
CHERNOBYL DISASTER - PROMOTION OF FOLLOW-UP STUDIES

Anatoly Romanenko, Vladimir Bebesko¹

Research Centre of Radiation Medicine (Kiev, Ukraine)

Problem of clinically observed effects of irradiation and other damaging agents of Chernobyl accident is analysed in connection with the previous data. Several international and national scientific programs were performed during the 10 years after the accident. Obtained data are extremely useful for the elaboration of the system of radiation emergency medical preparedness and assistance network in Europe. Difficulties in diagnostic, therapeutic and statistical evaluation measures were characteristic for the first years after the accident. Future perspectives must include scientific investigation and practical help for the main groups of irradiated population on the international basis with the wide access to obtained data for the international community.

The analysis of the materials and the circumstances under which they have been received are the basis for determining the following stages in learning the factors of the CPPA influence upon the health conditions of the exposed population: stage 1: 1986 - 1990; stage 2: 1991 - 1992; stage 3: 1993 - 1997

During 1986 - 1990 the investigations were carried out under the circumstances of the USSR within the framework of the Union programmes while special medical centres of the Union subordination, located in Moscow, took part in them. The major part of these investigations had been classified till 1989. To organise and conduct a long-term personal monitoring of people exposed to irradiation as a result of the CPPA the development of All-Union Distributed Registry (AUDR) of the People Exposed to the Irradiation Effect as a Result of the CPPA Disaster was being carried out. It was supposed to include 600 thousand of those suffered.

As a result of the studies of early and middle-term effects some scientific knowledge was obtained:

1. The observation of the health effects of ARS survivors showed the relative effectiveness of medical rehabilitation measures as well as the presence of postponed uncompensated disorders in different systems, mainly in kind of malfunctions of vegetative nervous system, diencephalic syndrome, changes in cellular immunity, digestive diseases, initial signs of myocardial dystrophy and bronchial mucous membranes atrophy

2. Presence of the reactions of disadaptation on the level of nervous, immune and endocrine system was found in population with radiation doses above 0.2 Gy. These reactions were accompanied by the clinical signs of asthenic and asthenovegetative syndromes.

¹ Contributing co-authors: D. Bazyka, A. Kovalenko, L. Lyashenko, D. Belyi, I. Homaziuk, N. Bilko