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PAPER TITLE ESTIMATION OF SOMATIC CELL MUTATION IN YUGOSLAV WORKERS
INTERNALLY CONTAMINATED BY RADIONUCLIDES AS A CONSEQUENCE OF CHERNOBYL
ACCIDENT

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MAJOR SCIENTIFIC TOPIC NUMBER 4.3.... (see page 7)

ABSTRACT (See instructions overleaf)

The paper deals with absorbed doses determined on the basis of chromosomal aberrations in lymphocytes of 139 examinees, being residents of Zhlobyn area at the time of Chernobyl accident. They remained continuously there for another at least three months. Chromosomal aberrations in 25 230 cells been scored and by comparison with control subjects, the dicentric plus ring and excess acentric fragment frequencies are higher for these persons who worked in Zhlobyn zone.

Obtained results were compared with results of surface and human contamination monitoring program. Results of urine bioassay and whole body counter measurements are presented as well.

The results obtained proved necessity of defining criteria for further bio-medical surveillance.