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PAPER TITLE Analysis of diagnostic X-ray units in Poland concering the exposure of patients to ionizing radiation

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ABSTRACT (See instructions overleaf)

The diagnostic X-ray units in Poland were subjected to the analysis. The air-kerma on the X-ray table was measured for the X-ray parameters used routinely during lumbo-sacral spine radiography of standard patient. The measurements of air-kerma were performed using TLD made of lithium-fluoride.

The dose received by patients in different X-ray departments can be more then two orders of magnitude from 0,14 mGy up to 72,11 mGy, for the same X-ray examination. The dose can be significantly reduced if the cassets with amplyfying foils made from components of rare earth are used.