

**Coding Implications** 

**Revision Log** 

# Clinical Policy: Urinary Incontinence Devices and Treatments

Reference Number: LA.CP.MP.142c Date of Last Revision: 07/23

# See <u>Important Reminder</u> at the end of this policy for important regulatory and legal information.

#### Description

Sacral neuromodulation (SNM) or sacral nerve stimulation (SNS) refers to stimulation of nerves that innervate the bladder and pelvic floor to treat lower urinary tract dysfunction. SNS involves both a temporary test stimulation to determine if an implantable stimulator would be effective, and a permanent implantation in appropriate candidates.

Urethral bulking agents (UBAs) are injectable substances used to increase tissue bulk, which can be injected periurethrally to treat urinary incontinence. The U.S. Food and Drug Administration (FDA) has approved several bulking agent products for treating urinary incontinence.<sup>1,2</sup>

#### Policy/Criteria

- **I.** It is the policy of Louisiana Healthcare Connections that a *trial* of Sacral neuromodulation (SNM) is **medically necessary** to treat lower urinary tract dysfunction when all of the following criteria are met:
  - A. Diagnosis is non-obstructive urinary retention or overactive bladder;
  - B. Symptoms of incontinence, urgency/frequency, or urinary retention have been present for at least 12 months and have resulted in significant disability, such as the limited ability to work or participate in activities outside of the home;
  - C. Symptoms are not related to a neurologic condition;
  - D. Failure of conservative measures, one of the following:
    - 1. For urgency/frequency or incontinence, bladder training, pelvic floor physical therapy with biofeedback, and pharmacologic treatment;
    - 2. For non-obstructive urinary retention, intermittent self-catheterization, unless not well-tolerated, and pharmacologic treatment.
- **II.** It is the policy of Louisiana Healthcare Connections that *permanent placement* of SNM is **medically necessary** to treat lower urinary tract dysfunction when both of the following criteria are met:
  - A. Criteria in section I are met;
  - **B.** A percutaneous stimulation test provided a 50% reduction in incontinence, retention, or urgency/frequency symptoms prior to permanent device implantation.
- **III.** It is the policy of Louisiana Healthcare Connections that injection of United States Food and Drug Administration (FDA) approved urethral bulking agents (UBA) is **medically necessary** when all of the following criteria are met:
  - A. Diagnosis of persistent or recurrent stress urinary incontinence due to one of the following:
    - 1. Intrinsic sphincter deficiency;
    - 2. Post-bladder support surgery;
    - 3. Post-traumatic or surgical injury;



- B. Conservative management such as Kegel exercises, biofeedback, electrical stimulation, and pharmacotherapies have failed;
- C. Patient is unable to tolerate surgery or does not wish to have surgery.

\*A recurrence of incontinence following a successful treatment series (i.e., 6 to 12 months previously), may benefit from additional treatments.<sup>3</sup>

**IV.** It is the policy of Louisiana Healthcare Connections that there is insufficient evidence in the published peer-reviewed literature to support the use of UBA injection of autologous fat, non-FDA approved procedures, and any other circumstances than those specified above.

#### Background

The three major categories of treatment for urinary incontinence are behavioral, pharmacologic and surgical. The first choice should be the least invasive treatment with the fewest potential adverse complications for the patient. Before treatment begins, a complete evaluation and appropriate urodynamic testing should be completed.

#### Sacral neuromodulation (SNM)

SNM, a minimally invasive form of electrical stimulation, is delivered via the InterStim system. This implantable system involves chronic modulation of the S3 and, less frequently, the S4 nerve via a transforaminal route. A wire lead in the foramen is connected to a stimulation device. Modulation implies that the therapy is thought to act indirectly, via a central afferent mechanism, targeting reflex centers in the spinal cord and pons, influencing reflexes between the bladder, urethral sphincter, and pelvic floor. Stimulation implies a more direct effect on efferent nerves, as in functional electrical stimulation.

A distinct advantage of SNM is that it is tested for potential success prior to surgical implantation of a permanent device. The evaluation gives patients and physicians an opportunity to find out in as few as 3 to 7 days whether adequate symptom reduction is achieved. The most common adverse events experienced during clinical studies of patients with SNM included pain at implant sites, new pain, lead migration, infection, technical or device problems, adverse change in bowel or voiding function, and undesirable stimulation or sensations. Any of these may require additional surgery or cause return of symptoms.

In the United States, SNM is approved for the treatment of nonobstructive urinary retention. Success rates in general are not as promising as for urgency urinary incontinence and overactive bladder, but it is reasonable to try prior to more invasive and permanent solutions.<sup>1</sup>

A prospective study has demonstrated that sacral nerve stimulation for refractory urinary urge incontinence had a positive benefit of 30.8 months.<sup>4</sup> A meta-analysis noted that sacral neuromodulation is an effective therapy for the treatment of nonobstructive urinary retention.<sup>5</sup> A prospective, randomized, multicenter trial demonstrated that SNM has shown to be a safe and effective treatment for overactive bladder (OAB) patients with mild to moderate symptoms. In studies comparing patients who received SNM with patients who delayed implantation and continued standard management, those with SNM experienced significant improvements in quality of life.<sup>6,7</sup>



#### American Urologic Association

Clinicians may offer SNM as third-line treatment in a carefully selected patient population characterized by severe refractory OAB symptoms or patients who are not candidates for second-line therapy and are willing to undergo a surgical procedure. Recommendation (Grade C; benefits outweigh risk/burdens).<sup>3</sup>

#### National Institute for Health and Care Excellence

Sacral nerve stimulation (SNS) can be recommended for those with urge incontinence and urgency-frequency when the patient understands what is involved and agrees to the treatment. SNS should only be tried when other treatments for incontinence have been unsuccessful, changes in daily lives have been made, or learning techniques to help control the bladder, have been put in place.<sup>8</sup>

#### Periurethral Bulking Agents

Urethral bulking agent (UBA) therapy, also known as periurethral injection therapy, is rarely used as a primary treatment for stress urinary incontinence (SUI) but remains an option for women with persistent/recurrent SUI who wish to avoid surgery or who are unable to tolerate surgical procedure.<sup>15</sup> Although UBA is an option for this type of incontinence, it can be more invasive and usually requires repeat injections. The most common complications associated with UBA are urinary retention and urinary tract infection, but these are easily managed.<sup>3,9-11</sup>

Candidates for periurethral bulking agents also include women with intrinsic sphincter deficiency and men who are incontinent after prostate surgery. UBA used to treat intrinsic sphincteric deficiency is being performed less frequently in current practice. Surgical interventions are generally more efficacious in both, whereas injectable therapy can be considered in cases in which surgery is contraindicated or as an adjunct to surgery if symptoms persist. In women with severe intrinsic sphincter deficiency or urethral hypermobility, the best long-term results are obtained with a pubovaginal sling or retropubic bladder neck suspension procedure.<sup>3,9-11</sup>

United States Food and Drug Administration (FDA) approved products for periurethral injection therapy include:

- Carbon-coated zirconium oxide beads suspended in a water-based gel (Durasphere EXP, FDA approved in 1999)
- Crosslinked polydimethylsiloxane (Macroplastique, FDA approved October 30, 2006)
- Calcium hydroxylapatite suspended in a water and glycerin gel (Coaptite, FDA approved November 10, 2005)
- Polyacrylamide hydrogel (Bulkamid): a homogeneous, stable hydrophilic polymer gel (FDA approved January 28, 2020)

Evidence in major reviews shows low efficacy rates compared with surgical incontinence therapies, a need for repeat treatments because of symptom recurrence, and problems with the injection of some synthetic agents.

Currently, there has been increased interest in autologous skeletal muscle derived stem cell injections for the treatment of SUI specifically due to intrinsic urinary incontinence. This therapy involves obtaining a biopsy of the patient's skeletal muscle, which is then processed ex vivo to



ensure a large quantity of myogenic cells in the product. The product is then injected into the urethral sphincter, transurethrally or periurethrally. Additional peer-reviewed studies are necessary to confirm the efficacy of this treatment.<sup>9</sup>

#### **Coding Implications**

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NOTE: Coverage is subject to each requested code's inclusion on the corresponding LDH fee schedule. Non-covered codes are denoted (\*) and are reviewed for Medical Necessity for members under 21 years of age on a per case basis.

CPT®	Description
Codes	
51715	Endoscopic injection of implant material into the submucosal tissue of the urethra and/or bladder neck
64561	Percutaneous implantation of neurostimulator electrode array; sacral nerve (transforaminal placement) including image guidance, if performed
64581	Incision for implantation of neurostimulator electrode array; sacral nerve (transforaminal placement)
64585	Revision or removal of peripheral neurostimulator electrode array
64590	Insertion or replacement of peripheral or gastric neurostimulator pulse generator or receiver, direct or inductive coupling
64595	Revision or removal of peripheral or gastric neurostimulator pulse generator or receiver

HCPCS	Description			
Codes				
A4290*	Sacral nerve stimulation test lead, each			
L8603	Injectable bulking agent, collagen implant, urinary tract, 2.5 ml syringe, includes			
	shipping and necessary supplies			
L8606*	Injectable bulking agent, synthetic implant, urinary tract, 1 ml syringe, includes			
	shipping and necessary supplies			
L8679*	Implantable neurostimulator, pulse generator, any type			
L8680*	Implantable neurostimulator electrode, each			
L8681*	Patient programmer (external) for use with implantable programmable			
	neurostimulator pulse generator, replacement only			
L8682*	Implantable neurostimulator radiofrequency receiver			



HCPCS	Description				
Codes					
L8683*	Radiofrequency transmitter (external) for use with implantable neurostimulator				
	radiofrequency receiver				
L8684*	Radiofrequency transmitter (external) for use with implantable sacral root				
	neurostimulator receiver for bowel and bladder management, replacement				
L8685*	Implantable neurostimulator pulse generator, single array, rechargeable, includes				
	extension				
L8686*	Implantable neurostimulator pulse generator, single array, nonrechargeable				
	includes extension				
L8687*	Implantable neurostimulator pulse generator, dual array, rechargeable, includes				
	extension				
L8688*	Implantable neurostimulator pulse generator, dual array, nonrechargeable, includes				
	extension				
L8689*	External recharging system for battery (internal) for use with implantable				
	neurostimulator, replacement only				

Reviews, Revisions, and Approvals	Revision Date	Approval Date
Converted corporate to local policy.	08/15/2020	
Annual reviewed completed; references reviewed and updated,	2/22	4/10/22
codes reviewed.		
Replaced investigational language in IV, to "insufficient evidence		
in the published peer-reviewed literature to support the use of UBA		
injection of autologous fat, non- FDA approved procedures, and		
any other circumstances than those specified above." Added		
HCPCS code A4290. Changed "review date" in the header to "date		
of last revision" and "date" in the revision log header to "revision		
date." Added "may not support medical necessity" to coding		
implications. References reviewed, updated and reformatted.		
Reviewed by specialist.		
Codes reviewed and updated-removed ICD-10 table	1/23	4/3/23
Removed references to biofeedback		
Updated criteria section to clarify abbreviations. Criteria I.D. # 1		
updated to include continence-support pessaries as a conservative		
measure. Updated background with no impact on criteria. Removed		
ICD-10 codes. References reviewed and updated.		
Removed continence support pessaries from criteria I.D.1. Revised	07/23	9/13/23
order in which conservative therapies are listed in I.D.2. Added		
CPT Codes 64585 and 64595. Added HCPCS non-covered codes		
that are reviewed for medical necessity for members under 21		
years of age on a per case basis: A4290, L8606, L8679, L8680,		
L8681, L8682, L8683, L8684, L8685, L8686, L8687, L8688,		
L8689		



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#### Important Reminder

This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted standards of medical practice; peer-reviewed medical literature; government agency/program approval status; evidence-based guidelines and positions of leading national health professional organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. LHCC makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved.

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