

The Distribution of Thorotrast in the Bone Marrow: A Study Using Human and Monkey Tissues

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Studies have been undertaken to determine the distribution of Thorotrast within the human and monkey bone marrow following their intra-vascular injection. The aim of the studies was to determine the homogeneity of the deposits at the whole organ level and at the microscopic level and to assess the implications of any variations in the concentration on the validity of Thorotrast-derived risk estimates for leukemia. The results demonstrate that at the tissue level, and at the microscopic level at early times after injection, Thorotrast concentrations are very uniform. However, at later times local aggregations of Thorotrast-laden cells were conspicuous. The dosimetric implications are discussed. Thorotrast was essentially absent from fatty yellow bone marrow.

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