

Supplement 1-A. Summary of residents' concerns before returning home (preparatory period)

Category	Sub-category	Code
Factors associated with anxiety	Stigma associated with Fukushima	<p>School trips to areas in Fukushima Prefecture where there is little concern about the effects of radiation have been canceled. Even in areas in Fukushima Prefecture where radiation is hardly a concern, rice prices have fallen.</p> <p>Measures should be taken to address the stigma toward and psychological aspects of Fukushima, rather than scientific understanding of radiation.</p>
	Mistrust of experts and the government	<p>Even if experts assert that it is safe, we cannot believe what they say.</p> <p>Even if experts explain that there is no difference between radiation and medical exposure, this cannot be compared with medical treatment, wherein patients voluntarily receive treatment.</p> <p>The number is unreliable because the monitoring posts are located in a different area than our home.</p> <p>There is distrust in the fact that the national standard was changed to 1 mSv to 20 mSv after the accident.</p> <p>Given that the government only explains what it wants to explain unilaterally, it is not convincing.</p> <p>Experts from various universities and research institutes came to survey our area, but there was no explanation for the results.</p>
	Lifestyle concerns specific to children	<p>If possible, I would like to live in a place where the radiation dose is low, but the living environment of my child, including having to change schools, will change.</p> <p>Adults and children have different sensitivities to radiation, but is it all right for children to go back to our hometown?</p> <p>Given that small children touch anything on the ground and put it into their mouths, there is concern that they may be exposed to internal radiation.</p> <p>We are concerned about the extent to which decontamination work has been carried out in areas where children are allowed to travel to and from school.</p> <p>I am worried if the school meals contain radiation.</p> <p>Are the equipment and tools used in the school in our hometown before the accident contaminated? Can't it be used because of contamination?</p>
Factors associated with a sense of security	Sense of security obtained by actual measurement	<p>It was important for residents to check their own radiation doses using dosimeters distributed to them.</p> <p>To deepen our understanding of radiation, it is effective to measure it ourselves.</p> <p>It was reassuring to bring vegetables to the measuring station to confirm the low level of radiation.</p> <p>We need a system that can easily measure the dose of agricultural products when we are concerned about radiation levels.</p>
		<p>By comparing It is important to understand not only the word "safety" but</p>

the numbers, also the changes in the dose before and after decontamination, the sense of the meaning of the current values, and the risks and effects on satisfaction the body. increases

Being part of a community provides a sense of security The way people think about radiation risk often differs (Safe or not), but it is sometimes possible to understand each other's thoughts during certain events and discuss them over time. There is a lot of information about radiation and local areas, but it is easier to receive information from people close to you.

Ensuring the safety of the range of activities of children If schools reopen, it is important to share information with teachers and parents about how decontamination work has been carried out in school routes and how much radiation dose has been reduced.

Supplement 1-B Summary of residents' concerns after returning home (reconstruction period)

Category	Sub-category	Code
Factors associated with anxiety	Anxiety about the Fukushima Nuclear Power Plant	Even now, radioactive materials are coming from the damaged nuclear power plant, and contaminated water may be flowing out. Can we really say that the Fukushima Daiichi Nuclear Power Plant is safe?
	General anxiety about life after returning home	Is it safe to dry laundry and mattresses outside? Can I hang persimmons under the eaves to make <i>hoshigaki</i> (dried persimmon)? Can I use furniture I left behind?
	Questions about the resumption of farming after returning to their hometown	I am concerned about how much radiation I will be exposed to while working in the field. Why is radioactive material detected in certain fruits (e.g., persimmon and yuzu)? When I measured the vegetables, the result was "ND." What does this mean? The rice paddies have been decontaminated, but is there any possibility of contaminated water flowing into them from upstream areas? Why does spraying zeolite reduce the concentration of radioactive cesium in crops? Radioactive cesium accumulates at the bottom of the reservoir, but is it safe to use the water from the reservoir for crop cultivation? Is it okay to compost fallen leaves to produce crops? Is it okay to cultivate shiitake mushrooms from trees caught in the mountains? When will it be ready to ship? If cows are fed only grass produced in Fukushima Prefecture after decontamination, will the milk be contaminated? Given that the staff has left the prefecture, we would like people outside the prefecture to work. What kind of information should we provide?

	Concerns about the use of Satoyama (Traditional Japanese rural landscape)	Will people be exposed to radiation if they make a bonfire with fallen leaves behind the mountain? I feel uneasy about composting fallen leaves from areas that have not been decontaminated. Even now, high levels of radioactive cesium can be detected in wild vegetables.
Information sharing issues	Community friction	The way people perceive radiation (e.g., whether it is safe or dangerous) is often different within communities, but even more so when it comes to children.
	Issues related to information dissemination	What kind of information should be provided in order to have food produced in Fukushima Prefecture eaten within and outside the prefecture? Direct information from a reliable person is reliable.

Supplement 1-C Summary of future concerns

Category	Sub-category	Code
Factors associated with anxiety about the future	Future food and water inspection system in Fukushima	How long will people continue to measure food and drinking water?
		When can we drink drinking water and well water safely?
		Is it possible that spring water containing radioactive substances may flow into shallow wells from forests? How long will internal exposure measurement continue?
Concerns about future food cultures		When will we be able to eat wild vegetables and mushrooms without worrying about radiation?
		Is it acceptable to feed wild vegetables and mushrooms to family members and relatives returning home?
		When will we return to the food culture that existed before the disaster? It is strange to say that eating wild vegetables and mushrooms is self-responsibility?
Issues for future information dissemination		How should we explain the effects of radiation so that people outside Fukushima can work in the local community?

The interview contents of the returnees were classified qualitatively by the following procedure. First, qualitative researcher (lead author) transcribed and coded interviews. We then collected similar code, grouped it into subcategories, and abstracted it into categories. As a final step, in order to examine the validity of the contents of each code and category, we classified them in several steps where the coauthors confirmed the contents.