

Exposure of a Group of Evacuees - Chernobyl NPS Accident -



Countries	Number of people (1,000 people)	Average effective dose (mSv)		Average thyroid dose (mGy)
		External exposure	Internal exposure (in organs other than the thyroid)	
Belarus	25	30	6	1,100
Russia	0.19	25	10	440
Ukraine	90	20	10	330

mSv: millisieverts mGy: milligrays

Source: United Nations Scientific Committee on the Effects of Atomic Radiation (UNSCEAR) 2008 Report

Thyroid exposure doses are high for people who were forced to evacuate after the Chernobyl NPS Accident and the average is estimated to be approx. 490 mGy, which was far larger than the average thyroid exposure dose for people who resided outside evacuation areas in the former Soviet Union (approx. 20 mGy) and the average for people residing in other European countries (approx. 1 mGy).

The average thyroid exposure dose for children is estimated to be even higher. One of the major causes is that they drank milk contaminated with I-131 for two to three weeks after the accident.

The effective dose from internal exposure in organs other than the thyroid and from external exposure was approx. 31 mSv on average. The average effective dose was approx. 36 mSv in Belarus, approx. 35 mSv in Russia, and approx. 30 mSv in Ukraine. It is known that the average effective dose is larger in Belarus than in Ukraine and Russia as in the case of the average thyroid exposure dose.

(Related to p.138 of Vol. 1, "Time of Developing Childhood Thyroid Cancer - Chernobyl NPS Accident -")

Included in this reference material on March 31, 2013

Updated on March 31, 2024