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2023年 福島県立医科大学『県民健康調査』国際シンポジウム

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2023 Fukushima Medical University International Symposium on the Fukushima Health Management Survey

Secretariat of International Symposium

Office of Public Communications and International Cooperation, Radiation Medical Science Center for the Fukushima Health Management Survey, Fukushima Medical University

Overview of this year's results from the Fukushima Health Management Survey



Following up the health of Fukushima's people over a long time to support their healthier future

KAMIYA Kenji



Radiation Medical Science Center for the Fukushima Health Management Survey, Fukushima Medical University



Outline of the Fukushima Health Management Survey

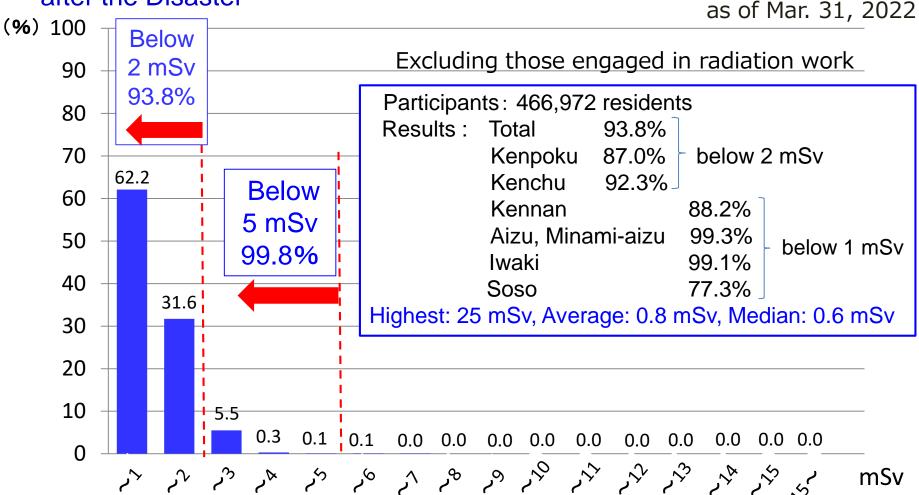
■ Surveys (Basic Survey to estimate individual external exposure dose for four months after the accident and Detailed Survey to understand individual health conditions)

Туре	Participants	Number	nod of survey & response
Basic Survey	Residents of and visitors to Fukushima during the disaster	Approx. 2.06 million	Self-report questionnaire to be submitted by post
Detailed Surveys Thyroid Ultrasound Examination (TUE)	Preliminary Baseline Survey: All residents aged 18 or younger at the time of the disaster Full-Scale Surveys: In addition to those mentioned above, people who were born from April 2, 2011 to April 1, 2012	Approx. 368,000 Approx. 381,000	Thyroid examinations are performed at schools, medical facilities, and public facilities.
Comprehensive Health Check (CHC)	Residents of 13 municipalities designated as evacuation zones (Other municipalities are covered by the prefectural health check program)	Approx. 210,000	Health checks are provided at medical facilities, municipal health check venues, etc.
Mental Health and Lifestyle Survey (MHLS)	Residents of 13 municipals designated as evacuation zones	Approx. 210,000	Self-report questionnaire to be submitted by post or online
Pregnancy and Birth Survey (PBS)	Main Survey: Those who received a Maternal and Child Handbook in Fukushima Those who give birth in Fukushima Follow-up Survey: Respondents to the Main Survey	12,000 - 16,000/year 5,000 - 7,000/year	Self-report questionnaire to be submitted by post or online



Source: 45th meeting of the Oversight Committee for the Fukushima Health Management Survey (Sept. 1, 2022)

Summary of External Exposure Effective Dose during the First 4 Months after the Disaster



Oversight Committee

The dose estimation results obtained from this survey were considered as "not being at a level where health effects can be confirmed with a statistical significance in light of the scientific knowledge obtained to date.



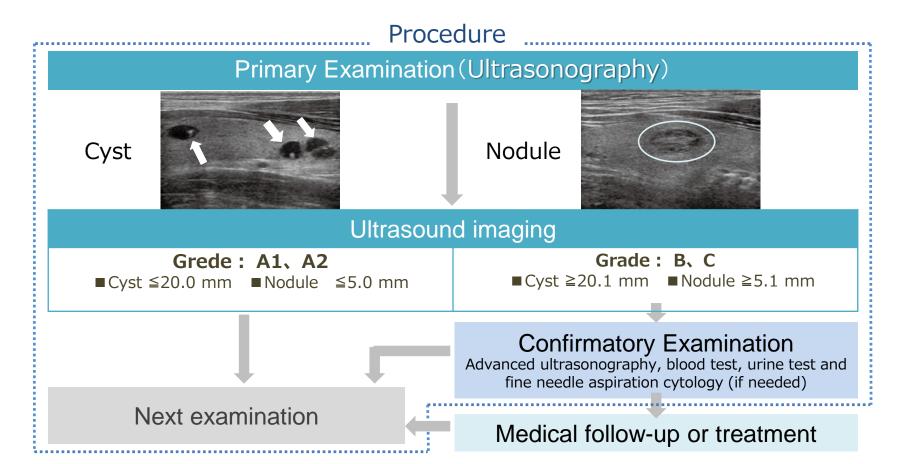
Thyroid Ultrasound Examination – Method

Preliminary baseline survey: Approx. 368,000

All residents of age 18 or less at the time of the disaster

Full-scale survey: Approx. 381,000

In addition, people who were born from April 2, 2011 to April 1, 2012





Thyroid Ultrasound Examination – Provision of information

Explanation sessions for parents

[Participants]

Guardians, teachers school staff, local gov't officials, Residents, etc.



(Contents)

Briefing by the doctors about details of the examination, the latest findings, medical characteristics of thyroid and thyroid cancer, etc.

Video

Advantages and Disadvantages of Thyroid Examination

(Contents)

Explanation in detail of advantages and disadvantages of thyroid examinations using ultrasonography ("echo").



Released on April 1st, 2020

Visiting lectures for students

(Participants)

From the 5th grade of elementary school to senior high school students

[Contents]

- Lectures upon request by the school for a lesson period etc.
 Doctors explain about the thyroid examination simply with purpose-made educational textbooks
- Demonstration of ultrasonography by medical technologist



小学生用テキスト

Thyroid Newsletter

(Contents)

A regular publication with the latest information on thyroid examinations, Q&A, findings, etc.









Advantages and Disadvantages of Thyroid Examinations

Advantages

- Analysis of results provide information regarding radiation effects in Fukushima Prefecture
- •If no irregularities are found, it may bring peace of mind.
- Early diagnosis reduces the risk of recurrence and complications.

Disadvantages

- Participants may have anxieties regarding the examination results.
- Burdens may increase from thyroid cancer treatment and/or follow-ups.
- Extremely low-risk cancer may be overdiagnosed.

Efforts to promote understanding of thyroid examinations



Explanation about the examination at primary examination venues



Visiting lectures for students

Brochure for elementary school students



Brochure for junior/senior high school students



Publication of brochure used in visiting lectures



Dissemination of Advantages and Disadvantages of Thyroid Examinations

Explanation in invitation letter

An "Invitation to Thyroid Ultrasound Examination" are sent to eligible people, explaining the purpose of the examination, and its advantages and disadvantages.

Distribution of a leaflet

Distribution of a leaflet started since the Full-Scale Survey (fifth-round). The leaflet contains explanations suitable for elementary school and junior high school students.

Video

Playing the video titled "Advantages and Disadvantages of Thyroid Examinations" at general venues of the Thyroid Ultrasound Examination.



Released on April 1st, 2020

TV program

Informing to watch the TV program of the prefectural government for understanding advantages and disadvantages of the examination and encouraging people to think for themselves about the examination before deciding.



Website

Reviewing the form and function of the website to make it easier to search for information on the Thyroid Ultrasound Examination and enhancing the



https://fukushima-mimamori.jp/thyroid-examination/merit-demerit.html

Efforts at event venues

Displaying panels at the venue of the "Iki Iki Kenkozukuri (Fitness) Forum" held in November 2022.





Thyroid Ultrasound Examination – Implementation Status

Schedule and Coverage

	Category	Duration	Venues	Covered population
1 st round	Preliminary Baseline Survey (To assess the baseline condition of thyroid glands)	Oct 2011 ~ Mar 2014	FMU, schools, public facilities and credentialed medical facilities outside Fukushima	Residents of Fukushima Prefecture aged 18 or younger as of Mar. 11, 2011 (Approx. 368,000)
2 nd round 3 rd round 4 th round 5 th round	Full-Scale Surveys (To follow up the health of participants over a long term period)	Apr 2014 ~ Mar 2016 May 2016 ~ Mar 2018 Apr 2018 Apr 2020 Apr 2020 Mar 2023	Schools, public facilities and and credentialed medical facilities in and outside Fukushima	In addition to the aforementioned residents, those who were born between Apr. 2, 2011 and Apr. 1, 2012. (Approx. 381,000) Eligible persons are recommended to receive an examination every 2 years until they reach age 20 and at ages that are multiples of 5 after age
Survey for Age 25		May 2017 ~	Public facilities and credentialed medical facilities in and outside Fukushima	21.



Thyroid Ultrasound Examination – Results

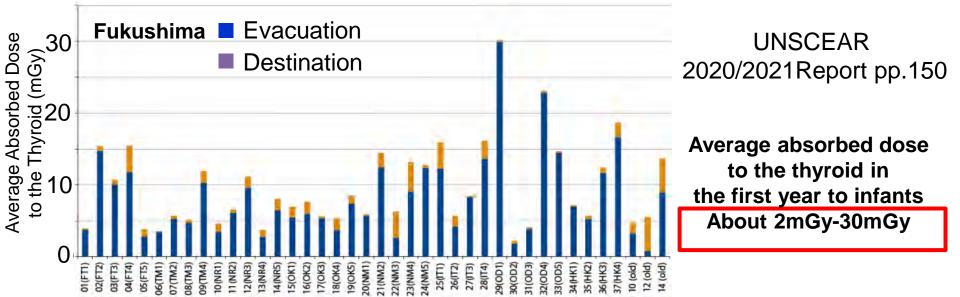
As of Jun. 30, 2022

		Preliminary Baseline Survey (1 st round) *1	Full-Scale Survey (2 nd round) *2	Full-Scale Survey (3 rd round) *2	Full-Scale Survey (4 th round)	Full-Scale Survey (5 th round)	Survey for Age 25 *3
S	urvey year	FY2011- FY2013	FY2014- FY2015	FY2016- FY2017	FY2018- FY2019	FY2020- FY2022	FY2017-
Thos prima	se eligible for ry examination	367,637	381,237	336,667	294,228	252,908	108,713
Partic prima	ipation rate for ry examination	81.7%	71.0%	64.7%	62.3%	31.7%	9.1%
	se referred for rmatory exam	2,293	2,230	1,502	1,394	939	430
Partic confirma	ipation rate for tory examination	92.9%	84.2%	73.5%	74.3%	62.1%	82.1%
Malignan malig	nt or suspicious for nancy (FNAC)	116	71	31	39	23	16
Those	e who received surgery	102	56	29	34	7	10
	Papillary cancer	100	55	29	34	7	9
ogical nosis	Undifferentiated cancer	1					
Pathological Diagnosis	Other type of thyroid cancer		1				1
	Benign nodules	1					
*1 As of Mar. 31, 2018							

UNSCEAR Report

Radiation Exposure Dose among Evacuation Groups from the Chornobyl and Fukushima Nuclear Accidents

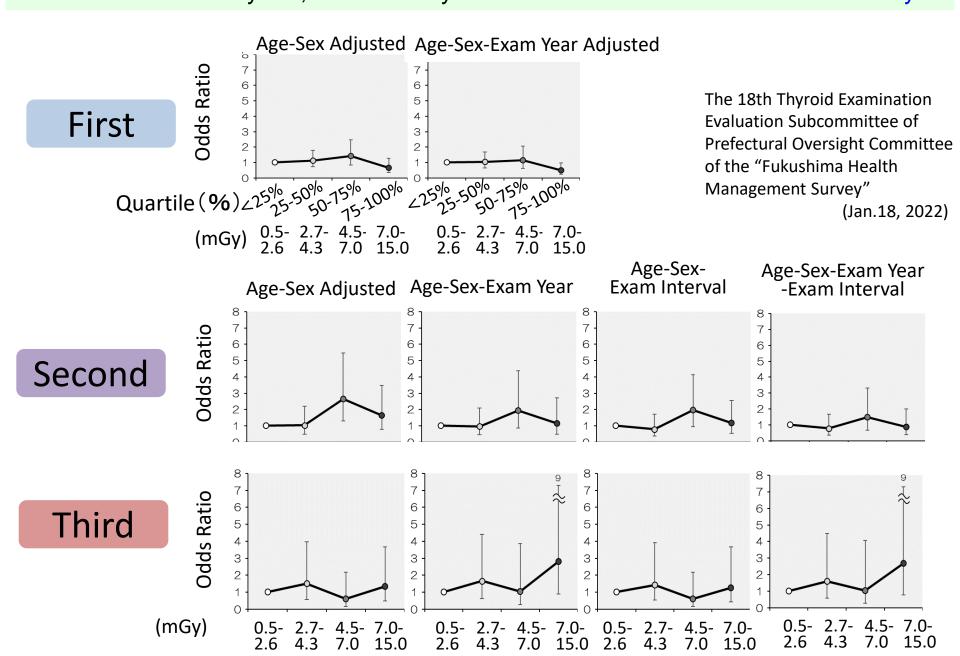
Average absorbed dose to the thyroid in the first year to infants for each evacuation scenario



UNSCEAR 2008 Report

Chornobyl Accident	# of people (x1,000)	Mean eft	Mean Thyroid dose	
Accident	(x1,000)	External	Internal	dose (mGy)
Belarus	25	30	6	1,100
Russia	0.19	25	10	440
Ukraine	90	20	10	330

Adjusted odds ratio (95% CI) for thyroid cancer risk among children according to absorbed doses in thyroid, estimated by UNSCEAR 2020 ~ Cross-sectional survey ~

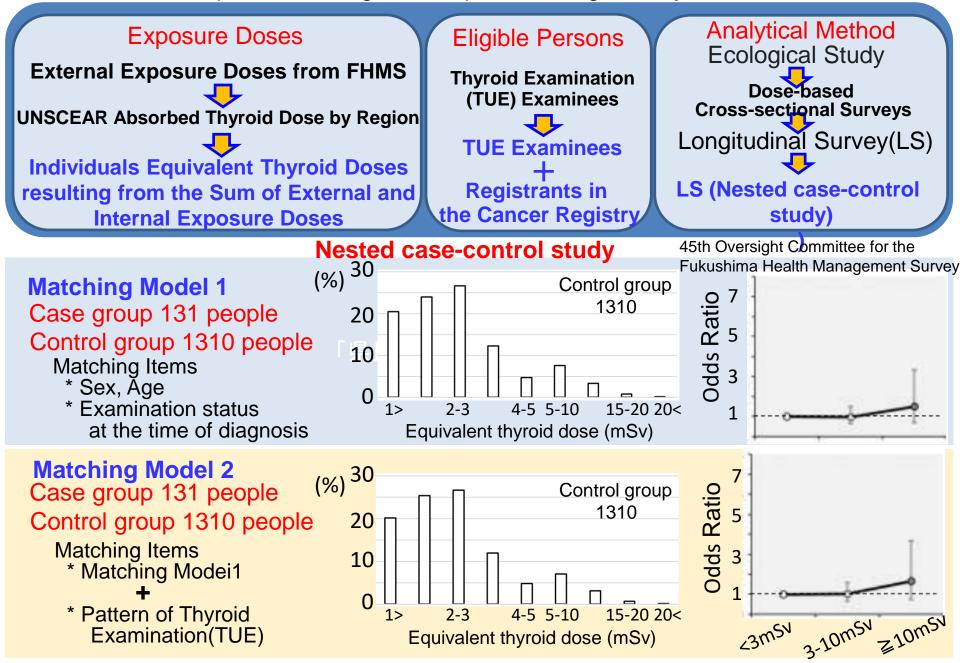


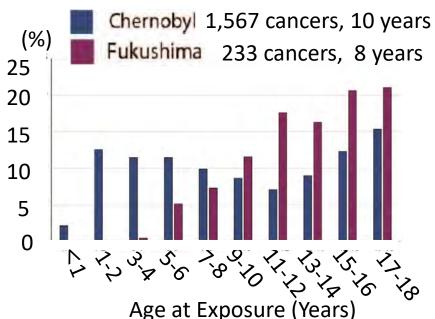
Adjusted odds ratio (95% CI) for thyroid cancer among children according to absorbed doses in thyroid, estimated by UNSCEAR 2020 ~Longitudinal survey~

	Age-Se	ex Adjus	stec A	∖ge-Se	эх-Ех	(am	Year	Е	Age-S xam In		•	ge-Se -Exa	x-Exa ım Int		
Odds Ratio	3 - 2		8 7 6 5 4 3 2		<u> </u>	<u> </u>	T	8 7 6 6 4 4 3 2		<u> </u>	8 7 6 5 4 3 2 2	3 -		<u> </u>	1
Quartil (%)	e 25% 25.50%	10 75°10 50-75-1	0000	225° 25	50°1°	15°10,	10000	225°	° 5.50°° 50	15°10	100000	225°/0	550%	7500	1000,0
(mGy)	0.5- 2. 2.6 4.		7.0- 15.0	0.5- 2.6	2.7- 4.3		7.0- 15.0	0.5 2.6	5- 2.7- 6 4.3	4.5- 7.0	7.0- 15.0	0.5- 2.6	2.7- 4.3	4.5- 7.0	7.0- 15.0

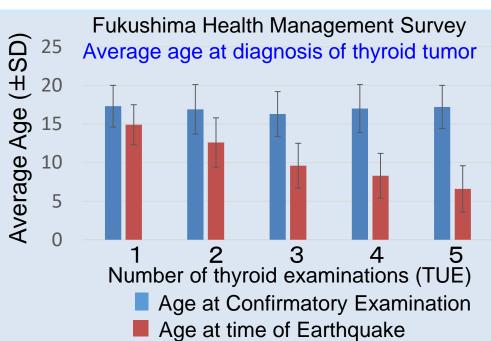
	Preliminary Baseline (1 st Exam)	Full-Scale Survey (2 nd Exam)	Full-Scale Survey (3 rd Exam)
Fiscal Year (period)	2011-2013 (First 3 years)	2014-2015 (4-5 years)	2016-2017 (6-7 years)
Malignant or suspicious for malignancy (FNAC)	116	71	31

Study of the association between radiation dose and the development of malignant/suspected malignant thyroid tumors

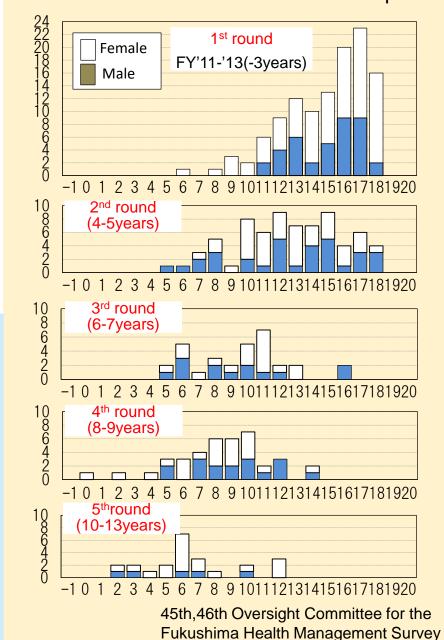




(UNSCEAR 2020/2021 Reprt,pp89,Figure XXI)



Age distribution of thyroid tumors diagnosed by Fukushima TUE at the time of the earthquake





Thyroid Ultrasound Examination – Prefectural Oversight Committee's view on results

1st round Based on comprehensive evaluation of the results of the Preliminary Baseline Survey, thyroid cancers found thus far cannot be attributed to radiation from the Fukushima accident.

Because ··· From "Interim Report on the Fukushima Health Management Survey"

- Exposure doses in the Fukushima accident were generally lower.
- Latent period of thyroid cancers is short (approximately one to four years).
- · Cancers have not been found in those aged five and younger.
- · There are no significant regional differences in detection rates.

Oversight Committee confirmed its subcommittee's view that no causal relationship could be established between radiation exposure and prevalence of thyroid cancer found in the 2nd-round survey.

Because...

From "Documents 1-1 & 1-2 for the 36th Oversight Committee meeting"

- Analyses of an association between thyroid cancer detection rates and thyroid doses estimated by UNSCEAR revealed no dose-effect relationship.
- · The age distribution of thyroid cancers in Fukushima is different from that of Chornobyl.

Analyses classified into quartiles based on the distribution of estimated doses by UNSCEAR among the thyroid examination participants showed no significant association and no dose-response relationship. (The 18th Thyroid Examination Evaluation Subcommittee)



Thyroid Ultrasound Examination – Support

Support for Primary Examination

The Diagnosis Explanation Booth

- Set up at public location/facility
- Provisional explanation by a doctor showing the scanned image

Provided explanation to **33,451** people since FY2015

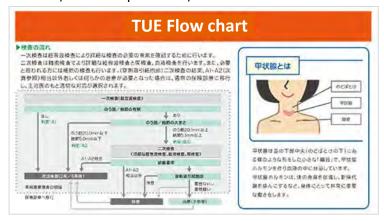
(The figure as of the end of March 2021)



In the booth (image)

O Leaflet

- Distribution at the examination venue
- Explanation of nodules & cysts, diagnostic criteria, follow-up exams, etc.

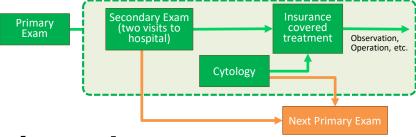


Support for Confirmatory Examination

Thyroid Support Team

[Members]

Nurse, Psychiatric Social Worker, Clinical Phycologist, Medical Social Worker, etc.



[Activities]

Psychosocial support for the confirmatory examination examinees and their families

Supported 2,039 people (4,062 times) since FY2013

(Figures as of the end of March 2022)

O Exclusive Medical Call Center

[Coverage]

Thyroid exam patients and their families

444 calls since FY2016

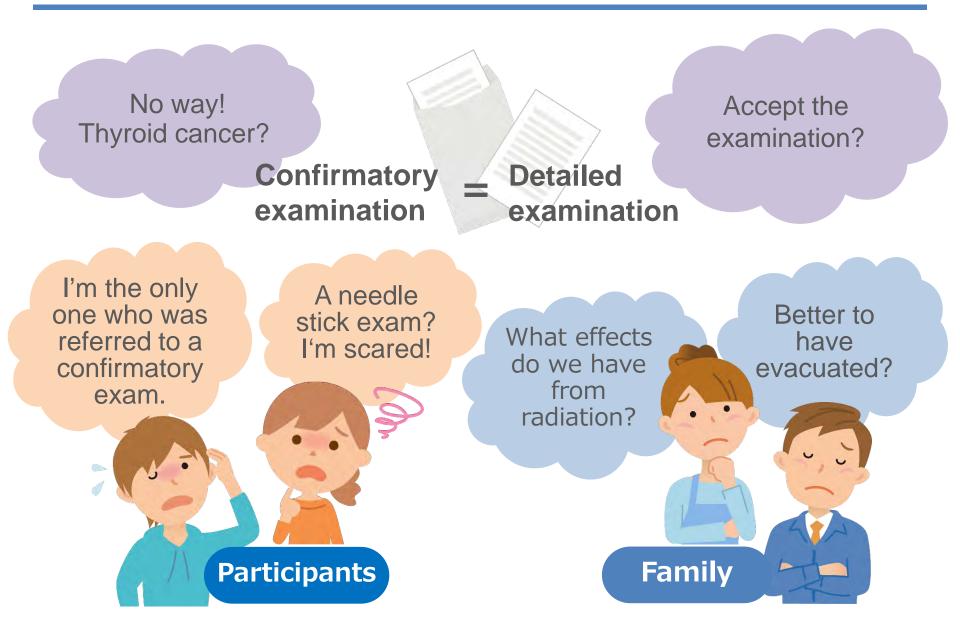
(The figure as of the end of December 2022)

[Activities]

- Medical consultation on the diagnosis and thyroid diseases, etc.
- Doctors respond while checking the result and scan.



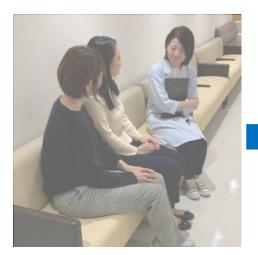
Thyroid Support Team





Roles of Thyroid Support Team

Before examination



Listen carefully, and address anxieties

During examination



Attend ultrasonography, doctor's consultation, and other examinations

After examination



Ask if there are any unclear points, explain and provide information if necessary

Thyroid Support Team helps with:

Responding to anxiety

With warm attitude, Team explains what to expect

Answering all questions

Team clarifies all the questions that participants may have.

Information provision

Team provides necessary information.

Decision making

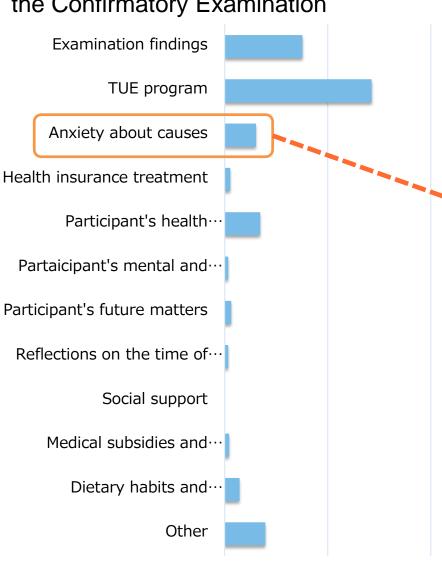
Team supports for independent & autonomous decision making.





Efficacy of Thyroid Support Team during the Confirmatory Examination

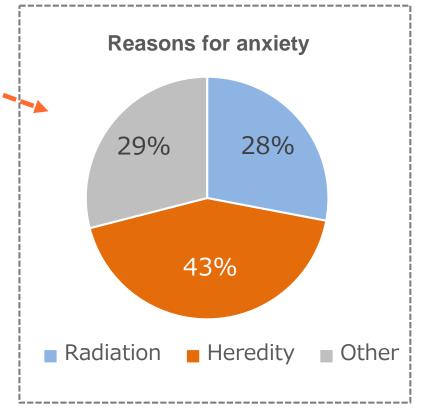




100

200

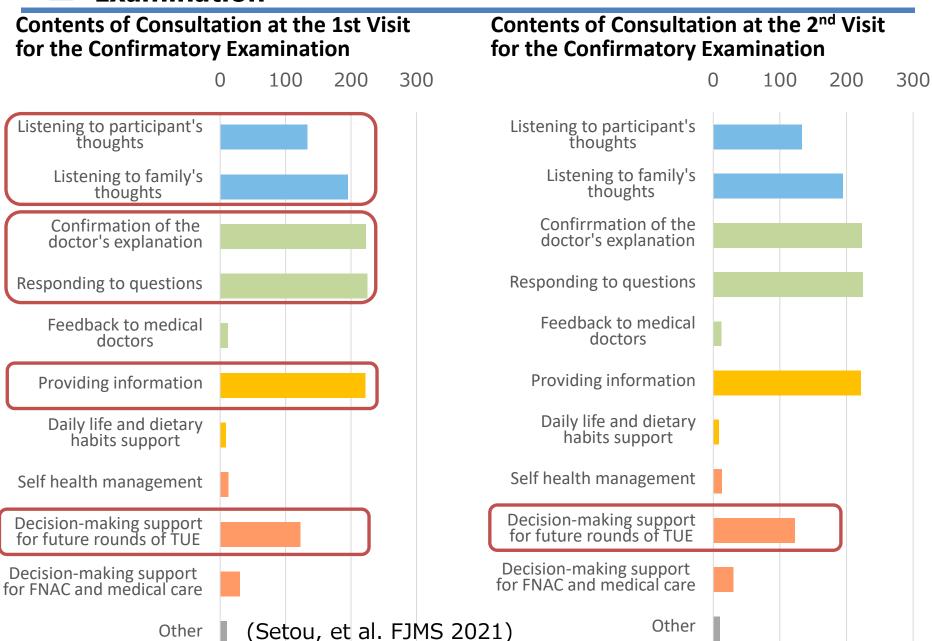
Analysis of **233** support records <Coverage> Participants (with their family members) who underwent a confirmatory examination in the Full-Scale Survey (4th round survey). <Period> Sept. 2018 – Mar. 2019



Setou, et al. (2021): Psychosocial support for the examinees and their families during the secondary confirmatory examination. FJMS 67(2):53-63



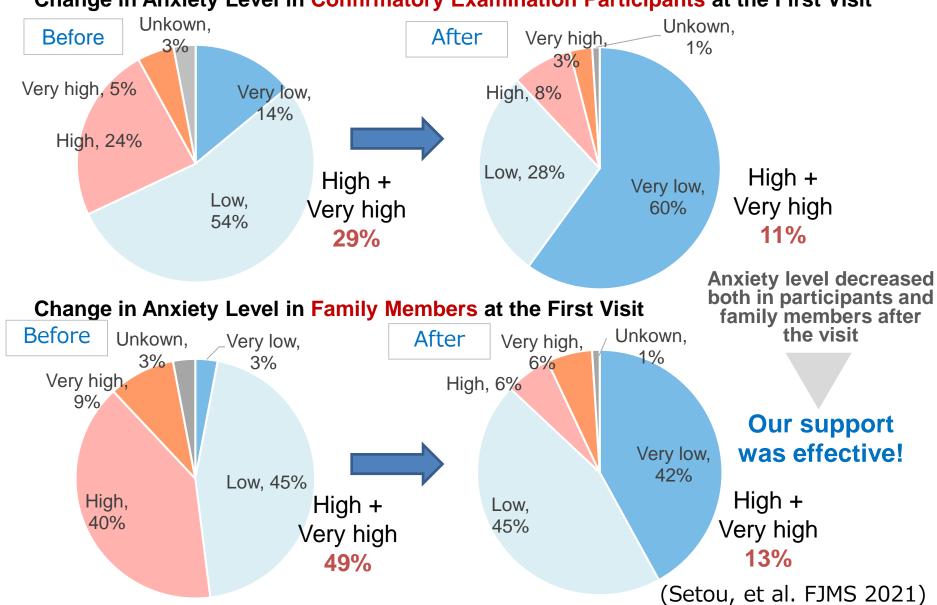
Efficacy of Thyroid Support Team at the Confirmatory Examination





Efficacy of Thyroid Support Team at the Confirmatory Examination



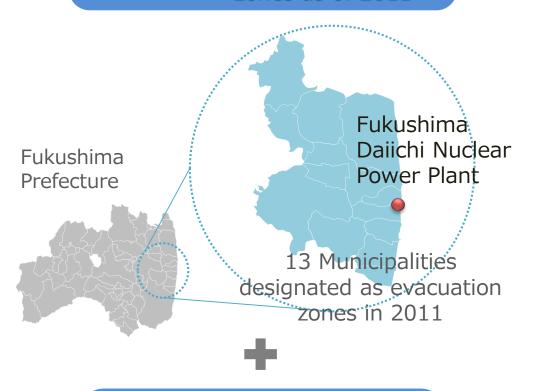




Comprehensive Health Check – Outline

Covered Population: About 210,000

Residents of nationally designated evacuation zones as of 2011



Those who were recommended to have follow-up based on the results of the Basic Survey

Age Group and Check Items

Age group	Check items
0 – 6 (Preschool)	Height, weight [Additional items on request] CBC (Complete Blood Count: red cell count, differential white cell count, platelet count, hematocrit, hemoglobin)
7 - 15 (Elementary school Grade 1 - Junior high school Grade 3)	Height, weight, blood pressure, CBC [Additional items on request] Blood biochemistry (AST, ALT, γGT, TG, HDL-C, LDL-C, HbA1c, plasma glucose, serum creatinine, uric acid)
16 or over	Height, weight, abdominal circumference or BMI, blood pressure, <u>CBC</u> , urine protein, urine sugar, <u>urine occult blood</u>), blood biochemistry (AST, ALT, YGT, TG, HDL-C, LDL-C, HbA1c, plasma glucose, <u>serum creatinine</u> , <u>estimated glomerular filtration</u> rate [eGFR], uric acid) **The underlined items are not usually performed in Specific Health Checkups.



Comprehensive Health Check – Results

41st ,44th Oversight Committee for the Fukushima Health Management Survey

No findings indicating radiation effects were found in the results of the Comprehensive Health Check.

Health status after the Great East Japan Earthquake (15 yo or younger)

Obesity has improved, but dyslipidemia has been delaying.

Diseases that are considered as being attributable to changes in lifestyle including evacuation due to the disaster (16 yo or over)

- Obesity
- Hypertension
- Dyslipidemia (low HDL-C)
- Diabetes

- Renal dysfunction
- Hyperuricemia
- hepatic dysfunction
- Polycythemia

Risk factors for circulatory diseases are increasing.

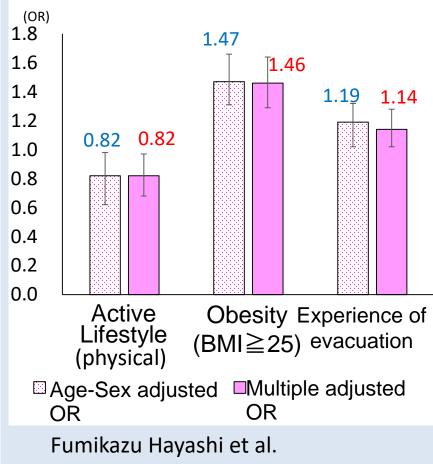
Diseases that had increased after the disaster but reduced thereafter (16 yo or over)

- Blood pressure, LDL-C : Improved treatment rate
- Hepatobiliary system enzyme abnormality (hepatic dysfunction) : Daily exercise and eating of breakfast



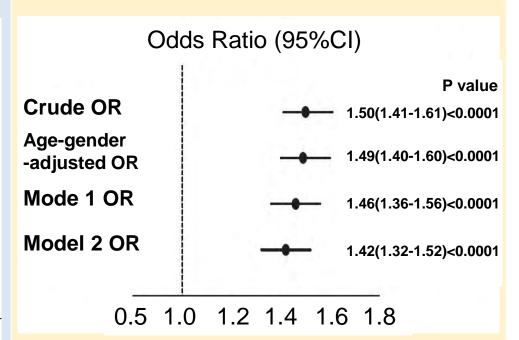
Introduction of papers related to the Fukushima Health Management Survey (Impact of Evacuation Life)

Association of new onset of dyslipidemia with lifestyle and evacuation (95% CI)



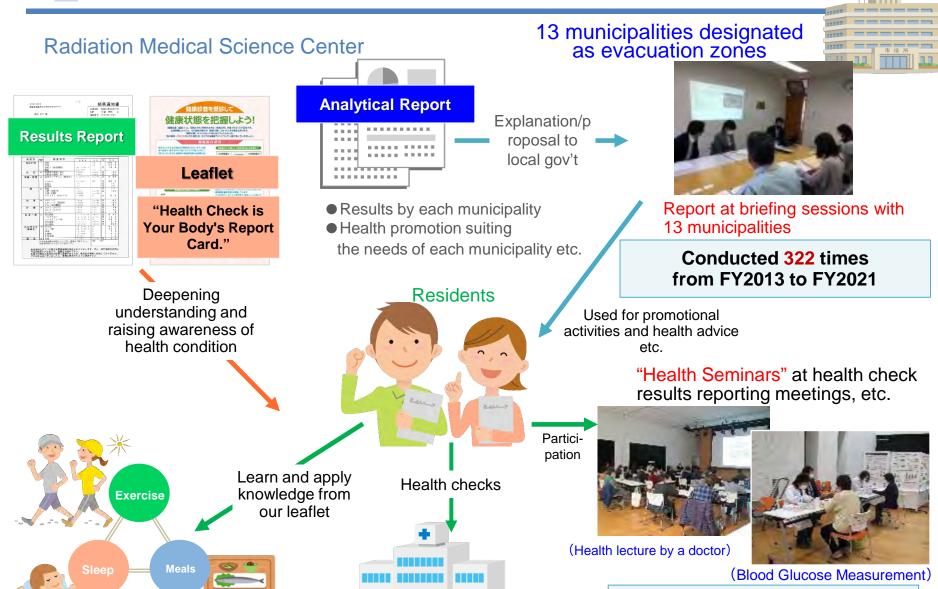
Journal of Radiation Research, Vol. 62, No. S1, 2021, pp. i129–i139

Odds ratio (OR) of new onset of hyper LDL cholesterolemia in evacuees (95% CI)



Hiroaki Satoh et al.
J Epidemiol 2022;32(6):277-282





Conducted 152 times from FY2016 to FY2021



Health support based on survey results and findings

Briefing sessions with 13 municipalities

Radiation Medical Science Center for the Fukushima Health Management Survey



Explanations and proposals to municipalities

Questions and requests

- Survey results collated for each municipality
- Health promotion measures, etc., according to the needs of each municipality

of our town with those of other 12 municipalities.

Tamura, Minamisoma, Kawakubo, Hirono, Naraha, Tomioka, Kawauchi, Okuma, Futaba, Namie, Katsurao, litate, Date (specific spots recommended for evacuation partially)

13 municipalities designated as evacuation zones



(Public health nurses and health and welfare staff)

revised.

322 sessions were held

from FY2013 to FY2021

(Briefing session in Minamisoma)

Requests from municipalities Our response We need help when explaining health check results to residents, Assisted in explaining health including lipid abnormalities and hypertension data, in an easycheck results to-understand manner. Dispatched health check We need help with doctor's consultation during the town's health checks. staff We have concerns about depression among mothers who are rearing children in other municipalities they relocated to. The Liaised to our Office of proportion of mothers with depressive symptoms is high even Pregnancy and Birth Survey among those with children of higher ages. Please investigate the cause. Please make door-to-door visits and teach residents how to do Dispatched physiotherapist (FMU faculty) exercisina. We want to compare Mental Health and Lifestyle Survey results Format of reporting is to be



(Dispatch of public health nurses)



Holding Heath Seminars





Health lecture by a doctor

Blood glucose measurement

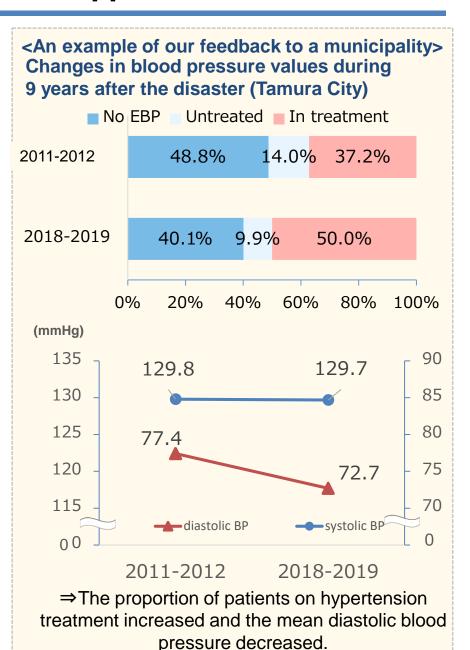
- Direct explanation on analysis results to residents of the covered municipality through lectures by doctors
- Individual consultation and blood pressure measurement by health professionals

Active feedback of CHC results to communities





Blood pressure values improved due to continued participation in health checks and increased treatment rates.





Past Health Seminars

[FY2020] Conducted 17 times

Municipality	Event name	Times	Contents
Naraha	General health check	8	Individual consultation by specialists Panel exhibition
Town	Individual consultation by specialists	7	Individual consultation by specialists Panel exhibition
Hirono Town	Reporting meeting on Health check results	1	Individual consultation by specialists Blood pressure measurement
Tamura City	Health promotion lectures for citizen	1	Health lecture by doctors Individual consultation by specialists Blood pressure measurement



(Health lecture by doctor)

[FY2021] Conducted 18 times

Municipality	Event name	Times	Contents
Naraha	Individual consultation by specialists	2	Individual consultation by specialists Panel exhibition Leaflet distribution
Town	General health check	7	Panel exhibition
Katsurao Village	Health check results reporting meeting	7	Individual consultation by specialists Panel exhibition Leaflet distribution
Tamura City	Health promotion lectures for citizens	2	Health lecture by doctors Individual consultation by specialists Blood glucose measurement



(Consultation by experts)



(Display of panels)



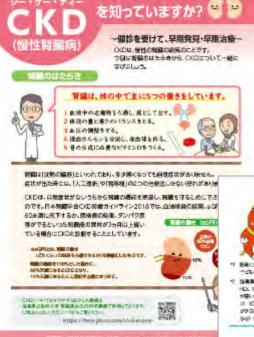
Comprehensive Health Check –

Utilization of health check results and promotional activities

[Comprehensive Health Check leaflet (FY2021)]



[Comprehensive Health Check leaflet (FY2022)]



Basic knowledge of CKD (chronic kidney disease) and its relationship to dietary patterns revealed by CHC results.

[Leaflet for the pediatric health checks]



Explanation of findings from the pediatric health checks and advice to avoid obesity and dyslipidemia.

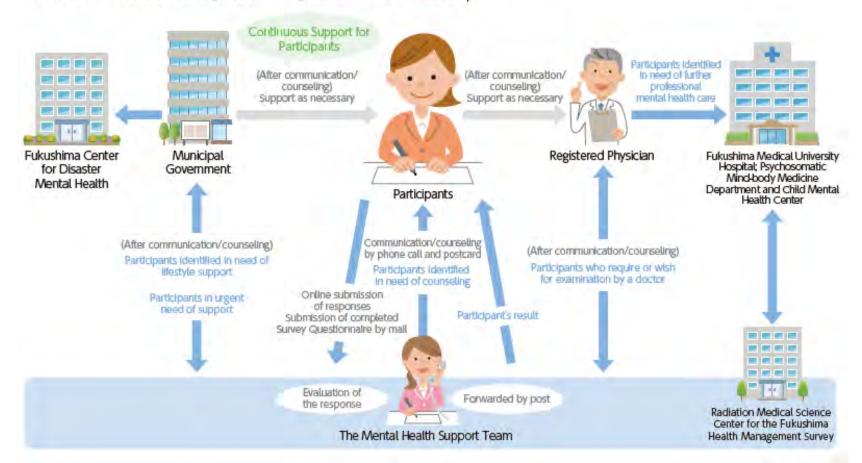


Mental Health and Lifestyle Survey – Outline

Covered Population (FY2020)

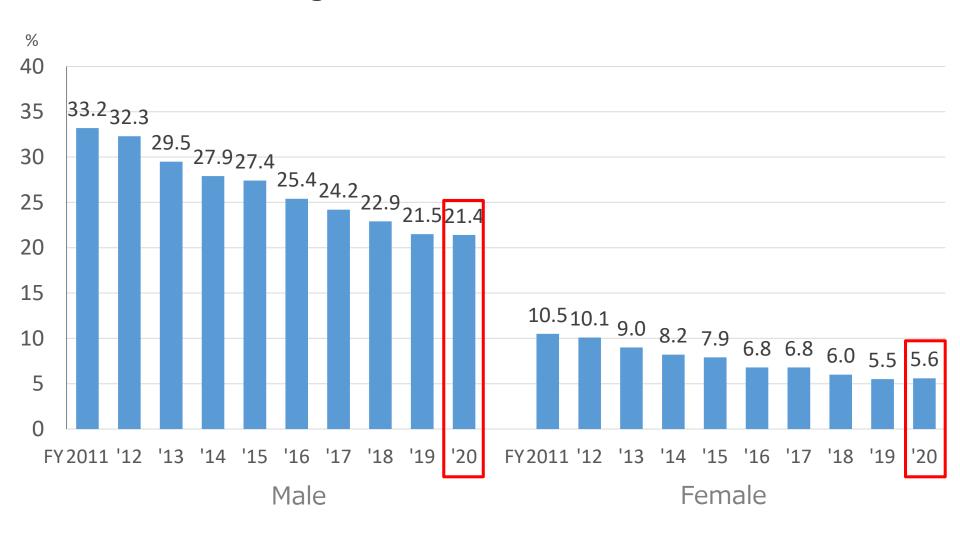
<u>199,461 people</u> who resided in 13 municipalities designated as evacuation zones by Japanese government. These people are divided into 5 age groups (ages 0-3, 4-6, 7-12, 13-15, 16+ years).

Procedures from Submission of Survey Questionnaire to Receipt of Support Care in Collaboration among Relevant Organizations and Physicians



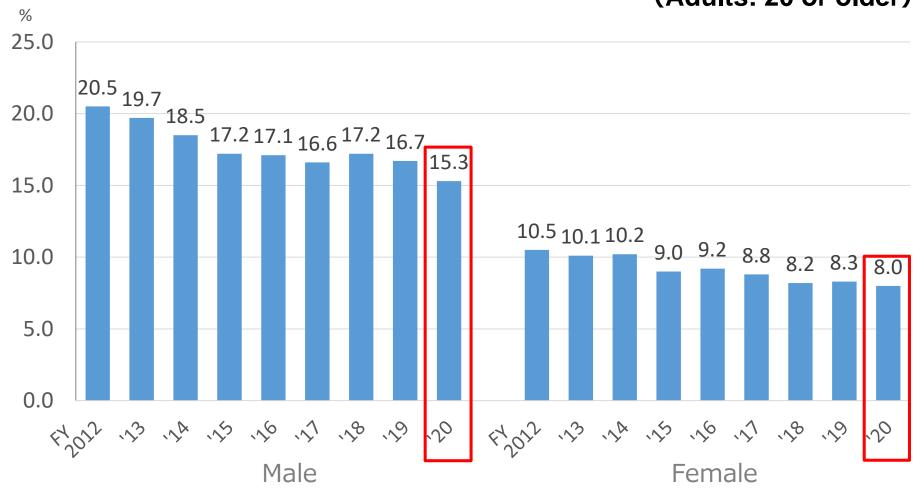


Trends in smoking (Adults: 20 or older)



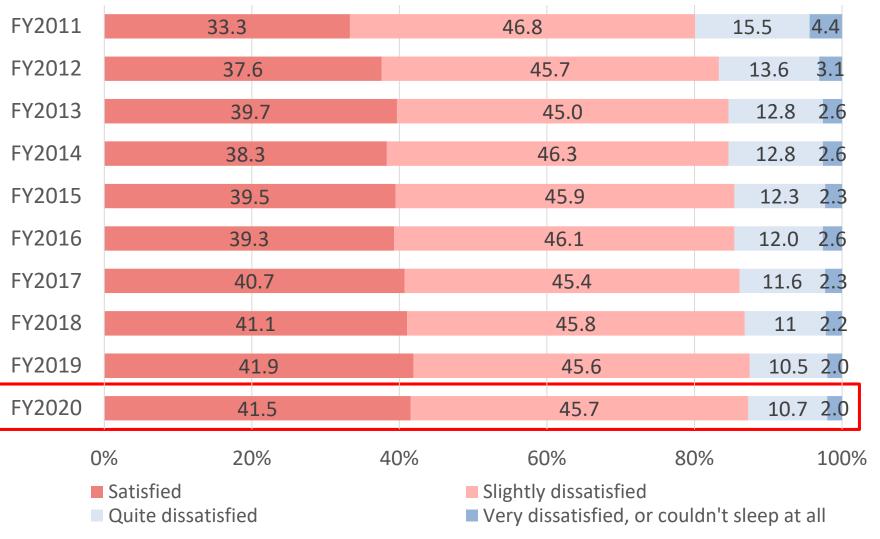


Trends in problematic drinking (with CAGE score of 2 or higher) (Adults: 20 or older)



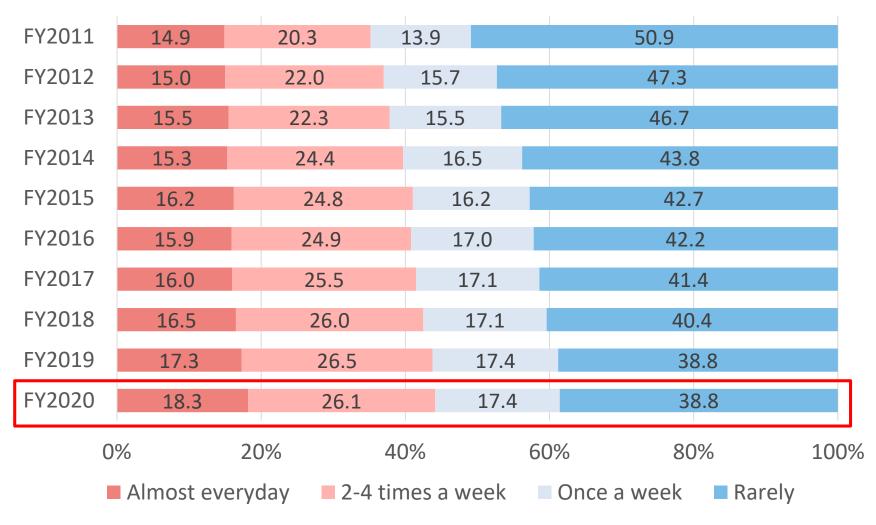


Trends in sleep satisfaction (Adults: 16 or older)



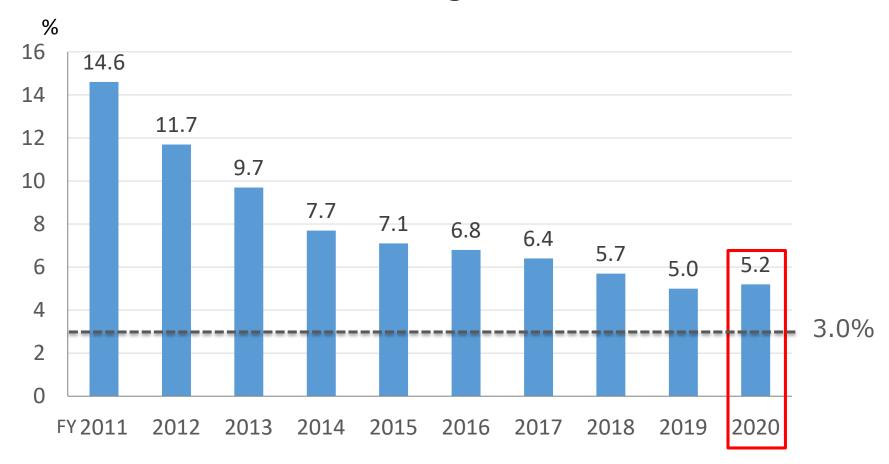


Trends in exercise frequency (Adults: 16 or older)





General mental health measured by K6 (Adults: 16 or older) Trends in K6 score of 13 or higher

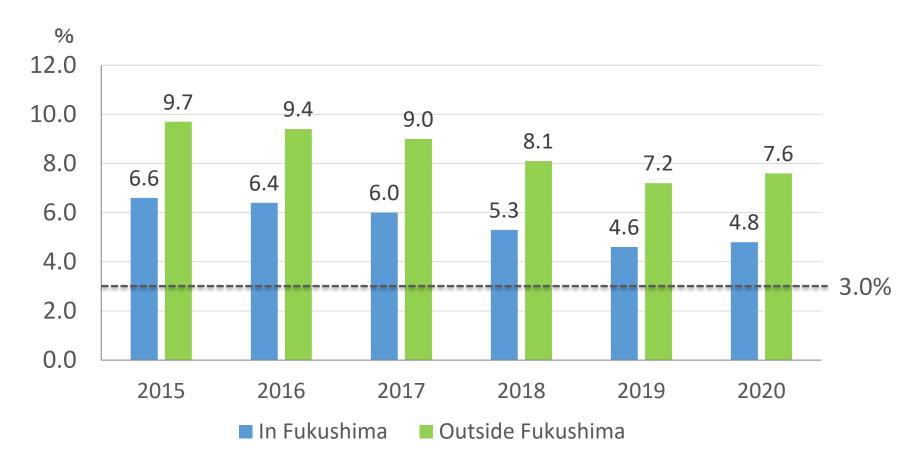


*The percentage of those scoring 13 points or higher among general Japanese population unaffected by any disaster is 3.0% (Kawakami, 2007)



Mental Health and Lifestyle Survey – Results

General mental health measured by K6 (Adults: 16 or older) Trends in K6 score of 13 or higher, by place of residence at the time of this survey

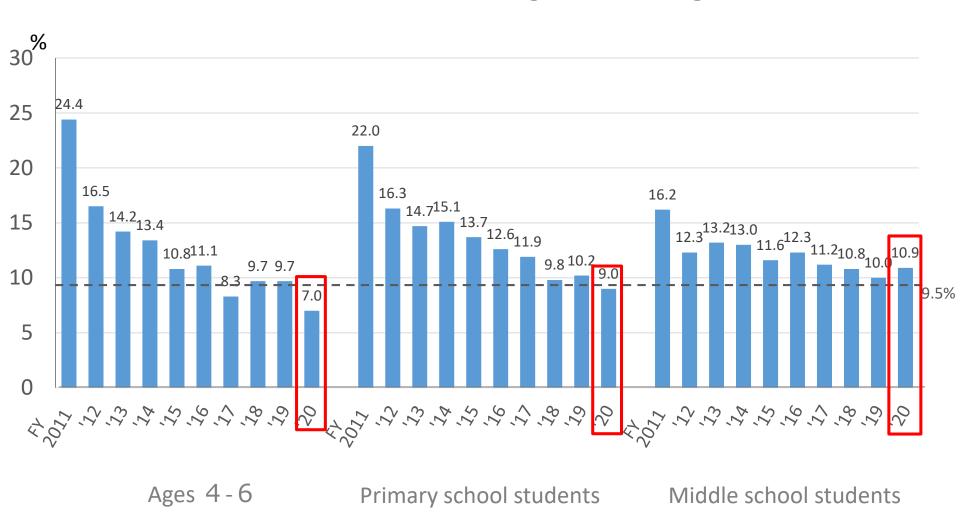


Source: 31st, 35th, 38th, 42nd, and 45th meetings of the Oversight Committee for the Fukushima Health Management Survey



Mental Health and Lifestyle Survey – Results

Trends in SDQ score of 16 or higher among children

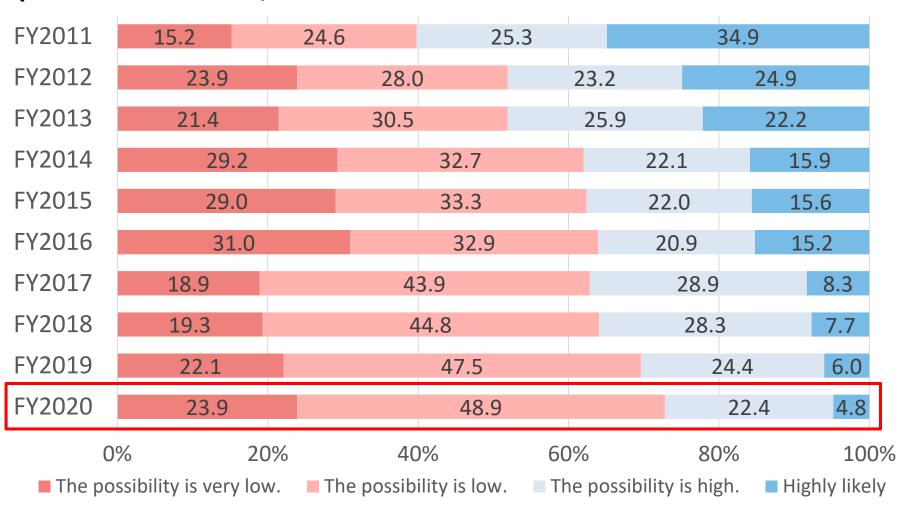


Source: 45th meeting of the Oversight Committee for the Fukushima Health Management Survey (Sept. 1, 2022)



Mental Health and Lifestyle Survey – Results

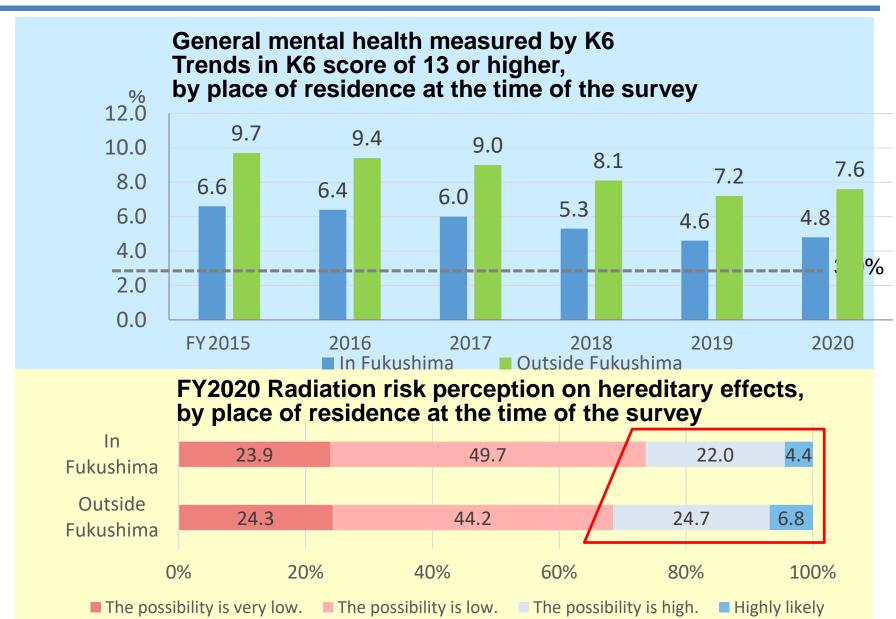
Changes in radiation risk perception on hereditary effects (Adults: 16 or older)



Source: 45th meeting of the Oversight Committee for the Fukushima Health Management Survey (Sept. 1, 2022)



Mental Health and Lifestyle Survey – Results (Adults:16 or older)



Source: 45th meeting of the Oversight Committee for the Fukushima Health Management Survey (Sept. 1, 2022)



Mental Health and Lifestyle Survey – Support



Addressing the People with High Risk

こころの健康度と生活習慣 セルフサポートフック 「「Pompany」 「ATTRACKS TOTAL DATE OF TOTAL DATE OF TOTAL ACT OF TOTAL AC

Brochure

- Health information
- Referring to a medical facility or a consultation center



- Physical and mental health check
- Identifying needs
- Professional advice

Population Approach





Approaching to Groups to Reduce Risk



Visiting Covered Municipalities

- Briefing sessions with
 13 municipalities
- Advice based on the results (Health workers and health & welfare officials)

Organizing Symposiums

 Providing information useful for support activities (Specialists, teachers, students, etc.)

Exhibiting at health events

- Dialogue with residents
- Information dissemination





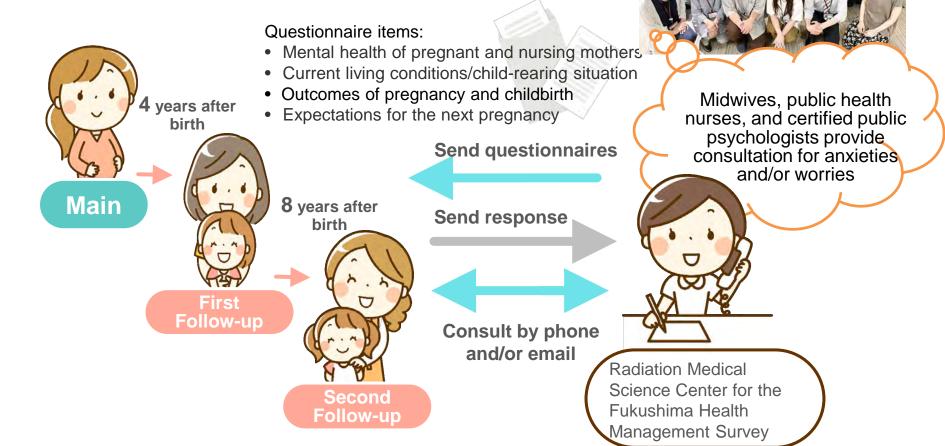
Pregnancy and Birth Survey – Outline

Main Survey: Covered population 12,000 - 16,000

 Those who were pregnant and gave birth in Fukushima Pref. from FY2011 to FY2020

Follow-up Survey: Covered population 5,200 - 7,300

Those who responded to the Main Survey from FY2011 to FY2014





Pregnancy and Birth Survey – Results

44th Oversight Committee for the Fukushima Health Management Survey

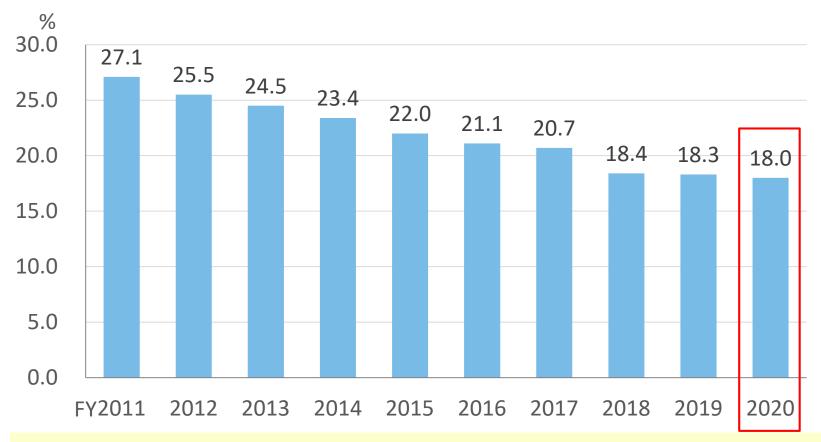
	Preterm deliveries (%)		Low birth weight infants (%)		Congenital anomalies (%)	
	Fukushima	National*	Fukushima	National*	Fukushima	General Incidence in Japan
FY 2011	4.6	5.7	8.6	9.6	2.85	3~5**
FY 2012	5.6	5.7	9.2	9.6	2.39	
FY 2013	5.2	5.8	9.6	9.6	2.35	
FY 2014	5.3	5.7	9.8	9.5	2.30	
FY 2015	5.6	5.6	9.4	9.5	2.24	
FY 2016	5.3	5.6	9.2	9.4	2.55	
FY 2017	5.3	5.7	9.2	9.4	2.38	
FY2018	5.2	5.6	9.0	9.4	2.19	
FY2019	5.1	5.6	9.1	9.4	2.71	
FY2020	4.4	5.5	8.1	9.2	2.21	

^{*} Vital Statistics (Ministry of Health, Labor and Welfare) ** Guidelines for Obstetrical Practice in Japan 2020



Pregnancy and Birth Survey – Results

Changes in the Numbers of Mothers with Depressive Symptoms



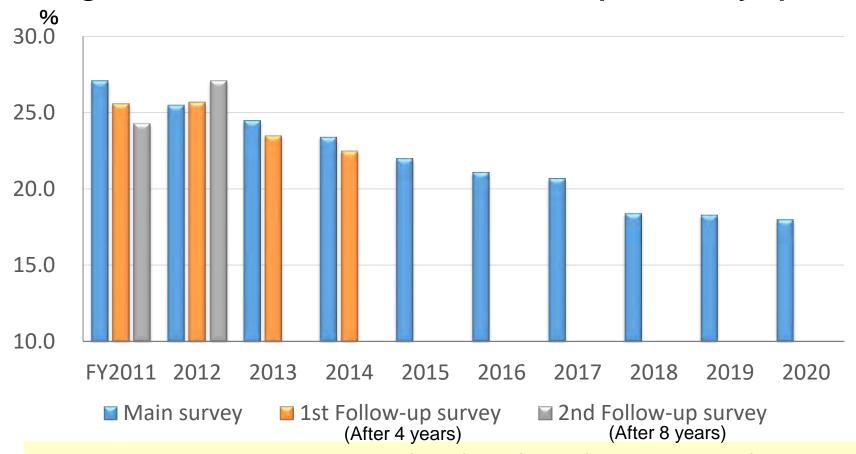
Depressive symptoms among mothers have been decreasing year by year. FY2020 result was at the same level as the percentage of mothers with postpartum depressive symptoms found in a national survey.

Source: 44th meeting of the Oversight Committee for the Fukushima Health Management Survey (May 17, 2022)



Pregnancy and Birth Survey – Results

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Source: 44th meeting of the Oversight Committee for the Fukushima Health Management Survey (May 17, 2022)

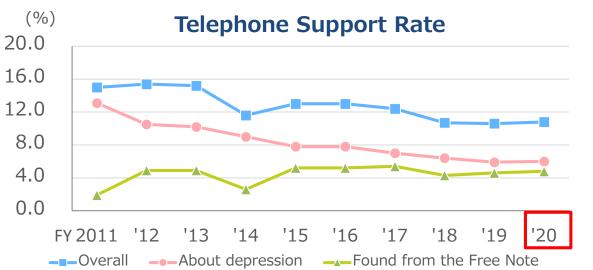


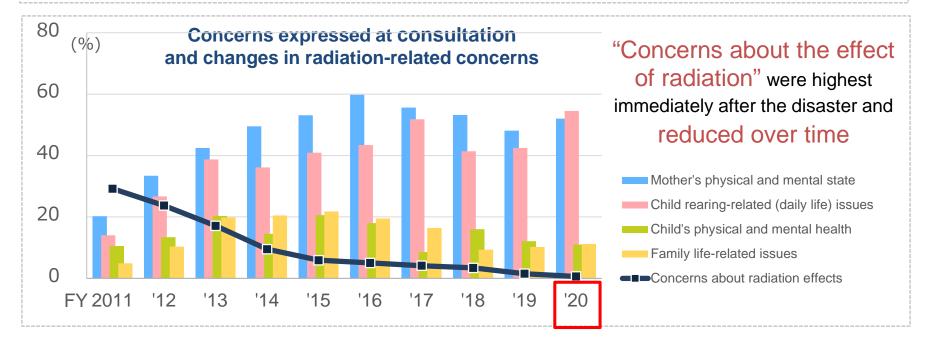
Pregnancy and Birth Survey – Support

Source: 44th meeting of the Oversight Committee for the Fukushima Health Management Survey (May 17, 2022)

Incidence rates of depression needing support

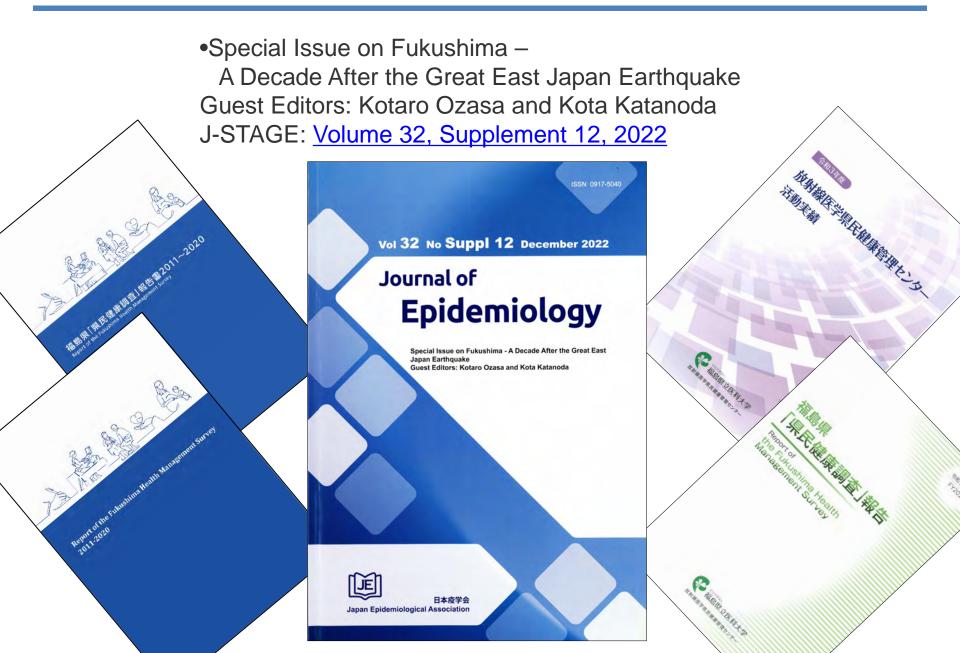
reduced to about half from rates immediately after the disaster.







Disseminating information on the results of the FHMS



2023 Fukushima Medical University International Symposium on the Fukushima Health Management Survey

Thinking Together about Health, Life, and our Future in Fukushima



Fukushima Health Management Survey













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2023 Fukushima Medical University International Symposium on the Fukushima Health Management Survey

Secretariat of International Symposium

Office of Public Communications and International Cooperation, Radiation Medical Science Center for the Fukushima Health Management Survey, Fukushima Medical University