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## MEASUREMENT OF BETA EMITTING RADIONUCLIDES IN DOSE CALIBRATORS ROUTINELY USED IN NUCEAR MEDICINE DEPARTMENTS

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Radionuclides for diagnostics purposes like Tc-99m, Tl-201, Ga-67 and In-111 are measured by using ionization type of dose calibrators. Therapeutic radionuclides, which emit both beta and gamma rays are detected by the same type of dose calibrators. Other therapeutic products like Y-90, P-32 and Sr-89 are pure beta emitters and they are gaining wider utility because various new therapy radiopharmaceuticals are being developed. The type of container material, like glass or plastic, may seriously affect radioactivity measurement due to attenuation, Since it is crucial to give the exact amount of radioactivity to the patient for therapy purposes, dedicated dose calibrators are specially manufactured for the measurement of these radionuclides. But these measuring systems are not widely available in nuclear medicine centers where therapy is applied to the patient. It is a known fact that dose calibrators routinely used in nuclear medicine departments can be calibrated for vials and syringes using standard sources of the same radioisotope. The method of calibration of Y-90 measurement for two ionization chamber dose calibrators available in the institute will be summarized in this presentation.



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## ESTIMATION OF CANCEROLYTIC PROPERTIES OF THIONINS FROM PLANTS SEEDS BY INCLUSION OF C<sup>14</sup> – THYMIDINE IN TUMORAL CELLS

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It has been earlier shown that cysteine rich peptides - thionins from seeds of various plants possess expressed fungitoxic activity. It is connected to influence of thionins on cellular membranes of fungi. It was possible to assume that the substances showing cytotoxic activity will be active in relation to tumoral cells. We isolated peptide fractions from seeds bamia (*Hibiscus esculentus*), kenaf (*Hibiscus cannabinus*), abutilon (*Abutilon theophrasti*), euphorbia (*Euphorbia virgata*), palma Christi (*Ricinus communis*) and horse sorrel (*Rumex confertus*) and studied their antineoplastic and fungitoxic activity.