

Octreotide for Acromegaly

Octreotide is the only analog currently available for clinical use in the treatment of [acromegaly](#) in the [United States](#). Lanreotide has been used extensively in Europe for the treatment of acromegaly.

Octreotide is 45 times more potent at suppressing pituitary GH secretion than native somatostatin-14¹⁾.

Octreotide is a mature drug with a consolidated favorable benefit versus risks profile in the treatment of acromegaly²⁾.

Using standard benchmarks for cost-effectiveness in the US (\$100,000/QALY), preoperative octreotide therapy followed by surgery may not be cost-effective compared to direct surgery for patients with growth-hormone secreting pituitary neuroendocrine tumors but the result is highly sensitive to initial treatment failure and duration of preoperative treatment³⁾

¹⁾

Bauer W, Briner U, Doepfner W, Haller R, Huguenin R, Marbach P, Petcher TJ, Pless. SMS 201-995: a very potent and selective octapeptide analogue of somatostatin with prolonged action. Life Sci. 1982 Sep 13;31(11):1133-40. doi: 10.1016/0024-3205(82)90087-x. PMID: 6128648.

²⁾

Giustina A, Karamouzis I, Patelli I, Mazziotti G. Octreotide for acromegaly treatment: a reappraisal. Expert Opin Pharmacother. 2013 Dec;14(17):2433-47. doi: 10.1517/14656566.2013.847090. Epub 2013 Oct 14. PMID: 24124691.

³⁾

Caulley L, Krijkamp E, Doyle MA, Thavorn K, Alkherayf F, Sahlollbey N, Dong SX, Quinn J, Johnson-Obaseki S, Schramm D, Kilty SJ, Hunink MGM. Cost-effectiveness of direct surgery versus preoperative octreotide therapy for growth-hormone secreting pituitary neuroendocrine tumors. Pituitary. 2022 Aug 27. doi: 10.1007/s11102-022-01270-8. Epub ahead of print. PMID: 36030360.

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