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Indium In 111 pentetreotide

Also called: OctreoScan; 111In-pentetreotide; 111In-DTPA-octreotide; Indium-111 pentetreotide

What it is

An indium-111-labelled octreotide for scintigraphic imaging of neuroendocrine tumours, approved as the OctreoScan kit (1994).

Approval status

FDA Approved. Approved in the US as OctreoScan (kit for preparation of indium In 111 pentetreotide), NDA 020314, on June 2, 1994 (Drugs@FDA via openFDA and the OctreoScan label effective February 21, 2022, read October 3, 2026).

Dosing, as printed in the page's Recommended Dosing box

Manufacturer's recommended dosing (FDA label)

From the prescribing information. Other doses studied, if any, are in the full dosing data below.

Protocol and source	Dose	Frequency	Duration	Route
Label: planar imaging **[Approved label]** OctreoScan (kit for the preparation of indium In-111 pentetreotide) US prescribing information (Curium; DailyMed set 93d8f3b2, effective February 21, 2022)	111 MBq (3 mCi)	Single injection	One scan series	Intravenous
Label: SPECT imaging **[Approved label]** OctreoScan (kit for the preparation of indium In-111 pentetreotide) US prescribing information (Curium; DailyMed set 93d8f3b2, effective February 21, 2022)	222 MBq (6 mCi)	Single injection	One scan series	Intravenous

Educational information, not medical advice. Each dose above is tagged with its source: an approved label, a published human study, animal data, or amounts reported by users. None is a recommendation for you. An unapproved compound has no established safe or effective human dose, and products sold for "research use only" are not made or tested for people. Talk to a doctor before acting on anything on this site, including before you start, stop or change any medicine or dose.

Key human evidence

The first 3 of the 11 human studies carded on the page (12 study cards in all):

• **The Rotterdam experience in over 1,000 patients** (Human, 1993). Scintigraphy with indium-111 DTPA-octreotide located tumours rich in somatostatin receptors and also granulomas and autoimmune processes; a positive scan often predicted a favourable response to octreotide, and the authors proposed radiolabelled peptides for therapy. **PMID 8404961**

• **Pulmonary carcinoid** (Human, 2015). In 81 patients, SPECT/CT with indium-111 pentetreotide was positive in 50 of 55 with disease, with sensitivity of 96% against 87.5% for contrast CT and specificity of 92% against 97%. **PMID 26124388**

• **Bronchial carcinoids** (Human, 2003). In 28 patients, 71% had OctreoScan-positive tumours, including 8 of 9 with carcinoid syndrome; the primary was positive in 13 of 16, and the scan found one primary that CT missed. **PMID 14974924**

Interactions

From the FDA label's drug-interaction section (Curium. OCTREOSCAN (kit for indium In 111 pentetreotide) US prescribing information, precautions. DailyMed version of February 21, 2022, read October 3, 2026):

• With octreotide (therapeutic doses): may reduce scan sensitivity; consider temporarily suspending octreotide before the scan and monitor for withdrawal (FDA label)

Side effects and cautions

Reported side effects	Contraindications and cautions
• Hypersensitivity reactions, rarely angioedema or anaphylaxis • Risk of hypoglycaemia in people with insulinoma	• Intravenous glucose line advised if insulinoma is suspected • Hydration and a mild laxative to reduce radiation dose

Five questions to ask

1. Is Indium In 111 pentetreotide right for me, and is the labelled dose on this sheet right for my weight, age, kidney and liver function?
2. Here are the medicines and supplements I take. Do any of them interact with Indium In 111 pentetreotide? This sheet lists the interactions on record.
3. Which side effects should make me stop and call you, for example hypersensitivity reactions?
4. Do any of the cautions on this sheet apply to me, such as: Intravenous glucose line advised if insulinoma is suspected?
5. What should we check before I start and while I am on it (blood tests, blood pressure, weight), and how often?

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