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iodine 125 125 i is a radioisotope of iodine which has uses in biological assays nuclear medicine imaging and in radiation therapy as brachytherapy to treat a number of conditions including prostate cancer uveal melanomas and brain tumors 125i is a low energy gamma emitter that does not usually present an external exposure hazard however due to its affinity for the thyroid gland it is an internal exposure hazard about 30 of ingested radioiodine concentrates in the thyroid with an effective half life of about six weeks radioactive iodine 125 i 125 is the most widely used radioactive sealed source for interstitial permanent brachytherapy bt bt has the exceptional ability to deliver extremely high doses that external beam radiotherapy ebrt could never achieve within treated lesions with the added benefit that doses drop off rapidly outside the target properties and data of the isotope 125 i content general data radioactive decay parent nuclides isotones und isobares iodine isotopes personnel using i 125 in hundreds of microcuries or more must wear double gloves and should change gloves as soon as the gloves become contaminated iodinations must be performed under ehs surveillance and thyroid count bioassays must be performed following an iodination waste disposal solid wastes through the onsite decay in storage program 125 i 103 pd and cesium 131 131 cs are currently used for prostate brachytherapy the sources are the same size 4 5 0 8 mm but appear differently on radiographs depending on the manufacturer s radiographic marker inside the titanium capsule iodine 125 125 i is used primarily as a low dose rate ldr brachytherapy source it s half life 59 4 days and low photon energy 28kev allows for medium term storage with minimal shielding 125 i decays solely via electron capture to an excited state of tellurium 125 125 te radioactive iodine 125 i 125 is the most widely used radioactive sealed source for interstitial permanent brachytherapy bt iodine 125 is a commonly used radionuclide with a half life of 60 days emitting gamma rays with a maximum energy of 0 035 mev million electron volts see appendix a for the decay rate information for i 125 concerns the major concern with using i 125 is radiation exposure in air over an unshielded vial air 443 feet or 135m 99 reduction plexiglass lucite 0 5 mm 99 reduction annual intake limit inhalation 60 μ ci ingestion 40 μ ci detection portable survey meters geiger mueller with nai scintillation probe wipe test lsc for removable contamination shielding use 3 mm thick lead for μ ci quantities dosimeter monitoring iodine 125 information and safety sheet i 125 is both an internal and external hazard to the body external hazards are caused by contamination poor work habits and improper shielding common internal routes of entry are inhalation ingestion skin absorption and puncture wounds to the skin iodine 125 i human albumin is used to determine a person s blood volume for this purpose a defined amount of radioactivity in form of this drug is injected into a vein and blood samples are drawn from a different body location after five and fifteen minutes with ultra low fuel consumption around 25 km l and a generous 12 litre fuel tank the piaggio mp3 touring 125 boasts outstanding range key specs single cylinder four stroke 7 6 cu in 124 cm³ 10 hp 10 26 ps 8 kw automatic 251 lbs 114 0 kg how much horsepower does a vespa lx 125 i e has the vespa lx 125 i e has 10 26 hp 7 5 kw 8250 rpm how tall seat height is a vespa lx 125 i e key specs single cylinder four stroke 7 6 cu in 124 cm³ automatic how much does a aprilia atlantic 125 i e weighs the aprilia atlantic 125 i e weighs 199 0 kg 438 7 pounds how tall seat height is a aprilia atlantic 125 i e the aprilia atlantic 125 i e seat height is 770 mm 30 3 inches if adjustable lowest setting the results obtained by lever et al showed that 125 i e 1 was a selective σ 1 receptor antagonist that exhibited properties amenable to in vitro and in vivo studies with possible extension to spect using iodine 123 1 related resource links the and sequences of sigma 1 σ 1 receptors in pubchem go to synthesis pubmed 1 introduction small cell lung cancer is a very highly malignant cancer fast to grow easy and early to disseminate easy to relapse sensitive to both chemotherapy and radiotherapy but has bad prognosis the 5 years survival rate is only 7 1 i the employee s permanent abode throughout the period of employment is in the united states ii the employee is not a national of a country to which exports are prohibited pursuant to 126 1 of this

subchapter and the results of this multidisciplinary study can function as a clinician s guide for determining the preferred surgical localization technique for breast conserving surgery in pregnant women with breast cancer and its timing without avoiding the use of a 125 i seed in the case of a key employee within the meaning of section 416 i 1 subsection a shall not apply to any benefit attributable to a plan for which the qualified benefits provided to key employees exceed 25 percent of the aggregate of such benefits provided for all employees under the plan

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