



# SmartPA Criteria Proposal

<b>Drug/Drug Class:</b>	Somatostatin Analogs PDL Edit
<b>First Implementation Date:</b>	April 1, 2021
<b>Revised Date:</b>	N/A
<b>Prepared For:</b>	MO HealthNet
<b>Prepared By:</b>	MO HealthNet/Conduent
<b>Criteria Status:</b>	<input type="checkbox"/> Existing Criteria <input type="checkbox"/> Revision of Existing Criteria <input checked="" type="checkbox"/> New Criteria

## Executive Summary

**Purpose:** The MO HealthNet Pharmacy Program will implement a state-specific preferred drug list.

**Why Issue Selected:** Somatostatin, also known as growth inhibiting hormone, is a cyclic peptide hormone that is produced to the highest extent within the gastrointestinal tract, islets of Langerhans within the pancreas, and the nervous system. Somatostatin functions to inhibit the secretion of various hormones including growth hormone, prolactin, vasoactive intestinal peptide, glucagon, thyroid-stimulating hormone, and insulin. By binding to and activating five distinct G-protein coupled receptors (GPCR), somatostatin decreases intracellular cyclic AMP and calcium and increases outward potassium currents, the net effect of which is a decrease in hormone secretion within the target tissue.

Somatostatin analogs which mimic the action of endogenous somatostatin have been available since the 1980's and are now used to treat a variety of conditions. Octreotide, has shown to have a higher affinity than natural somatostatin for the sst<sub>2</sub> GPCR subtype which predominates in neuroendocrine tumors; this led to the approval of products such as Sandostatin<sup>®</sup>, Sandostatin<sup>®</sup> LAR Depot, and Somatuline<sup>®</sup> Depot for use in adult patients with diarrhea or flushing associated with vasoactive intestinal peptide tumors and gastroenteropancreatic neuroendocrine tumors. Additional indications include the treatment of carcinoid syndrome as well as acromegaly, a disorder resulting from excess growth hormone production.

Somatuline<sup>®</sup> Depot (lanreotide), approved in 2007, was developed to create a longer acting, pre-filled product and formulated to allow for easier administration as a deep subcutaneous injection. Most recently, in June 2020, Mycapssa<sup>®</sup> became the first FDA approved oral somatostatin analog. Whereas all other products are required to be administered by a healthcare provider via intravenous infusion, subcutaneous or intramuscular injection, Mycapssa delayed-release oral capsules allow for patient self-administration. Prior to initiating any long-acting somatostatin products, patients must have responded to and tolerated prior treatment with octreotide (or lanreotide in the case of Mycapssa) which requires three times daily injections for a minimum of two weeks.

Total program savings for the PDL classes will be regularly reviewed.

Program-Specific Information:	<b>Preferred Agents</b>	<b>Non-Preferred Agents</b>
	<ul style="list-style-type: none"> <li>• Octreotide</li> <li>• Sandostatin® LAR Depot</li> </ul>	<ul style="list-style-type: none"> <li>• Bynfezia Pen™</li> <li>• Mycapssa®</li> <li>• Sandostatin®</li> <li>• Somatuline® Depot</li> </ul>

Type of Criteria:  Increased risk of ADE  Preferred Drug List  
 Appropriate Indications  Clinical Edit

Data Sources:  Only Administrative Databases  Databases + Prescriber-Supplied

## Setting & Population

- Drug class for review: Somatostatin Analogs
- Age range: All appropriate MO HealthNet participants

## Approval Criteria

- Documented compliance on current therapy regimen **OR**
- Participant aged 18 years of age or older **AND**
- Failure to achieve desired therapeutic outcomes with trial of 2 preferred agents
  - Documented trial period of preferred agents **OR**
  - Documented ADE/ADR to preferred agents
- For Somatuline Depot: Clinical Consultant Review required

## Denial Criteria

- Lack of adequate trial on required preferred agents
- Therapy will be denied if all approval criteria are not met
- Claim exceeds maximum dosing limitations for the following:

Drug Description	Generic Equivalent	Max Dosing Limitation
MYCAPSSA 20 MG DR CAPSULE	OCTREOTIDE	4 capsules per day

## Required Documentation

Laboratory Results:  Progress Notes:   
 MedWatch Form:  Other:

## Disposition of Edit

Denial: Exception Code "0160" (Preferred Drug List)  
 Rule Type: PDL

## Default Approval Period

1 year

## References

1. MYCAPSSA® (octreotide) [package insert]. Scotland, UK: MW Encap Ltd; June 2020.
2. SANDOSTATIN® LAR DEPOT (octreotide acetate) [package insert]. East Hanover, NJ: Novartis Pharmaceuticals Corporation; April 2019.
3. SOMATULINE® DEPOT (lanreotide) [package insert]. Cambridge, MA: Ipsen Biopharmaceuticals, Inc; June 2019.
4. Wolin, Edward M. The Expanding Role of Somatostatin Analogs in the Management of Neuroendocrine Tumors. *Gastrointestinal Cancer Research*. 2012; 5(5):161-168.
5. O'toole, Timothy J, Shama, Sandeep. Physiology, Somatostatin. StatPearls Publishing. 2020. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK538327/>.
6. Evidence-Based Medicine and Fiscal Analysis: "Somatostatin Analogues – Therapeutic Class Review", Conduent Business Services, L.L.C., Richmond, VA; October 2020.
7. Evidence-Based Medicine Analysis: "Somatostatin Agents", UMKC-DIC; October 2020.