

EFFECTIVE DATE: 07|01|2026

POLICY LAST REVIEWED: 03|18|2026

OVERVIEW

Percutaneous tibial nerve stimulation (PTNS); also known as posterior tibial nerve stimulation is an electrical neuromodulation technique used primarily for treating voiding dysfunction.

MEDICAL CRITERIA

Medicare Advantage Plans

CPT code 64566

Blue Cross & Blue Shield of Rhode Island (BCBSRI) follows the medical necessity criteria from the Centers for Medicare and Medicaid Services (CMS) National and Local Coverage Determinations (NCD/LCD) for percutaneous tibial nerve stimulation. Please use the online tool for participating providers. See the Related Policies section.

Medicare Advantage Plans and Commercial Products

Use the following medical necessity criteria for Medicare Advantage Plans for CPT code 0587T and for Commercial Products for CPT codes 64566 and 0587T.

Percutaneous tibial nerve stimulation (PTNS) is considered reasonable and necessary when the following criteria are met:

- An evaluation by an appropriate specialist, usually a urologist or urogynecologist, has been performed and the specialist has determined that the patient is a candidate for PTNS; and
- The medical record documents that the member has a) been compliant with and failed a trial of symptom-appropriate behavioral therapy of sufficient length to evaluate potential efficacy, and b) been compliant with and has failed or been unable to tolerate a trial of at least two appropriate medications administered for four (4) to eight (8) weeks; and
- The voiding diary shows continued findings of overactive bladder syndrome (OBS); and
- The beneficiary has documented a willingness to attend in-office treatment sessions, to comply with the behavioral therapies, and to continue to keep voiding diaries including documentation of behavioral therapy compliance; and
- Treatment will consist of an initial course of one 30-minute session per week for 12 weeks.

Treatments for relapse shall only be allowed for those patients who achieve a >50% decrease in OBS symptoms with the initial treatment and then relapse.

PRIOR AUTHORIZATION

Medicare Advantage Plans and Commercial Products

Prior authorization is required for Medicare Advantage Plans via the online tool for participating providers, and recommended for Commercial Products. See the Related Policies section.

POLICY STATEMENT

Medicare Advantage Plans and Commercial Products

Percutaneous tibial nerve stimulation (PTNS) for overactive bladder syndrome is medically necessary for Medicare Advantage Plans when the criteria in the web-based tool has been met and medically necessary for Commercial Products when the criteria above has been met.

Medicare Advantage Plans

Subcutaneous tibial nerve stimulation delivered by an implantable peripheral neurostimulator system (e.g., eCoin) is not covered for all indications, including individuals with non-neurogenic urinary dysfunction including overactive bladder as the evidence is insufficient to determine that the technology results in an improvement in the net health outcome.

Commercial Products

Subcutaneous tibial nerve stimulation delivered by an implantable peripheral neurostimulator system (e.g., eCoin) is not medically for all indications, including individuals with non-neurogenic urinary dysfunction including overactive bladder as the evidence is insufficient to determine that the technology results in an improvement in the net health outcome.

COVERAGE

Benefits may vary between groups/contracts. Please refer to the appropriate section of the Benefit Booklet, Evidence of Coverage or Subscriber Agreement for applicable coverage for surgery.

BACKGROUND

Common causes of non-neurogenic voiding dysfunction are pelvic floor neuromuscular changes (eg, from pregnancy, childbirth, surgery), inflammation, medication (eg, diuretics, anticholinergics), obesity, and psychogenic factors. Overactive bladder is a non-neurogenic voiding dysfunction characterized by urinary frequency, urgency, urge incontinence, and nonobstructive retention.

Neurogenic bladder dysfunction is caused by neurologic damage in patients with multiple sclerosis, spinal cord injury, detrusor hyperreflexia, or diabetes with peripheral nerve involvement. The symptoms include overflow incontinence, frequency, urgency, urge incontinence, and retention.

The current indication cleared by the U.S. Food and Drug Administration (FDA) for PTNS is overactive bladder and associated symptoms of urinary frequency, urinary urgency, and urge incontinence.

Altering the function of the posterior tibial nerve with PTNS is believed to improve voiding function and control. The mechanism of action is believed to be retrograde stimulation of the lumbosacral nerves (L4-S3) via the posterior tibial nerve located near the ankle. The lumbosacral nerves control the bladder detrusor and perineal floor.

Administration of PTNS consists of inserting a needle above the medial malleolus into the posterior tibial nerve followed by the application of low-voltage (10 mA, 1-10 Hz frequency) electrical stimulation that produces sensory and motor responses as evidenced by a tickling sensation and plantarflexion or fanning of all toes. Noninvasive PTNS has also been delivered with transcutaneous or surface electrodes. The recommended course of treatment is an initial series of 12 weekly office-based treatments followed by an individualized maintenance treatment schedule.

PTNS is less invasive than traditional sacral nerve neuromodulation which has been successfully used to treat urinary dysfunction but requires implantation of a permanent device. In sacral root neuromodulation, an implantable pulse generator that delivers controlled electrical impulses is attached to wire leads that connect to the sacral nerves, most commonly the S3 nerve root that modulates the neural pathways controlling bladder function.

For individuals who have non-neurogenic urinary dysfunction including overactive bladder and have failed behavioral and pharmacologic therapy who receive an initial course of PTNS, the evidence includes randomized sham-controlled trials, randomized controlled trials (RCTs) with an active comparator, and systematic reviews. Relevant outcomes are symptoms, change in disease status, functional outcomes, quality of life, and treatment-related morbidity. The Sham Effectiveness in Treatment of Overactive Bladder Symptoms (SUMiT) and the Overactive Bladder Innovative Therapy (OrBIT) trials are 2 key industry-sponsored RCTs. Systematic reviews that included these and other published trials have found short-term

reductions in voiding dysfunction with PTNS. The largest, highest quality study was the double-blind, sham-controlled SUMiT trial, which reported a statistically significant benefit of PTNS versus sham at 12 weeks. In an additional, small sham-controlled trial, a 50% reduction in urge incontinent episodes was attained in 71% of the PTNS group compared with 0% in the sham group. The nonblinded OrBIT trial found that PTNS was noninferior to medication therapy at 12 weeks. Adverse events were limited to local irritation effects. The evidence is sufficient to determine that the technology results in an improvement in the net health outcome.

Additionally, clinical input was sought to help determine whether the use of maintenance PTNS for individuals with non-neurogenic urinary dysfunction including overactive bladder who have failed behavioral and pharmacologic therapy and respond to an initial course of PTNS would provide a clinically meaningful improvement in the net health outcome and whether the use is consistent with generally accepted medical practice. In response to requests, clinical input was received from 3 physician respondents identified by specialty societies. For individuals with non-neurogenic urinary dysfunction including overactive bladder who have failed behavioral and pharmacologic therapy and respond to an initial course of PTNS, clinical input supports this use provides a clinically meaningful improvement in net health outcome and indicates this use is consistent with generally accepted medical practice.

For individuals who have overactive bladder syndrome that has failed behavioral and pharmacologic therapy who respond to an initial course of PTNS and who receive maintenance PTNS, the evidence includes observational studies and systematic reviews. Relevant outcomes are symptoms, change in disease status, functional outcomes, quality of life, and treatment-related morbidity. The SUMiT and OrBIT trials each included extension studies that followed individuals who responded to the initial course of PTNS and continued to receive periodic maintenance therapy. There is variability in the interval between and frequency of maintenance treatments, and an optimal maintenance regimen remains unclear. There are up to 36 months of observational data available, reporting that there is a durable effect for some of these patients. While comparative data are not available after the initial 12-week treatment period, the observational data support a clinically meaningful benefit for use in individuals who have already failed behavioral and pharmacologic therapy and who respond to the initial course of PTNS. Percutaneous tibial nerve stimulation may allow such individuals to avoid more invasive interventions. Adverse events appear to be limited to local irritation for both short- and long-term PTNS use. Typical regimens schedule maintenance treatments every 4-6 weeks. The evidence is sufficient to determine that the technology results in an improvement in the net health outcome.

PTNS has been proposed as a treatment for non-neurogenic and neurogenic bladder syndromes and fecal incontinence.

For individuals who have neurogenic bladder dysfunction who receive PTNS, the evidence includes several RCTs and a systematic review of RCTs and observational data. Relevant outcomes are symptoms, change in disease status, functional outcomes, quality of life, and treatment-related morbidity. Only a few RCTs evaluating tibial nerve stimulation for treating neurogenic bladder have been published to date, and all but 1 performed transcutaneous stimulation rather than PTNS. Studies varied widely in factors such as study populations and comparator interventions. Study findings have not reported that tibial nerve stimulation significantly reduced incontinence symptoms and improved other outcomes. The evidence is insufficient to determine that the technology results in an improvement in the net health outcome.

For individuals who have fecal incontinence who receive PTNS, the evidence includes several RCTs and systematic reviews. Relevant outcomes are symptoms, change in disease status, functional outcomes, quality of life, and treatment-related morbidity. The available RCTs have not found a clear benefit of PTNS. None of the sham-controlled trials found that active stimulation was superior to sham for achieving a reduction in mean weekly fecal incontinence episodes. The larger sham-controlled randomized trial did find a significantly greater decrease in the absolute number of weekly incontinence episodes in the active treatment group, but the overall trial findings did not suggest the superiority of PTNS over sham treatment. An additional sham-controlled randomized trial did not identify a benefit of PTNS over sham stimulation. A meta-analysis of a

single RCT and several observational studies reported that patients receiving sacral nerve stimulation experienced significant benefits compared with patients receiving PTNS. A post hoc analysis of the larger trial suggested a subset of patients with fecal incontinence (those without concomitant obstructive defecation) may benefit from PTNS. The evidence is insufficient to determine that the technology results in an improvement in the net health outcome.

For individuals who have urge urinary incontinence and urinary urgency who receive transcutaneous tibial nerve stimulation, the evidence includes an RCT and a nonrandomized study. Relevant outcomes are symptoms, change in disease status, functional outcomes, quality of life, and treatment-related morbidity. The results of the available studies did not show a clear benefit of transcutaneous tibial nerve stimulation. The RCT showed statistically significant improvements in the primary outcome measure. However, the primary outcome was a composite score of patient reported outcomes. A secondary analysis on individual symptoms showed no significant difference between the active therapy arm and the sham arm for voids or urgency leaks. The nonrandomized open-label, single-arm study showed statistically significant improvements in daily voids, incontinence episodes, and urgency episodes. However, minimal clinically important differences were not reported for these outcomes. The evidence is insufficient to determine that the technology results in an improvement in the net health outcome.

CODING

Medicare Advantage Plans and Commercial Products

The following CPT code(s) is medically necessary for Medicare Advantage Plans when the criteria in the web-based tool has been met and medically necessary for Commercial Products when the criteria above has been met.

64566 Posterior tibial neurostimulation, percutaneous needle electrode, single treatment, includes programming

The following CPT code(s) is medically necessary for Medicare Advantage Plans and Commercial Products when the criteria above has been met.

0587T Percutaneous implantation or replacement of integrated single device neurostimulation system for bladder dysfunction including electrode array and receiver or pulse generator, including analysis, programming, and imaging guidance when performed, posterior tibial nerve

The following CPT code(s) is not covered for Medicare Advantage Plans and not medically necessary for Commercial Products:

0816T Open insertion or replacement of integrated neurostimulation system for bladder dysfunction including electrode(s) (eg, array or leadless), and pulse generator or receiver, including analysis, programming, and imaging guidance, when performed, posterior tibial nerve; subcutaneous

RELATED POLICIES

Prior Authorization via Web-Based Tool for Procedures

Medicare Advantage Plans National and Local Coverage Determinations

PUBLISHED

Provider Update, May 2026

Provider Update, October 2024

Provider Update, December 2023

Provider Update, January 2023

Provider Update, November 2021

REFERENCES

1. Wang M, Jian Z, Ma Y, et al. Percutaneous tibial nerve stimulation for overactive bladder syndrome: a systematic review and meta-analysis. *Int Urogynecol J*. Dec 2020; 31(12): 2457-2471. PMID 32681345

2. Xiong SC, Peng L, Hu X, et al. Effectiveness and safety of tibial nerve stimulation versus anticholinergic drugs for the treatment of overactive bladder syndrome: a meta-analysis. *Ann Palliat Med.* Jun 2021; 10(6): 6287-6296. PMID 34118839
3. Coolen RL, Groen J, Scheepe JR, et al. Transcutaneous Electrical Nerve Stimulation and Percutaneous Tibial Nerve Stimulation to Treat Idiopathic Nonobstructive Urinary Retention: A Systematic Review. *Eur Urol Focus.* Sep 2021; 7(5): 1184-1194. PMID 33268327
4. Ho FCS, He C, Yao HH, et al. Efficacy of sacral neuromodulation and percutaneous tibial nerve stimulation in the treatment of chronic nonobstructive urinary retention: A systematic review. *Neurourol Urodyn.* Jun 2021; 40(5): 1078-1088. PMID 33973670
5. Tutolo M, Ammirati E, Heesakkers J, et al. Efficacy and Safety of Sacral and Percutaneous Tibial Neuromodulation in Non-neurogenic Lower Urinary Tract Dysfunction and Chronic Pelvic Pain: A Systematic Review of the Literature. *Eur Urol.* Mar 2018; 73(3): 406-418. PMID 29336927
6. Tutolo M, Ammirati E, Van der Aa F. What Is New in Neuromodulation for Overactive Bladder?. *Eur Urol Focus.* Jan 2018; 4(1): 49-53. PMID 29773501
7. Stewart F, Gameiro LF, El Dib R, et al. Electrical stimulation with non-implanted electrodes for overactive bladder in adults. *Cochrane Database Syst Rev.* Dec 09 2016; 12(12): CD010098. PMID 27935011
8. Blue Cross and Blue Shield Association Technology Evaluation Center (TEC). Percutaneous tibial nerve stimulation for the treatment of voiding dysfunction. *TEC Assessments.* 2013;Volume 28:Tab 10. PMID
9. Burton C, Sajja A, Latthe PM. Effectiveness of percutaneous posterior tibial nerve stimulation for overactive bladder: a systematic review and meta-analysis. *Neurourol Urodyn.* Nov 2012; 31(8): 1206-16. PMID 22581511
10. Levin PJ, Wu JM, Kawasaki A, et al. The efficacy of posterior tibial nerve stimulation for the treatment of overactive bladder in women: a systematic review. *Int Urogynecol J.* Nov 2012; 23(11): 1591-7. PMID 22411208
11. Moosdorff-Steinhauser HF, Berghmans B. Effects of percutaneous tibial nerve stimulation on adult patients with overactive bladder syndrome: a systematic review. *Neurourol Urodyn.* Mar 2013; 32(3): 206-14. PMID 22907807
12. Gaziev G, Topazio L, Iacovelli V, et al. Percutaneous Tibial Nerve Stimulation (PTNS) efficacy in the treatment of lower urinary tract dysfunctions: a systematic review. *BMC Urol.* Nov 25 2013; 13: 61. PMID 24274173
13. Shamliyan T, Wyman J, Kane RL. *Nonsurgical Treatments for Urinary Incontinence in Adult Women: Diagnosis and Comparative Effectiveness (Comparative Effectiveness Review No. 36).* Rockville, MD: Agency for Healthcare Research and Quality; 2012.
14. Finazzi-Agrò E, Petta F, Sciobica F, et al. Percutaneous tibial nerve stimulation effects on detrusor overactivity incontinence are not due to a placebo effect: a randomized, double-blind, placebo controlled trial. *J Urol.* Nov 2010; 184(5): 2001-6. PMID 20850833
15. Peters KM, Carrico DJ, Perez-Marrero RA, et al. Randomized trial of percutaneous tibial nerve stimulation versus Sham efficacy in the treatment of overactive bladder syndrome: results from the SUmiT trial. *J Urol.* Apr 2010; 183(4): 1438-43. PMID 20171677
16. Peters K, Carrico D, Burks F. Validation of a sham for percutaneous tibial nerve stimulation (PTNS). *Neurourol Urodyn.* 2009; 28(1): 58-61. PMID 18671297
17. Peters KM, Carrico DJ, Wooldridge LS, et al. Percutaneous tibial nerve stimulation for the long-term treatment of overactive bladder: 3-year results of the STEP study. *J Urol.* Jun 2013; 189(6): 2194-201. PMID 23219541
18. Vecchioli-Scaldazza C, Morosetti C. Effectiveness and durability of solifenacin versus percutaneous tibial nerve stimulation versus their combination for the treatment of women with overactive bladder syndrome: a randomized controlled study with a follow-up of ten months. *Int Braz J Urol.* 2018; 44(1): 102-108. PMID 29064651
19. Boudaoud N, Binet A, Line A, et al. Management of refractory overactive bladder in children by transcutaneous posterior tibial nerve stimulation: A controlled study. *J Pediatr Urol.* Jun 2015; 11(3): 138.e1-10. PMID 25979217

20. Gungor Ugurlucan F, Onal M, Aslan E, et al. Comparison of the effects of electrical stimulation and posterior tibial nerve stimulation in the treatment of overactive bladder syndrome. *Gynecol Obstet Invest.* 2013; 75(1): 46-52. PMID 23171636
21. Preyer O, Umek W, Laml T, et al. Percutaneous tibial nerve stimulation versus tolterodine for overactive bladder in women: a randomised controlled trial. *Eur J Obstet Gynecol Reprod Biol.* Aug 2015; 191: 51-6. PMID 26073262
22. Vecchioli-Scaldazza C, Morosetti C, Berouz A, et al. Solifenacin succinate versus percutaneous tibial nerve stimulation in women with overactive bladder syndrome: results of a randomized controlled crossover study. *Gynecol Obstet Invest.* 2013; 75(4): 230-4. PMID 23548260
23. Schreiner L, dos Santos TG, Knorst MR, et al. Randomized trial of transcutaneous tibial nerve stimulation to treat urge urinary incontinence in older women. *Int Urogynecol J.* Sep 2010; 21(9): 1065-70. PMID 20458465
24. Peters KM, Macdiarmid SA, Wooldridge LS, et al. Randomized trial of percutaneous tibial nerve stimulation versus extended-release tolterodine: results from the overactive bladder innovative therapy trial. *J Urol.* Sep 2009; 182(3): 1055-61. PMID 19616802
25. MacDiarmid SA, Peters KM, Shobeiri SA, et al. Long-term durability of percutaneous tibial nerve stimulation for the treatment of overactive bladder. *J Urol.* Jan 2010; 183(1): 234-40. PMID 19913821
26. Amundsen CL, Sutherland SE, Kielb SJ, et al. Sacral and Implantable Tibial Neuromodulation for the Management of Overactive Bladder: A Systematic Review and Meta-analysis. *Adv Ther.* Jan 2025; 42(1): 10-35. PMID 39476308
27. Rogers A, Bragg S, Ferrante K, et al. Pivotal Study of Leadless Tibial Nerve Stimulation with eCoin® for Urgency Urinary Incontinence: An Open-Label, Single Arm Trial. *J Urol.* Aug 2021; 206(2): 399-408. PMID 33797291
28. U.S. Food and Drug Administration. Summary of Safety and Effectiveness Data (SSED): eCoin Peripheral Neurostimulator System (P200036). March 1, 2022; https://www.accessdata.fda.gov/cdrh_docs/pdf20/P200036B.pdf. Accessed April 16, 2025.
29. MacDiarmid S, Staskin DR, Lucente V, et al. Feasibility of a Fully Implanted, Nickel Sized and Shaped Tibial Nerve Stimulator for the Treatment of Overactive Bladder Syndrome with Urgency Urinary Incontinence. *J Urol.* May 2019; 201(5): 967-972. PMID 31009968
30. Gilling P, Meffan P, Kaaki B, et al. Twelve-month Durability of a Fully-implanted, Nickel-sized and Shaped Tibial Nerve Stimulator for the Treatment of Overactive Bladder Syndrome with Urgency Urinary Incontinence: A Single-Arm, Prospective Study. *Urology.* Nov 2021; 157: 71-78. PMID 34048826
31. Kaaki B, English S, Gilling P, et al. Six-Month Outcomes of Reimplantation of a Coin-Sized Tibial Nerve Stimulator for the Treatment of Overactive Bladder Syndrome With Urgency Urinary Incontinence. *Female Pelvic Med Reconstr Surg.* May 01 2022; 28(5): 287-292. PMID 35536667
32. Schneider MP, Gross T, Bachmann LM, et al. Tibial Nerve Stimulation for Treating Neurogenic Lower Urinary Tract Dysfunction: A Systematic Review. *Eur Urol.* Nov 2015; 68(5): 859-67. PMID 26194043
33. Monteiro ÉS, de Carvalho LB, Fukujima MM, et al. Electrical stimulation of the posterior tibialis nerve improves symptoms of poststroke neurogenic overactive bladder in men: a randomized controlled trial. *Urology.* Sep 2014; 84(3): 509-14. PMID 25168524
34. Perissinotto MC, D'Ancona CA, Lucio A, et al. Transcutaneous tibial nerve stimulation in the treatment of lower urinary tract symptoms and its impact on health-related quality of life in patients with Parkinson disease: a randomized controlled trial. *J Wound Ostomy Continence Nurs.* 2015; 42(1): 94-9. PMID 25549314
35. Gaspard L, Tombal B, Opsomer RJ, et al. [Physiotherapy and neurogenic lower urinary tract dysfunction in multiple sclerosis patients: a randomized controlled trial]. *Prog Urol.* Sep 2014; 24(11): 697-707. PMID 25214451
36. Eftekhari T, Teimoori N, Miri E, et al. Posterior tibial nerve stimulation for treating neurologic bladder in women: a randomized clinical trial. *Acta Med Iran.* 2014; 52(11): 816-21. PMID 25415813

37. Zonić-Imamović M, Imamović S, Čičkušić A, et al. Effects of Treating an Overactive Urinary Bladder in Patients with Multiple Sclerosis. *Acta Med Acad.* Dec 2019; 48(3): 271-277. PMID 32124625
38. Welk B, McKibbin M. A randomized, controlled trial of transcutaneous tibial nerve stimulation to treat overactive bladder and neurogenic bladder patients. *Can Urol Assoc J.* Jul 2020; 14(7): E297-E303. PMID 32017693
39. Luo C, Wei D, Pang K, et al. Is percutaneous tibial nerve stimulation (PTNS) effective for fecal incontinence (FI) in adults compared with sham electrical stimulation? A meta-analysis. *Tech Coloproctol.* Feb 24 2024; 28(1): 37. PMID 38401006
40. Sarveazad A, Babahajian A, Amini N, et al. Posterior Tibial Nerve Stimulation in Fecal Incontinence: A Systematic Review and Meta-Analysis. *Basic Clin Neurosci.* 2019; 10(5): 419-431. PMID 32284831
41. Tan K, Wells CI, Dinning P, et al. Placebo Response Rates in Electrical Nerve Stimulation Trials for Fecal Incontinence and Constipation: A Systematic Review and Meta-Analysis. *Neuromodulation.* Dec 2020; 23(8): 1108-1116. PMID 31889364
42. Simillis C, Lal N, Qiu S, et al. Sacral nerve stimulation versus percutaneous tibial nerve stimulation for faecal incontinence: a systematic review and meta-analysis. *Int J Colorectal Dis.* May 2018; 33(5): 645-648. PMID 29470730
43. Edenfield AL, Amundsen CL, Wu JM, et al. Posterior tibial nerve stimulation for the treatment of fecal incontinence: a systematic evidence review. *Obstet Gynecol Surv.* May 2015; 70(5): 329-41. PMID 25974730
44. Horrocks EJ, Thin N, Thaha MA, et al. Systematic review of tibial nerve stimulation to treat faecal incontinence. *Br J Surg.* Apr 2014; 101(5): 457-68. PMID 24446127
45. George AT, Kalmar K, Sala S, et al. Randomized controlled trial of percutaneous versus transcutaneous posterior tibial nerve stimulation in faecal incontinence. *Br J Surg.* Feb 2013; 100(3): 330-8. PMID 23300071
46. Knowles CH, Horrocks EJ, Bremner SA, et al. Percutaneous tibial nerve stimulation versus sham electrical stimulation for the treatment of faecal incontinence in adults (CONFIDeNT): a double-blind, multicentre, pragmatic, parallel-group, randomised controlled trial. *Lancet.* Oct 24 2015; 386(10004): 1640-8. PMID 26293315
47. Horrocks EJ, Chadi SA, Stevens NJ, et al. Factors Associated With Efficacy of Percutaneous Tibial Nerve Stimulation for Fecal Incontinence, Based on Post-Hoc Analysis of Data From a Randomized Trial. *Clin Gastroenterol Hepatol.* Dec 2017; 15(12): 1915-1921.e2. PMID 28647458
48. Thin NN, Taylor SJ, Bremner SA, et al. Randomized clinical trial of sacral versus percutaneous tibial nerve stimulation in patients with faecal incontinence. *Br J Surg.* Mar 2015; 102(4): 349-58. PMID 25644291
49. Leo CA, Thomas GP, Hodgkinson JD, et al. Randomized Pilot Study: Anal Inserts Versus Percutaneous Tibial Nerve Stimulation in Patients With Fecal Incontinence. *Dis Colon Rectum.* Apr 01 2021; 64(4): 466-474. PMID 33399411
50. Zyczynski HM, Richter HE, Sung VW, et al. Percutaneous Tibial Nerve Stimulation vs Sham Stimulation for Fecal Incontinence in Women: NeurOmodulaTion for Accidental Bowel Leakage Randomized Clinical Trial. *Am J Gastroenterol.* Apr 01 2022; 117(4): 654-667. PMID 35354778
51. Sanagapalli S, Neilan L, Lo JYT, et al. Efficacy of Percutaneous Posterior Tibial Nerve Stimulation for the Management of Fecal Incontinence in Multiple Sclerosis: A Pilot Study. *Neuromodulation.* Oct 2018; 21(7): 682-687. PMID 29575432
52. Goudelocke C, Dhir R, Shapiro E, et al. A Multicenter Prospective Sham-controlled Trial Evaluating a Physiologic Closed-loop Wearable Tibial Neuromodulation System for Overactive Bladder. *Urology.* Jan 2025; 195: 16-22. PMID 39299396
53. Goudelocke C, Sobol J, Poulos D, et al. A Multicenter Study Evaluating the FREquency of Use and Efficacy of a Novel Closed-Loop Wearable Tibial Neuromodulation System for Overactive Bladder and Urgency Urinary Incontinence (FREEOAB). *Urology.* Jan 2024; 183: 63-69. PMID 37944596
54. Lightner DJ, Gomelsky A, Souter L, et al. Diagnosis and Treatment of Overactive Bladder (Non-Neurogenic) in Adults: AUA/SUFU Guideline Amendment 2019. *J Urol.* Sep 2019; 202(3): 558-563. PMID 31039103

55. Cameron AP, Chung DE, Dielubanza EJ, et al. The AUA/SUFU guideline on the diagnosis and treatment of idiopathic overactive bladder. *J Urol*. Published online April 23, 2024. doi:10.1097/JU.0000000000003985. <https://www.auajournals.org/doi/10.1097/JU.0000000000003985>
56. ACOG Practice Bulletin No. 155: Urinary Incontinence in Women. *Obstet Gynecol*. Nov 2015; 126(5): e66-e81. PMID 26488524
57. Bharucha AE, Rao SSC, Shin AS. Surgical Interventions and the Use of Device-Aided Therapy for the Treatment of Fecal Incontinence and Defecatory Disorders. *Clin Gastroenterol Hepatol*. Dec 2017; 15(12): 1844-1854. PMID 28838787

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