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# Technetium Tc-99m Medronate

National Cancer Institute

## Source

National Cancer Institute. *Technetium Tc-99m Medronate*. NCI Thesaurus. Code C67060.

A radiopharmaceutical containing methylene diphosphonate (medronate; MDP) complexed with the gamma-emitting radionuclide technetium Tc 99m with radioisotopic activity and hydroxyapatite affinity. Upon intravenous administration, skeletal uptake of technetium Tc 99m methylene diphosphonate occurs as a function of skeletal blood flow and osteogenic activity. The MDP moiety of this agent has affinity for hydroxyapatite crystals in bone with abnormal accumulation at sites with increased osteoid mineralization; labeling of MDP with Tc 99m allows scintigraphic imaging of areas of abnormal osteogenesis associated with malignant bone lesions.