

Teeth as an Indicator of Total Skeletal Actinide

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The actinide content of teeth, both in terms of total content and concentration, from several whole body donors to the United States Transuranium and Uranium Registries was compared with the total skeletal content observed in these same cases. No correlation was found between either the total actinide content in the teeth and the total content in the skeleton, or between the concentration in the teeth and the concentration in the skeleton as a whole. This indicates that teeth do not provide a reliable means of estimating the total skeletal content or average concentration of plutonium or americium and thus cannot be used as a surrogate for the skeletal burden of actinide.

USTUR-0059-96