

# A Review on Application of Radioisotopes in Cancer Therapy

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**Abstract:** Radioisotope therapy is a procedure where liquid radiation, such as Lutathera, along with amino acids to protect the kidneys, are administered through an infusion. The liquid radiation targets cancerous cells while causing minimal damage to surrounding healthy cells. Radiopharmaceutical are radioactive isotopes which are used to diagnose or work as a cancer therapy. Radioactive isotopes have unstable nucleus that decays or emit excess radiation or energy until the nucleus becomes stable. To date, researchers have discovered radioactive substances that can target various cancer like thyroid cancer, lymphoma, ovarian cancer, brain cancer or cancer which widespread to the bones. In the thyroid cancer the cause is unknown or poorly understood but may involve the genetic and environmental factors.

**Keywords:** Radioisotope therapy