

Health Effects of Radiation: 5 Themes

Effects on Fetuses and Hereditary Effects

Assessment of the accident at Theme: Tokyo Electric Power Company (TEPCO)'s Fukushima Daiichi NPS

In this section, you can learn about the assessments of the health effects of radiation exposure following the accident at Tokyo Electric Power Company (TEPCO)'s Fukushima Daiichi NPS conducted by international organizations.

Assessment of the	accident at Tokyo Electric Power Company (TEPCO)	's Fukushima Daiichi N
What	are the effects of radiation exposure?	
(i) Assessments by international organizations related to the accident at Tokyo Electric Power Company (TEPCO)'s Fukushima Daiichi NPS		
	Are there problems related to childbirth	?
	ises and hereditary effects	
(ii) Effects on fetuses	P6 (iii) Hereditary P7 effects P7	
	In what ways does radiation affect healt	h2
	enerating health effects	
	(iv) Mechanisms generating P9 health effects	
	How are the risks of radiation perceived?	
	(v) Changes in perception of radiation risks	

Assessment of the accident at Tokyo Electric Power Company (TEPCO)'s Fukushima Daiichi NPS



(i) Assessments by international organizations related to the accident at Tokyo Electric Power Company (TEPCO)'s Fukushima Daiichi NPS

What kind of viewpoints have international organizations expressed on the health effects of radiation exposure resulting from the accident at Tokyo Electric Power Company (TEPCO)'s Fukushima Daiichi NPS?

Assessment of the Effects of Atomic Radiation by the United Nations Scientific Committee (UNSCEAR)

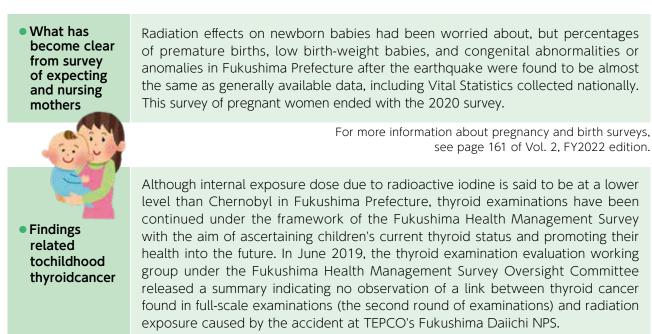
The 2020 and 2021 reports by UNSCEAR evaluate public health effects as follows, based on exposure dose evaluations.

- In the years since the UNSCEAR 2013 Report, there has been no documentation claiming adverse health effects on residents of Fukushima Prefecture directly caused by radiation exposure from the accident at TEPCO's Fukushima Daiichi NPS.
- Acute health effects caused by radiation exposure have not been reported.
- Currently available methods are not expected to be able to demonstrate an increase in irradiation-related incidence rates in future disease statistics.
- It is suggested that identification of an excessive risk of thyroid cancer, inferred from radiation exposure, will be highly unlikely in any of the observed age groups.
- It is suggested that the increase in the incidence of thyroid cancer observed in thyroid examinations following the nuclear accident may have been due to overdiagnosis (i.e., detection of thyroid cancer that would not have been detected without screening and that would not have resulted in symptoms or death during the individuals' lifetimes).

In addition, there has been no confirmation of reliable evidence for radiation exposure-related excessive congenital disorders, stillbirths, premature births, or low birth weight. An increase in the incidence of cardiovascular disease and metabolic abnormalities was observed in persons who evacuated following the accident, but this is believed to be an effect of social and lifestyle changes, and has been ruled to be not due to radiation exposure.

For more information about the UNSCEAR 2013 Report, see page 198 of Vol. 1, FY2022 edition (available in Japanese only).

Source: Fukushima Prefecture resident health survey results



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For more information about surveys related to thyroid cancer in children, see page 144 of Vol. 2, FY2022 edition.