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PAPER TITLE  *The Chernobyl radiation risks: theoretical estimation and actual data (1986-1995)*

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ABSTRACT (See instructions overleaf)
    The Chernobyl radiation risks: theoretical estimates and actual data
                        (1986-1995)

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Immediately after the Chernobyl accident the Registry of exposed persons
had been established in the former USSR. At present time the National
Chernobyl Registry of Russia set up at the Medical Radiological Research
Centre of RAMS, Obninsk, is working. Medical and dosimetric information on
435 thousand of individuals exposed to radiation including 160 thousand of
liquidators is kept at the Registry.

Analysis of demographic and dosimetric information of the Registry related
to liquidators allowed us to estimate the attributive risk of mortality
caused by malignant tumors as 2.8%. This estimation has been confirmed by
available actual data of the Registry for the period from 1986 to 1995. At
the same time we have established that there is the statistically
significant relationship between the dose of exposure and incidence rate of
malignant tumors for liquidators.

By results of epidemiological analysis of thyroid cancer cases performed in
Bryansk Oblast by the "case-control" technology it was possible to estimate
the relative risk of this type of diseases as 7.15 (1.52; 33.8) at the dose
of 1 Gy.

The results obtained allow us to say that theoretically expected estimates
and actual data correlate well.