

Application of IDEAS Guidelines: the IDEAS/IAEA Intercomparison Exercise on Internal Dose Assessment

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As part of the EU Fifth Framework Programme IDEAS project 'General Guidelines for the Evaluation of Incorporation Monitoring Data', and in collaboration with the International Atomic Energy Agency, a new intercomparison exercise for the assessment of doses from intakes of radionuclides was organised. Several cases were selected, to cover a wide range of practices in the nuclear fuel cycle and medical applications. The cases were: (1) acute intake of HTO, (2) acute inhalation of the fission products ¹³⁷Cs and ⁹⁰Sr, (3) acute inhalation of ⁶⁰Co, (4) repeated intakes of ¹³¹I, (5) intake of enriched uranium and (6) single intake of Pu isotopes and ²⁴¹Am. This intercomparison exercise especially focused on the effect of the Guidelines proposed by the IDEAS project for harmonisation of internal dosimetry.

USTUR-0447A-17