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## The effect of KOH on Electron Paramagnetic Resonance signals measured in irradiated bone.

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Electron Paramagnetic Resonance (EPR) dosimetry is based on ex vivo detection of radicals generated by ionizing radiation such tissues as tooth enamel and bone. This method was proved to be applicable in dosimetry of victims in radiation accidents. However, procedures regarding technical conditions of a reliable dosimetry in bone are still under study. The spectra of irradiated bones consist of an asymmetric component assigned to CO2- radicals generated in hydroxyapatite and a second one, symmetrical component, the origin of which is assigned to the bone's organic content. The intensity of the asymmetric component was shown to be stable in time in both dry and water-soaked samples and is used for dosimetry.

The aim of this study was to investigate the possibility of reduction of the "non-dosimetric" spectral con

The EPR study were performed on samples treated by 2M KOH and intensities of the two spectral compon-It is concluded, that the KOH hydrolysis of irradiated bone considerably reduces the spectral components

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