

# Octreotide scan

An [octreotide](#) scan or octreoscan is a type of [scintigraphy](#) used to find carcinoid, pancreatic neuroendocrine tumors, and to localize sarcoidosis. It is also called somatostatin receptor scintigraphy (SRS). Octreotide, a drug similar to somatostatin, is radiolabeled with indium-111,[1] and is injected into a vein and travels through the bloodstream. The radioactive octreotide attaches to tumor cells that have receptors for somatostatin. A gamma camera detects the radioactive octreotide and makes pictures showing where the tumor cells are in the body.

Octreotide scanning is reported to have a sensitivity between 75% and 100% for detecting pancreatic neuroendocrine tumors.

## Indications

For [acromegaly](#): [SPECT](#) imaging 4 and 24 hours after injection with 6.5 [mCi](#) of [indium-111](#) OctreoScan, a [somatostatin receptor](#) imaging agent.

An octreotide scan may be used to locate suspected primary neuroendocrine tumours (NET) or for follow-up or staging after treatment.

## Procedure

The <sup>111</sup>In-pentetreotide radiopharmaceutical is prepared from a kit in a radiopharmacy. Pentetreotide is a DTPA conjugate of octreotide.

Approximately 200 megabecquerels of Indium-111 is injected intravenously. Imaging takes place 24 hours after injection, but may also be carried out at 4 and 48 hours.

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Last update: **2024/06/07 02:50**

