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Title	Freedom from Invisible Fears: Chernobyl Legacy in Zhytomyr Oblast in Ukraine
Keywords	
Abstract	<p>This poster shows the authors' observations on Chernobyl legacy in Luhyny District, Zhytomyr Oblast in Ukraine, which is situated 130 km away from Chernobyl Power Plant. The investigation was carried out in October, 2013. Doctors in the hospitals, teachers and students of Luhyny School, public service employees, Mayor of the time of the Chernobyl accident, and some of the leading inhabitants were interviewed. Luhyny School educates 6 to 17-year old 250 students. Within the students there were two leukemia cases in 2011; and 17-year old female student who suffered from muscle sarcoma and 17-year old female student from a thyroid cancer, in 2012. Besides, health difficulties such as disease of circulatory organ were frequently complained by the students. All the students were born after 10 years of the Chernobyl accident, therefore they did not expose to severe early radiation. Thereby, the students might be affected by radiation by the following means.</p> <ol style="list-style-type: none"> <li>1. Genetic mutation of ova or sperm of parents</li> <li>2. Internal radiation due to the radiated matters transformed from the mother's body during the fetal period</li> <li>3. Internal radiation due to the absorption of radiated foodstuffs</li> <li>4. Internal radiation due to the respiration</li> <li>5. External radiation from the environment.</li> </ol> <p>Cesium radiation level of inhabitants of Luhyny District has been measured by whole-body counter in every year. According to the records of the town office, even in nowadays more than 2000 Becquerel of radiation dosage has been found in the half of the adult population in the town. It can be deduced that an adult absorbs 20 Becquerel cesium through foodstuffs everyday. Luhyny School students were continuously internally radiated through the foodstuffs, they have taken everyday. We assume that this internal radiation causes the students' health problems.</p> <p>Finally this poster compares the lessons learnt from Luhyny with the present conditions in Fukushima.</p>