According to the UNSCEAR (United Nations Scientific Committee on the Effects of Atomic Radiation) Report (2008), in our days, 3600 million diagnostic X-ray procedures are performed yearly all over the world. X-ray diagnostics is indispensable part of modern medicine. The benefit of a justified X-ray procedure is much higher, than the risk connected to application of ionizing radiation. However, any exposures arising from unjustified X-ray procedures are prohibited. Several research projects are coordinated and sponsored by the EU, the International Atomic Energy Agency and other international organizations in the following fields: improve the methods of measure and calculation of patient exposures, national and international surveys of patient doses, optimization of patient exposures. In Hungary, these kinds of research activities are performed by the National Research Institute for Radiobiology and Radiohygiene. Ferenc Giczi is an active participant of the research team for years.

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**REFERENCES:**