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## **PSYCHONEUROLOGICAL DISORDERS OF ACUTE RADIATION SYNDROME REMOTE PERIOD**

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In 110 Chernobyl disaster survivors diagnosed with acute radiation syndrome (ARS) the psychoneurological study was performed. According to the karyological analysis data in 37 patients ARS was not confirmed (average summarised doses of relatively even  $\gamma$ - и  $\beta$ - irradiation -  $22,0 \pm 5,0$  cGy); in 38 ones there was ARS of 1st severity degree ( $107,0 \pm 12,0$  cGy), and in 35 ones - ARS of 2nd and 3th severity degrees ( $269,0 \pm 20,0$  cGy). The ARS neurological consequences are progressive microorganic symptoms of stem-diencephalon injury accompanied by expressed autonomous nervous system disorders as well as sensory disturbances preliminary of extralemnisc type. It was established cerebrovascular pathology and vertebral osteochondrosis rate increasing and at the same time vegetative dystonia significant decreasing. It is possible to suppose about the transformation of functional disorders into enduring organic ones. In the ARS remote period mental health disorders are characterised by the abnormal psychoorganic enduring personal changes (pathological personality development) of apathy, paranoid, and, rarely, explosion types as well as endogenous-like psychoorganic process that rate is in proportion to the ARS heaviness. Brain stem evoked potentials registration shows the functional status disorders of nonspecific brain stem structures (reticular formation). Short- and longlatent somato-sensory evoked potential analysis testify the somato-sensory information perception and processing slowing on the all somato-sensory afferent system levels, but especially on the subcortical-cortical level. The described neurophysiological peculiarities reflect specific parts of afferent systems oppression and nonspecific ones irritation in the persons who had ARS. The model of brain functional status changes following radiation influence was creating on the base of psychophysiological indices. According to the EEG and evoked potentials registration the dyscirculatory and toxic-metabolic organic CNS injury after irradiation was established in the ARS remote consequences period.