

EXAMPLES OF RADIOPHARMACEUTICALS IN CLINICAL USE IN THE U.S.

Radioactive Isotope	Diagnostic Imaging Compound	Indication	Administration
Metastable technetium-99 (Tc-99m)	Tc-99m methylene diphosphonate	Skeletal imaging – metastasis, osteomyelitis, fracture	Intravenous
Tc-99m	Tc-99m macro aggregated albumin	Lung imaging – acute pulmonary emboli	Intravenous
Tc-99m	Tc-99m hepatic iminodiacetic acid	Biliary system imaging – acute cholecystitis	Intravenous
Fluorine-18 (F-18)	F-18 fluorodeoxyglucose	Tumor imaging	Intravenous
Gallium-68 (Ga-68)	Ga-68 prostate-specific membrane antigen	Prostate cancer imaging	Intravenous
Ga-68	Ga-68 dotatate	Neuroendocrine tumor imaging	Intravenous
Radioactive Isotope	Therapeutic Agent	Indication	Administration
I-131	I-131	Hyperthyroidism, thyroid cancer	Oral
Lutetium-177 (Lu-177)	Lu-177 dotatate	Neuroendocrine tumors	Intravenous
Yttrium-90 (Y-90)	Y-90 ibritumomab tiuxetan	Non-Hodgkin lymphoma	Intravenous

SOURCE: Barbara Hertz