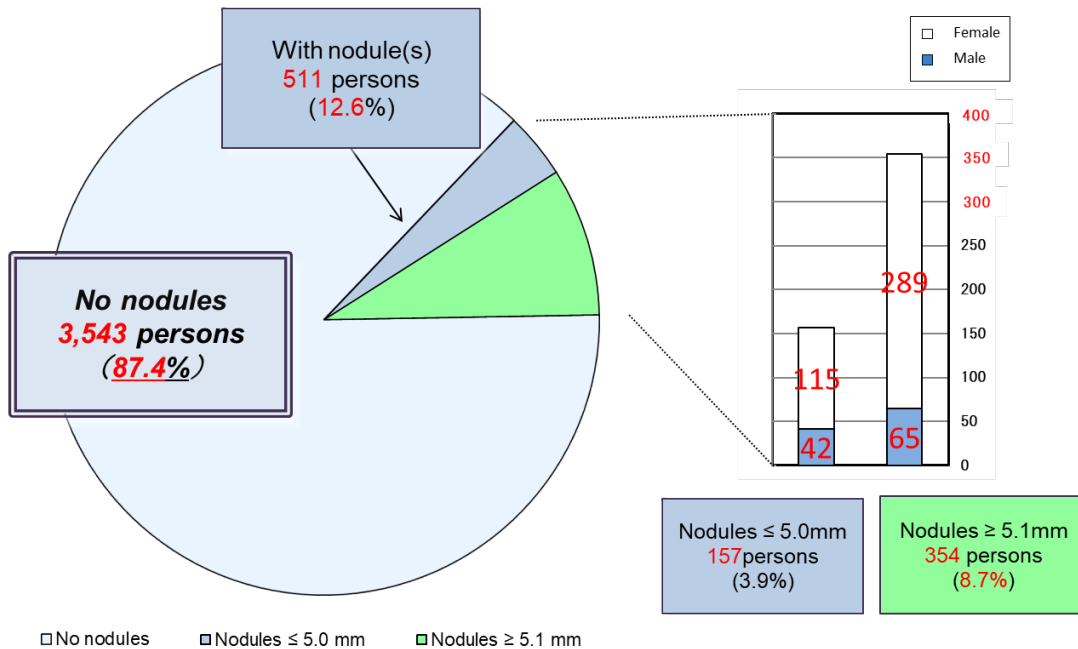
3-3 Age 30 Survey report for the 56th Oversight Committee Meeting

(Correct data) Appendix 4-2: Nodule characteristics

As of March 31, 2025

(persons)

| Nodule size | Total | Gender | | Grade | |
|--------------|--------------|--------------|--------------|-------|-------|
| | | Male | Female | | |
| None | 3,543 | 1,136 | 2,407 | A1 | 87.4% |
| ≤ 3.0mm | 31 | 9 | 22 | A2 | 3.9% |
| 3.1–5.0mm | 126 | 33 | 93 | | |
| 5.1–10.0mm | 203 | 42 | 161 | | |
| 10.1–15.0mm | 94 | 13 | 81 | B | 8.7% |
| 15.1–20.0mm | 25 | 5 | 20 | | |
| 20.1–25.0mm | 20 | 2 | 18 | | |
| ≥ 25.1mm | 12 | 3 | 9 | | |
| Total | 4,054 | 1,243 | 2,811 | | |



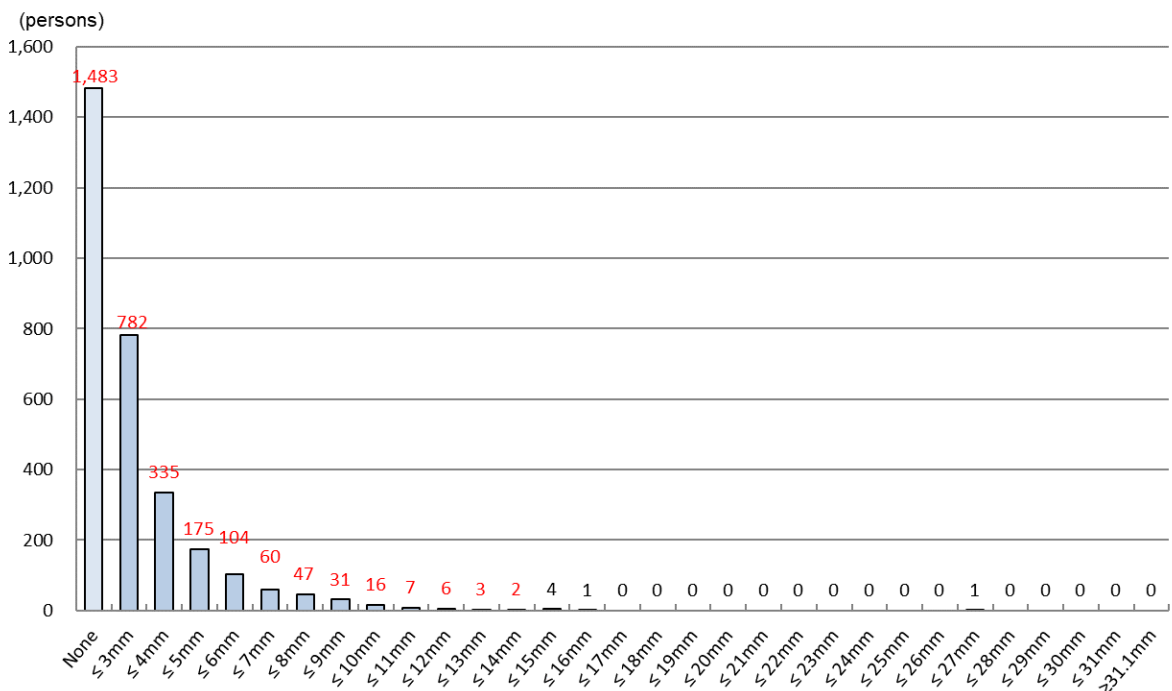
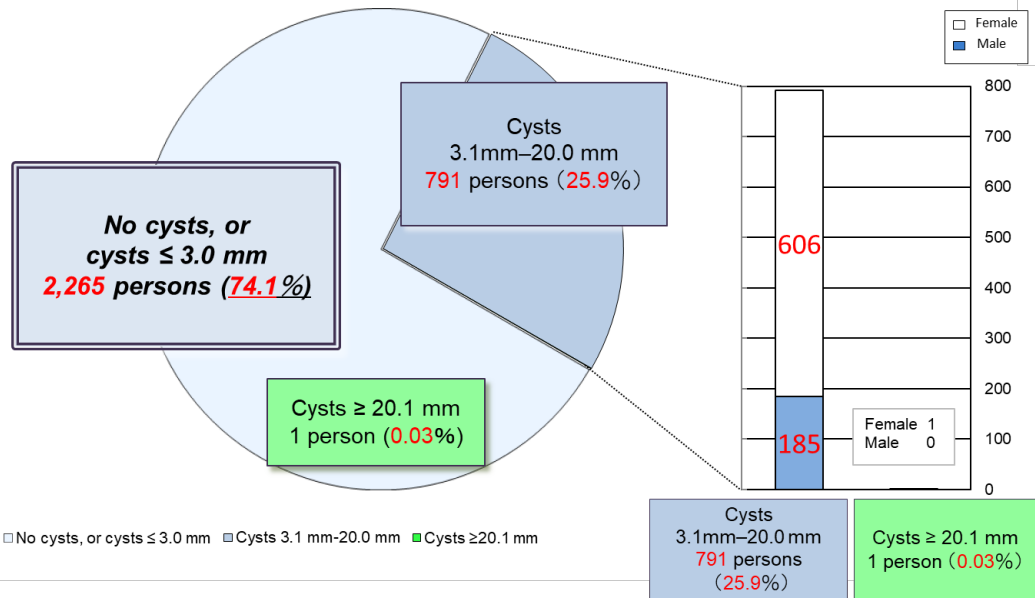
3-3 Age 30 Survey report for the 56th Oversight Committee Meeting

(Erroneous data) Appendix 4-3: Cyst characteristics

As of March 31, 2025

(persons)

| Cyst size | Total | Gender | | Grade | |
|--------------|--------------|------------|--------------|-------|------------|
| | | Male | Female | Grade | Percentage |
| None | 1,483 | 499 | 984 | A1 | 74.1% |
| ≤ 3.0mm | 782 | 215 | 567 | | |
| 3.1–5.0mm | 510 | 129 | 381 | A2 | 25.9% |
| 5.1–10.0mm | 258 | 55 | 203 | | |
| 10.1–15.0mm | 22 | 1 | 21 | | |
| 15.1–20.0mm | 1 | 0 | 1 | | |
| 20.1–25.0mm | 0 | 0 | 0 | B | 0.03% |
| ≥ 25.1mm | 1 | 0 | 1 | | |
| Total | 3,057 | 899 | 2,158 | | |



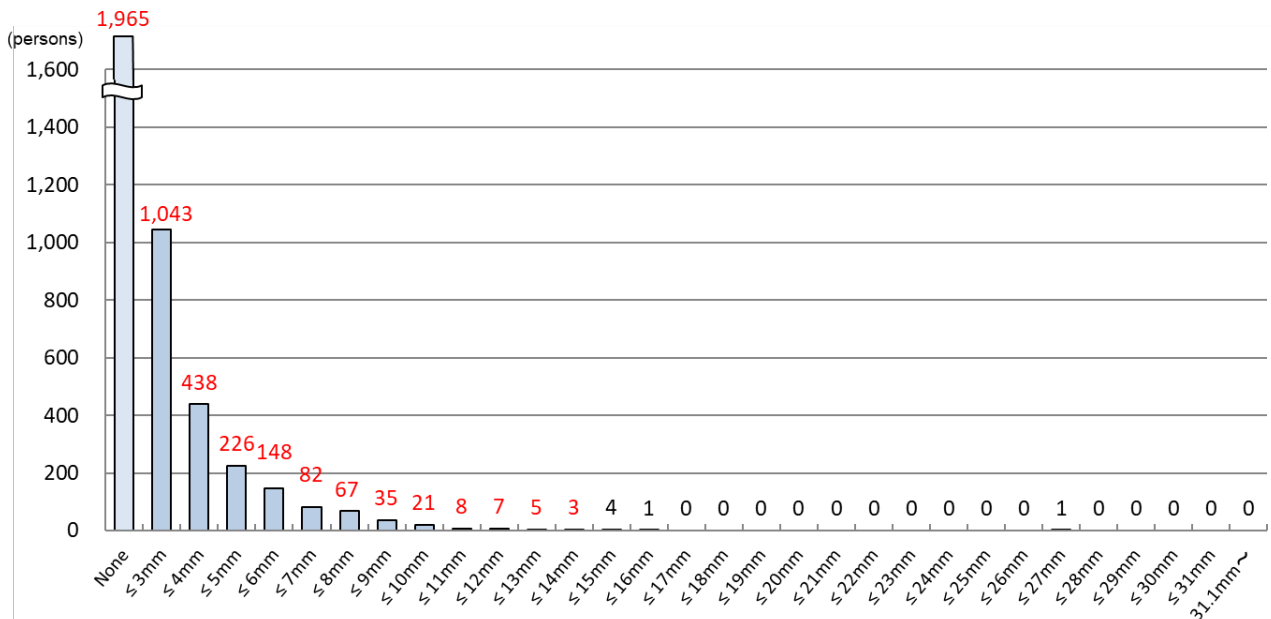
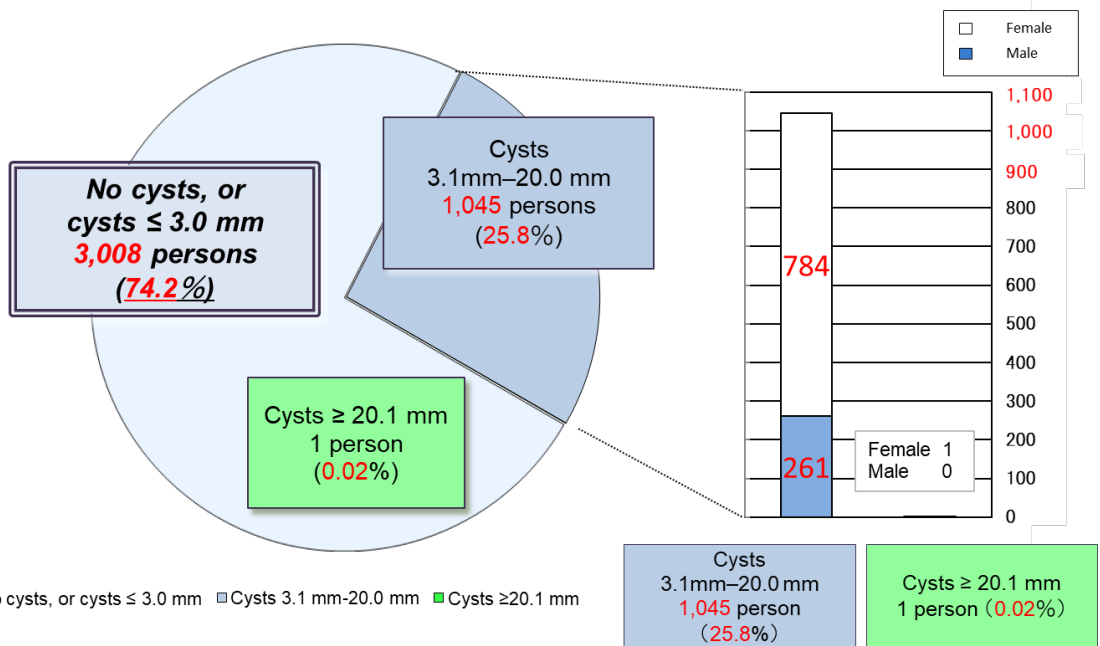
3-3 Age 30 Survey report for the 56th Oversight Committee Meeting

(Correct data) Appendix 4-3: Cyst characteristics

As of March 31, 2025

(persons)

| Cyst size | Total | Gender | | Grade | |
|--------------|--------------|--------------|--------------|-------|-------|
| | | Male | Female | | |
| None | 1,965 | 674 | 1,291 | A1 | 74.2% |
| ≤ 3.0mm | 1,043 | 308 | 735 | A2 | |
| 3.1–5.0mm | 664 | 179 | 485 | | |
| 5.1–10.0mm | 353 | 80 | 273 | | |
| 10.1–15.0mm | 27 | 2 | 25 | | |
| 15.1–20.0mm | 1 | 0 | 1 | B | 0.02% |
| 20.1–25.0mm | 0 | 0 | 0 | | |
| ≥ 25.1mm | 1 | 0 | 1 | | |
| Total | 4,054 | 1,243 | 2,811 | | |



Report on the TUE Full-Scale Survey (sixth-round survey)

As of September 30, 2025

1. Summary

1.1 Purpose

To monitor the long-term health of children, we are continuing the Full-Scale Survey (sixth-round survey), following the Preliminary Baseline Survey for initial assessment of thyroid glands, and prior Full-Scale Surveys (from the second-round survey to the fifth-round survey) to continuously assess thyroid gland status.

1.2 Eligible persons

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

1.3 Implementation Period

FY2023 and FY2024, starting in April 2023:

1.3-1 For those 18 years old or younger

The examination was carried out for 2 years: FY2023 and FY2024.

1.3-2 For those 19 years old or older

The examination was conducted on an age-group basis (i.e., school grade).

FY2023: those born between FY2000 to FY2003

FY2024: those born in FY2004

1.3-3 For those 25 years old or older

Those older than 20 are recommended to receive the examination every 5 years at the ages of 25, 30, and so on (Age 25 and Age 30 Surveys).

FY2023: those born in FY1993 and FY1998

FY2024: those born in FY1994 and FY1999

Results of the survey for those 25 years and older will be reported separately.

1.4 Implementing Organizations (number of medical facilities with agreements for the implementation of thyroid examinations as of September 30, 2025)

Fukushima Prefecture commissioned Fukushima Medical University (FMU) to survey in cooperation with organizations inside and outside Fukushima for the convenience of participants.

1.4-1 Primary examination facilities

In Fukushima Prefecture 84 medical facilities

Outside Fukushima Prefecture 158 medical facilities

1.4-2 Confirmatory examination facilities

In Fukushima Prefecture 7 medical facilities, including FMU

Outside Fukushima Prefecture 46 medical facilities

1.5 Methods

1.5-1 Primary examination

Ultrasonography of the thyroid gland.

Assessments are made by specialists based on the following criteria:

- Grade A

A1: No nodules/cysts

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

- Grade B

B: Nodules ≥ 5.1 mm or cysts ≥ 20.1 mm

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

-Grade C

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

1.5-2 Confirmatory examination

Ultrasonography of the thyroid gland, blood and urine tests, 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. A medical follow-up may be recommended based on confirmatory exam results.

1.5-3 Flow chart

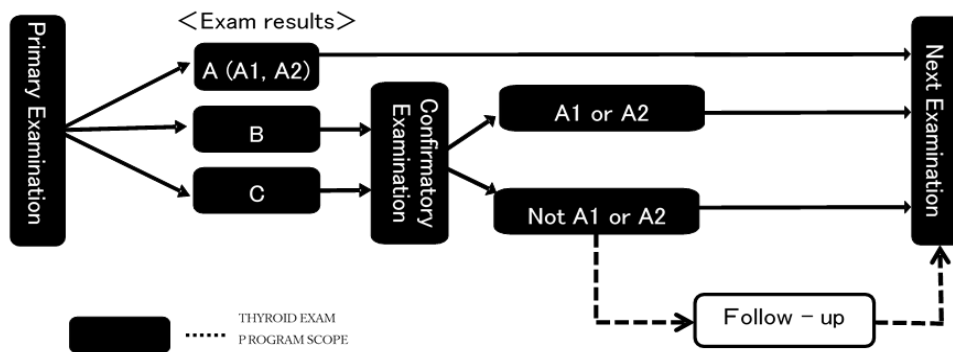


Figure 1: Flow chart

1.6 Municipalities Surveyed

The municipalities where examinations (for those 18 years old or younger) were carried out in FY2023 and FY2024 are as follows:

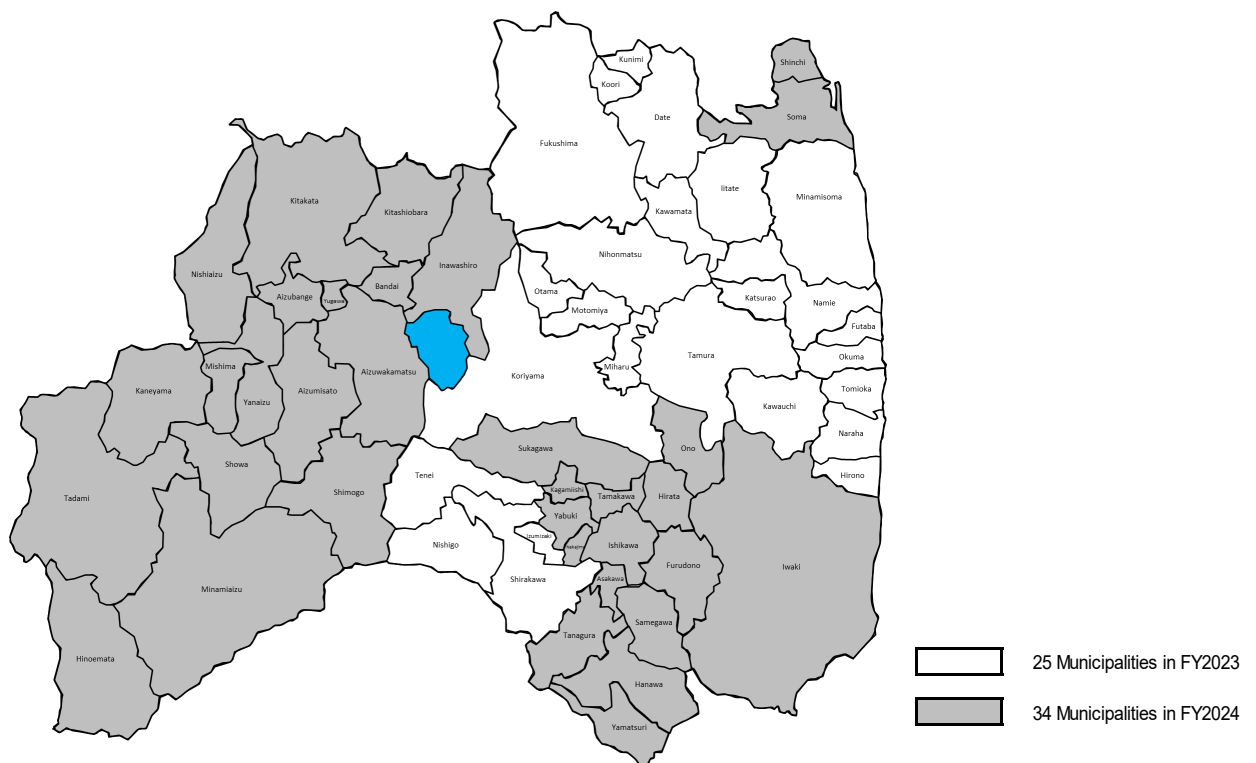


Figure 2: Municipalities covered for primary examinations in FY2023 and FY2024

2. Results as of September 30, 2025

2.1 Results of the Primary Examination

2.1-1 Implementation status

The primary examination was completed for 69,011 participants (32.6%) by September 30, 2025. (Refer to Appendix 1 for the status by municipalities in Fukushima, and Appendix 2 for prefectures outside Fukushima.)

The results of 69,011 (100.0%) participants have been finalized, and individual reports have been sent to them. (Refer to Appendix 3 for the primary examination results by municipality.)

Of these, 18,507 (26.8%) had Grade A1 results, 49,516 (71.8%) had Grade A2, 988 (1.4%) had Grade B, and none had Grade C.

Table 1: Progress and results of the primary examination

| | Eligible persons a | Participants (persons) | | Judgment rate (%) c (c/b) | Participants with finalized results (persons) | | | | | |
|---------|---------------------------|---------------------------------------|--|----------------------------------|---|---------------|-------------------------------------|---------|--|--|
| | | Participation rate (%) b (b/a) | Those who participated outside Fukushima | | Details by grade (%) | | | | | |
| | | | | | A | | Those referred to confirmatory exam | | | |
| | | A1 | A2 | | B | | C | | | |
| d (d/c) | e (e/c) | f (f/c) | g (g/c) | | | | | | | |
| FY2023 | 121,816 | 41,745 (34.3) | 3,135 | 41,745 (100.0) | 11,232 (26.9) | 29,947 (71.7) | 566 (1.4) | 0 (0.0) | | |
| FY2024 | 90,112 | 27,266 (30.3) | 1,401 | 27,266 (100.0) | 7,275 (26.7) | 19,569 (71.8) | 422 (1.5) | 0 (0.0) | | |
| Total | 211,928 | 69,011 (32.6) | 4,536 | 69,011 (100.0) | 18,507 (26.8) | 49,516 (71.8) | 988 (1.4) | 0 (0.0) | | |

Table 2: Number and proportion of participants with nodules/cysts (See Appendix 4 for details.)

| | Participants with finalized results a | Participants with nodules / cysts (%) | | | | | | | |
|---------|--|---------------------------------------|-----------|---------|---------------|----------|--|----------|--|
| | | Nodules | | | | Cysts | | | |
| | | ≥ 5.1mm | | ≤ 5.0mm | | ≥ 20.1mm | | ≤ 20.0mm | |
| b (b/a) | c (c/a) | d (d/a) | e (e/a) | | | | | | |
| FY2023 | 41,745 | 562 (1.3) | 275 (0.7) | 4 (0.0) | 30,277 (72.5) | | | | |
| FY2024 | 27,266 | 419 (1.5) | 210 (0.8) | 3 (0.0) | 19,793 (72.6) | | | | |
| Total | 69,011 | 981 (1.4) | 485 (0.7) | 7 (0.0) | 50,070 (72.6) | | | | |

- Proportions are rounded to a lower decimal place. This applies to other tables as well.
- Those who receive the examination at 5-year intervals (born between FY1992 and FY1999) are excluded. The results of examinations at 5-year intervals (Age 25 and Age 30 Surveys) will be reported separately.
- Examinations for those born in FY1993 (approx. 22,000) and FY1998 (approx. 21,000) took place in FY2023. Examinations for those born in FY1994 (approx. 22,000) and FY1999 (approx. 20,000) were carried out in FY2024.

2.1-2 Participation rate by age group

Table 3 shows the participation rate for each age group as of April 1 of each fiscal year.

Table 3: Participation rates by age group

| | | Total | Age group | | |
|------------------------------|------------------------------|---------|--------------|--------------------|--------------------|
| FY2023 | Age group* | | 11 years old | 12 to 17 years old | 18 to 24 years old |
| | Eligible persons (a) | 121,816 | 8,422 | 58,639 | 54,755 |
| Participants (b) | 41,745 | 5,192 | 33,158 | 3,395 | |
| Participation rate (%) (b/a) | 34.3 | 61.6 | 56.5 | 6.2 | |
| FY2024 | Age group* | | | 12 to 17 years old | 18 to 24 years old |
| | Eligible persons (a) | 90,112 | | 41,674 | 48,438 |
| | Participants (b) | 27,266 | | 23,576 | 3,690 |
| | Participation rate (%) (b/a) | 30.3 | | 56.6 | 7.6 |
| Total | Eligible persons (a) | 211,928 | 8,422 | 100,313 | 103,193 |
| | Participants (b) | 69,011 | 5,192 | 56,734 | 7,085 |
| | Participation rate (%) (b/a) | 32.6 | 61.6 | 56.6 | 6.9 |

* Age groups are based on ages as of April 1 of each fiscal year.

2.1-3 Comparison of the fifth- and sixth-round survey results

Table 4 compares the results of the two Full-Scale Surveys (fifth- and sixth-round surveys).

Among 61,478 (sum of *1) participants with Grade A1 and A2 results in the fifth-round survey, 61,014 (sum of *2, 99.2%) had Grade A results, and 464 (sum of *3, 0.8%) had Grade B results in the sixth-round survey.

Among 512 participants with Grade B results in the fifth-round survey, 112 (sum of *4, 21.9%) had Grade A results, and 400 (78.1%) had Grade B results in the sixth-round survey.

Table 4: Comparison of the fifth- and sixth-round surveys

| | | | Results of the fifth-round survey* | Results of the sixth-round survey** | | | | | |
|-----------------------------------|---------------------|------------------|------------------------------------|-------------------------------------|---------------------|-----------------|------------|---|--|
| | | | | A | | | B | C | |
| | | | | A1 | A2 | | | | |
| | | a | b | c | d | e | | | |
| | | (%) | (b/a) | (c/a) | (d/a) | (e/a) | | | |
| Results of the fifth-round survey | A | A1 | *1 16,865 (100.0) | *2 12,123 (71.9) | *2 4,660 (27.6) | *3 82 (0.5) | 0 (0.0) | | |
| | | A2 | *1 44,613 (100.0) | *2 4,357 (9.8) | *2 39,874 (89.4) | *3 382 (0.9) | 0 (0.0) | | |
| | B | 512 (100.0) | *4 10 (2.0) | *4 102 (19.9) | 400 (78.1) | 0 (0.0) | | | |
| | C | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | | | |
| | Did not participate | 7,021 (100.0) | 2,017 (28.7) | 4,880 (69.5) | 124 (1.8) | 0 (0.0) | | | |
| Total | | | 69,011 (100.0) | 18,507 (26.8) | 49,516 (71.8) | 988 (1.4) | 0 (0.0) | | |

* The figures in the upper row indicate the number of participants whose results from the sixth-round survey correspond to their results from the fifth-round survey; they do not represent a breakdown of all results from the fifth-round survey.

** The upper row shows the distribution of the sixth-round survey results in relation to the fifth-round survey results (number of participants). The lower row shows the corresponding proportions (%).

2.2 Results of the Confirmatory Examination

2.2-1 Implementation status

By September 30, 2025, of 988 eligible persons, 783 (79.3%) had participated in the confirmatory examination, and 744 (95.0%) had completed the entire procedure.

Of those 744 participants, 55 (A1: 2, A2: 53) (7.4%) were confirmed to meet A1 or A2 diagnostic criteria by primary examination standards (including those with other thyroid conditions). After the detailed examination, 689 (92.6%) were confirmed to fall outside the A1 or A2 criteria.

Table 5: Progress and results of the confirmatory examination

| | Those referred to confirmatory exams a | Participants (persons) b (b/a) Participation rate (%) | | Those with finalized results (persons) | | | | | | | | | |
|--------|---|---|--------|--|--------|----|-------|----|-------|---------------------|--------|-----------------|-------|
| | | | | Determination rate (%) c (c/b) | | A1 | | A2 | | Other than A1 or A2 | | | |
| | | | | | | d | (d/c) | e | (e/c) | f | (f/c) | FNAC g (g/f) | |
| FY2023 | 566 | 467 | (82.5) | 456 | (97.6) | 1 | (0.2) | 35 | (7.7) | 420 | (92.1) | 29 | (6.9) |
| FY2024 | 422 | 316 | (74.9) | 288 | (91.1) | 1 | (0.3) | 18 | (6.3) | 269 | (93.4) | 18 | (6.7) |
| Total | 988 | 783 | (79.3) | 744 | (95.0) | 2 | (0.3) | 53 | (7.1) | 689 | (92.6) | 47 | (6.8) |

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

Among those who underwent FNAC, 21 participants were diagnosed with lesions that were malignant or suspicious for malignancy: 5 were male and 16 were female. Participants' ages at the confirmatory examination ranged from 12 to 23 years (mean age: 17.8 ± 3.0 years). The tumor diameters were from 8.2 mm to 20.3 mm (mean tumor diameter: 14.0 ± 3.8 mm).

Of these 21 participants, 12 had Grade A (A1: 4, A2: 8), 4 had Grade B results in the fifth-round survey, and the remaining 5 did not participate. Among the 8 participants with Grade A2, 6 met the nodule criteria, and 2 met both the cyst and nodule criteria.

Table 6: Results of FNAC

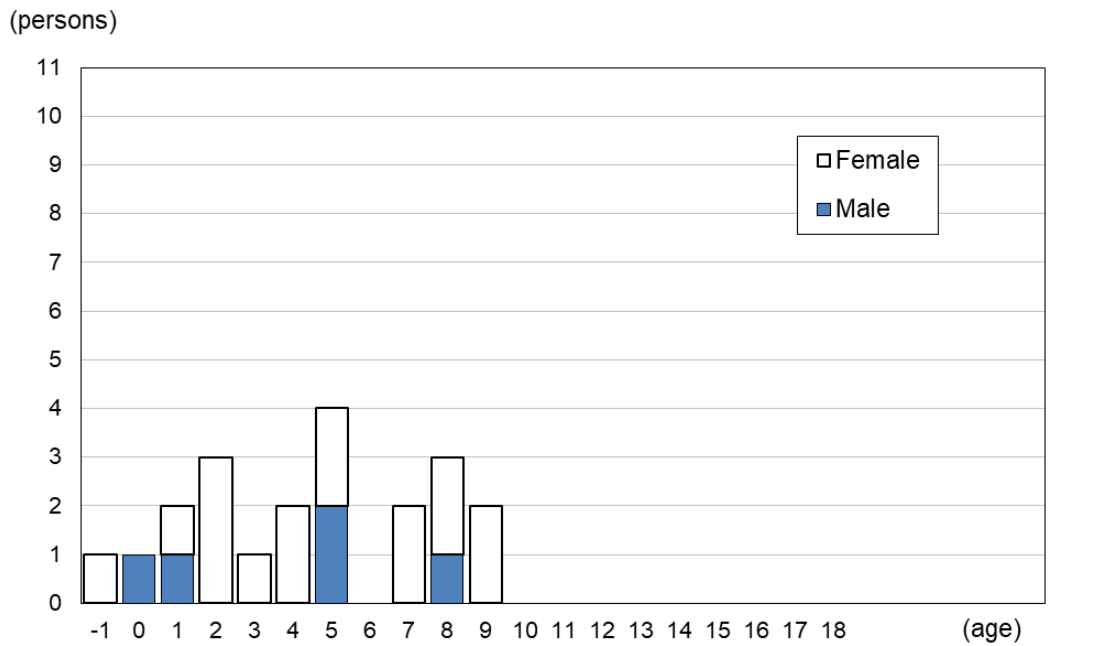
(The mean age and mean tumor size in parentheses indicate the range.)

| | |
|---|---|
| 1. FY2023: Those referred to confirmatory examination at the sixth-round survey | |
| • Malignant or suspicious for malignancy | 14* |
| • Male to female ratio | 5:9 |
| • Mean age \pm SD (min-max) | 17.8 ± 3.0 (12–21) |
| • Mean tumor size \pm SD (min-max) | 4.9 ± 2.8 (0–9) at the time of the earthquake |
| • Mean tumor size \pm SD (min-max) | 13.0 ± 3.9 mm (8.2–20.3 mm) |
| 2. FY2024: Those referred to confirmatory examination at the sixth-round survey | |
| • Malignant or suspicious for malignancy | 7* |
| • Male to female ratio | 0:7 |
| • Mean age \pm SD (min-max) | 17.7 ± 3.4 (13–23) |
| • Mean tumor size \pm SD (min-max) | 3.9 ± 3.4 (0–9) at the time of the earthquake |
| • Mean tumor size \pm SD (min-max) | 16.1 ± 2.9 mm (11.3–20.1 mm) |
| 3. Total | |
| • Malignant or suspicious for malignancy | 21* |
| • Male to female ratio | 5:16 |
| • Mean age \pm SD (min-max) | 17.8 ± 3.0 (12–23) |
| • Mean tumor size \pm SD (min-max) | 4.5 ± 3.0 (0–9) at the time of the earthquake |
| • Mean tumor size \pm SD (min-max) | 14.0 ± 3.8 mm (8.2–20.3 mm) |

*Refer to Appendix 5 for surgical cases.

2.2-3 Age distribution of malignant or suspected malignant cases diagnosed by FNAC

Figure 3 shows the age distribution of 21 participants with malignant or suspected malignant nodules based on their age as of March 11, 2011. The age distribution based on their age at the time of confirmatory examination is shown in Figure 4.



Note: Those aged between 11 and 18 at the time of the disaster are not included in the sixth-round survey participants.

The horizontal axis begins at -1, including those born between April 2, 2011, and April 1, 2012.

*Those born between March 12 and April 1, 2011, are included in age 0.

Figure 3: Age distributions as of March 11, 2011

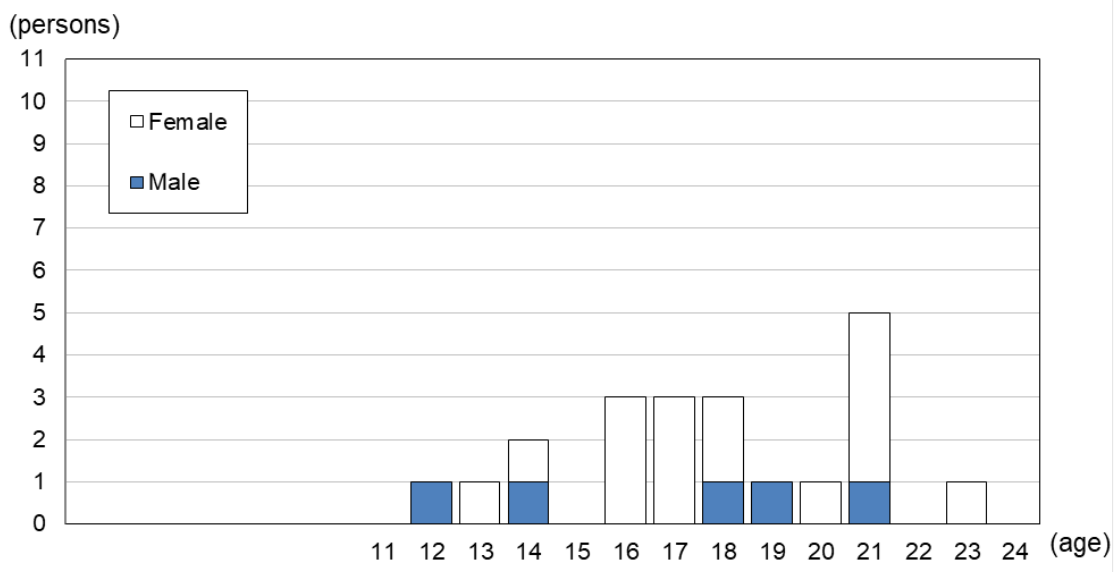


Figure 4: Age distributions as of the date of confirmatory examination

2.2-4 Basic Survey results for cases deemed malignant or suspicious for malignancy by FNAC

Of those 21 people with malignant or suspicious findings, 17 (81.0%) had participated in the Basic Survey (for external radiation exposure dose estimation), and all 17 received their results. The highest effective dose documented was 1.9 mSv.

Table 7: A breakdown of dose estimates for Basic Survey participants

| Effective dose (mSv) | Age at the time of the earthquake | | | | | | | | | |
|----------------------|-----------------------------------|--------|------|--------|-------|--------|-------|--------|-------|--------|
| | 0-5 | | 6-10 | | 11-15 | | 16-18 | | Total | |
| | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female |
| < 1 | 1 | 5 | 1 | 3 | 0 | 0 | 0 | 0 | 2 | 8 |
| < 2 | 2 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 2 | 5 |
| < 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| < 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| < 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ≥ 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 3 | 7 | 1 | 6 | 0 | 0 | 0 | 0 | 4 | 13 |

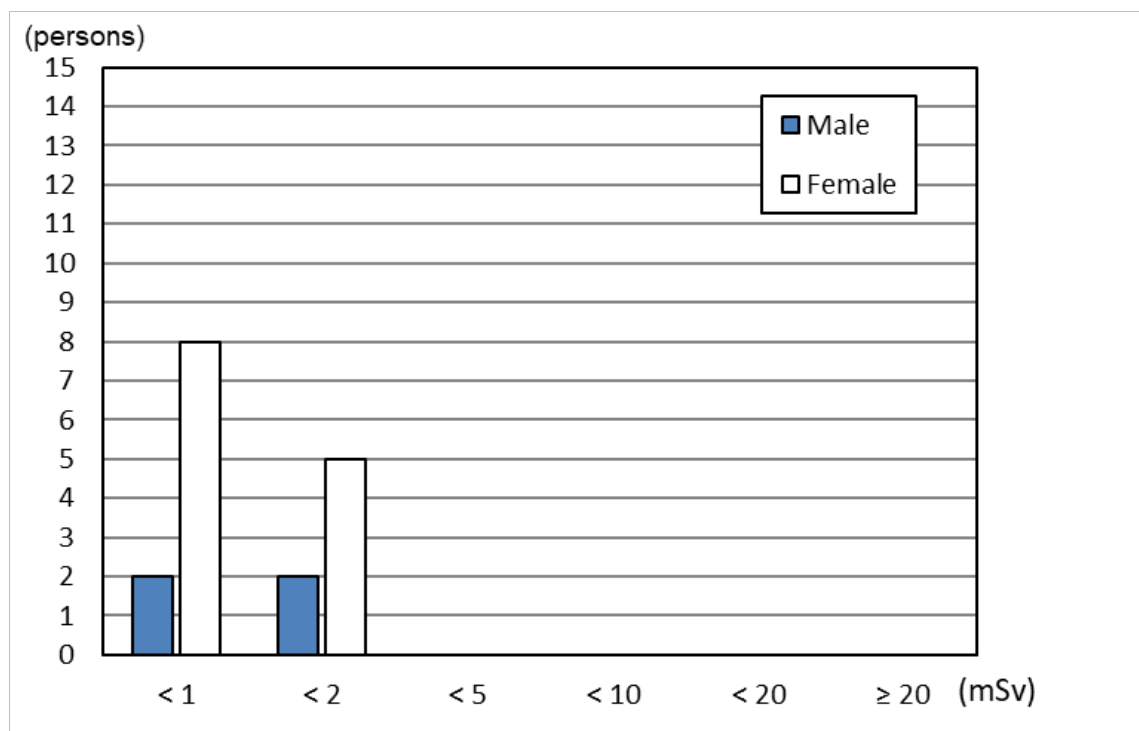


Figure 5: Effective dose distribution of the Basic Survey participants

2.2-5 Blood test and urinary iodine test results

Table 8: Blood test results

| | FT4 ¹⁾ (ng/dL) | FT3 ²⁾ (pg/mL) | TSH ³⁾ (μ IU/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⁾ | \leq 33.7 | < 28.0 | < 16.0 |
| Malignant or suspicious : 21 | 1.2 \pm 0.2 (4.8%) | 3.4 \pm 0.5 (19.0%) | 1.6 \pm 1.0 (4.8%) | 29.4 \pm 30.0 (38.1%) | 23.8% | 28.6% |
| Other : 629 | 1.2 \pm 0.2 (6.4%) | 3.6 \pm 0.5 (7.6%) | 1.3 \pm 2.0 (9.5%) | 29.6 \pm 133.7 (14.9%) | 9.2% | 11.3% |

Table 9: Urinary iodine test results ⁸⁾

| | (μ g/day) | | | | |
|------------------------------|----------------|-----------------|--------|-----------------|---------|
| | Minimum | 25th percentile | Median | 75th percentile | Maximum |
| Malignant or suspicious : 15 | 78 | 127 | 241 | 436 | 757 |
| Other : 317 | 39 | 117 | 191 | 354 | 5,521 |

- 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 or Graves' disease.
- 6) TPOAb: anti-thyroid peroxidase antibody; higher among patients with Hashimoto's disease or Graves' disease.
- 7) Reference intervals vary according to age.
- 8) Due to a temporary unavailability of reagents, the urinary iodine tests had been suspended from March 8, 2024, to January 19, 2025, but resumed on January 20, 2025.

3. Mental Health Care

We provide the following support for thyroid examination participants.

3.1 Support for Primary Examination Participants

After the examination, medical doctors offer person-to-person explanations of examination results, showing ultrasound images in private consultation booths at examination venues set up in public facilities.

Consultation booths were set up at all venues for examinations conducted in and after April 2023; as of September 30, 2025, all 1,563 participants (100%) have visited these consultation booths.

3.2 Outreach programs (on-site lectures and information sessions at the sixth-round survey)

To help examination participants deepen their understanding of the Thyroid Ultrasound Examination, we conduct on-site educational sessions. During the period from April 2023 to the end of March 2025, we delivered 13 on-location sessions (5 at elementary schools, 6 at junior high schools, and 2 at high schools) for 1,257 students. In total, 16,950 people have participated since the start of these sessions.

3.3 Support for Confirmatory Examination Participants

A support team has been established within Fukushima Medical University to offer mental health support to those undergoing the confirmatory (secondary) examination to address their concerns and anxiety, as well as to answer questions and provide guidance via web consultation. Since the start of the sixth-round survey, 269 participants (92 males and 177 females) have received support as of September 30, 2025. The total number of support sessions, including telephone counseling, was 419. Of these, 269 (64.2%) received support during their first examination, and 150 (35.8%) during subsequent examinations.

For those who proceed to regular insured medical care, the support team continues to provide support in cooperation with teams of medical staff at hospitals.

Appendix 1: Implementation status of the TUE primary examination by municipality

As of September 30, 2025

| | Number of eligible persons a | Participants (persons) b | Participated outside Fukushima ¹⁾ | Participation rate (%) b/a | Number of participants and participation rate by age group ²⁾ | | | Participants living outside Fukushima c ³⁾ | % c/b |
|-----------------------------------|---------------------------------|-----------------------------|--|-------------------------------|--|----------------|---------------|--|----------|
| | | | | | 11 | 12-17 | 18-24 | | |
| Municipalities surveyed in FY2023 | | | | | | | | | |
| Kawamata | 1,282 | 400 | 10 | 31.2 | 29 7.3 | 331 82.8 | 40 10.0 | 13 | 3.3 |
| Namie | 2,063 | 549 | 99 | 26.6 | 29 5.3 | 391 71.2 | 129 23.5 | 110 | 20.0 |
| Iitate | 620 | 185 | 6 | 29.8 | 10 5.4 | 142 76.8 | 33 17.8 | 5 | 2.7 |
| Minamisoma | 7,560 | 2,082 | 305 | 27.5 | 163 7.8 | 1,570 75.4 | 349 16.8 | 332 | 15.9 |
| Date | 6,096 | 2,321 | 90 | 38.1 | 201 8.7 | 1,791 77.2 | 329 14.2 | 99 | 4.3 |
| Tamura | 3,783 | 1,307 | 34 | 34.5 | 108 8.3 | 1,029 78.7 | 170 13.0 | 33 | 2.5 |
| Hirono | 538 | 168 | 10 | 31.2 | 10 6.0 | 124 73.8 | 34 20.2 | 14 | 8.3 |
| Naraha | 766 | 212 | 17 | 27.7 | 4 1.9 | 157 74.1 | 51 24.1 | 19 | 9.0 |
| Tomioka | 1,640 | 434 | 60 | 26.5 | 17 3.9 | 317 73.0 | 100 23.0 | 56 | 12.9 |
| Kawauchi | 192 | 58 | 2 | 30.2 | 1 1.7 | 42 72.4 | 15 25.9 | 3 | 5.2 |
| Okuma | 1,521 | 424 | 69 | 27.9 | 14 3.3 | 316 74.5 | 94 22.2 | 71 | 16.7 |
| Futaba | 718 | 139 | 19 | 19.4 | 4 2.9 | 104 74.8 | 31 22.3 | 21 | 15.1 |
| Katsurao | 126 | 34 | 2 | 27.0 | 3 8.8 | 22 64.7 | 9 26.5 | 3 | 8.8 |
| Fukushima | 31,364 | 11,205 | 852 | 35.7 | 666 5.9 | 9,026 80.6 | 1,513 13.5 | 877 | 7.8 |
| Nihonmatsu | 5,779 | 2,085 | 97 | 36.1 | 167 8.0 | 1,687 80.9 | 231 11.1 | 104 | 5.0 |
| Motomiya | 3,566 | 1,253 | 46 | 35.1 | 105 8.4 | 979 78.1 | 169 13.5 | 46 | 3.7 |
| Otama | 951 | 403 | 5 | 42.4 | 28 6.9 | 321 79.7 | 54 13.4 | 7 | 1.7 |
| Koriyama | 38,694 | 13,277 | 1,166 | 34.3 | 282 2.1 | 10,927 82.3 | 2,068 15.6 | 1,153 | 8.7 |
| Koori | 1,139 | 480 | 20 | 42.1 | 48 10.0 | 354 73.8 | 78 16.3 | 23 | 4.8 |
| Kunimi | 827 | 293 | 11 | 35.4 | 16 5.5 | 227 77.5 | 50 17.1 | 9 | 3.1 |
| Tenei | 621 | 194 | 7 | 31.2 | 9 4.6 | 155 79.9 | 30 15.5 | 6 | 3.1 |
| Shirakawa | 7,161 | 2,644 | 145 | 36.9 | 120 4.5 | 2,131 80.6 | 393 14.9 | 140 | 5.3 |
| Nishigo | 2,410 | 843 | 41 | 35.0 | 36 4.3 | 692 82.1 | 115 13.6 | 37 | 4.4 |
| Izumizaki | 759 | 222 | 4 | 29.2 | 7 3.2 | 189 85.1 | 26 11.7 | 2 | 0.9 |
| Miharu | 1,640 | 533 | 18 | 32.5 | 18 3.4 | 434 81.4 | 81 15.2 | 18 | 3.4 |
| Subtotal | 121,816 | 41,745 | 3,135 | 34.3 | 2,095 5.0 | 33,458 80.1 | 6,192 14.8 | 3,201 | 7.7 |

*1) The number of participants who received the examination at facilities outside Fukushima (as of August 31, 2025).

*2) Split cells show the number of participants above the corresponding percentage.

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

·Age groups are based on participants' age at the Full-Scale Survey (sixth-round survey). This applies to other tables as well.

58_2-2_TUE_Report on the TUE Full-Scale Survey (6th-round survey)

| | Number of eligible persons a | Participants (persons) b | Participated outside Fukushima ¹⁾ | Participation rate (%) b/a | Number of participants and participation rate by age group ²⁾ | | | Participants living outside Fukushima c ³⁾ | % c/b |
|-----------------------------------|---------------------------------|-----------------------------|--|-------------------------------|--|----------------|----------------|--|----------|
| | | | | | 11 | 12-17 | 18-24 | | |
| Municipalities surveyed in FY2024 | | | | | | | | | |
| Iwaki | 35,488 | 11,335 | 759 | 31.9 | 18 0.2 | 8,691 76.7 | 2,626 23.2 | 673 | 5.9 |
| Sukagawa | 8,982 | 2,826 | 114 | 31.5 | 7 0.2 | 2,286 80.9 | 533 18.9 | 102 | 3.6 |
| Soma | 4,020 | 1,008 | 102 | 25.1 | 9 0.9 | 809 80.3 | 190 18.8 | 104 | 10.3 |
| Kagamiishi | 1,550 | 501 | 16 | 32.3 | 0 0.0 | 413 82.4 | 88 17.6 | 14 | 2.8 |
| Shinchi | 827 | 249 | 16 | 30.1 | 1 0.4 | 183 73.5 | 65 26.1 | 16 | 6.4 |
| Nakajima | 586 | 153 | 0 | 26.1 | 0 0.0 | 136 88.9 | 17 11.1 | 1 | 0.7 |
| Yabuki | 1,975 | 617 | 19 | 31.2 | 2 0.3 | 509 82.5 | 106 17.2 | 12 | 1.9 |
| Ishikawa | 1,535 | 494 | 12 | 32.2 | 2 0.4 | 417 84.4 | 75 15.2 | 11 | 2.2 |
| Yamatsuri | 564 | 199 | 13 | 35.3 | 0 0.0 | 166 83.4 | 33 16.6 | 8 | 4.0 |
| Asakawa | 768 | 232 | 11 | 30.2 | 0 0.0 | 188 81.0 | 44 19.0 | 9 | 3.9 |
| Hirata | 692 | 225 | 5 | 32.5 | 0 0.0 | 192 85.3 | 33 14.7 | 4 | 1.8 |
| Tanagura | 1,707 | 542 | 18 | 31.8 | 2 0.4 | 459 84.7 | 81 14.9 | 11 | 2.0 |
| Hanawa | 866 | 248 | 14 | 28.6 | 1 0.4 | 204 82.3 | 43 17.3 | 8 | 3.2 |
| Samegawa | 385 | 119 | 1 | 30.9 | 1 0.8 | 106 89.1 | 12 10.1 | 3 | 2.5 |
| Ono | 1,044 | 311 | 6 | 29.8 | 1 0.3 | 265 85.2 | 45 14.5 | 4 | 1.3 |
| Tamakawa | 774 | 209 | 6 | 27.0 | 1 0.5 | 167 79.9 | 41 19.6 | 1 | 0.5 |
| Furudono | 571 | 212 | 8 | 37.1 | 0 0.0 | 168 79.2 | 44 20.8 | 4 | 1.9 |
| Hinoemata | 58 | 5 | 0 | 8.6 | 0 0.0 | 5 100.0 | 0 0.0 | 0 | 0.0 |
| Minamiaizu | 1,483 | 374 | 10 | 25.2 | 0 0.0 | 328 87.7 | 46 12.3 | 6 | 1.6 |
| Kaneyama | 90 | 27 | 0 | 30.0 | 0 0.0 | 21 77.8 | 6 22.2 | 0 | 0.0 |
| Showa | 89 | 22 | 1 | 24.7 | 0 0.0 | 20 90.9 | 2 9.1 | 1 | 4.5 |
| Mishima | 106 | 27 | 0 | 25.5 | 0 0.0 | 21 77.8 | 6 22.2 | 0 | 0.0 |
| Shimogo | 527 | 115 | 2 | 21.8 | 0 0.0 | 101 87.8 | 14 12.2 | 3 | 2.6 |
| Kitakata | 4,942 | 1,380 | 35 | 27.9 | 2 0.1 | 1,173 85.0 | 205 14.9 | 32 | 2.3 |
| Nishiaizu | 491 | 127 | 5 | 25.9 | 0 0.0 | 109 85.8 | 18 14.2 | 4 | 3.1 |
| Tadami | 401 | 119 | 4 | 29.7 | 1 0.8 | 103 86.6 | 15 12.6 | 3 | 2.5 |
| Inawashiro | 1,467 | 429 | 16 | 29.2 | 1 0.2 | 359 83.7 | 69 16.1 | 12 | 2.8 |
| Bandai | 357 | 110 | 5 | 30.8 | 0 0.0 | 88 80.0 | 22 20.0 | 6 | 5.5 |
| Kitashiobara | 324 | 106 | 2 | 32.7 | 0 0.0 | 92 86.8 | 14 13.2 | 3 | 2.8 |
| Aizumisato | 1,953 | 579 | 11 | 29.6 | 0 0.0 | 479 82.7 | 100 17.3 | 9 | 1.6 |
| Aizubange | 1,671 | 470 | 12 | 28.1 | 2 0.4 | 389 82.8 | 79 16.8 | 9 | 1.9 |
| Yanaizu | 326 | 89 | 0 | 27.3 | 0 0.0 | 82 92.1 | 7 7.9 | 1 | 1.1 |
| Aizuwakamatsu | 13,118 | 3,679 | 176 | 28.0 | 8 0.2 | 2,984 81.1 | 687 18.7 | 171 | 4.6 |
| Yugawa | 375 | 128 | 2 | 34.1 | 0 0.0 | 98 76.6 | 30 23.4 | 2 | 1.6 |
| Subtotal | 90,112 | 27,266 | 1,401 | 30.3 | 59 0.2 | 21,811 80.0 | 5,396 19.8 | 1,247 | 4.6 |
| Total | 211,928 | 69,011 | 4,536 | 32.6 | 2,154 3.1 | 55,269 80.1 | 11,588 16.8 | 4,448 | 6.4 |

Appendix 2: Implementation status of the TUE primary examination by prefecture

As of September 30, 2025

| Prefecture | Number of medical facilities | Participants (persons) *Note | Prefecture | Number of medical facilities | Participants (persons) *Note | Prefecture | Number of medical facilities | Participants (persons) *Note |
|------------|------------------------------|---------------------------------|------------|------------------------------|---------------------------------|--------------|------------------------------|---------------------------------|
| Hokkaido | 7 | 113 | Fukui | 1 | 12 | Hiroshima | 2 | 15 |
| Aomori | 3 | 56 | Yamanashi | 2 | 38 | Yamaguchi | 1 | 5 |
| Iwate | 4 | 103 | Nagano | 4 | 71 | Tokushima | 1 | 5 |
| Miyagi | 2 | 1,097 | Gifu | 2 | 16 | Kagawa | 1 | 6 |
| Akita | 1 | 77 | Shizuoka | 3 | 44 | Ehime | 3 | 11 |
| Yamagata | 3 | 177 | Aichi | 6 | 84 | Kochi | 2 | 8 |
| Ibaraki | 6 | 250 | Mie | 1 | 9 | Fukuoka | 4 | 28 |
| Tochigi | 9 | 332 | Shiga | 1 | 7 | Saga | 1 | 2 |
| Gunma | 2 | 68 | Kyoto | 4 | 21 | Nagasaki | 3 | 12 |
| Saitama | 5 | 238 | Osaka | 10 | 60 | Kumamoto | 1 | 11 |
| Chiba | 5 | 124 | Hyogo | 3 | 55 | Oita | 1 | 13 |
| Tokyo | 23 | 820 | Nara | 4 | 16 | Miyazaki | 1 | 11 |
| Kanagawa | 10 | 294 | Wakayama | 1 | 2 | Kagoshima | 2 | 3 |
| Niigata | 3 | 164 | Tottori | 1 | 0 | Okinawa | 1 | 13 |
| Toyama | 2 | 10 | Shimane | 1 | 4 | | | |
| Ishikawa | 2 | 6 | Okayama | 3 | 25 | Total | 158 | 4,536 |

*Note: The number of participants examined at medical facilities outside Fukushima Prefecture (as of August 31, 2025).

Appendix 3: TUE primary examination results by the municipality

As of September 30, 2025

| | a. Number of participants (persons) | b. Those with finalized results (persons) | Number of participants by grade (persons) | | | | Number of participants with nodules (persons) | | Number of participants with cysts (persons) | |
|-----------------------------------|-------------------------------------|---|---|--------|-----|-----|---|--------|---|--------|
| | | | Percentages by grade (%) | | | | Percentage (%) | | Percentage (%) | |
| | | | A | | B | C | ≥5.1mm | ≤5.0mm | ≥20.1mm | ≤20.0m |
| | | | A1 | A2 | | | | | | |
| Municipalities surveyed in FY2023 | | | | | | | | | | |
| Kawamata | 400 | 400 | 95 | 298 | 7 | 0 | 7 | 3 | 0 | 303 |
| | | 100.0 | 23.8 | 74.5 | 1.8 | 0.0 | 1.8 | 0.8 | 0.0 | 75.8 |
| Namie | 549 | 549 | 155 | 387 | 7 | 0 | 6 | 9 | 1 | 388 |
| | | 100.0 | 28.2 | 70.5 | 1.3 | 0.0 | 1.1 | 1.6 | 0.2 | 70.7 |
| Iitate | 185 | 185 | 46 | 136 | 3 | 0 | 3 | 0 | 0 | 139 |
| | | 100.0 | 24.9 | 73.5 | 1.6 | 0.0 | 1.6 | 0.0 | 0.0 | 75.1 |
| Minamisoma | 2,082 | 2,082 | 544 | 1,505 | 33 | 0 | 33 | 12 | 0 | 1,526 |
| | | 100.0 | 26.1 | 72.3 | 1.6 | 0.0 | 1.6 | 0.6 | 0.0 | 73.3 |
| Date | 2,321 | 2,321 | 581 | 1,712 | 28 | 0 | 28 | 21 | 0 | 1,727 |
| | | 100.0 | 25.0 | 73.8 | 1.2 | 0.0 | 1.2 | 0.9 | 0.0 | 74.4 |
| Tamura | 1,307 | 1,307 | 365 | 927 | 15 | 0 | 15 | 8 | 0 | 935 |
| | | 100.0 | 27.9 | 70.9 | 1.1 | 0.0 | 1.1 | 0.6 | 0.0 | 71.5 |
| Hirono | 168 | 168 | 51 | 113 | 4 | 0 | 4 | 1 | 0 | 115 |
| | | 100.0 | 30.4 | 67.3 | 2.4 | 0.0 | 2.4 | 0.6 | 0.0 | 68.5 |
| Naraha | 212 | 212 | 55 | 155 | 2 | 0 | 2 | 2 | 0 | 154 |
| | | 100.0 | 25.9 | 73.1 | 0.9 | 0.0 | 0.9 | 0.9 | 0.0 | 72.6 |
| Tomioka | 434 | 434 | 115 | 314 | 5 | 0 | 5 | 4 | 0 | 319 |
| | | 100.0 | 26.5 | 72.4 | 1.2 | 0.0 | 1.2 | 0.9 | 0.0 | 73.5 |
| Kawauchi | 58 | 58 | 17 | 40 | 1 | 0 | 1 | 0 | 0 | 41 |
| | | 100.0 | 29.3 | 69.0 | 1.7 | 0.0 | 1.7 | 0.0 | 0.0 | 70.7 |
| Okuma | 424 | 424 | 122 | 293 | 9 | 0 | 9 | 4 | 0 | 297 |
| | | 100.0 | 28.8 | 69.1 | 2.1 | 0.0 | 2.1 | 0.9 | 0.0 | 70.0 |
| Futaba | 139 | 139 | 38 | 101 | 0 | 0 | 0 | 1 | 0 | 100 |
| | | 100.0 | 27.3 | 72.7 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 71.9 |
| Katsurao | 34 | 34 | 8 | 26 | 0 | 0 | 0 | 0 | 0 | 26 |
| | | 100.0 | 23.5 | 76.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 76.5 |
| Fukushima | 11,205 | 11,205 | 3,074 | 7,982 | 149 | 0 | 147 | 64 | 2 | 8,065 |
| | | 100.0 | 27.4 | 71.2 | 1.3 | 0.0 | 1.3 | 0.6 | 0.0 | 72.0 |
| Nihonmatsu | 2,085 | 2,085 | 631 | 1,426 | 28 | 0 | 28 | 10 | 0 | 1,447 |
| | | 100.0 | 30.3 | 68.4 | 1.3 | 0.0 | 1.3 | 0.5 | 0.0 | 69.4 |
| Motomiya | 1,253 | 1,253 | 355 | 883 | 15 | 0 | 15 | 6 | 0 | 891 |
| | | 100.0 | 28.3 | 70.5 | 1.2 | 0.0 | 1.2 | 0.5 | 0.0 | 71.1 |
| Otama | 403 | 403 | 112 | 280 | 11 | 0 | 11 | 2 | 0 | 286 |
| | | 100.0 | 27.8 | 69.5 | 2.7 | 0.0 | 2.7 | 0.5 | 0.0 | 71.0 |
| Koriyama | 13,277 | 13,277 | 3,507 | 9,590 | 180 | 0 | 179 | 81 | 1 | 9,705 |
| | | 100.0 | 26.4 | 72.2 | 1.4 | 0.0 | 1.3 | 0.6 | 0.0 | 73.1 |
| Koori | 480 | 480 | 133 | 339 | 8 | 0 | 8 | 4 | 0 | 344 |
| | | 100.0 | 27.7 | 70.6 | 1.7 | 0.0 | 1.7 | 0.8 | 0.0 | 71.7 |
| Kunimi | 293 | 293 | 90 | 193 | 10 | 0 | 10 | 2 | 0 | 199 |
| | | 100.0 | 30.7 | 65.9 | 3.4 | 0.0 | 3.4 | 0.7 | 0.0 | 67.9 |
| Tenei | 194 | 194 | 44 | 148 | 2 | 0 | 2 | 2 | 0 | 149 |
| | | 100.0 | 22.7 | 76.3 | 1.0 | 0.0 | 1.0 | 1.0 | 0.0 | 76.8 |
| Shirakawa | 2,644 | 2,644 | 663 | 1,949 | 32 | 0 | 32 | 22 | 0 | 1,961 |
| | | 100.0 | 25.1 | 73.7 | 1.2 | 0.0 | 1.2 | 0.8 | 0.0 | 74.2 |
| Nishigo | 843 | 843 | 232 | 601 | 10 | 0 | 10 | 9 | 0 | 608 |
| | | 100.0 | 27.5 | 71.3 | 1.2 | 0.0 | 1.2 | 1.1 | 0.0 | 72.1 |
| Izumizaki | 222 | 222 | 62 | 157 | 3 | 0 | 3 | 2 | 0 | 159 |
| | | 100.0 | 27.9 | 70.7 | 1.4 | 0.0 | 1.4 | 0.9 | 0.0 | 71.6 |
| Miharu | 533 | 533 | 137 | 392 | 4 | 0 | 4 | 6 | 0 | 393 |
| | | 100.0 | 25.7 | 73.5 | 0.8 | 0.0 | 0.8 | 1.1 | 0.0 | 73.7 |
| Subtotal | 41,745 | 41,745 | 11,232 | 29,947 | 566 | 0 | 562 | 275 | 4 | 30,277 |
| | | 100.0 | 26.9 | 71.7 | 1.4 | 0.0 | 1.3 | 0.7 | 0.0 | 72.5 |

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| | a. Number of participants (persons) | b. Those with finalized results (persons) | Number of participants by grade (persons) | | | | Number of participants with nodules (persons) | | Number of participants with cysts (persons) | |
|-----------------------------------|-------------------------------------|---|---|--------|-----|-----|---|--------|---|---------|
| | | | Percentages by grade (%) | | | | Percentage (%) | | Percentage (%) | |
| | | | A1 | A2 | B | C | ≥5.1mm | ≤5.0mm | ≥20.1mm | ≤20.0mm |
| | | | | | | | | | | |
| Municipalities surveyed in FY2024 | | | | | | | | | | |
| Iwaki | 11,335 | 11,335 | 3,137 | 8,024 | 174 | 0 | 173 | 82 | 1 | 8,111 |
| | | 100.0 | 27.7 | 70.8 | 1.5 | 0.0 | 1.5 | 0.7 | 0.0 | 71.6 |
| Sukagawa | 2,826 | 2,826 | 746 | 2,026 | 54 | 0 | 54 | 17 | 0 | 2,060 |
| | | 100.0 | 26.4 | 71.7 | 1.9 | 0.0 | 1.9 | 0.6 | 0.0 | 72.9 |
| Soma | 1,008 | 1,008 | 267 | 722 | 19 | 0 | 19 | 12 | 0 | 731 |
| | | 100.0 | 26.5 | 71.6 | 1.9 | 0.0 | 1.9 | 1.2 | 0.0 | 72.5 |
| Kagamiishi | 501 | 501 | 126 | 371 | 4 | 0 | 4 | 0 | 0 | 375 |
| | | 100.0 | 25.1 | 74.1 | 0.8 | 0.0 | 0.8 | 0.0 | 0.0 | 74.9 |
| Shinchi | 249 | 249 | 68 | 174 | 7 | 0 | 7 | 2 | 0 | 177 |
| | | 100.0 | 27.3 | 69.9 | 2.8 | 0.0 | 2.8 | 0.8 | 0.0 | 71.1 |
| Nakajima | 153 | 153 | 44 | 109 | 0 | 0 | 0 | 1 | 0 | 109 |
| | | 100.0 | 28.8 | 71.2 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 71.2 |
| Yabuki | 617 | 617 | 174 | 434 | 9 | 0 | 9 | 3 | 0 | 439 |
| | | 100.0 | 28.2 | 70.3 | 1.5 | 0.0 | 1.5 | 0.5 | 0.0 | 71.2 |
| Ishikawa | 494 | 494 | 122 | 362 | 10 | 0 | 9 | 6 | 1 | 366 |
| | | 100.0 | 24.7 | 73.3 | 2.0 | 0.0 | 1.8 | 1.2 | 0.2 | 74.1 |
| Yamatsuri | 199 | 199 | 47 | 151 | 1 | 0 | 1 | 5 | 0 | 152 |
| | | 100.0 | 23.6 | 75.9 | 0.5 | 0.0 | 0.5 | 2.5 | 0.0 | 76.4 |
| Asakawa | 232 | 232 | 60 | 169 | 3 | 0 | 3 | 2 | 0 | 171 |
| | | 100.0 | 25.9 | 72.8 | 1.3 | 0.0 | 1.3 | 0.9 | 0.0 | 73.7 |
| Hirata | 225 | 225 | 54 | 166 | 5 | 0 | 5 | 3 | 0 | 170 |
| | | 100.0 | 24.0 | 73.8 | 2.2 | 0.0 | 2.2 | 1.3 | 0.0 | 75.6 |
| Tanagura | 542 | 542 | 136 | 398 | 8 | 0 | 8 | 4 | 0 | 404 |
| | | 100.0 | 25.1 | 73.4 | 1.5 | 0.0 | 1.5 | 0.7 | 0.0 | 74.5 |
| Hanawa | 248 | 248 | 73 | 173 | 2 | 0 | 2 | 5 | 0 | 173 |
| | | 100.0 | 29.4 | 69.8 | 0.8 | 0.0 | 0.8 | 2.0 | 0.0 | 69.8 |
| Samegawa | 119 | 119 | 37 | 80 | 2 | 0 | 2 | 1 | 0 | 82 |
| | | 100.0 | 31.1 | 67.2 | 1.7 | 0.0 | 1.7 | 0.8 | 0.0 | 68.9 |
| Ono | 311 | 311 | 76 | 229 | 6 | 0 | 6 | 2 | 0 | 233 |
| | | 100.0 | 24.4 | 73.6 | 1.9 | 0.0 | 1.9 | 0.6 | 0.0 | 74.9 |
| Tamakawa | 209 | 209 | 60 | 145 | 4 | 0 | 4 | 2 | 0 | 147 |
| | | 100.0 | 28.7 | 69.4 | 1.9 | 0.0 | 1.9 | 1.0 | 0.0 | 70.3 |
| Furudono | 212 | 212 | 57 | 151 | 4 | 0 | 4 | 1 | 0 | 154 |
| | | 100.0 | 26.9 | 71.2 | 1.9 | 0.0 | 1.9 | 0.5 | 0.0 | 72.6 |
| Hinoemata | 5 | 5 | 2 | 3 | 0 | 0 | 0 | 1 | 0 | 3 |
| | | 100.0 | 40.0 | 60.0 | 0.0 | 0.0 | 0.0 | 20.0 | 0.0 | 60.0 |
| Minamiaizu | 374 | 374 | 107 | 261 | 6 | 0 | 6 | 3 | 0 | 266 |
| | | 100.0 | 28.6 | 69.8 | 1.6 | 0.0 | 1.6 | 0.8 | 0.0 | 71.1 |
| Kaneyama | 27 | 27 | 8 | 19 | 0 | 0 | 0 | 0 | 0 | 19 |
| | | 100.0 | 29.6 | 70.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 70.4 |
| Showa | 22 | 22 | 9 | 13 | 0 | 0 | 0 | 0 | 0 | 13 |
| | | 100.0 | 40.9 | 59.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 59.1 |
| Mishima | 27 | 27 | 4 | 23 | 0 | 0 | 0 | 0 | 0 | 23 |
| | | 100.0 | 14.8 | 85.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 85.2 |
| Shimogo | 115 | 115 | 33 | 81 | 1 | 0 | 1 | 1 | 0 | 80 |
| | | 100.0 | 28.7 | 70.4 | 0.9 | 0.0 | 0.9 | 0.9 | 0.0 | 69.6 |
| Kitakata | 1,380 | 1,380 | 339 | 1,025 | 16 | 0 | 16 | 14 | 0 | 1,025 |
| | | 100.0 | 24.6 | 74.3 | 1.2 | 0.0 | 1.2 | 1.0 | 0.0 | 74.3 |
| Nishiaizu | 127 | 127 | 20 | 105 | 2 | 0 | 2 | 1 | 0 | 107 |
| | | 100.0 | 15.7 | 82.7 | 1.6 | 0.0 | 1.6 | 0.8 | 0.0 | 84.3 |
| Tadami | 119 | 119 | 23 | 93 | 3 | 0 | 3 | 2 | 0 | 94 |
| | | 100.0 | 19.3 | 78.2 | 2.5 | 0.0 | 2.5 | 1.7 | 0.0 | 79.0 |
| Inwashiro | 429 | 429 | 129 | 294 | 6 | 0 | 5 | 1 | 1 | 296 |
| | | 100.0 | 30.1 | 68.5 | 1.4 | 0.0 | 1.2 | 0.2 | 0.2 | 69.0 |
| Bandai | 110 | 110 | 29 | 80 | 1 | 0 | 1 | 1 | 0 | 80 |
| | | 100.0 | 26.4 | 72.7 | 0.9 | 0.0 | 0.9 | 0.9 | 0.0 | 72.7 |
| Kitashiobara | 106 | 106 | 23 | 82 | 1 | 0 | 1 | 1 | 0 | 82 |
| | | 100.0 | 21.7 | 77.4 | 0.9 | 0.0 | 0.9 | 0.9 | 0.0 | 77.4 |
| Aizumisato | 579 | 579 | 166 | 405 | 8 | 0 | 8 | 6 | 0 | 408 |
| | | 100.0 | 28.7 | 69.9 | 1.4 | 0.0 | 1.4 | 1.0 | 0.0 | 70.5 |
| Aizubange | 470 | 470 | 123 | 335 | 12 | 0 | 12 | 6 | 0 | 343 |
| | | 100.0 | 26.2 | 71.3 | 2.6 | 0.0 | 2.6 | 1.3 | 0.0 | 73.0 |
| Yanaizu | 89 | 89 | 27 | 62 | 0 | 0 | 0 | 0 | 0 | 62 |
| | | 100.0 | 30.3 | 69.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 69.7 |
| Aizuwakamatsu | 3,679 | 3,679 | 904 | 2,726 | 49 | 0 | 49 | 25 | 0 | 2,755 |
| | | 100.0 | 24.6 | 74.1 | 1.3 | 0.0 | 1.3 | 0.7 | 0.0 | 74.9 |
| Yugawa | 128 | 128 | 45 | 78 | 5 | 0 | 5 | 0 | 0 | 83 |
| | | 100.0 | 35.2 | 60.9 | 3.9 | 0.0 | 3.9 | 0.0 | 0.0 | 64.8 |
| Subtotal | 27,266 | 27,266 | 7,275 | 19,569 | 422 | 0 | 419 | 210 | 3 | 19,793 |
| | | 100.0 | 26.7 | 71.8 | 1.5 | 0.0 | 1.5 | 0.8 | 0.0 | 72.6 |
| Total | 69,011 | 69,011 | 18,507 | 49,516 | 988 | 0 | 981 | 485 | 7 | 50,070 |
| | | 100.0 | 26.8 | 71.8 | 1.4 | 0.0 | 1.4 | 0.7 | 0.0 | 72.6 |

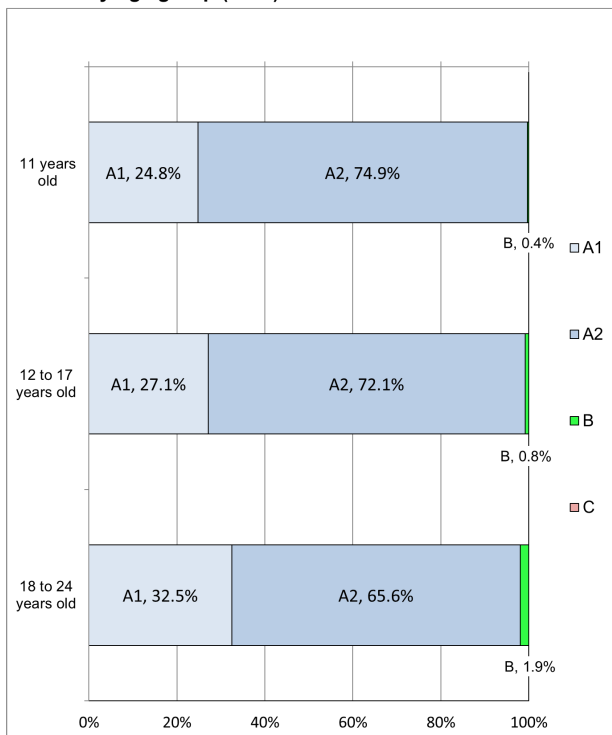
Appendix 4-1: TUE examination results by age and gender

As of September 30, 2025

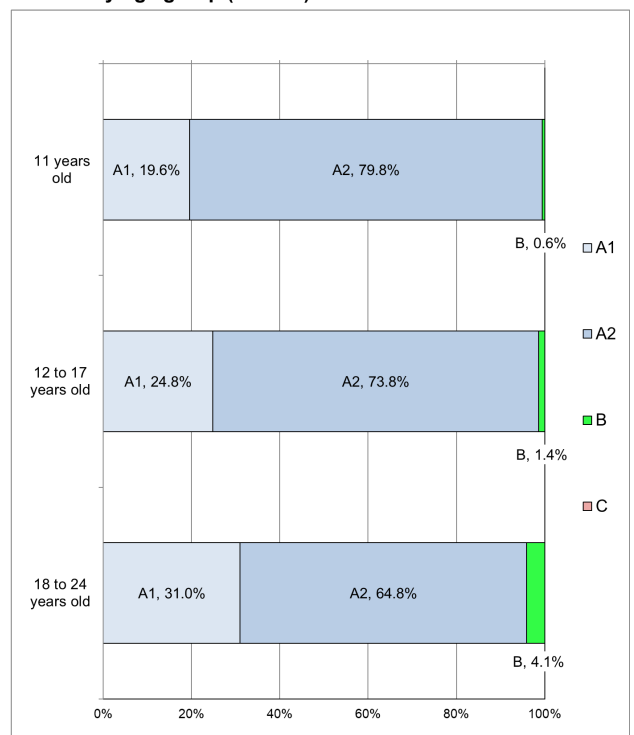
| Result Gender | | A | | | | | | B | | | C | | | Total | | |
|--------------------|--|-------|--------|--------|--------|--------|--------|------|--------|-------|------|--------|-------|--------|--------|--------|
| | | A1 | | | A2 | | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| | | Male | Female | Total | Male | Female | Total | | | | | | | | | |
| Age group | | | | | | | | | | | | | | | | |
| 11 years old | | 278 | 202 | 480 | 841 | 823 | 1,664 | 4 | 6 | 10 | 0 | 0 | 0 | 1,123 | 1,031 | 2,154 |
| 12 to 17 years old | | 7,667 | 6,690 | 14,357 | 20,401 | 19,898 | 40,299 | 234 | 379 | 613 | 0 | 0 | 0 | 28,302 | 26,967 | 55,269 |
| 18 to 24 years old | | 1,680 | 1,990 | 3,670 | 3,396 | 4,157 | 7,553 | 100 | 265 | 365 | 0 | 0 | 0 | 5,176 | 6,412 | 11,588 |
| Total | | 9,625 | 8,882 | 18,507 | 24,638 | 24,878 | 49,516 | 338 | 650 | 988 | 0 | 0 | 0 | 34,601 | 34,410 | 69,011 |

(persons)

Results by age group (Male)



Results by age group (Female)

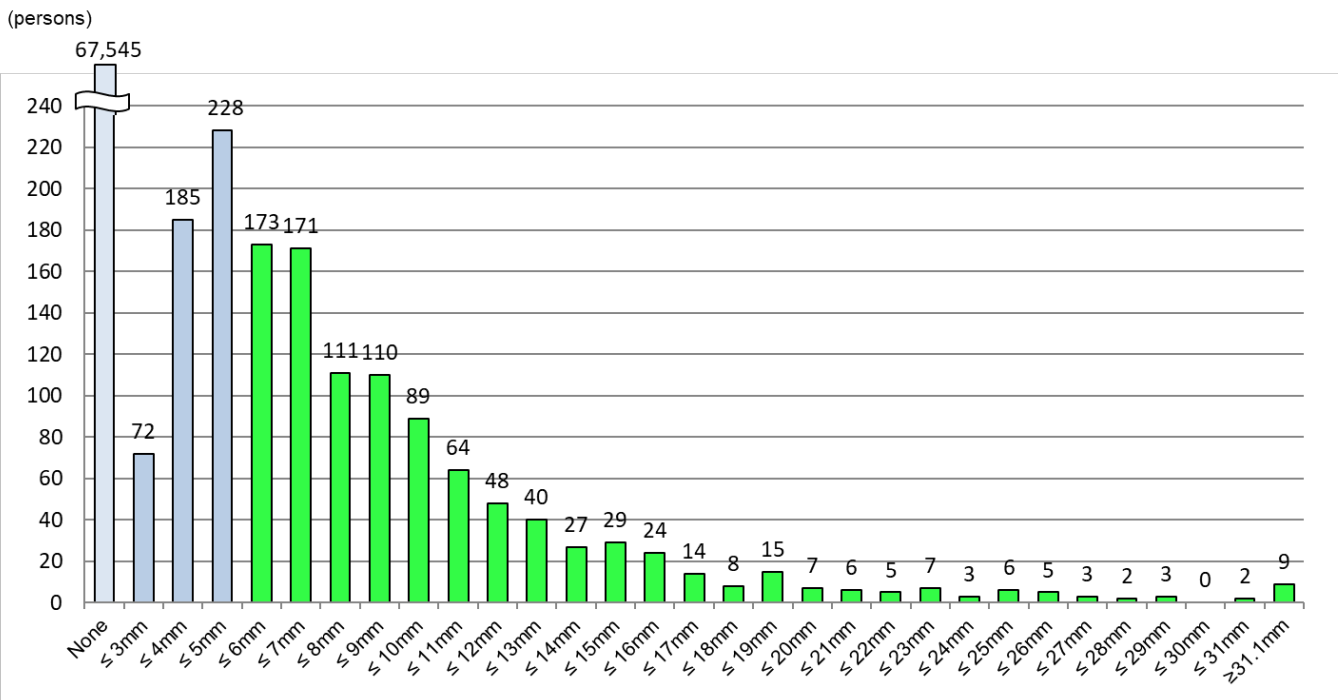
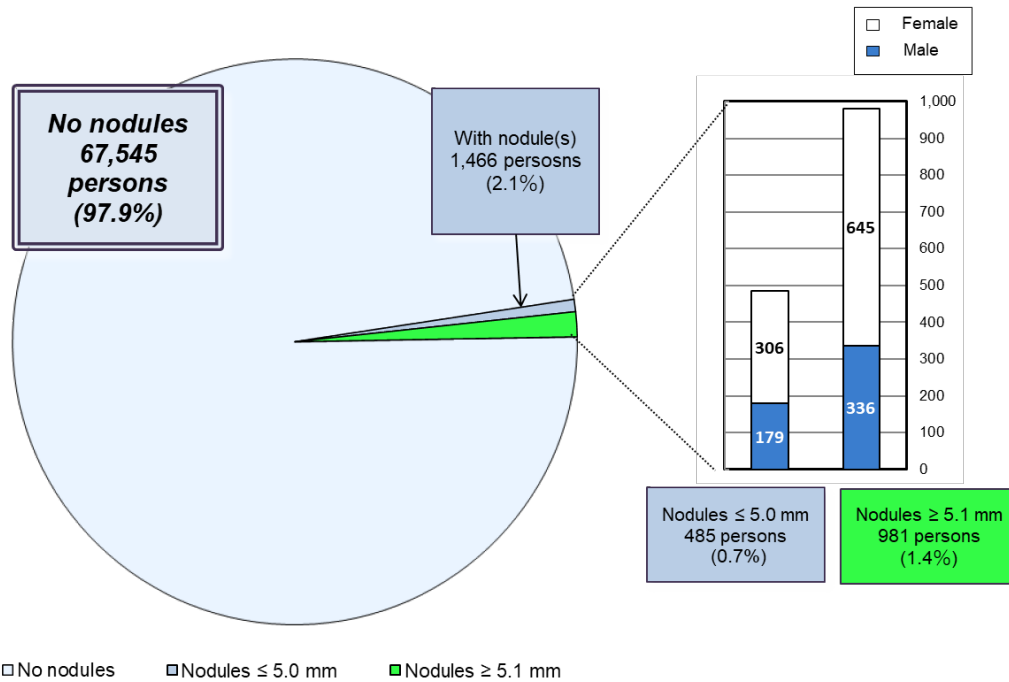


Appendix 4-2: Nodule characteristics

As of September 30, 2025

(persons)

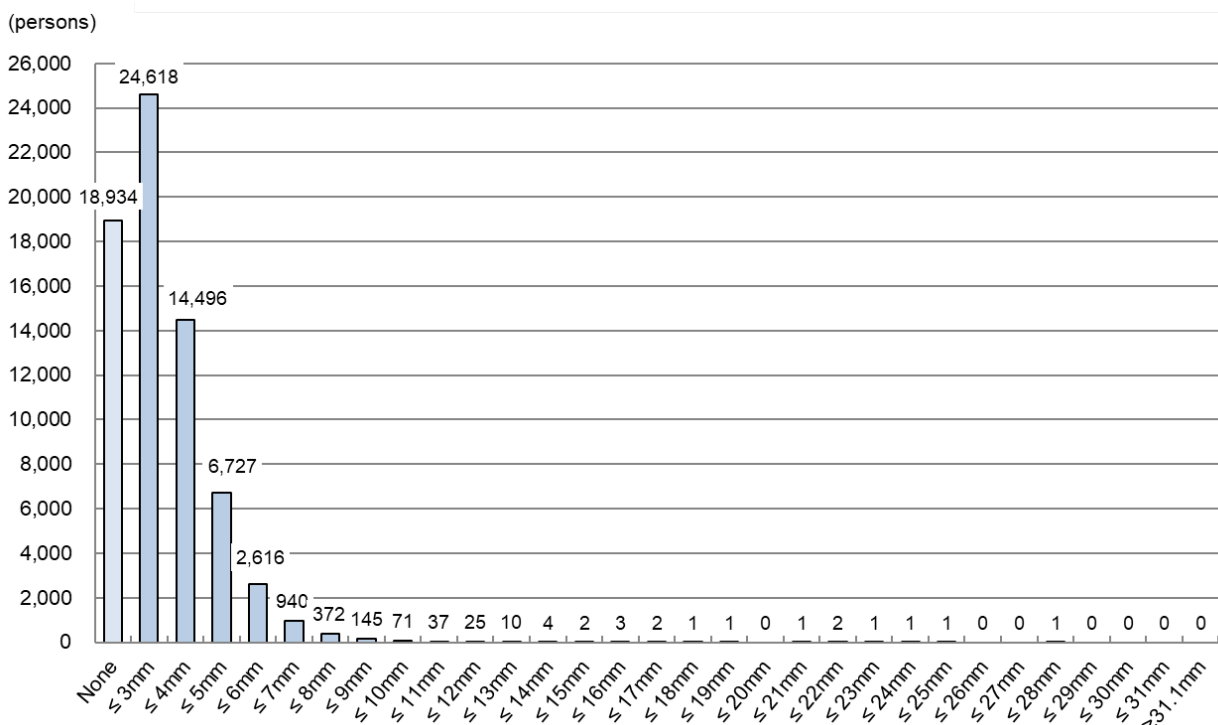
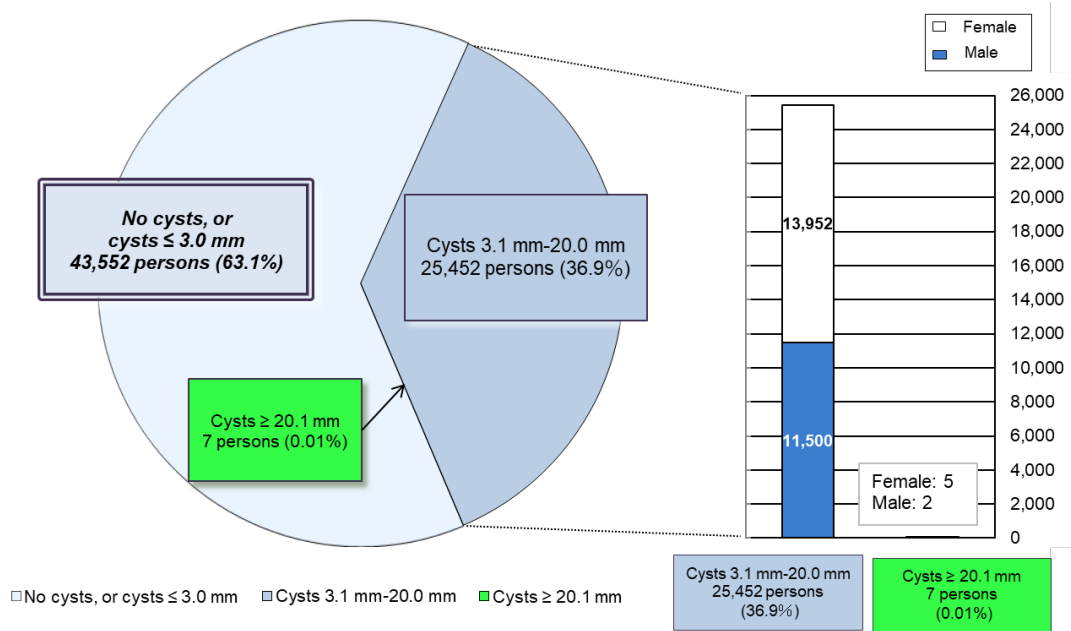
| Nodule size | Total | Gender | | Grade | |
|--------------|---------------|---------------|---------------|-------|-------|
| | | Male | Female | | |
| None | 67,545 | 34,086 | 33,459 | A1 | 97.9% |
| ≤ 3.0mm | 72 | 31 | 41 | A2 | 0.7% |
| 3.1–5.0mm | 413 | 148 | 265 | | |
| 5.1–10.0mm | 654 | 244 | 410 | B | 1.4% |
| 10.1–15.0mm | 208 | 60 | 148 | | |
| 15.1–20.0mm | 68 | 20 | 48 | | |
| 20.1–25.0mm | 27 | 8 | 19 | | |
| ≥ 25.1mm | 24 | 4 | 20 | | |
| Total | 69,011 | 34,601 | 34,410 | | |



Appendix 4-3: Cyst characteristics

As of September 30, 2025

| Cyst size | Total | (persons) | | Grade | |
|--------------|---------------|---------------|---------------|-------|-------|
| | | Male | Female | | |
| None | 18,934 | 9,783 | 9,151 | A1 | 63.1% |
| ≤ 3.0mm | 24,618 | 13,316 | 11,302 | A2 | |
| 3.1–5.0mm | 21,223 | 9,951 | 11,272 | | |
| 5.1–10.0mm | 4,144 | 1,530 | 2,614 | | |
| 10.1–15.0mm | 78 | 17 | 61 | | |
| 15.1–20.0mm | 7 | 2 | 5 | | |
| 20.1–25.0mm | 6 | 2 | 4 | B | 0.01% |
| ≥ 25.1mm | 1 | 0 | 1 | | |
| Total | 69,011 | 34,601 | 34,410 | | |



Appendix 5: Surgery for cases malignant or suspicious for malignancy

1. Municipalities for FY2023 Examination
Malignant or suspicious for malignancy: 14 (surgical cases: 10, papillary thyroid carcinomas: 10)
2. Municipalities for FY2024 Examination
Malignant or suspicious for malignancy: 7 (surgical cases: 4, papillary thyroid carcinomas: 4)
- 3 Total of 1 and 2
Malignant or suspicious for malignancy: 21 (surgical cases: 14, papillary thyroid carcinomas: 14)

Report on the TUE Full-Scale Survey (seventh-round survey)

As of September 30, 2025

1. Summary

1.1 Purpose

To monitor the long-term health of children, we are continuing the Full-Scale Survey (seventh-round survey), following the Preliminary Baseline Survey for initial assessment of thyroid glands, and prior Full-Scale Surveys (from the second-round survey to the sixth-round survey) to continuously assess the status of thyroid glands.

1.2 Eligible persons

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

1.3 Implementation Period

FY2025 and FY2026, starting in April 2025:

1.3-1 For those 18 years old or younger

The examination was carried out for 2 years: FY2025 and FY2026.

1.3-2 For those 19 years old or older

The examination was conducted on an age-group basis (i.e., school grade).

Those born from FY2002 to FY2006

1.3-3 For those 25 years old or older

Those older than 20 are recommended to receive the examination every 5 years at the ages of 25, 30, and so on (Age 25 and Age 30 Surveys).

FY2025: those born in FY1995 and FY2000

FY2026: those born in FY1996 and FY2001

Results of the survey for those 25 years and older will be reported separately.

1.4 Implementing Organizations (number of medical facilities with agreements for the implementation of thyroid examinations as of September 30, 2025)

Fukushima Prefecture commissioned Fukushima Medical University (FMU) to survey in cooperation with organizations in and outside Fukushima for the convenience of participants.

1.4-1 Primary examination facilities

In Fukushima Prefecture 84 medical facilities

Outside Fukushima Prefecture 158 medical facilities

1.4-2 Confirmatory examination facilities

In Fukushima Prefecture 7 medical facilities, including FMU

Outside Fukushima Prefecture 46 medical facilities

1.5 Methods

1.5-1 Primary examination

Ultrasonography of the thyroid gland.

Assessments are made by specialists based on the following criteria:

- Grade A

A1: No nodules/cysts

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

- Grade B

B: Nodules ≥ 5.1 mm or cysts ≥ 20.1 mm

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

-Grade C

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

1.5-2 Confirmatory examination

Ultrasonography of the thyroid gland, blood and urine tests, 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. A medical follow-up may be recommended based on confirmatory exam results.

1.5-3 Flow chart

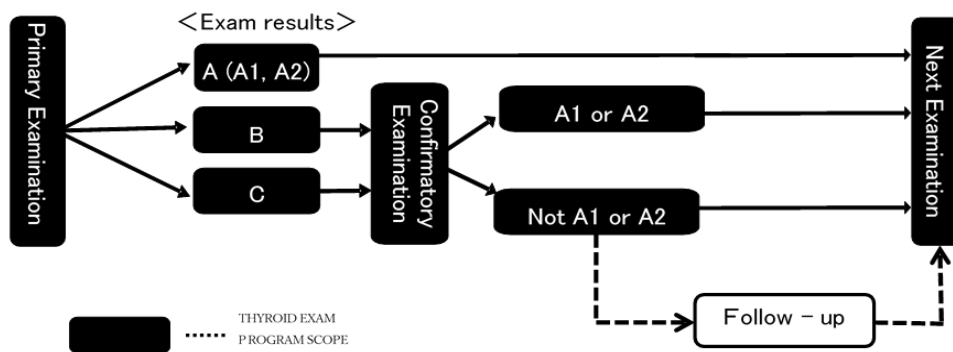


Figure 1: Flow chart

1.6 Municipalities Surveyed

The municipalities where examinations (for those 18 years old or younger) were carried out in FY2025 and FY2026 are as follows:

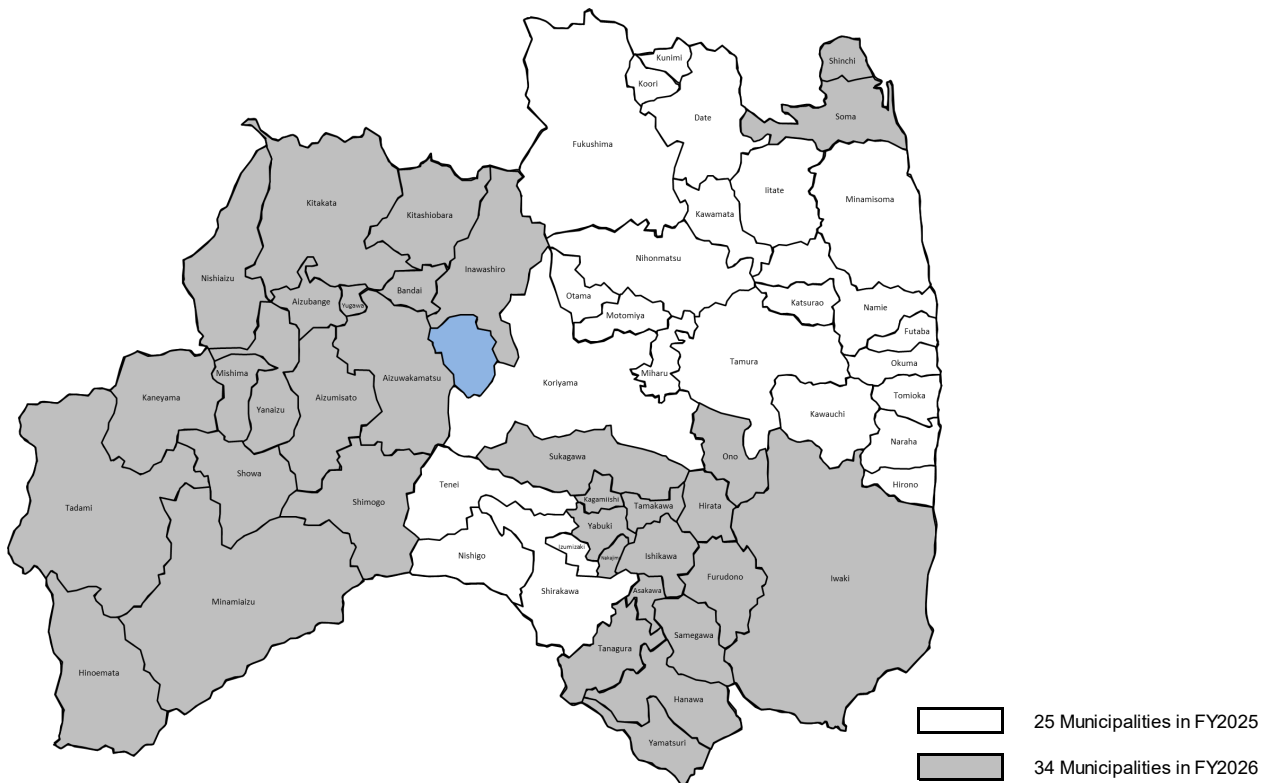


Figure 2: Municipalities covered for primary examinations in FY2025 and FY2026

2. Results as of September 30, 2025

2.1 Results of the Primary Examination

2.1-1 Implementation status

The primary examination was completed for 10,979 participants (6.4%) by September 30, 2025.

The results of 4,918 participants (44.8%) have been finalized, and individual reports have been sent to them.

Of these, 1,302 (26.5%) had Grade A1 results, 3,522 (71.6%) had Grade A2, 94 (1.9%) had Grade B, and none had Grade C.

Table 1: Progress and results of the primary examination

| | Eligible persons a | Participants (persons) | | Judgment rate (%) c (c/b) | Participants with finalized results (persons) | | | | | |
|--------|-----------------------|-----------------------------------|--|------------------------------|---|--------------|----------|---------|-------------------------------------|--|
| | | Participation rate (%) b (b/a) | Those who participated outside Fukushima | | Details by grade (%) | | | | | |
| | | | | | A | | | | Those referred to confirmatory exam | |
| | | A1 d (d/c) | A2 e (e/c) | | B f (f/c) | C g (g/c) | | | | |
| FY2025 | 98,989 | 9,790 (9.9) | 1,040 | 4,440 (45.4) | 1,153 (26.0) | 3,204 (72.2) | 83 (1.9) | 0 (0.0) | | |
| FY2026 | 72,962 | 1,189 (1.6) | 104 | 478 (40.2) | 149 (31.2) | 318 (66.5) | 11 (2.3) | 0 (0.0) | | |
| Total | 171,951 | 10,979 (6.4) | 1,144 | 4,918 (44.8) | 1,302 (26.5) | 3,522 (71.6) | 94 (1.9) | 0 (0.0) | | |

Table 2: Number and proportion of participants with nodules/cysts (see Appendix 1 for details).

| | Participants with finalized results a | Participants with nodules / cysts (%) | | | | | | | |
|--------|--|---------------------------------------|--------------------|---------------------|---------------------|-------|--|--|--|
| | | Nodules | | | | Cysts | | | |
| | | ≥ 5.1mm b (b/a) | ≤ 5.0mm c (c/a) | ≥ 20.1mm d (d/a) | ≤ 20.0mm e (e/a) | | | | |
| FY2025 | 4,440 | 83 (1.9) | 34 (0.8) | 0 (0.0) | 3,254 (73.3) | | | | |
| FY2026 | 478 | 11 (2.3) | 7 (1.5) | 0 (0.0) | 321 (67.2) | | | | |
| Total | 4,918 | 94 (1.9) | 41 (0.8) | 0 (0.0) | 3,575 (72.7) | | | | |

- Proportions are rounded to a lower decimal place. This applies to other tables as well.
- Those who receive the examination at 5-year intervals (born between FY1992 and FY2001) are excluded. The results of examinations at 5-year intervals (Age 25 and Age 30 Surveys) will be reported separately.
- Examinations for those born in FY1995 (approx. 21,000) and FY2000 (approx. 20,000) have been carried out in FY2025. Examinations for those born in FY1996 (approx. 21,000) and FY2001 (approx. 20,000) will be carried out in FY2026.

2.1-2 Participation rate by age group

Table 3 shows the participation rate for each age group as of April 1 of each fiscal year.

Table 3: Participation rates by age group

| | | Total | Age group | |
|--------|------------------------------|---------|-----------------------|-----------------------|
| FY2025 | Age group* | | 13 to 17 years old | 18 to 24 years old |
| | Eligible persons (a) | 98,989 | 46,937 | 52,052 |
| | Participants (b) | 9,790 | 8,989 | 801 |
| | Participation rate (%) (b/a) | 9.9 | 19.2 | 1.5 |
| FY2026 | Age group* | | 13 to 17 years old | 18 to 24 years old |
| | Eligible persons (a) | 72,962 | 26,982 | 45,980 |
| | Participants (b) | 1,189 | 493 | 696 |
| | Participation rate (%) (b/a) | 1.6 | 1.8 | 1.5 |
| Total | Eligible persons (a) | 171,951 | 73,919 | 98,032 |
| | Participants (b) | 10,979 | 9,482 | 1,497 |
| | Participation rate (%) (b/a) | 6.4 | 12.8 | 1.5 |

* Age groups are based on ages as of April 1 of each fiscal year.

2.1-3 Comparison of the sixth- and seventh-round survey results

Table 4 compares the results of two Full-Scale Surveys (the sixth- and seventh-round surveys).

Among 4,185 (sum of *1) participants with Grade A1 and A2 results in the sixth-round survey, 4,146 (sum of *2, 99.1%) had Grade A results, and 39 (sum of *3, 0.9%) had Grade B results in the seventh-round survey.

Among 43 participants with Grade B results in the sixth-round survey, 3 (sum of *4, 7.0%) had Grade A results, and 40 (93.0%) had Grade B results in the seventh-round survey.

Table 4: Comparison of the sixth- and seventh-round surveys

| | | | Results of the sixth-round survey* | Results of the seventh-round survey** | | | | |
|---|---------------------|----|--|---------------------------------------|--------------------|----------------|------------|------------|
| | | | | A | | B | C | |
| | | | | A1 b (b/a) | A2 c (c/a) | | | d (d/a) |
| Results of the sixth-round survey | A | A1 | *1 1,078 (100.0) | *2 803 (74.5) | *2 270 (25.0) | *3 5 (0.5) | 0 (0.0) | |
| | | A2 | *1 3,107 (100.0) | *2 300 (9.7) | *2 2,773 (89.3) | *3 34 (1.1) | 0 (0.0) | |
| | B | | 43 (100.0) | *4 0 (0.0) | *4 3 (7.0) | 40 (93.0) | 0 (0.0) | |
| | C | | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | |
| | Did not participate | | 690 (100.0) | 199 (28.8) | 476 (69.0) | 15 (2.2) | 0 (0.0) | |
| Total | | | 4,918 (100.0) | 1,302 (26.5) | 3,522 (71.6) | 94 (1.9) | 0 (0.0) | |

* The figures in the upper row indicate the number of participants whose results from the seventh-round survey match those from the sixth-round survey; they do not represent a breakdown of all sixth-round survey results.

** The upper row shows the distribution of the seventh-round survey results in relation to the sixth-round survey results (number of participants). The lower row shows the corresponding proportions (%).

2. Mental Health Care

We provide the following support for thyroid examination participants.

3.1 Support for Primary Examination Participants

After the examination, medical doctors offer person-to-person explanations of examination results, showing ultrasound images in private consultation booths at examination venues set up in public facilities.

Consultation booths were set up at all venues for examinations conducted in and after April 2025; as of September 30, 2025, all 182 participants (100%) have visited these consultation booths.

3.2 Outreach programs (on-site lectures and information sessions at the seventh-round survey)

To help examination participants deepen their understanding of the Thyroid Ultrasound Examination, we conduct on-site educational sessions. During the period from April 2025 to the end of September 30, 2025, we delivered 2 on-location sessions (2 at junior high schools) for 138 students. In total, 17,088 people have participated since the start of these sessions.

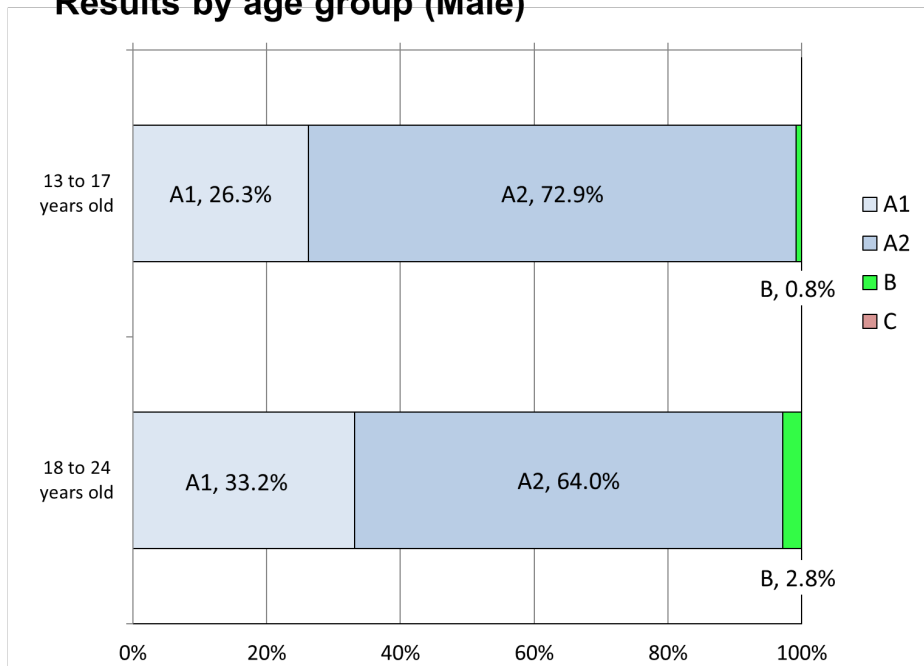
Appendix 1: TUE examination results by age and gender

As of September 30, 2025

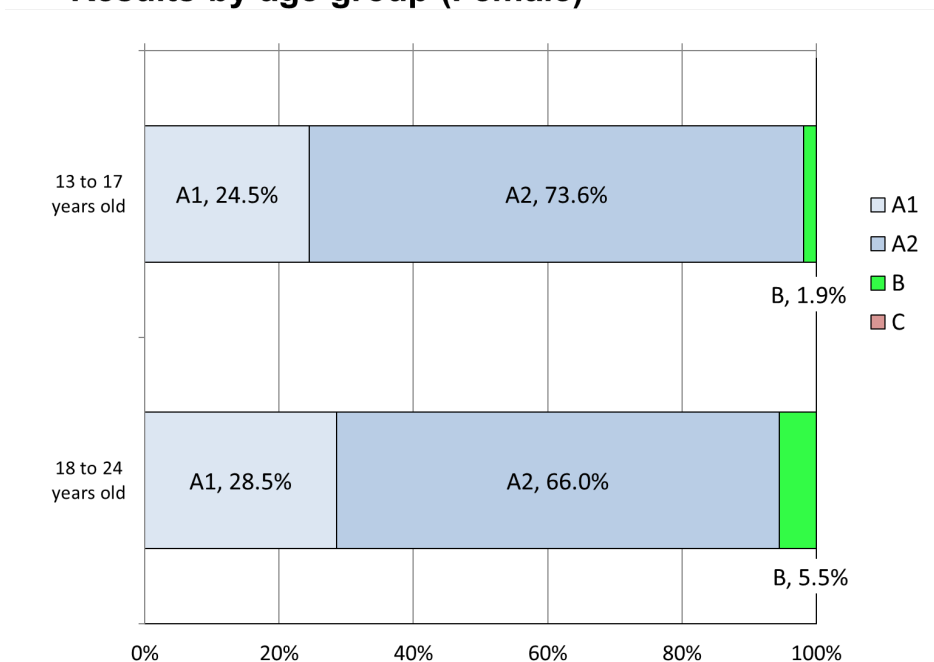
(person)

| Result Gender | A | | | | | | B | | | C | | | Total | | | |
|--------------------|------|--------|-------|-------|--------|-------|------|--------|-------|------|--------|-------|-------|--------|-------|--|
| | A1 | | | A2 | | | Male | Female | Total | Male | Female | Total | Male | Female | Total | |
| | Male | Female | Total | Male | Female | Total | | | | | | | | | | |
| Age group | | | | | | | | | | | | | | | | |
| 13 to 17 years old | 559 | 442 | 1,001 | 1,550 | 1,330 | 2,880 | 17 | 34 | 51 | 0 | 0 | 0 | 2,126 | 1,806 | 3,932 | |
| 18 to 24 years old | 141 | 160 | 301 | 272 | 370 | 642 | 12 | 31 | 43 | 0 | 0 | 0 | 425 | 561 | 986 | |
| Total | 700 | 602 | 1,302 | 1,822 | 1,700 | 3,522 | 29 | 65 | 94 | 0 | 0 | 0 | 2,551 | 2,367 | 4,918 | |

Results by age group (Male)



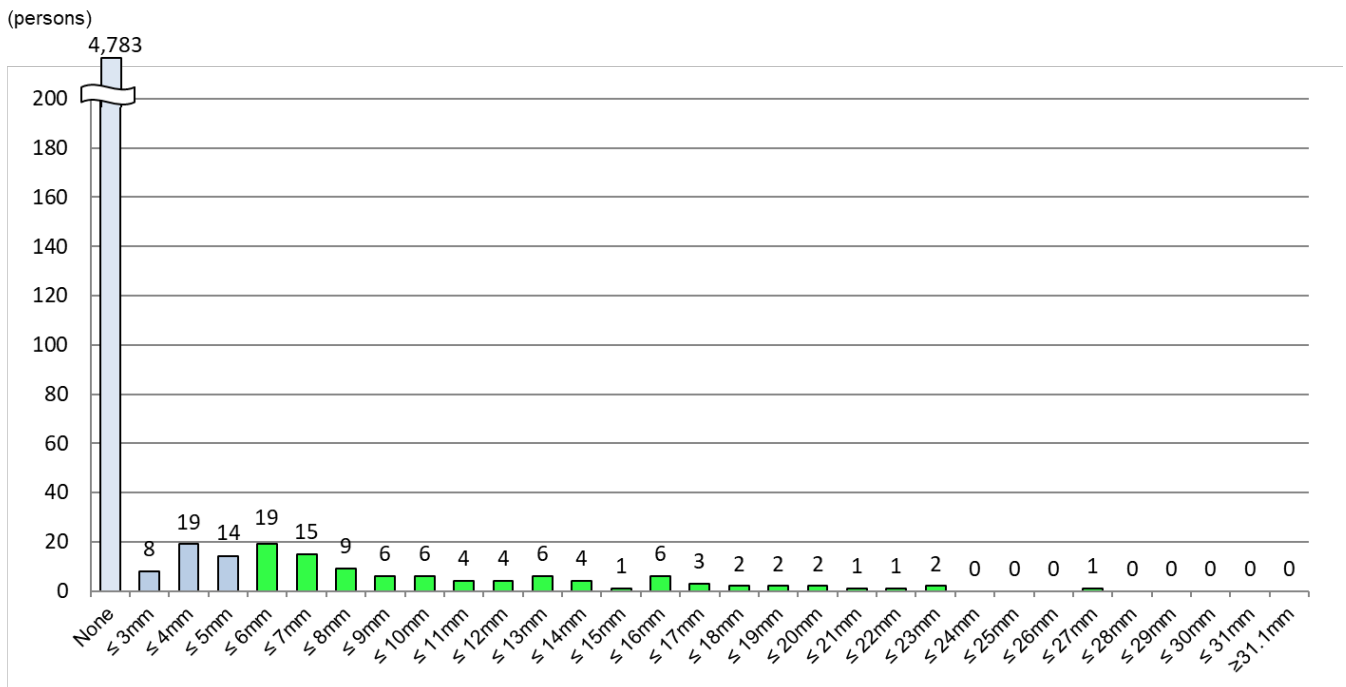
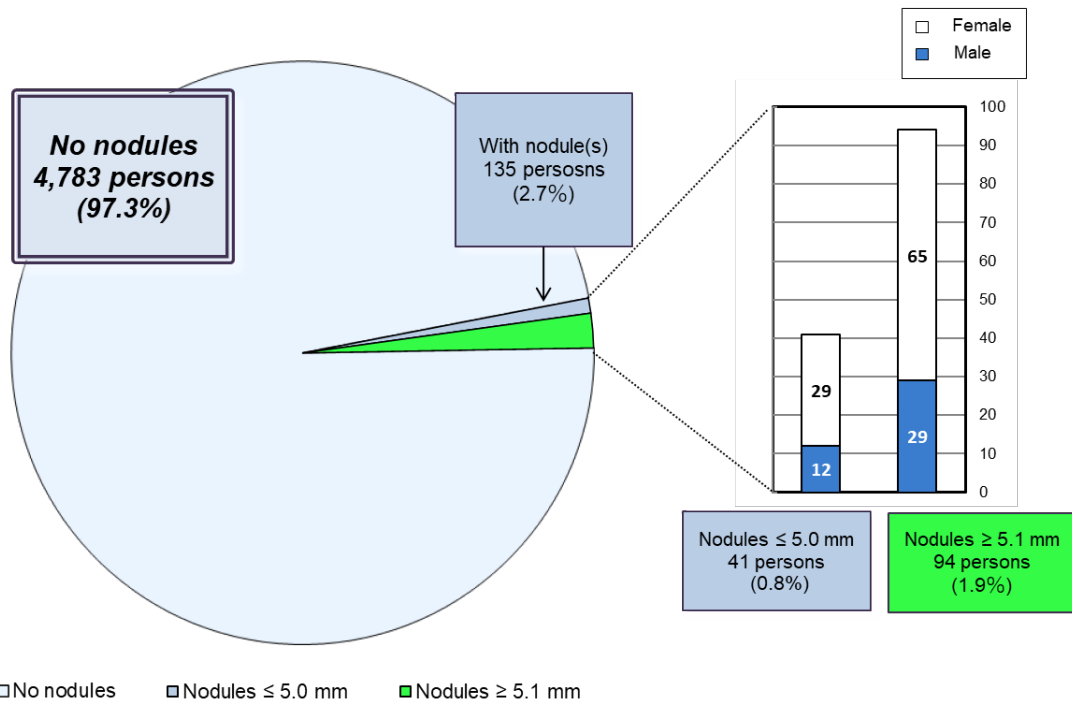
Results by age group (Female)



Appendix 1-2: Nodule characteristics

September 30, 2025
(persons)

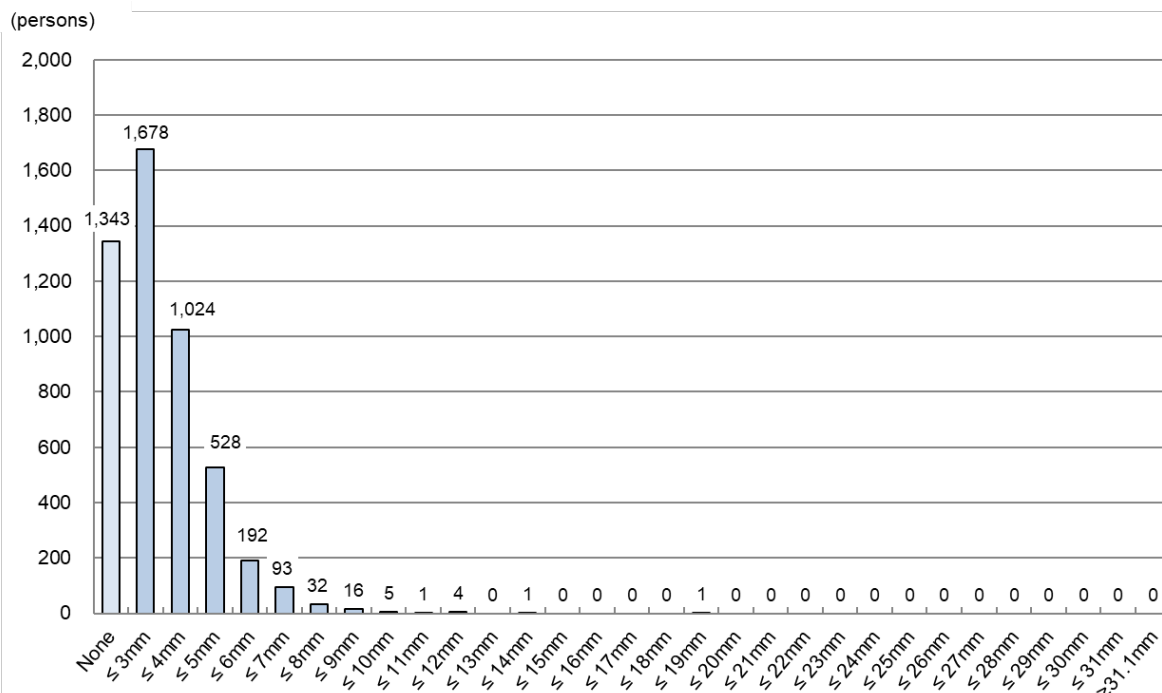
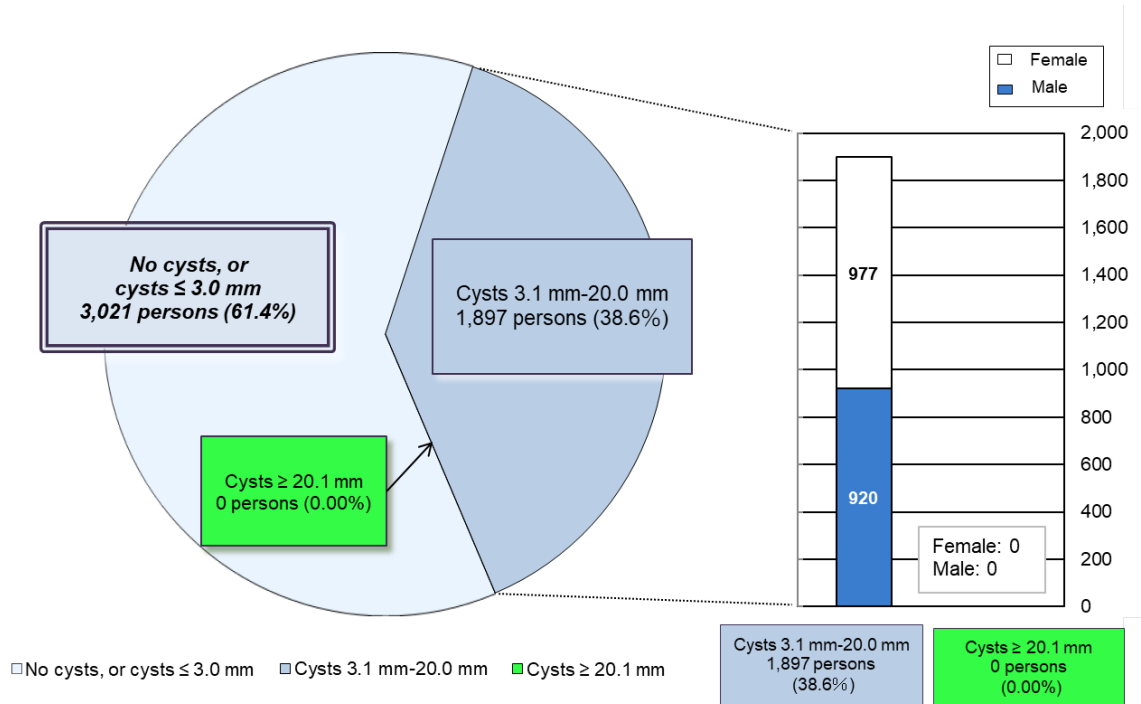
| Nodule size | Total | Gender | | Grade | |
|--------------|--------------|--------------|--------------|-------|-------|
| | | Male | Female | | |
| None | 4,783 | 2,510 | 2,273 | A1 | 97.3% |
| ≤ 3.0mm | 8 | 2 | 6 | A2 | 0.8% |
| 3.1–5.0mm | 33 | 10 | 23 | | |
| 5.1–10.0mm | 55 | 16 | 39 | B | 1.9% |
| 10.1–15.0mm | 19 | 7 | 12 | | |
| 15.1–20.0mm | 15 | 6 | 9 | | |
| 20.1–25.0mm | 4 | 0 | 4 | | |
| ≥ 25.1mm | 1 | 0 | 1 | | |
| Total | 4,918 | 2,551 | 2,367 | | |



Appendix 1-3: Cyst characteristics

September 30, 2025

| Cyst size | Total | Gender | | Grade | |
|--------------|--------------|--------------|--------------|-------|------------|
| | | Male | Female | Grade | Percentage |
| None | 1,343 | 718 | 625 | A1 | 61.4% |
| ≤ 3.0mm | 1,678 | 913 | 765 | A2 | |
| 3.1–5.0mm | 1,552 | 767 | 785 | | |
| 5.1–10.0mm | 338 | 150 | 188 | | |
| 10.1–15.0mm | 6 | 3 | 3 | | |
| 15.1–20.0mm | 1 | 0 | 1 | | |
| 20.1–25.0mm | 0 | 0 | 0 | B | 0.00% |
| ≥ 25.1mm | 0 | 0 | 0 | | |
| Total | 4,918 | 2,551 | 2,367 | | |



Report on the TUE Full-Scale Survey (Survey for Age 25)

As of September 30, 2025

1. Summary

1.1 Eligible Persons

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

This report includes the Survey status of those born from FY1992 to FY1999 (those born between April 2, 1992, and April 1, 2000)

1.2 Implementation Period

The Survey for Age 25 (hereinafter “Age 25 Survey”) started in FY2017 for those who turned 25 years old during each fiscal year. Suppose residents are unable to receive the examination in the year they turn 25. In that case, they are entitled to one any time through the fiscal year before the year they turn 30 (see Figure 1 for the implementation schedule of the Age 25 Survey).

| Year of exam Birth year of examinees | FY2017 Age | FY2018 Age | FY2019 Age | FY2020 Age | FY2021 Age | FY2022 Age | FY2023 Age | FY2024 Age |
|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| FY1992 | 25★ | 26 | 27 | 28 | 29 | 30★ | 31 | 32 |
| FY1993 | 24 | 25★ | 26 | 27 | 28 | 29 | 30★ | 31 |
| FY1994 | 23 | 24 | 25★ | 26 | 27 | 28 | 29 | 30★ |
| FY1995 | 22 | 23 | 24 | 25★ | 26 | 27 | 28 | 29 |
| FY1996 | 21 | 22 | 23 | 24 | 25★ | 26 | 27 | 28 |
| FY1997 | 20 | 21 | 22 | 23 | 24 | 25★ | 26 | 27 |
| FY1998 | 19 | 20 | 21 | 22 | 23 | 24 | 25★ | 26 |
| FY1999 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25★ |

- The examinations are offered to those who turn age 25 in each fiscal year.
- Invitations for the examination will be sent to those who turn age 25 in the fiscal year marked with ★.

Figure 1: Implementation schedule for the Age 25 Survey

2. Overview of the Age 25 Survey as of September 30, 2025

2.1 Results of the Primary Examination

2.1-1 Implementation status

Primary examinations for the Age 25 Survey started in May 2017 for those who turned 25 years old (those born between FY1992 and FY1999), of whom 13,887 persons (8.2%) participated. (See Appendix 1 and Appendix 2 for implementation status by areas inside and outside Fukushima Prefecture, respectively.)

The results for 13,880 participants (99.9%) have been finalized, and individual reports have been sent to them. (See Appendix 3 for details by area.)

Of these, 5,867 (42.3%) had Grade A1 results, 7,234 (52.1%) had Grade A2, 779 (5.6%) had Grade B, and none had Grade C.

Table 1: Progress and results of the primary examination

| | Eligible persons a | Participants (persons) | | Participants with finalized results (persons) | | | | | |
|----------------|-----------------------|-----------------------------------|--|---|----------------------|--------------|-------------------------------------|---------|--|
| | | Participation rate (%) b (b/a) | Those who participated outside Fukushima | Judgment rate (%) c (c/b) | Details by grade (%) | | | | |
| | | | | | A | | Those referred to confirmatory exam | | |
| | | A1 d (d/c) | A2 e (e/c) | B f (f/c) | C g (g/c) | | | | |
| Born in FY1992 | 22,650 | 2,343 (10.3) | 770 | 2,343 (100.0) | 980 (41.8) | 1,258 (53.7) | 105 (4.5) | 0 (0.0) | |
| Born in FY1993 | 21,888 | 2,348 (10.7) | 858 | 2,348 (100.0) | 1,069 (45.5) | 1,160 (49.4) | 119 (5.1) | 0 (0.0) | |
| Born in FY1994 | 22,093 | 1,974 (8.9) | 757 | 1,974 (100.0) | 832 (42.1) | 1,035 (52.4) | 107 (5.4) | 0 (0.0) | |
| Born in FY1995 | 21,056 | 2,095 (9.9) | 774 | 2,095 (100.0) | 875 (41.8) | 1,090 (52.0) | 130 (6.2) | 0 (0.0) | |
| Born in FY1996 | 21,019 | 1,880 (8.9) | 681 | 1,879 (99.9) | 782 (41.6) | 975 (51.9) | 122 (6.5) | 0 (0.0) | |
| Born in FY1997 | 20,299 | 1,422 (7.0) | 532 | 1,422 (100.0) | 586 (41.2) | 751 (52.8) | 85 (6.0) | 0 (0.0) | |
| Born in FY1998 | 20,838 | 926 (4.4) | 338 | 925 (99.9) | 371 (40.1) | 497 (53.7) | 57 (6.2) | 0 (0.0) | |
| Born in FY1999 | 20,113 | 899 (4.5) | 341 | 894 (99.4) | 372 (41.6) | 468 (52.3) | 54 (6.0) | 0 (0.0) | |
| Total | 169,956 | 13,887 (8.2) | 5,051 | 13,880 (99.9) | 5,867 (42.3) | 7,234 (52.1) | 779 (5.6) | 0 (0.0) | |

Table 2: Numbers and percentages of participants with nodules/cysts (See Appendix 4 for details.)

| | Participants with finalized results (persons) a | Participants with nodules / cysts (%) | | | | | | | |
|----------------|--|---------------------------------------|--------------|---------------|---------------|-------|-------|-------|--------|
| | | Nodules | | | Cysts | | | | |
| | | ≥ 5.1mm b | ≤ 5.0mm c | ≥ 20.1mm d | ≤ 20.0mm e | (b/a) | (c/a) | (d/a) | (e/a) |
| Born in FY1992 | 2,343 | 104 | 53 | 1 | 1,305 | (4.4) | (2.3) | (0.0) | (55.7) |
| Born in FY1993 | 2,348 | 119 | 42 | 0 | 1,209 | (5.1) | (1.8) | (0.0) | (51.5) |
| Born in FY1994 | 1,974 | 107 | 39 | 0 | 1,094 | (5.4) | (2.0) | (0.0) | (55.4) |
| Born in FY1995 | 2,095 | 128 | 38 | 2 | 1,147 | (6.1) | (1.8) | (0.1) | (54.7) |
| Born in FY1996 | 1,879 | 121 | 37 | 1 | 1,026 | (6.4) | (2.0) | (0.1) | (54.6) |
| Born in FY1997 | 1,422 | 84 | 22 | 1 | 793 | (5.9) | (1.5) | (0.1) | (55.8) |
| Born in FY1998 | 925 | 56 | 20 | 1 | 520 | (6.1) | (2.2) | (0.1) | (56.2) |
| Born in FY1999 | 894 | 54 | 26 | 0 | 497 | (6.0) | (2.9) | (0.0) | (55.6) |
| Total | 13,880 | 773 | 277 | 6 | 7,591 | (5.6) | (2.0) | (0.0) | (54.7) |

- Percentages are rounded to a lower decimal place. This applies to other tables as well.
- The numbers and results of the Age 25 Survey participants are and will be presented by birth year (fiscal year), not by survey year. Moving forward, respective participants will be added and reported for each fiscal year.

2.1-2 Comparison with previous examination results

Table 3 compares the results of the Age 25 Survey and the previous survey.

Among 7,949 participants (sum of *1) with Grade A1 or A2 results in the previous survey, 7,748 (sum of *2, 97.5%) had Grade A1 or A2 results, and 201 (sum of *3, 2.5%) had Grade B results in the Age 25 Survey.

Among 300 participants with Grade B results in the previous survey, 68 (sum of *4, 22.7%) had Grade A (A1 or A2) results, and 232 (77.3%) had Grade B results in the Age 25 Survey.

Table 3: Comparison with the previous Survey results

| | | | Results of the previous survey* | Results of the Age 25 survey** | | | |
|--------------------------------|---------------------|----|---------------------------------|--------------------------------|--------------------|-----------------|------------|
| | | | | A | | B | C |
| | | | | A1 | A2 | | |
| | | | a (%) | b (b/a) | c (c/a) | d (d/a) | e (e/a) |
| Results of the previous survey | A | A1 | 3,190 *1 (100.0) | 2,586 *2 (81.1) | 576 *2 (18.1) | 28 *3 (0.9) | 0 (0.0) |
| | | A2 | 4,759 *1 (100.0) | 805 *2 (16.9) | 3,781 *2 (79.4) | 173 *3 (3.6) | 0 (0.0) |
| | B | | 300 (100.0) | 8 *4 (2.7) | 60 *4 (20.0) | 232 (77.3) | 0 (0.0) |
| | C | | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| | Did not participate | | 5,631 (100.0) | 2,468 (43.8) | 2,817 (50.0) | 346 (6.1) | 0 (0.0) |
| Total | | | 13,880 (100.0) | 5,867 (42.3) | 7,234 (52.1) | 779 (5.6) | 0 (0.0) |

* Results of the previous survey, just from the Age 25 Survey participants, with finalized results

** Results of the Age 25 Survey participants diagnosed for each grade in the previous survey. The lower figures are proportions (%).

2.2 Results of the Confirmatory Examination

2.2-1 Implementation status

Of those 779 eligible persons, 652 (83.7%) participated, of whom 641 (98.3%) completed the entire process of the confirmatory examination.

Of the 641 participants, 48 (7.5%) were confirmed to meet Grade A diagnostic criteria by primary examination standards (A1: 7, A2: 41) (including those with other thyroid conditions). The remaining 593 (92.5%) were confirmed to be out of the A1/A2 criteria.

Table 4: Progress of the Confirmatory Examination

| | Those referred to confirmatory exams (persons) a | Participants (persons) Participation Rate (%) b (b/a) | | Those with finalized results (%) | | | | | | | | | |
|----------------------|---|---|--------|----------------------------------|---------|---------------|-------|---------------|--------|---------------------|--------|----|--------|
| | | | | Judgment rate (%) c (c/b) | | A1 d (d/c) | | A2 e (e/c) | | Other than A1 or A2 | | | |
| | | | | | | | | | | FANC g (g/f) | | | |
| Those born in FY1992 | 105 | 88 | (83.8) | 85 | (96.6) | 0 | (0.0) | 4 | (4.7) | 81 | (95.3) | 8 | (9.9) |
| Those born in FY1993 | 119 | 104 | (87.4) | 104 | (100.0) | 1 | (1.0) | 9 | (8.7) | 94 | (90.4) | 10 | (10.6) |
| Those born in FY1994 | 107 | 87 | (81.3) | 86 | (98.9) | 2 | (2.3) | 8 | (9.3) | 76 | (88.4) | 7 | (9.2) |
| Those born in FY1995 | 130 | 116 | (89.2) | 114 | (98.3) | 0 | (0.0) | 4 | (3.5) | 110 | (96.5) | 12 | (10.9) |
| Those born in FY1996 | 122 | 105 | (86.1) | 104 | (99.0) | 3 | (2.9) | 7 | (6.7) | 94 | (90.4) | 11 | (11.7) |
| Those born in FY1997 | 85 | 68 | (80.0) | 68 | (100.0) | 0 | (0.0) | 7 | (10.3) | 61 | (89.7) | 5 | (8.2) |
| Those born in FY1998 | 57 | 43 | (75.4) | 40 | (93.0) | 1 | (2.5) | 1 | (2.5) | 38 | (95.0) | 2 | (5.3) |
| Those born in FY1999 | 54 | 41 | (75.9) | 40 | (97.6) | 0 | (0.0) | 1 | (2.5) | 39 | (97.5) | 2 | (5.1) |
| Total | 779 | 652 | (83.7) | 641 | (98.3) | 7 | (1.1) | 41 | (6.4) | 593 | (92.5) | 57 | (9.6) |

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

Among those who underwent FNAC, 27 were classified as malignant or suspicious for malignancy: 4 were male, and 23 were female. Participants' age at the time of the confirmatory examination ranged from 24 to 29 years (mean age: 25.7 ± 1.2 years). The minimum and maximum tumor diameters were 5.3 mm and 49.9 mm (mean tumor diameter: 13.7 ± 9.8 mm).

Of these 27 participants, 6 had Grade A results (A1: 1, A2: 5), and 5 had Grade B results in the previous survey. The remaining 16 persons did not participate in the previous survey. Of those 5 participants with Grade A2 results, 2 had nodules, and 3 had cysts.

Table 5. Results of FNAC

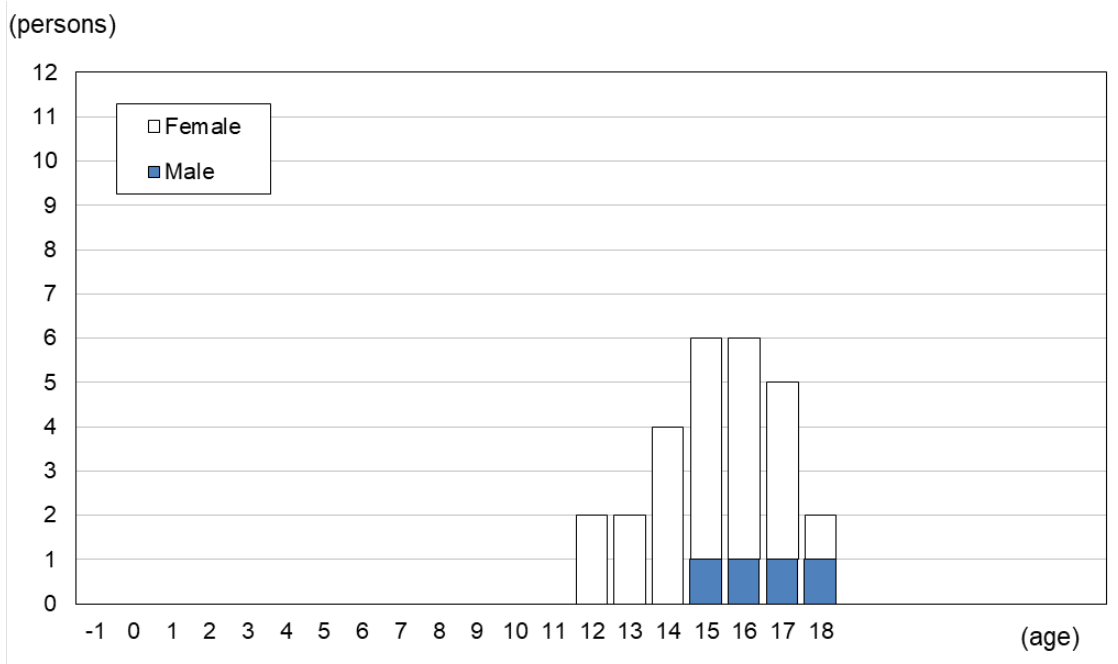
(After mean age and mean tumor size, numbers in parentheses indicate ranges.)

| | |
|--|---|
| Among those who underwent the Age 25 Survey: | |
| • Malignant or suspicious for malignancy: | 27* |
| • Male to female ratio: | 4:23 |
| • Mean age ± SD (min-max): | 25.7 ± 1.2 (24–29), 15.3 ± 1.7 (12–18) at the time of the earthquake |
| • Mean tumor size ± SD (min-max): | 13.7 ± 9.8 mm (5.3–49.9 mm) |

*Appendix 5 shows surgery cases.

2.2-3 Age distribution of malignant or suspected malignant cases diagnosed by FNAC

Age distribution of those 27 participants with malignant or suspicious nodules based on their age as of March 11, 2011, is per Figure 2, and age distribution based on their age at the time of confirmatory examination is per Figure 3.



* Ages -1 to 9 are not included in the Age 25 Survey for those born between FY1992 and FY1999. Age -1 covers those born between April 2, 2011, and April 1, 2012. Those who were born between March 12, 2011, and April 1, 2011, are included as age 0.

Figure 2: Age as of March 11, 2011

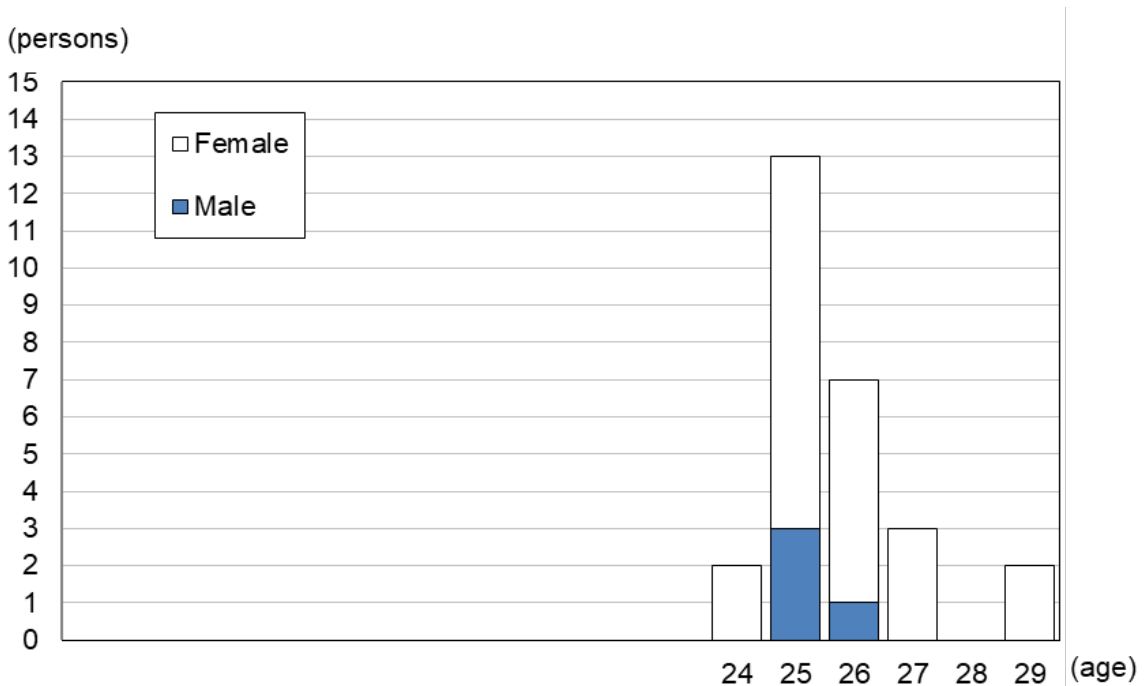


Figure 3: Age at the time of confirmatory examination

2.2-4 Basic Survey results of those with malignant or suspicious nodules by FNAC

Of the 27 people with malignant or suspicious nodules, 16 (59.3%) had participated in the Basic Survey (for external radiation dose estimation), and all 16 received their results. The highest effective dose documented was 1.9 mSv.

Table 6: A breakdown of dose estimates for Basic Survey participants

| Effective dose (mSv) | Age at the time of the disaster | | | | | | | | | |
|----------------------|---------------------------------|--------|------|--------|-------|--------|-------|--------|-------|--------|
| | 0-5 | | 6-10 | | 11-15 | | 16-18 | | Total | |
| | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female |
| < 1 | 0 | 0 | 0 | 0 | 0 | 6 | 1 | 4 | 1 | 10 |
| < 2 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 2 | 3 |
| < 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| < 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| < 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ≥ 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 1 | 8 | 2 | 5 | 3 | 13 |

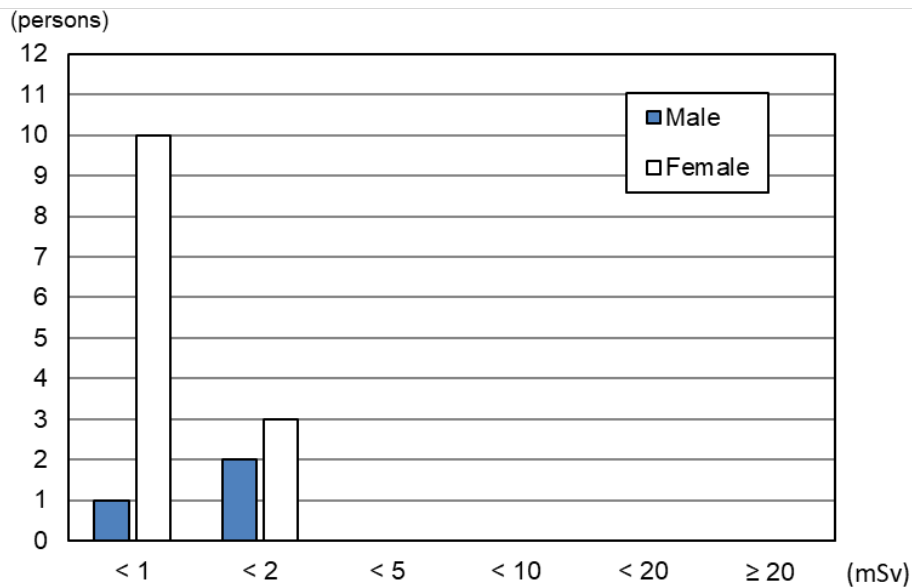


Figure 4: Effective doses of the Basic Survey participants

2.2-5 Blood and urinary iodine test results

Table 7: Blood 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 |
| Malignant or suspicious : 27 | 1.2±0.1 (3.7%) | 3.2±0.4 (11.1%) | 1.5±1.5 (18.5%) | 34.3±35.2 (37.0%) | 14.8% | 14.8% |
| Other : 585 | 1.2±0.2 (7.2%) | 3.3±0.4 (7.5%) | 1.2±0.7 (7.2%) | 69.7±535.9 (20.3%) | 11.1% | 10.6% |

Table 8: Urinary iodine test results ⁸⁾

| | | (μg/day) | | | | |
|---------------------------|-----|----------|-----------------|--------|-----------------|---------|
| | | Minimum | 25th percentile | Median | 75th percentile | Maximum |
| Malignant or suspicious : | 25 | 65 | 101 | 185 | 315 | 2,834 |
| Other : | 515 | 29 | 121 | 185 | 348 | 11,060 |

- 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 or 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.
- 8) Due to the temporary inavailability of reagents, the urinary iodine tests had been suspended from March 8, 2024, to January 19, 2025, but resumed on January 20, 2025.

3 Mental Health Care

3.1 Support for Primary Examination Participants

Since April 2017, medical doctors have offered person-to-person explanations of examination results, showing ultrasound images in private consultation booths at examination venues in public facilities. As of September 30, 2025, of those 1,346 participants, 1,345 (99.9%) visited these consultation booths.

3.2 Support for Confirmatory Examination Participants

A support team has been set up within Fukushima Medical University to offer psychological support to address the anxieties and concerns of confirmatory examination participants during the examination. The team also answers questions and offers counseling via our website.

Since the start of the Age 25 survey, 166 participants (37 males and 129 females) have received support as of September 30, 2025. The total number of support sessions was 316. Of these, 166 sessions (52.5%) occurred during participants' first examinations, and 150 (47.5%) took place at subsequent examinations.

For those who proceed to regular health insurance medical care, the support team continues to provide support in cooperation with teams of medical staff at hospitals.

Appendix 1: Implementation status of the Age 25 Survey by area

As of September 30, 2025

| | Eligible persons a | Participants (persons) | | Participation rate (%) b/a | Participants living outside the prefecture (persons) c ²⁾ | Proportion of participants living outside the prefecture (%) c/b |
|--|-----------------------|------------------------|---|----------------------------------|--|---|
| | | b | Those who participated outside Fukushima ¹⁾ | | | |
| Number of eligible persons for Age 25 Survey (Those born in from FY1992 to FY1999) | | | | | | |
| 13 municipalities ³⁾ | 22,536 | 1,922 | 732 | 8.5 | 731 | 38.0 |
| Nakadori ⁴⁾ | 90,614 | 7,569 | 2,716 | 8.4 | 2,436 | 32.2 |
| Hamadori ⁵⁾ | 32,748 | 3,056 | 1,125 | 9.3 | 1,045 | 34.2 |
| Aizu ⁶⁾ | 24,058 | 1,340 | 478 | 5.6 | 452 | 33.7 |
| Total | 169,956 | 13,887 | 5,051 | 8.2 | 4,664 | 33.6 |

1) The number of those who received examinations at medical facilities outside the prefecture (as of August 31, 2025)

2) The number of those whose place of residence is outside the prefecture

3) Tamura City, Minamisoma City, Date City, Kawamata Town, Hirono Town, Naraha Town, Tomioka Town, Kawauchi Village, Okuma Town, Futaba Town, Namie Town, Katsurao Village, Iitate Village

4) Fukushima City, Koriyama City, Shirakawa City, Sukagawa City, Nihonmatsu City, Motomiya City, Koori Town, Kunimi Town, Otama Village, Kagamiishi Town, Tenei Village, Nishigo Village, Izumizaki Village, Nakajima Village, Yabuki Town, Tanagura Town, Yamatsuri Town, Hanawa Town, Samegawa Village, Ishikawa Town, Tamakawa Village, Hirata Village, Asakawa Town, Furudono Town, Miharu Town, Ono Town

5) Iwaki City, Soma City, Shinchi Town

6) Aizuwakamatsu City, Kitakata City, Shimogo Town, Hinoemata Village, Tadami Town, Minamiaizu Town, Kitashiobara Village, Nishiaizu Town, Bandai Town, Inawashiro Town, Aizubange Town, Yugawa Village, Yanaizu Town, Mishima Town, Kaneyama Town, Showa Village, Aizumisato Town

Appendix 2: Implementation status by prefecture

As of September 30, 2025

| Prefecture | No. of medical facilities | Participants (persons) *Note | Prefecture | No. of medical facilities | Participants (persons) *Note | Prefecture | No. of medical facilities | Participants (persons) *Note |
|------------|---------------------------|---------------------------------|------------|---------------------------|---------------------------------|--------------|---------------------------|---------------------------------|
| Hokkaido | 7 | 83 | Fukui | 1 | 4 | Hiroshima | 2 | 18 |
| Aomori | 3 | 22 | Yamanashi | 2 | 15 | Yamaguchi | 1 | 3 |
| Iwate | 4 | 63 | Nagano | 4 | 32 | Tokushima | 1 | 3 |
| Miyagi | 2 | 544 | Gifu | 2 | 8 | Kagawa | 1 | 3 |
| Akita | 1 | 20 | Shizuoka | 3 | 51 | Ehime | 3 | 3 |
| Yamagata | 3 | 64 | Aichi | 6 | 86 | Kochi | 2 | 3 |
| Ibaraki | 6 | 234 | Mie | 1 | 4 | Fukuoka | 4 | 26 |
| Tochigi | 9 | 247 | Shiga | 1 | 10 | Saga | 1 | 2 |
| Gunma | 2 | 54 | Kyoto | 4 | 37 | Nagasaki | 3 | 2 |
| Saitama | 5 | 311 | Osaka | 10 | 83 | Kumamoto | 1 | 7 |
| Chiba | 5 | 237 | Hyogo | 3 | 34 | Oita | 1 | 3 |
| Tokyo | 23 | 2,121 | Nara | 4 | 3 | Miyazaki | 1 | 4 |
| Kanagawa | 10 | 470 | Wakayama | 1 | 7 | Kagoshima | 2 | 3 |
| Niigata | 3 | 91 | Tottori | 1 | 3 | Okinawa | 1 | 8 |
| Toyama | 2 | 8 | Shimane | 1 | 1 | | | |
| Ishikawa | 2 | 6 | Okayama | 3 | 10 | Total | 158 | 5,051 |

*Note: The number of those who received examinations at medical facilities outside Fukushima prefecture, as of August 31, 2025

Appendix 3: Primary Survey results by area

As of September 30, 2025

| | Number of participants (persons) | Those with finalized results (persons) | Number of participants by final result (persons) | | | | Those with nodules (persons) (%) | | Those with cysts (persons) (%) | |
|--|----------------------------------|--|--|-------|-----|-----|----------------------------------|---------|--------------------------------|----------|
| | | | Details by grade (%) | | | | ≥ 5.1mm | ≤ 5.0mm | ≥ 20.1mm | ≤ 20.0mm |
| | | | A | | B | C | | | | |
| a | b | A1 | A2 | | | | | | | |
| Number of eligible persons for Age 25 Survey (Those born in from FY1992 to FY1999) | | | | | | | | | | |
| 13 municipalities 1) | 1,922 | 1,920 | 821 | 991 | 108 | 0 | 107 | 39 | 1 | 1,037 |
| | | 99.9 | 42.8 | 51.6 | 5.6 | 0.0 | 5.6 | 2.0 | 0.1 | 54.0 |
| Nakadori 2) | 7,569 | 7,567 | 3,201 | 3,961 | 405 | 0 | 403 | 147 | 2 | 4,155 |
| | | 100.0 | 42.3 | 52.3 | 5.4 | 0.0 | 5.3 | 1.9 | 0.0 | 54.9 |
| Hamadori 3) | 3,056 | 3,054 | 1,308 | 1,574 | 172 | 0 | 171 | 58 | 1 | 1,643 |
| | | 99.9 | 42.8 | 51.5 | 5.6 | 0.0 | 5.6 | 1.9 | 0.0 | 53.8 |
| Aizu 4) | 1,340 | 1,339 | 537 | 708 | 94 | 0 | 92 | 33 | 2 | 756 |
| | | 99.9 | 40.1 | 52.9 | 7.0 | 0.0 | 6.9 | 2.5 | 0.1 | 56.5 |
| Total | 13,887 | 13,880 | 5,867 | 7,234 | 779 | 0 | 773 | 277 | 6 | 7,591 |
| | | 99.9 | 42.3 | 52.1 | 5.6 | 0.0 | 5.6 | 2.0 | 0.0 | 54.7 |

- 1) Tamura City, Minamisoma City, Date City, Kawamata Town, Hirono Town, Naraha Town, Tomioka Town, Kawauchi Village, Okuma Town, Futaba Town, Namie Town, Katsurao Village, Iitate Village
- 2) Fukushima City, Koriyama City, Shirakawa City, Sukagawa City, Nihonmatsu City, Motomiya City, Koori Town, Kunimi Town, Otama Village, Kagamiishi Town, Tenei Village, Nishigo Village, Izumizaki Village, Nakajima Village, Yabuki Town, Tanagura Town, Yamatsuri Town, Hanawa Town, Samegawa Village, Ishikawa Town, Tamakawa Village, Hirata Village, Asakawa Town, Furudono Town, Miharu Town, Ono Town
- 3) Iwaki City, Soma City, Shinchi Town
- 4) Aizuwakamatsu City, Kitakata City, Shimogo Town, Hinoemata Village, Tadami Town, Minamiaizu Town, Kitashiobara Village, Nishiaizu Town, Bandai Town, Inawashiro Town, Aizubange Town, Yugawa Village, Yanaizu Town, Mishima Town, Kaneyama Town, Showa Village, Aizumisato Town

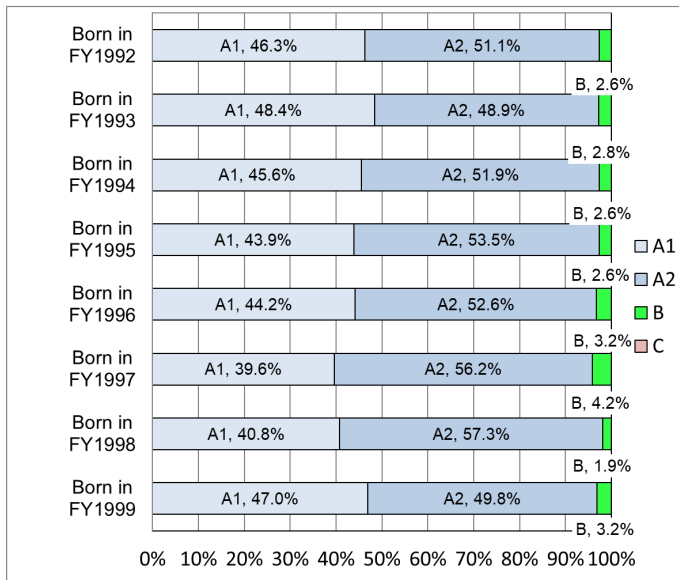
Appendix 4-1: Summary for participants with finalized results, by gender

As of September 30, 2025

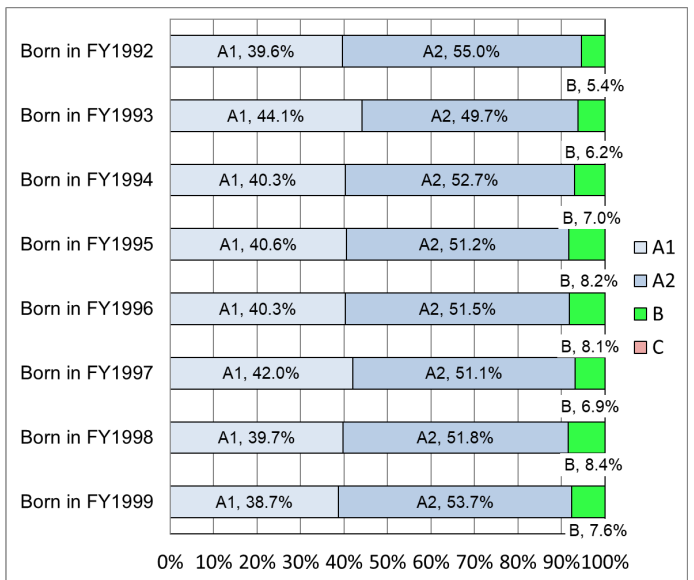
(persons)

| Grade / Gender | A | | | | | | B | | | C | | | Total | | | |
|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|------------|------------|----------|----------|----------|--------------|--------------|---------------|--|
| | A1 | | | A2 | | | Male | Female | Total | Male | Female | Total | Male | Female | Total | |
| | Male | Female | Total | Male | Female | Total | | | | | | | | | | |
| Participants | | | | | | | | | | | | | | | | |
| Those born in FY1992 | 360 | 620 | 980 | 397 | 861 | 1,258 | 20 | 85 | 105 | 0 | 0 | 0 | 777 | 1,566 | 2,343 | |
| Those born in FY1993 | 383 | 686 | 1,069 | 387 | 773 | 1,160 | 22 | 97 | 119 | 0 | 0 | 0 | 792 | 1,556 | 2,348 | |
| Those born in FY1994 | 318 | 514 | 832 | 362 | 673 | 1,035 | 18 | 89 | 107 | 0 | 0 | 0 | 698 | 1,276 | 1,974 | |
| Those born in FY1995 | 333 | 542 | 875 | 406 | 684 | 1,090 | 20 | 110 | 130 | 0 | 0 | 0 | 759 | 1,336 | 2,095 | |
| Those born in FY1996 | 274 | 508 | 782 | 326 | 649 | 975 | 20 | 102 | 122 | 0 | 0 | 0 | 620 | 1,259 | 1,879 | |
| Those born in FY1997 | 189 | 397 | 586 | 268 | 483 | 751 | 20 | 65 | 85 | 0 | 0 | 0 | 477 | 945 | 1,422 | |
| Those born in FY1998 | 131 | 240 | 371 | 184 | 313 | 497 | 6 | 51 | 57 | 0 | 0 | 0 | 321 | 604 | 925 | |
| Those born in FY1999 | 147 | 225 | 372 | 156 | 312 | 468 | 10 | 44 | 54 | 0 | 0 | 0 | 313 | 581 | 894 | |
| Total | 2,135 | 3,732 | 5,867 | 2,486 | 4,748 | 7,234 | 136 | 643 | 779 | 0 | 0 | 0 | 4,757 | 9,123 | 13,880 | |

Examination results by age group (Male)



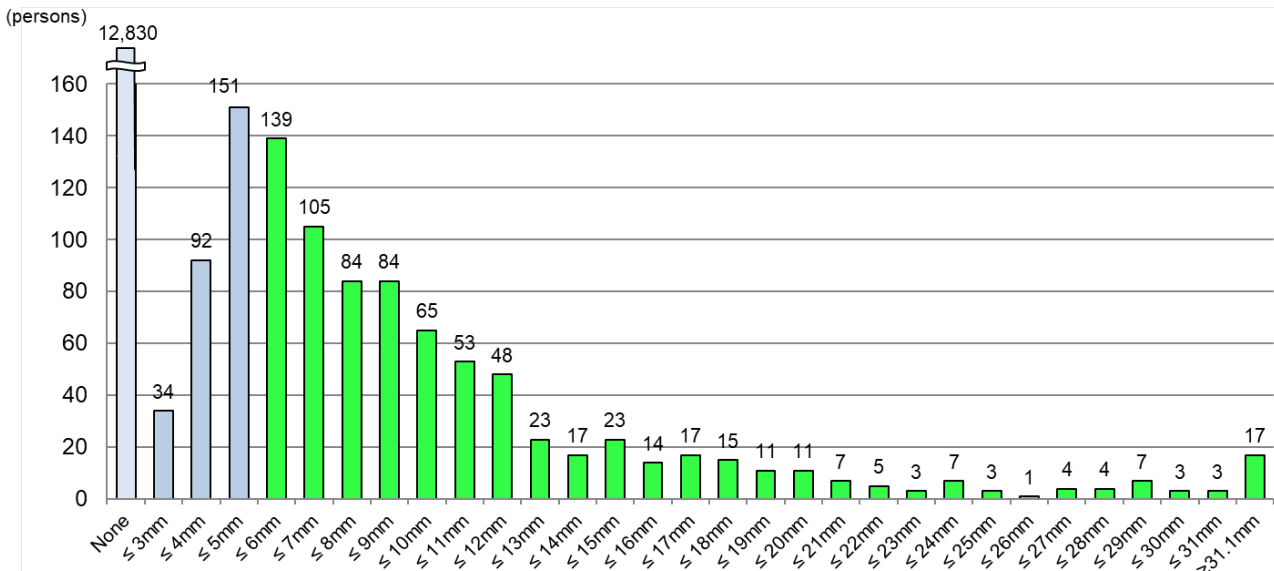
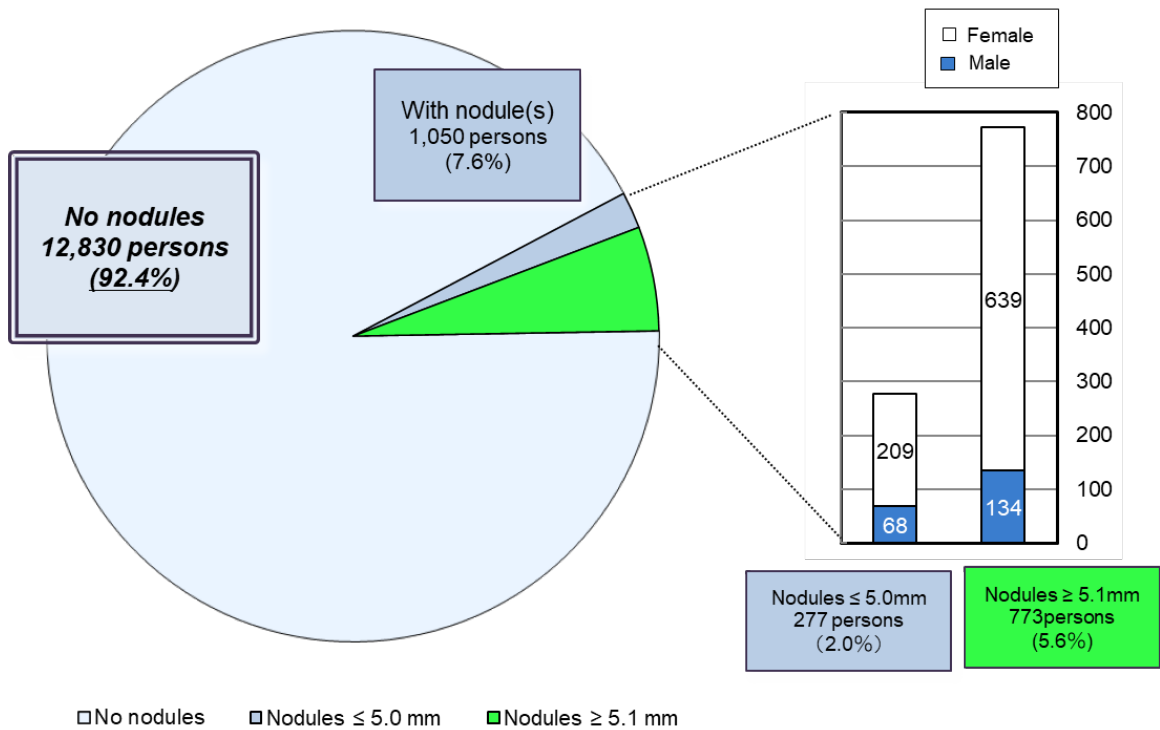
Examination results by age group (Female)



Appendix 4-2: Nodule characteristics

As of September 30, 2025

| Nodule size | Total | (persons) | | Grade | |
|--------------|---------------|--------------|--------------|-------|-------|
| | | Male | Female | | |
| None | 12,830 | 4,555 | 8,275 | A1 | 92.4% |
| ≤ 3.0mm | 34 | 8 | 26 | A2 | 2.0% |
| 3.1–5.0mm | 243 | 60 | 183 | | |
| 5.1–10.0mm | 477 | 89 | 388 | B | 5.6% |
| 10.1–15.0mm | 164 | 30 | 134 | | |
| 15.1–20.0mm | 68 | 9 | 59 | | |
| 20.1–25.0mm | 25 | 3 | 22 | | |
| ≥ 25.1mm | 39 | 3 | 36 | | |
| Total | 13,880 | 4,757 | 9,123 | | |

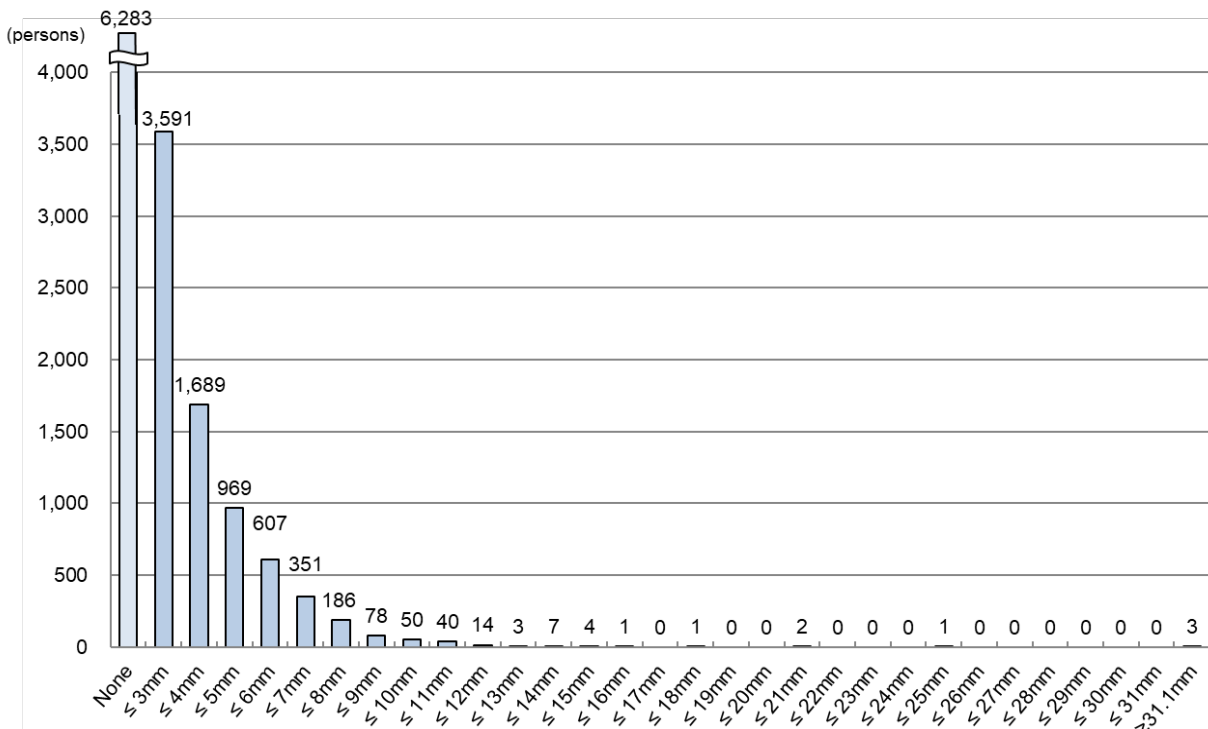
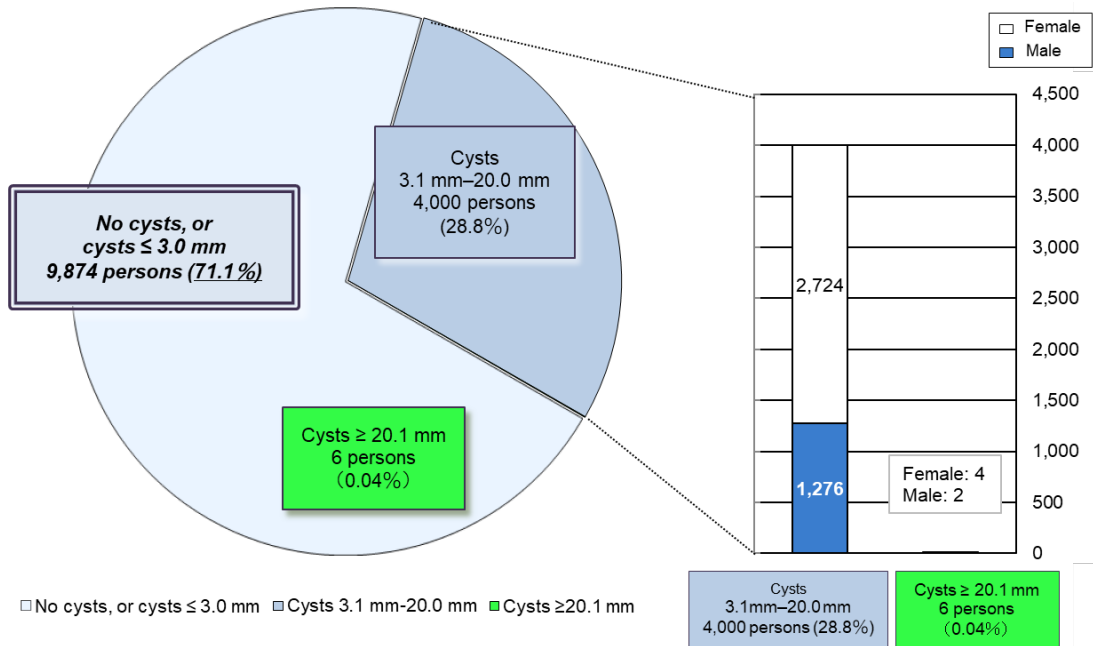


Appendix 4-3: Cyst characteristics

As of September 30, 2025

(persons)

| Cyst size | Total | Gender | | Grade | |
|--------------|---------------|--------------|--------------|-------|------------|
| | | Male | Female | Grade | Percentage |
| None | 6,283 | 2,219 | 4,064 | A1 | 71.1% |
| ≤ 3.0mm | 3,591 | 1,260 | 2,331 | A2 | |
| 3.1–5.0mm | 2,658 | 908 | 1,750 | | |
| 5.1–10.0mm | 1,272 | 353 | 919 | | |
| 10.1–15.0mm | 68 | 14 | 54 | | |
| 15.1–20.0mm | 2 | 1 | 1 | B | 0.04% |
| 20.1–25.0mm | 3 | 0 | 3 | | |
| ≥ 25.1mm | 3 | 2 | 1 | | |
| Total | 13,880 | 4,757 | 9,123 | | |



Appendix 5: Surgical cases for malignancy or suspicion of malignancy

| | | | |
|--|-------------------------------|----|---|
| Among those who underwent the Age 25 Survey: | | | |
| • Malignant or suspicious for malignancy | | 27 | |
| | Surgical cases | 20 |] |
| | Papillary thyroid carcinomas | 19 | |
| | Follicular thyroid carcinomas | 1 | |

Report on the TUE Full-Scale Survey (Survey for Age 30)

As of September 30, 2025

1. Summary

1.1 Eligible Persons

Among Fukushima residents 18 years old or younger at the time of the disaster (those born between April 2, 1992, and April 1, 2012), those who turn 30 years old during each fiscal year are invited to receive a thyroid ultrasound examination (TUE).

This report summarizes the results for those born from FY1992 to FY1994 (born between April 2, 1992, and April 1, 1995).

1.2 Implementation Period

The Survey for Age 30 (hereinafter “Age 30 Survey”) started in FY2022 for those who turn 30 years old during each fiscal year. Suppose residents cannot receive the examination in the year when they turn 30. In that case, they are entitled to one any time through the fiscal year before the year they turn 35 (see Figure 1 for the implementation schedule of the Age 30 Survey).

| Year of exam Birth year of examinees | FY2022 Age | FY2023 Age | FY2024 Age | FY2025 Age | FY2026 Age | FY2027 Age | FY2028 Age |
|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| FY1992 | 30★ | 31 | 32 | 33 | 34 | 35★ | 36 |
| FY1993 | 29 | 30★ | 31 | 32 | 33 | 34 | 35★ |
| FY1994 | 28 | 29 | 30★ | 31 | 32 | 33 | 34 |

- The examinations are offered to those who turn 30 years old in each fiscal year.
- Invitations for the examination will be sent to those who turn age 30 in the fiscal year marked with ★.

Figure 1: Implementation Schedule for the Age 30 Survey

2. Overview of the Age 30 Survey as of September 30, 2025

2.1 Results of the Primary Examination

2.1-1 Implementation status

Primary examinations for the Age 30 Survey started in April 2022 for those who turned 30 years old (those born in FY1992 and FY1994), of whom 4,343 (6.5%) participated. (See Appendix 1 and Appendix 2 for implementation status by areas inside and outside Fukushima Prefecture, respectively.)

The results for 4,339 (99.9%) participants have been finalized, and individual reports have been sent to them. (See Appendix 3 for The Survey results by area.)

Of these, 1,900 (43.8%) had Grade A1 results, 2,056 (47.4%) had Grade A2, 383 (8.8%) had Grade B, and none had Grade C.

Table 1: Progress and results of the primary examination

| | Eligible persons a | Participants (persons) | | Participants with finalized results (persons) | | | | | | |
|----------------|-----------------------|--------------------------------------|--|---|----------------------|------------------|-----------------|-----------------|-------------------------------------|--|
| | | Participation rate (%) b (b/a) | Those who participated outside Fukushima c (c/b) | Judgment rate (%) c (c/b) | Details by grade (%) | | | | Those referred to confirmatory exam | |
| | | | | | A | | B f (f/c) | C g (g/c) | | |
| | | | | | A1 d (d/c) | A2 e (e/c) | | | | |
| Born in FY1992 | 22,625 | 1,660 (7.3) | 619 | 1,660 (100.0) | 741 (44.6) | 769 (46.3) | 150 (9.0) | 0 (0.0) | | |
| Born in FY1993 | 21,864 | 1,480 (6.8) | 609 | 1,479 (99.9) | 613 (41.4) | 729 (49.3) | 137 (9.3) | 0 (0.0) | | |
| Born in FY1994 | 22,053 | 1,203 (5.5) | 498 | 1,200 (99.8) | 546 (45.5) | 558 (46.5) | 96 (8.0) | 0 (0.0) | | |
| Total | 66,542 | 4,343 (6.5) | 1,726 | 4,339 (99.9) | 1,900 (43.8) | 2,056 (47.4) | 383 (8.8) | 0 (0.0) | | |

Table 2: Number and percentage of participants with nodules/cysts (See Appendix 4 for details.)

| | Participants with finalized results (persons) a | Participants with nodules / cysts (%) | | | |
|----------------|--|---------------------------------------|-----------------------|------------------------|------------------------|
| | | Nodules | | Cysts | |
| | | ≥ 5.1mm b (b/a) | ≤ 5.0mm c (c/a) | ≥ 20.1mm d (d/a) | ≤ 20.0mm e (e/a) |
| Born in FY1992 | 1,660 | 149 (9.0) | 65 (3.9) | 1 (0.1) | 839 (50.5) |
| Born in FY1993 | 1,479 | 137 (9.3) | 57 (3.9) | 0 (0.0) | 770 (52.1) |
| Born in FY1994 | 1,200 | 95 (7.9) | 41 (3.4) | 1 (0.1) | 610 (50.8) |
| Total | 4,339 | 381 (8.8) | 163 (3.8) | 2 (0.0) | 2,219 (51.1) |

- Percentages are rounded to a lower decimal place. This applies to other tables as well.
- The number and results of the Age 30 Survey participants are, and will be, presented by birth year (fiscal year), not by survey year.

2.1-2 Comparison with previous examination results

Table 3 compares the results of the Age 30 Survey and the Age 25 Survey.

Among 2,367 participants (sum of *1) with Grade A1 or A2 results in the Age 25 Survey, 2,266 (sum of *2, 95.7%) had Grade A1 or A2 results, and 101 (sum of *3, 4.3%) had Grade B results in the Age 30 Survey.

Among 139 participants with Grade B results in the Age 25 survey, 26 (sum of *4, 18.7%) had Grade A (A1 or A2) results, and 113 (81.3%) had Grade B results in the Age 30 Survey.

Table 3: Comparison with the Age 25 Survey results

| | | | Results of the Age 25 survey* | Results of the Age 30 survey** | | | |
|------------------------------------|---------------------|----|----------------------------------|--------------------------------|--------------------|----------------|------------|
| | | | | A | | B | C |
| | | | A1 | A2 | d | | |
| | | | a (%) | b (b/a) | c (c/a) | d (d/a) | e (e/a) |
| Results of the Age 25 survey | A | A1 | 1,007 *1 (100.0) | 808 *2 (80.2) | 178 *2 (17.7) | 21 *3 (2.1) | 0 (0.0) |
| | | A2 | 1,360 *1 (100.0) | 252 *2 (18.5) | 1,028 *2 (75.6) | 80 *3 (5.9) | 0 (0.0) |
| | B | | 139 (100.0) | 6 *4 (4.3) | 20 *4 (14.4) | 113 (81.3) | 0 (0.0) |
| | C | | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| | Did not participate | | 1,833 (100.0) | 834 (45.5) | 830 (45.3) | 169 (9.2) | 0 (0.0) |
| Total | | | 4,339 (100.0) | 1,900 (43.8) | 2,056 (47.4) | 383 (8.8) | 0 (0.0) |

* Results of the Age 25 Survey participants with finalized results.

** Results of the Age 30 Survey participants diagnosed for each grade in the Age 25 Survey. The lower figures are their proportion (%).

2.2 Results of the Confirmatory Examination

2.2-1 Implementation status

Of 383 eligible persons, 313 (81.7%) participated, and 293 (93.6%) completed the entire confirmatory examination process.

Of the aforementioned 293 participants, 21 (7.2%) were confirmed to meet Grade A diagnostic criteria by primary examination standards (A1:5, A2:16) (including those with other thyroid conditions). The remaining 272 (92.8%) were confirmed to be out of the A1/A2 criteria.

Table 4: Progress of the Confirmatory Examination

| | Those referred to confirmatory exams (persons) a | Participants (persons) Participation Rate (%) b (b/a) | | Those with finalized results (%) | | | | | | | | | |
|----------------------|---|---|--------|----------------------------------|--------|---------------|-------|---------------|-------|---------------------|--------|----|--------|
| | | | | Judgment rate (%) c (c/b) | | A1 d (d/c) | | A2 e (e/c) | | Other than A1 or A2 | | | |
| | | | | | | | | | | FANC g (g/f) | | | |
| Those born in FY1992 | 150 | 129 | (86.0) | 125 | (96.9) | 1 | (0.8) | 7 | (5.6) | 117 | (93.6) | 17 | (14.5) |
| Those born in FY1993 | 137 | 111 | (81.0) | 105 | (94.6) | 3 | (2.9) | 8 | (7.6) | 94 | (89.5) | 8 | (8.5) |
| Those born in FY1994 | 96 | 73 | (76.0) | 63 | (86.3) | 1 | (1.6) | 1 | (1.6) | 61 | (96.8) | 5 | (8.2) |
| Total | 383 | 313 | (81.7) | 293 | (93.6) | 5 | (1.7) | 16 | (5.5) | 272 | (92.8) | 30 | (11.0) |

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

Among those who underwent FNAC, 10 participants (male: 2, female: 8) were classified as malignant or suspicious for malignancy. Participants' age at the confirmatory examination ranged from 29 to 31 years (mean age: 30.0 ± 0.5 years), and the minimum and maximum tumor diameters were 9.8 mm and 19.0 mm (mean tumor diameter: 12.7 ± 3.7 mm).

Of these 10 participants, 5 had a Grade A result (A1:1, A2:4), 1 had a Grade B result in the Age 25 Survey, and 4 did not participate in the Age 25 Survey. Among the 4 participants with A2, 1 met the nodule criteria, and 3 met the cyst criteria.

Table 5. Results of FNAC

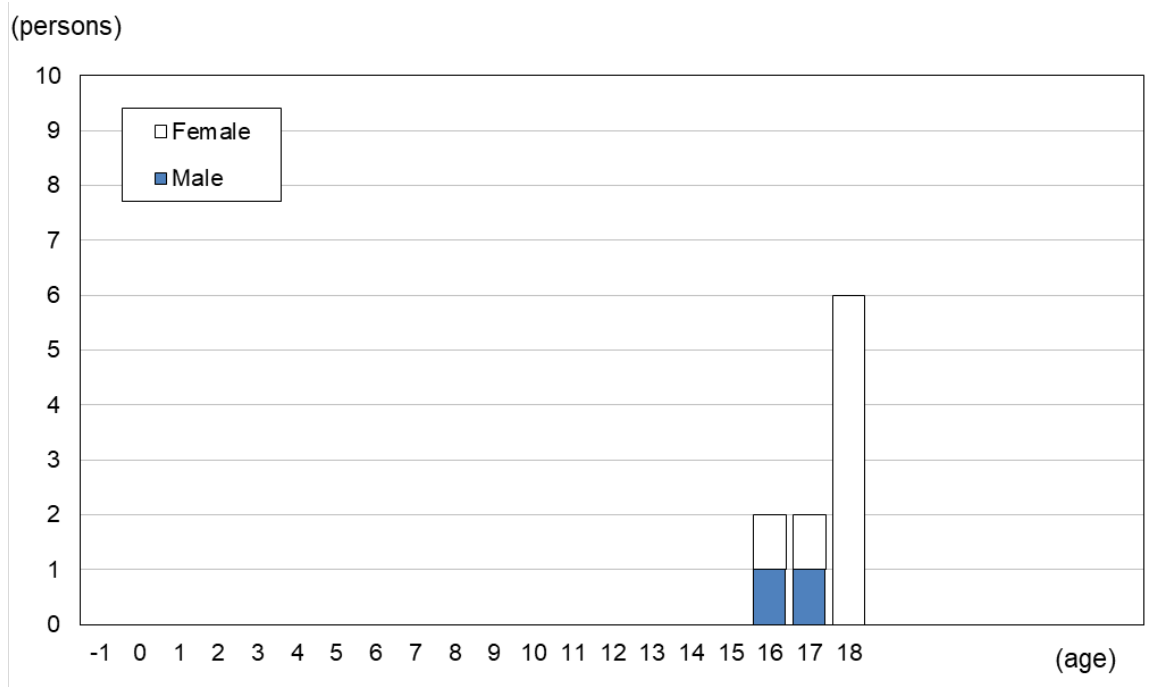
(The numbers in the parentheses indicate the ranges of mean age and mean tumor size.)

| | |
|--|---|
| Among those who underwent the Age 30 Survey: | |
| • Malignant or suspicious for malignancy: | 10* |
| • Male to female ratio: | 2:8 |
| • Mean age ± SD (min-max): | 30.0 ± 0.5 (29–31), 17.4 ± 0.8 (16–18) at the time of the earthquake |
| • Mean tumor size ± SD (min-max): | 12.7 ± 3.7 mm (9.8–19.0 mm) |

*Appendix 5 shows surgery cases.

2.2-3 Age distribution of malignant or suspected malignant cases diagnosed by FNAC

The age distribution of the 10 participants with malignant or suspicious nodules, as of March 11, 2011, is shown in Figure 2, and the age distribution based on their age at the time of confirmatory examination is shown in Figure 3.



*Ages -1 to 14 are not included in the Age 30 Survey for those born between FY1992 and FY1994.
 Age -1 covers those born between April 2, 2011, and April 1, 2012.
 Those who were born between March 12, 2011, and April 1, 2011, are included as age 0.

Figure 2: Age as of March 11, 2011



Figure 3: Age at the time of confirmatory examination

2.2-4 Basic Survey results of participants with malignant or suspicious nodules by FNAC

Of the 10 participants with malignant or suspicious nodules, 7 (70.0%) had participated in the Basic Survey (for external radiation dose estimation), and all 7 received their results. The highest effective dose documented was 1.3 mSv.

Table 6: A breakdown of dose estimates for Basic Survey participants

| Effective dose (mSv) | Age at the time of the disaster | | | | | | | | | |
|----------------------|---------------------------------|--------|------|--------|-------|--------|-------|--------|-------|--------|
| | 0-5 | | 6-10 | | 11-15 | | 16-18 | | Total | |
| | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female |
| < 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 |
| < 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| < 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| < 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| < 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ≥ 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 1 | 6 |

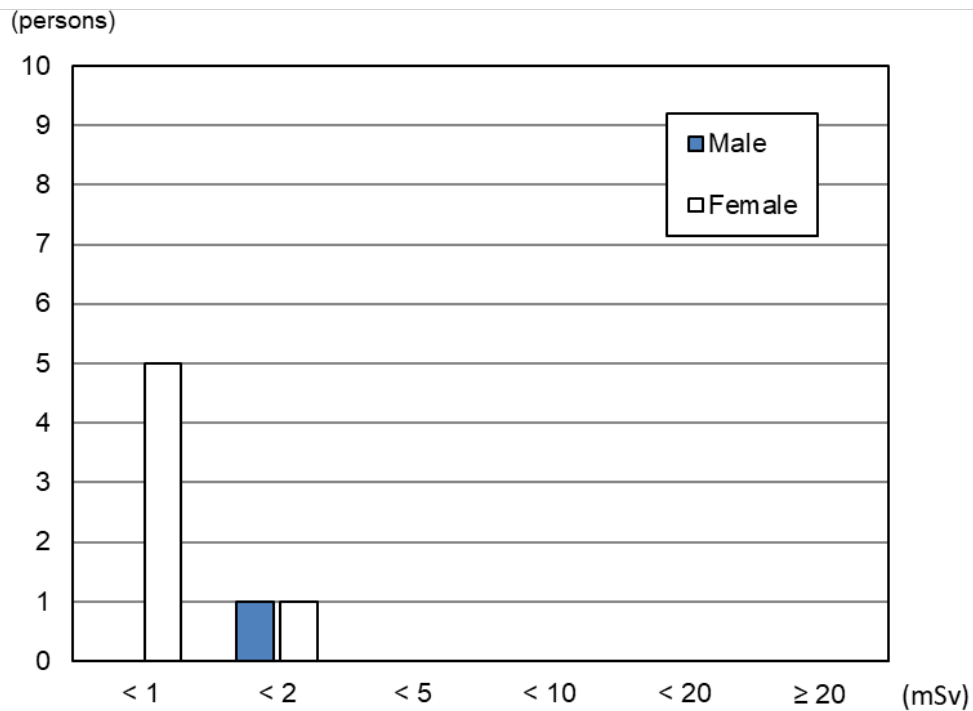


Figure 4: Effective doses of the Basic Survey participants

2.2-5 Blood and urinary iodine test results

Table 7: Blood 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 |
| Malignant or suspicious : 10 | 1.3±0.3 (10.0%) | 3.4±0.4 (10.0%) | 1.3±1.0 (10.0%) | 38.6±55.8 (20.0%) | 10.0% | 20.0% |
| Other : 269 | 1.2±0.2 (7.1%) | 3.3±0.4 (6.3%) | 1.3±1.0 (12.3%) | 25.9±44.3 (17.1%) | 17.1% | 17.1% |

Table 8: Urinary iodine test results ⁸⁾

| | Minimum | 25th percentile | Median | 75th percentile | Maximum |
|-----------------------------|---------|-----------------|--------|-----------------|---------|
| Malignant or suspicious : 7 | 86 | 94 | 195 | 201 | 565 |
| Other : 178 | 46 | 134 | 215 | 401 | 7,252 |

(μg/day)

- 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 or 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.
- 8) Due to the temporary inavailability of reagents, the urinary iodine tests had been suspended from March 8, 2024, to January 19, 2025, but resumed on January 20, 2025.

3 Mental Health Care

3.1 Support for Primary Examination Participants

At examination venues, we set up consultation booths where our medical doctors offer consultation and explain examination results using ultrasonographic images. As of September 30, 2025, all 544 examinees (100%) have visited the booths.

3.2 Support for Confirmatory Examination Participants

A support team has been set up within Fukushima Medical University to offer psychological support to address the anxieties and concerns of confirmatory examination participants during the examination. The team also answers questions and offers counseling via our website.

Since the start of the Age 30 Survey, 77 participants (19 males and 58 females) have received support as of September 30, 2025. The number of support sessions provided was 140 in total. Of these, 77 sessions (55.0%) were offered at the participants' first examination, and 63 (45.0%) at subsequent examinations.

For those who proceed to regular health insurance medical care, the support team continues to provide support in cooperation with teams of medical staff at hospitals.

Appendix 1: Implementation status of the Age 30 Survey, by area

As of September 30, 2025

| | Eligible persons a | Participants (persons) | | Participation rate (%) b/a | Participants living outside the prefecture (persons) c ²⁾ | Proportion of participants living outside the prefecture (%) c/b |
|---|-----------------------|------------------------|--|-------------------------------|---|---|
| | | b | Those who participated outside Fukushima ¹⁾ | | | |
| Number of eligible persons for Age 30 Survey (Those born from FY1992 to FY1994) | | | | | | |
| 13 municipalities ³⁾ | 8,997 | 612 | 220 | 6.8 | 223 | 36.4 |
| Nakadori ⁴⁾ | 35,213 | 2,422 | 956 | 6.9 | 912 | 37.7 |
| Hamadori ⁵⁾ | 12,758 | 882 | 378 | 6.9 | 375 | 42.5 |
| Aizu ⁶⁾ | 9,574 | 427 | 172 | 4.5 | 170 | 39.8 |
| Total | 66,542 | 4,343 | 1,726 | 6.5 | 1,680 | 38.7 |

1) The number of those who received examinations at medical facilities outside the prefecture (as of August 31, 2025)

2) The number of those whose place of residence is outside the prefecture

3) Tamura City, Minamisoma City, Date City, Kawamata Town, Hirono Town, Naraha Town, Tomioka Town, Kawauchi Village, Okuma Town, Futaba Town, Namie Town, Katsurao Village, Iitate Village

4) Fukushima City, Koriyama City, Shirakawa City, Sukagawa City, Nihonmatsu City, Motomiya City, Koori Town, Kunimi Town, Otama Village, Kagamiishi Town, Tenei Village, Nishigo Village, Izumizaki Village, Nakajima Village, Yabuki Town, Tanagura Town, Yamatsuri Town, Hanawa Town, Samegawa Village, Ishikawa Town, Tamakawa Village, Hirata Village, Asakawa Town, Furudono Town, Miharu Town, Ono Town

5) Iwaki City, Soma City, Shinchi Town

6) Aizuwakamatsu City, Kitakata City, Shimogo Town, Hinoemata Village, Tadami Town, Minamiaizu Town, Kitashiobara Village, Nishiaizu Town, Bandai Town, Inawashiro Town, Aizubange Town, Yugawa Village, Yanaizu Town, Mishima Town, Kaneyama Town, Showa Village, Aizumisato Town

Appendix 2: Implementation status of the Survey, by prefecture

As of September 30, 2025

| Prefecture | No. of medical facilities | Participants (persons) *Note | Prefecture | No. of medical facilities | Participants (persons) *Note | Prefecture | No. of medical facilities | Participants (persons) *Note |
|------------|---------------------------|---------------------------------|------------|---------------------------|---------------------------------|--------------|---------------------------|---------------------------------|
| Hokkaido | 7 | 26 | Fukui | 1 | 1 | Hiroshima | 2 | 7 |
| Aomori | 3 | 14 | Yamanashi | 2 | 6 | Yamaguchi | 1 | 1 |
| Iwate | 4 | 15 | Nagano | 4 | 15 | Tokushima | 1 | 1 |
| Miyagi | 2 | 179 | Gifu | 2 | 2 | Kagawa | 1 | 1 |
| Akita | 1 | 8 | Shizuoka | 3 | 11 | Ehime | 3 | 1 |
| Yamagata | 3 | 22 | Aichi | 6 | 34 | Kochi | 2 | 2 |
| Ibaraki | 6 | 86 | Mie | 1 | 1 | Fukuoka | 4 | 5 |
| Tochigi | 9 | 77 | Shiga | 1 | 2 | Saga | 1 | 3 |
| Gunma | 2 | 28 | Kyoto | 4 | 8 | Nagasaki | 3 | 2 |
| Saitama | 5 | 127 | Osaka | 10 | 42 | Kumamoto | 1 | 3 |
| Chiba | 5 | 57 | Hyogo | 3 | 9 | Oita | 1 | 1 |
| Tokyo | 23 | 746 | Nara | 4 | 3 | Miyazaki | 1 | 2 |
| Kanagawa | 10 | 140 | Wakayama | 1 | 1 | Kagoshima | 2 | 1 |
| Niigata | 3 | 21 | Tottori | 1 | 2 | Okinawa | 1 | 2 |
| Toyama | 2 | 3 | Shimane | 1 | 0 | | | |
| Ishikawa | 2 | 2 | Okayama | 3 | 6 | Total | 158 | 1,726 |

*Note: The number of those who received examinations at medical facilities outside Fukushima prefecture
(As of August 31, 2025)

Appendix 3: Primary Survey results, by area

As of September 30, 2025

| | Number of participants (persons) | Those with finalized results (persons) | Number of participants by final result (persons) | | | | Those with nodules (persons) (%) | | Those with cysts (persons) (%) | |
|---|----------------------------------|--|--|-------|-----|-----|----------------------------------|---------|--------------------------------|----------|
| | | | Details by grade (%) | | | | ≥ 5.1mm | ≤ 5.0mm | ≥ 20.1mm | ≤ 20.0mm |
| | | | A | | B | C | | | | |
| a | b b/a (%) | A1 | A2 | B | | | C | | | |
| Number of eligible persons (Those born from FY1992 to FY1994) | | | | | | | | | | |
| 13 municipalities 1) | 612 | 611 | 295 | 260 | 56 | 0 | 56 | 23 | 0 | 291 |
| | | 99.8 | 48.3 | 42.6 | 9.2 | 0.0 | 9.2 | 3.8 | 0.0 | 47.6 |
| Nakadori 2) | 2,422 | 2,419 | 1,012 | 1,186 | 221 | 0 | 219 | 103 | 2 | 1,277 |
| | | 99.9 | 41.8 | 49.0 | 9.1 | 0.0 | 9.1 | 4.3 | 0.1 | 52.8 |
| Hamadori 3) | 882 | 882 | 411 | 402 | 69 | 0 | 69 | 26 | 0 | 425 |
| | | 100.0 | 46.6 | 45.6 | 7.8 | 0.0 | 7.8 | 2.9 | 0.0 | 48.2 |
| Aizu 4) | 427 | 427 | 182 | 208 | 37 | 0 | 37 | 11 | 0 | 226 |
| | | 100.0 | 42.6 | 48.7 | 8.7 | 0.0 | 8.7 | 2.6 | 0.0 | 52.9 |
| Total | 4,343 | 4,339 | 1,900 | 2,056 | 383 | 0 | 381 | 163 | 2 | 2,219 |
| | | 99.9 | 43.8 | 47.4 | 8.8 | 0.0 | 8.8 | 3.8 | 0.0 | 51.1 |

1) Tamura City, Minamisoma City, Date City, Kawamata Town, Hirono Town, Naraha Town, Tomioka Town, Kawauchi Village, Okuma Town, Futaba Town, Namie Town, Katsurao Village, Iitate Village

2) Fukushima City, Koriyama City, Shirakawa City, Sukagawa City, Nihonmatsu City, Motomiya City, Koori Town, Kunimi Town, Otama Village, Kagamiishi Town, Tenei Village, Nishigo Village, Izumizaki Village, Nakajima Village, Yabuki Town, Tanagura Town, Yamatsuri Town, Hanawa Town, Samegawa Village, Ishikawa Town, Tamakawa Village, Hirata Village, Asakawa Town, Furudono Town, Miharu Town, Ono Town

3) Iwaki City, Soma City, Shinchi Town

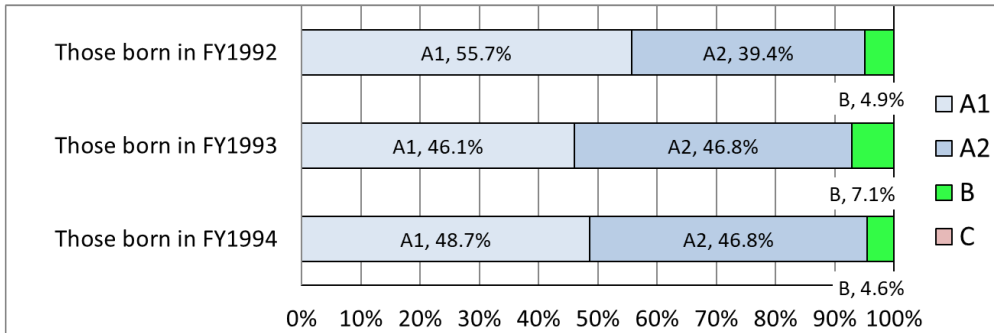
4) Aizuwakamatsu City, Kitakata City, Shimogo Town, Hinoemata Village, Tadami Town, Minamiaizu Town, Kitashiobara Village, Nishiaizu Town, Bandai Town, Inawashiro Town, Aizubange Town, Yugawa Village, Yanaizu Town, Mishima Town, Kaneyama Town, Showa Village, Aizumisato Town

Appendix 4.1: Summary for participants with finalized results, by gender

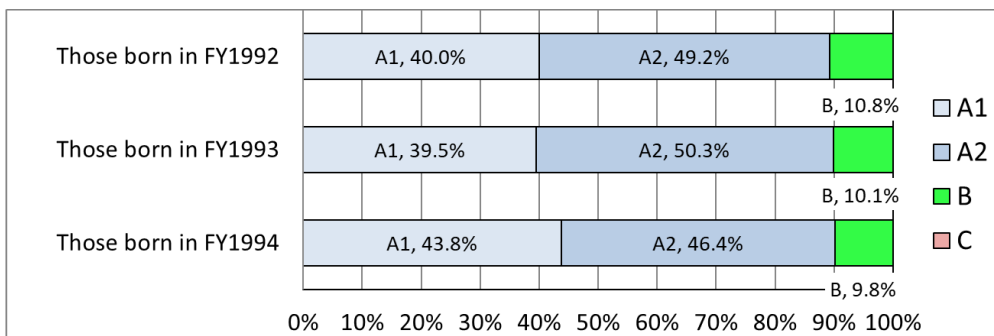
As of September 30, 2025

| | | (persons) | | | | | | | | | | | | | | |
|----------------|----------------------|------------|--------------|--------------|------------|--------------|--------------|-----------|------------|------------|----------|----------|----------|--------------|--------------|--------------|
| Grade / Gender | Participants | A | | | | | | B | | | C | | | Total | | |
| | | A1 | | | A2 | | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| | | Male | Female | Total | Male | Female | Total | | | | | | | | | |
| | Those born in FY1992 | 274 | 467 | 741 | 194 | 575 | 769 | 24 | 126 | 150 | 0 | 0 | 0 | 492 | 1,168 | 1,660 |
| | Those born in FY1993 | 200 | 413 | 613 | 203 | 526 | 729 | 31 | 106 | 137 | 0 | 0 | 0 | 434 | 1,045 | 1,479 |
| | Those born in FY1994 | 203 | 343 | 546 | 195 | 363 | 558 | 19 | 77 | 96 | 0 | 0 | 0 | 417 | 783 | 1,200 |
| | Total | 677 | 1,223 | 1,900 | 592 | 1,464 | 2,056 | 74 | 309 | 383 | 0 | 0 | 0 | 1,343 | 2,996 | 4,339 |

Examination results by age group (Male)



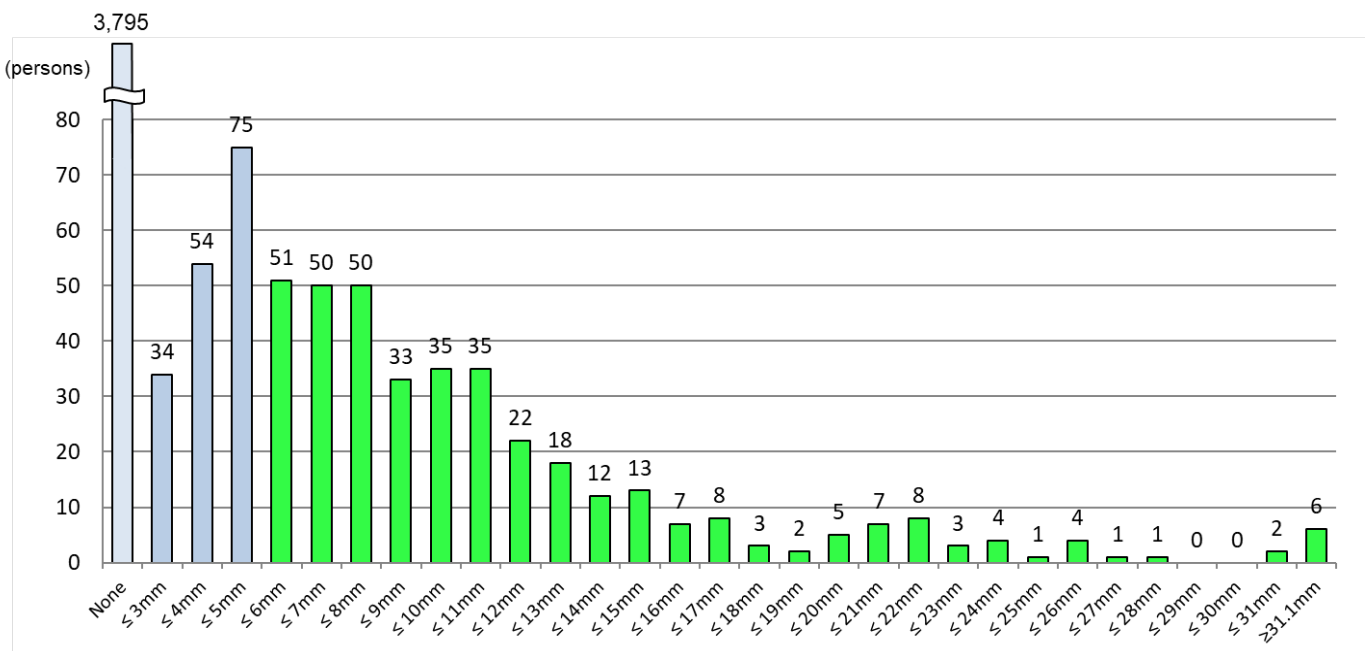
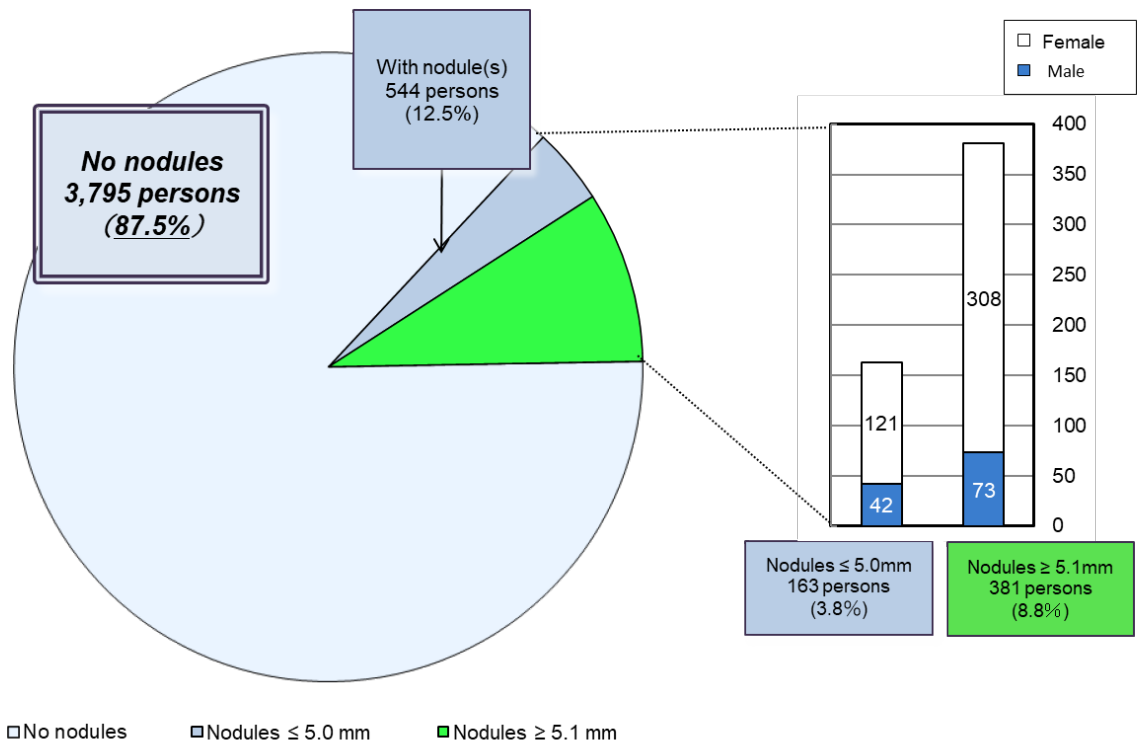
Examination results by age group (Female)



Appendix 4.2: Nodule characteristics

As of September 30 2025
(persons)

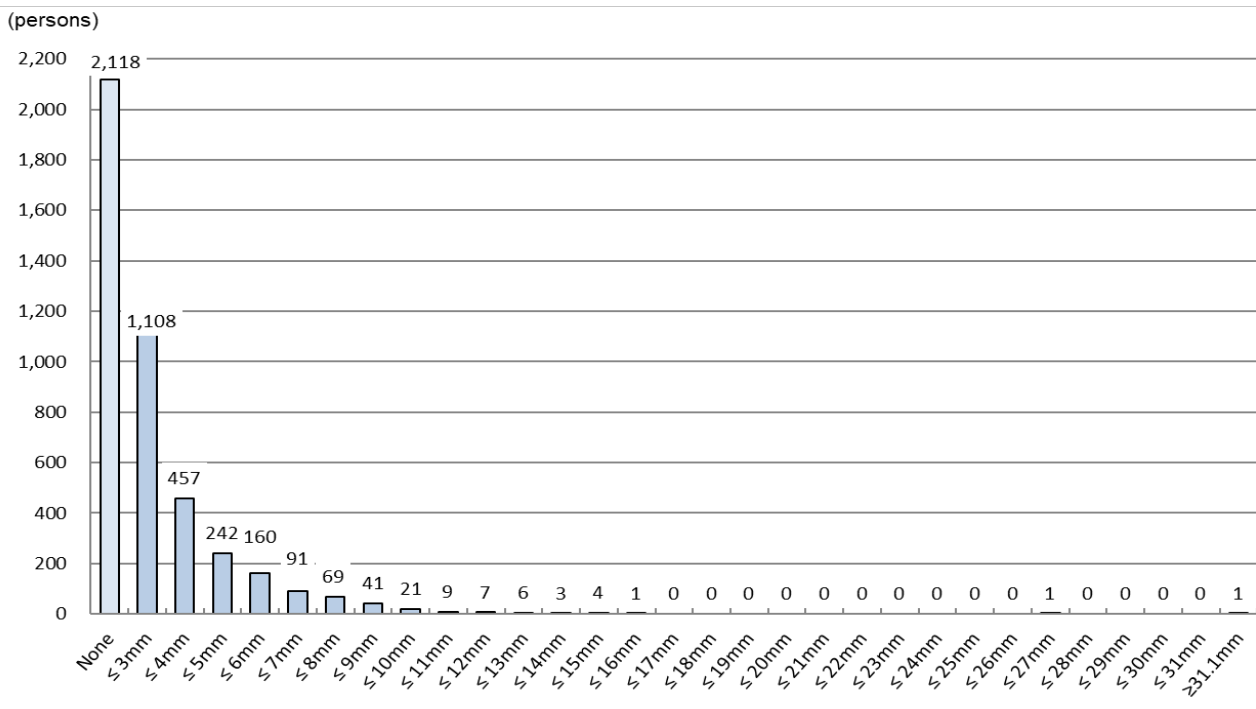
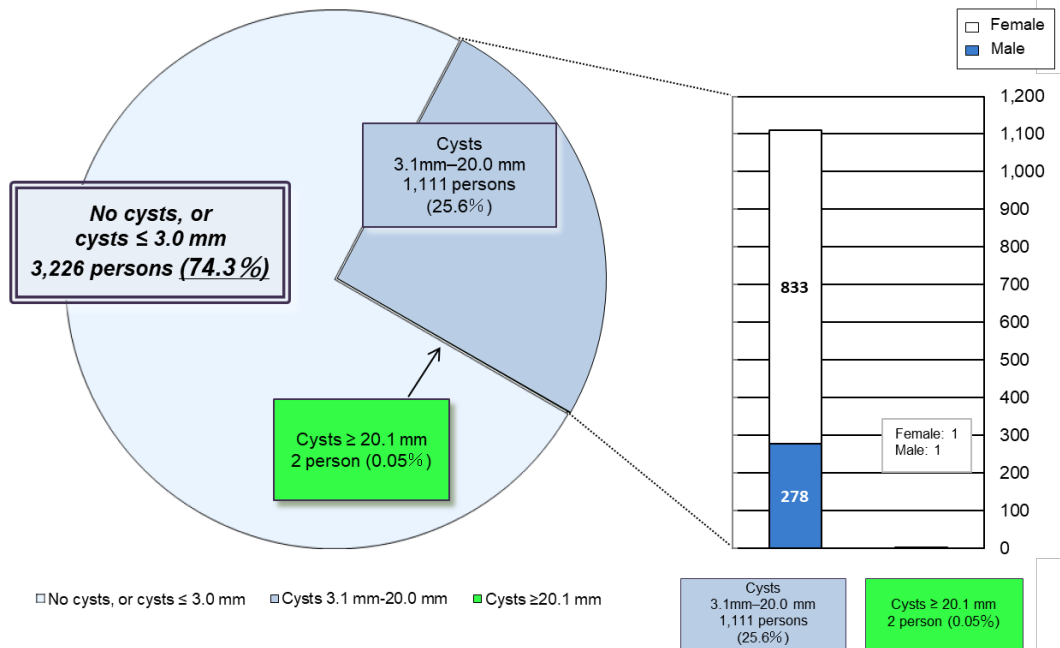
| Nodule size | Total | Gender | | Grade | |
|--------------|--------------|--------------|--------------|-------|-------|
| | | Male | Female | | |
| None | 3,795 | 1,228 | 2,567 | A1 | 87.5% |
| ≤ 3.0mm | 34 | 9 | 25 | A2 | 3.8% |
| 3.1–5.0mm | 129 | 33 | 96 | | |
| 5.1–10.0mm | 219 | 48 | 171 | B | 8.8% |
| 10.1–15.0mm | 100 | 15 | 85 | | |
| 15.1–20.0mm | 25 | 5 | 20 | | |
| 20.1–25.0mm | 23 | 2 | 21 | | |
| ≥ 25.1mm | 14 | 3 | 11 | | |
| Total | 4,339 | 1,343 | 2,996 | | |



Appendix 4.3: Cyst characteristics

As of September 30, 2025

| Cyst size | Total | Gender | | Grade | |
|--------------|--------------|--------------|--------------|-------|------------|
| | | Male | Female | Grade | Percentage |
| None | 2,118 | 732 | 1,386 | A1 | 74.3% |
| ≤ 3.0mm | 1,108 | 332 | 776 | A2 | |
| 3.1–5.0mm | 699 | 190 | 509 | | |
| 5.1–10.0mm | 382 | 86 | 296 | | |
| 10.1–15.0mm | 29 | 2 | 27 | | |
| 15.1–20.0mm | 1 | 0 | 1 | B | 0.05% |
| 20.1–25.0mm | 0 | 0 | 0 | | |
| ≥ 25.1mm | 2 | 1 | 1 | | |
| Total | 4,339 | 1,343 | 2,996 | | |



Appendix 5: Surgical cases for malignancy or suspicion of malignancy

| | | |
|--|--------------------------------|-----|
| Among those who underwent the Age 30 Survey: | | |
| • Malignant or suspicious for malignancy | | 10 |
| | [Surgical cases | 5] |
| | [Papillary thyroid carcinomas | 5] |

Q5-2 For those who answered "I do not intend to participate in the examination" in Q5:
What are the reasons you answered? (Select as many as apply.)

1. Because I have no concern about radiation exposure.
2. Because it may detect cancer that does not require treatment.
3. Because examination results may increase physical or psychological burdens.
4. Because I do not want to cooperate in studies of radiation health effects.
5. Because I felt reassured by the results of my previous examination.
6. Because I have never participated in the TUE program.
7. Because I graduated, examinations at school are no longer available.
8. Because there are no participating medical institutions or venues nearby.
9. Other reason(s). (Please comment freely in the space below.)

About advantages and disadvantages

Q6. Did you know that TUE comes with both advantages and disadvantages?

(Select only one option.)

- | | |
|-------------------|--------------------------|
| 1 Yes, I knew. | 2 No, I did not know. |
|-------------------|--------------------------|

For the following questions, please read the enclosed "Advantages and Disadvantages of TUE" before answering.

Q7: How did you feel when you read about the advantages? (Select only one option.)

- | | |
|--|------------|
| 1 It is easy to understand. | Go to Q8 |
| 2 It is somewhat easy to understand. | Go to Q8 |
| 3 It is somewhat difficult to understand. | Go to Q7-1 |
| 4 It is difficult to understand. | Go to Q7-1 |

Q7-1 For those who answered "3 It is somewhat difficult to understand" or "4 It is difficult to understand" in Q7:

What specific points did you find difficult to understand? (Select as many as apply.)

- 1 The words or sentences used in the explanation are difficult.
- 2 Sentences are long. / There are too many sentences.
- 3 There are a few diagrams or illustrations.
- 4 There is not enough necessary information.
- 5 Other reasons. (Please comment freely in the space below.)

Q8 How did you feel when you read about the disadvantages? (Select only one option.)

| | | |
|---|---|------------|
| 1 | It is easy to understand. | Go to Q9 |
| 2 | It is somewhat easy to understand. | Go to Q9 |
| 3 | It is somewhat difficult to understand. | Go to Q8-1 |
| 4 | It is difficult to understand. | Go to 8-1 |

Q8-1 For those who answered "3 It is somewhat difficult to understand" or "4 It is difficult to understand" in Q8:

What specific points did you find difficult to understand? (Select as many as apply.)

| | |
|---|---|
| 1 | The words or sentences used in the explanation are difficult. |
| 2 | Sentences are long. / There are too many sentences. |
| 3 | There are a few diagrams or illustrations. |
| 4 | There is not enough necessary information. |
| 5 | Other reason(s). (Please comment freely in the space below.) |
| <input style="width: 100%; height: 30px;" type="text"/> | |

Q9 How did you feel after reading the statement **"We have been implementing the following measures to address the above disadvantages"**? (Select only one option.)

| | | |
|---|---|------------|
| 1 | It is easy to understand. | Go to Q10 |
| 2 | It is somewhat easy to understand. | Go to Q10 |
| 3 | It is somewhat difficult to understand. | Go to Q9-1 |
| 4 | It is difficult to understand. | Go to Q9-1 |

Q9-1 For those who answered "3 It is somewhat difficult to understand" or "4 It is difficult to understand" in Q9:

What specific points did you find difficult to understand? (Select as many as apply.)

| | |
|---|---|
| 1 | The words or sentences used in the explanation are difficult. |
| 2 | Sentences are long. / There are too many sentences. |
| 3 | There are few diagrams or illustrations. |
| 4 | There is not enough necessary information. |
| 5 | Other reason(s). (Please comment freely in the space below.) |
| <input style="width: 100%; height: 60px;" type="text"/> | |

Q10 How did you feel about participating in future examinations after reading "The Advantages and Disadvantages of the TUE"? (Select only one option.)

- 1 I will participate.
- 2 I will not participate.
- 3 I am not sure.

[Necessary Information]

Q11 How sufficient is the information on TUE that is shared with eligible participants? (Select only one option.)

- 1 It is sufficient.
- 2 It is somewhat sufficient.
- 3 It is somewhat insufficient.
- 4 It is insufficient.

Q12 Please indicate any additional information you would like to include in the "TUE Information" leaflet enclosed with the examination notice. (Select all that apply.)

- 1 Evaluation of TUE results by Fukushima Prefecture or related parties/organizations
- 2 Independent evaluation of TUE results by international organizations
- 3 Information on radiation health effects
- 4 Medical and clinical information on thyroid cancer
- 5 Availability of support (consultations, financial support, etc.)
- 6 Nothing in particular

Q13 What methods/channels would make it easier for you to receive information about TUE? (Select all that apply.)

- 1 Written information (e.g., leaflet) on TUE from the Prefecture or Fukushima Medical University
- 2 TUE newsletter from the Prefecture or Fukushima Medical University
- 3 Official homepage of the Prefecture or Fukushima Medical University
- 4 Explanations by examiners or experts
- 5 Media reports (newspapers or TV)
- 6 Social media
- 7 Explanatory videos or movies

[Others]

Q14 Please write your opinions or comments freely in the space below.

Thank you for your cooperation.

For parents/guardians

Thyroid Ultrasound Examination (TUE) Questionnaire

Please answer regarding **your thoughts** as the guardian of the child in question (hereinafter referred to as "the child"). Circle the number that applies to each question.

Q1 Please indicate the gender you identify as. (Select only one option.)

1 Male

2 Female

3 Other

Q2 Please tell us your child's age as of April 1, 2026. (Select only one option.)

1 Aged 15 years or younger 2 Aged 16 to 18 years

Q3 Please tell us about your child's current living location. (Select only one option.)

1 In Fukushima Prefecture

2 Outside Fukushima Prefecture

Q4 Has your child ever participated in the Fukushima Health Management Survey (FHMS) Thyroid Ultrasound Examination (TUE) program? (Select only one option.)

1 Yes, he/she has. 2 No, never. 3 I'm not sure. / I don't remember.

Q5 TUE is an entirely voluntary examination. Would you like your child to participate in the future? (Select only one option.)

1 Yes, I would like my child to participate in TUE.

Go to Q5-1

2 No, I don't want my child to participate in TUE.

Go to Q5-2

3 I'm not sure. / I don't know.

Go to Q6

4 I would let my child decide.

Go to Q6

Q5-1 For those who answered "Yes, I would like my child to participate in TUE" in Q5,
What are the reasons for your answer? (Select as many as apply.)

1 Because I have concerns about radiation exposure.

2 Because I would like to gain peace of mind knowing there are no abnormalities.

3 Because it may lead to early diagnosis.

4 Because I would like to contribute to studies of radiation health effects.

5 Because I have concerns about the previous examination results.

6 Because my child has participated in TUE in the past.

7 Because it's convenient to participate in TUE at school.

8 Because there are nearby facilities and venues to participate in TUE.

9 Other reason(s). (Please comment freely in the space below.)

Q5-2 For those who answered, "No, I don't want my child to participate in TUE," in Q5:

What are the reasons for your answer? (Select as many as apply.)

- 1 Because I have no concerns about radiation exposure.
- 2 Because it may detect the diseases that don't require treatment.
- 3 Because the examination results might increase physical or mental burdens.
- 4 Because I do not want my child to cooperate with studies of radiation effects.
- 5 Because I felt reassured by the previous examination results.
- 6 Because my child has never participated in the TUE program.
- 7 Because the school-based examination is no longer available after graduation, it makes participation difficult.
- 8 Because there are no medical facilities or venues nearby where my child can participate in TUE.
- 9 Other reason(s). (Please comment freely in the space below.)

[Advantages and disadvantages]

Q6 Did you know that TUE has both advantages and disadvantages?

- 1 Yes, I knew. 2 No, I don't know.

**For the following questions, please read the enclosed
"Advantages and Disadvantages of TUE" before answering.**

Q7 How did you feel when you read the advantages section? (Select only one option.)

- | | |
|---|------------|
| 1 It is easy to understand. | Go to Q8 |
| 2 It is somewhat easy to understand. | Go to Q8 |
| 3 It is somewhat difficult to understand. | Go to Q7-1 |
| 4 It is difficult to understand. | Go to Q7-1 |

Q7-1 For those who answered "3 It is somewhat difficult to understand" or
"4 It is difficult to understand" in Q7:

What specific points did you find difficult to understand? (Select as many as apply.)

- 1 The words or sentences used in the explanation are difficult.
- 2 Sentences are long. / There are too many sentences.
- 3 There are a few diagrams or illustrations.
- 4 There is not enough necessary information.
- 5 Other reason(s). (Please comment freely in the space below.)

Q8 How did you feel when you read about the **disadvantages** part? (Select only one option.)

- | | | |
|---|---|------------|
| 1 | It is easy to understand. | Go to Q9 |
| 2 | It is somewhat easy to understand. | Go to Q9 |
| 3 | It is somewhat difficult to understand. | Go to Q8-1 |
| 4 | It is difficult to understand. | Go to Q8-1 |

Q8-1 For those who answered "3 It is somewhat difficult to understand" or "4 It is difficult to understand" in Q8:

What specific points did you find difficult to understand? (Select as many as apply.)

- | | |
|---|---|
| 1 | The words or sentences used in the explanation are difficult. |
| 2 | Sentences are long / There are too many sentences. |
| 3 | There are a few diagrams or illustrations. |
| 4 | There is not enough necessary information. |
| 5 | Other reason(s). (Please comment freely in the space below.) |

Q9 How did you feel after reading the statement "**We have been implementing the following measures to address the above disadvantages**"? (Select only one option.)

- | | | |
|---|--|------------|
| 1 | It is easy to understand | Go to Q10 |
| 2 | It is somewhat easy to understand | Go to Q10 |
| 3 | It is somewhat difficult to understand | Go to Q9-1 |
| 4 | It is difficult to understand | Go to Q9-1 |

Q9-1 For those who answered "3 It is somewhat difficult to understand" or "4 It is difficult to understand" in Q9:

What specific points did you find difficult to understand? (Select as many as apply.)

- | | |
|---|---|
| 1 | The words or sentences used in the explanation are difficult. |
| 2 | Sentences are long / There are too many sentences. |
| 3 | There are few diagrams or illustrations. |
| 4 | There is not enough necessary information. |
| 5 | Other reason(s). (Please comment freely in the space below.) |

Q10 How did you feel about participating in future examinations after reading "The Advantages and Disadvantages of the TUE"? (Select only one option.)

- | | |
|-----------------------------------|---|
| 1 I want my child to participate. | 2 I don't want my child to participate. |
| 3 I am not sure. / I don't know. | 4 I will let my child decide. |

[Necessary Information]

Q11 How sufficient is the information on TUE that is reaching the eligible participants? (Select only one option.)

- | |
|--------------------------------|
| 1 It is sufficient. |
| 2 It is somewhat sufficient. |
| 3 It is somewhat insufficient. |
| 4 It is insufficient |

Q12 Please note any additional information you would like to see in the "TUE Information" leaflet enclosed with examination notices. (Select all that apply.)

- | |
|--|
| 1 Evaluation of TUE results by Fukushima Prefecture or related parties/organizations |
| 2 Independent evaluation of TUE results by international organizations |
| 3 Information about radiation health effects |
| 4 Medical and clinical information on thyroid cancer |
| 5 Availability of support (consultations, financial support, etc.) |
| 6 Nothing in particular |

Q13 What methods/channels would make it easier for you to receive information about TUE? (Select all that apply)

- | |
|--|
| 1 Written information (e.g., leaflet) on TUE from the Prefecture or Fukushima Medical University |
| 2 TUE newsletter from the Prefecture or Fukushima Medical University |
| 3 Official homepage of the Prefecture or Fukushima Medical University |
| 4 Explanations by examiners or experts |
| 5 Media reports (newspapers or TV) |
| 6 Social media |
| 7 Explanatory videos or movies |

[Others]

Q14 Please write any opinions or comments about TUE freely in the space below.

| |
|--|
| |
|--|

Thank you for your cooperation.