IU.5 Mental Health and Lifestyle

Mental Health and Lifestyle Mental Health and Lifestyle Survey: Purpose

"We will promote the mental and physical health of residents of the Evacuation Areas, etc."

Due to harsh experiences of the Great East Japan Earthquake and the accident at TEPCO's Fukushima Daiichi NPS and subsequent life as evacuees, many people are experiencing anxiety and stress. Accordingly, Fukushima Prefecture commenced the Mental Health and Lifestyle Survey with the aim of accurately understanding the mental and physical problems of residents and meticulously providing each of them with proper health, medical and welfare services.

Prepared based on the material for the 48th Prefectural Oversight Committee Meeting for Fukushima Health Management Survey

Many of the residents whose houses are located in municipalities designated as Evacuation Areas were forced to evacuate and live as evacuees for a prolonged period of time. They have experienced drastic changes in their living environment and have been forced to change their individual lifestyles as well. In order to carefully watch not only the physical disorders but also mental problems of these residents and offer them appropriate support and build a better system therefor, Fukushima Prefecture has been conducting the Mental Health and Lifestyle Survey.

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Mental Health and Lifestyle Survey: Outline (1/2)

[Eligible persons]

- Residents who were registered at any of the covered areas from March 11, 2011, to April 1, 2012 (also after moving out of the covered areas)
- · Residents registered at covered areas as of April 1 of the fiscal year during which the survey is conducted
- · Others, as warranted, based on Basic Survey results, even if the above conditions are not met

[Covered areas]

Hirono Town, Naraha Town, Tomioka Town, Kawauchi Village, Okuma Town, Futaba Town, Namie Town, Katsurao Village, litate Village, Minamisoma City, Tamura City, Kawamata Town, and parts of Date City (areas containing Specific Spots Recommended for Evacuation)

[Method]

Inquiry sheets: Self-reporting responses or responses from guardians submitted by post or online

[Major survey items]

- Present physical and mental status
- Lifestyle (sleep, smoking, and exercise habits)
- Present living conditions (adults)

[Measures for support]

Collected responses are evaluated and analyzed by the staff which include physicians of Fukushima Medical University. If respondents are considered to require counseling and support regarding their mental health and lifestyle, support by phone is provided by the "Mental and Physical Health Support Team," which consists of staff including certified public psychologists, public health nurses, and clinical nurses.

When professional medical care is considered to be required through the support by phone, registered physicians of medical institutions in Fukushima Prefecture (*see p.159 of Vol. 2, "Mental Health and Lifestyle Survey: Outline (2/2)") are introduced.

When continued support is necessary, required support will be discussed and offered in collaboration with the municipality where the person had originally resided before evacuation.

Prepared based on the material for the 48th Prefectural Oversight Committee Meeting for Fukushima Health Management Survey

As in the case of the Comprehensive Health Checkup, the Mental Health and Lifestyle Survey also covers residents who were registered from March 11, 2011, to April 1, 2012, and as of April 1 of the relevant survey year, at any of the municipalities that were designated as Restricted Areas, Deliberate Evacuation Areas or Evacuation-Prepared Areas in Case of Emergency or at any of the areas containing Specific Spots Recommended for Evacuation at the time of the accident at Tokyo Electric Power Company (TEPCO)'s Fukushima Daiichi NPS. Others, as warranted, based on Basic Survey results are also covered, even if the above conditions are not met. Different inquiry sheets are used depending on the age groups, with the aim of taking required measures more appropriately. Children are divided into four age groups: those aged zero to 3; those aged 4 to 6; elementary school students; and junior high school students. People aged 16 or older are categorized as adults.

In addition to questions concerning mental problems, such as depression and anxiety disorder, the survey items include questions about changes in lifestyles, such as diet, sleep, drinking, smoking, and exercise habits.

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Analysis results and advice based thereon are individually sent to people who have submitted inquiry sheets. For respondents who are considered to require professional support as a result of analyzing their responses, certified public psychologists, public health nurses, or clinical nurses, etc. make a phone call to offer support concerning problems with their mental health and lifestyles. If necessary, brochures containing health-related information and contacts for consultation services are provided by mail.

Remarks by people who have received support by phone include, "I am glad that I can confess what I cannot say to my family," or, "I am relieved to know that I can call this number to make consultations whenever I feel depressed."

Regarding those in need of continued support or professional medical care, support is offered in collaboration with municipalities, the Fukushima Center for Disaster Mental Health and registered doctors who can provide professional advice.

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K6¹ is used as a scale to evaluate the levels of mental health of adults (aged 16 or older). Although K6 has been declining (improving), compared with that in FY2011, the results of the FY2021 survey showed a slight increase (worsening). This may be an effect of COVID-19. Compared with the value (3.0%) in a prior study in Japan (Kawakami, 2007), K6 still remains at a high level (bad).

Females tend to show higher values than males.

As a scale to evaluate traumatic stress of adults (aged 16 or older), PCL² is used. PCL declined (improved) significantly, compared with the results of the FY2011 survey, but it was found that nearly 10% of the participants still have strong traumatic stress.

By gender, females generally show higher values than males, and values tend to become higher for older participants.

- K6: Respondents reply to each question of a six-item questionnaire concerning the frequencies with which they felt depressed or anxious during the past 30 days (such as "Have you felt extremely nervous?" or "Have you felt desperate and helpless?"). This survey targets people aged 16 or older to evaluate risks of any mood or anxiety disorder.
- 2. PCL (Post-Traumatic Stress Disorder Checklist): Respondents reply to each question concerning their mental and physical reactions (traumatic stress) during the past 30 days in relation to their disaster experience. This survey also targets people aged 16 or older to evaluate individuals' levels of traumatic stress. Following the suspension for two years after being conducted in FY2011 to FY2013, the survey was conducted in FY2016 to FY2020 using PCL-4, a shortened version, but has been suspended again since FY2021.

160

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Respondents to the FY2021 survey were classified into three groups by their age (16 to 39, 40 to 64, and 65 or older), and a comparison was made concerning their mental health conditions using a measurement scale, K6¹. As a result, it was found that the percentage of people considered to require support based on the K6 scale tends to be higher among younger people.

As a result of classifying those respondents by location of residence at the time of the FY2021 survey and comparing those who resided in Fukushima Prefecture and those who resided outside Fukushima Prefecture, the percentage of adults (aged 16 or older) considered to require support based on the K6 scale tends to be higher among those who resided outside Fukushima Prefecture. Compared with the relevant percentage (3.0%) in a prior study in Japan (Kawakami, 2007), the percentage for those in Fukushima Prefecture was approximately 1.9 times and that for those outside Fukushima Prefecture was approximately 2.8 times higher.

 K6: Respondents reply to each question of a six-item questionnaire concerning the frequencies with which they felt depressed or anxious during the past 30 days (such as "Have you felt extremely nervous?" or "Have you felt desperate and helpless?"). This survey targets people aged 16 or older to evaluate risks of any mood or anxiety disorder.

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Sleep is a significant factor that exerts influence on various chronic diseases such as high blood pressure or diabetes, as well as affecting people's mental health.

The figure shows that about 60% of the respondents are still somewhat unsatisfied with their sleep, while the number of those satisfied with their sleep is gradually increasing. The results of the FY2021 survey show a slight decrease in the percentage of those satisfied with their sleep, compared with the results of the FY2020 survey.

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Compared with the results of the FY2011 survey, elementary school students and junior high school students came to have more chances for exercise in FY2015, showing an improving trend. However, those who almost never exercise increased in FY2020 and FY2021. The frequency of exercise had increased gradually among adults (aged 16 or older) until FY2020, but decreased in FY2021. The impact of COVID-19 may be one of the causes of this decrease in the frequency of exercise in FY 2021.

In particular, exercises are considered to exert a significant influence on the growth of elementary school students and junior high school students, and exercise habits are also very important for adults for improving their mental health and preventing lifestyle-related diseases.

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As an indicator to evaluate children's mental health conditions, SDQ¹ is utilized.

In the FY2021 survey, the percentages of children showing a high SDQ score decreased from those in the FY2011 survey for all categories.

Compared with the percentage of children showing an SDQ score of 16 or over (9.5%) reported in a prior study in Japan (Matsuishi et al., 2008), the percentages of high-risk children decreased both for boys and girls in all categories in the FY2021 survey.

Because the survey also covers children who were born or came to reside in Fukushima Prefecture after the disaster, much of the recent data are for children who did not experience the disaster.

 SDQ (Strengths and Difficulties Questionnaire): Respondents reply to each question of a 25-item questionnaire concerning children's moods and behavior during the past six months (such as "Gives due consideration to other's feelings" or "Is restless and cannot stay still for a long time"). This survey covers those aged 4 to 15 to judge whether they need professional support or not.

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