Internal dose assessment: Analysis of the in vivo measurements results for last 10 years at IPEN

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Objective: The aim of this work is to provide an overview of the internal dose assessed and recorded during last 10 years.
Introduction: The internal monitoring programme is applied for the occupationally exposed workers that develop activities with unsealed sources in several facilities at Institute of Nuclear Energy and Research (IPEN). The main facilities are the radioisotope production plant, the radiopharmacy laboratories, the cyclotron and reactor installations.
Methodology: The data obtained relates the exposures from authorized practices during normal operation, including some occurrence of small incidents. The in vivo monitoring laboratory has carried out routine measurement over the years to evaluate and to registry the doses received by incorporation.
Results and conclusion: The results are presented in terms of the dose distribution analysis according the workplaces, type of handled radionuclides and the activities accomplished by the workers. This study has shown an adequate protection against risks from radionuclide intakes.

Topics: Dosimetry and Nuclear Instrumentation