

References

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1. Hayes, Inc. Medical Technology Directory. *Transcutaneous electrical nerve stimulation for knee osteoarthritis*. Lansdale, Pa: Hayes, Inc.; 04/14/2021.
2. Qaseem A, Wilt TJ, McLean RM, et al. Noninvasive treatments for acute, subacute, and chronic low back pain: A clinical practice guideline from the American College of Physicians. *Ann Intern Med*. 2017;166(7):514- 530.
3. Chen FC, Jin ZL, Wang DF. A retrospective study of transcutaneous electrical nerve stimulation for chronic pain following ankylosing spondylitis. *Medicine (Baltimore)*. 2018;97(27):e11265.
4. Li J, Song Y. Transcutaneous electrical nerve stimulation for postoperative pain control after total knee arthroplasty: A meta-analysis of randomized controlled trials. 2017;96(37).
5. Zhu Y, Yuxing F, Lihua P. Effect of transcutaneous electrical nerve stimulation for pain control after total knee arthroplasty: A systematic review and meta-analysis. *J Rehabil Med*. 2017;49:700-704.
6. Hayes, Inc. Health Technology Assessment. *Noninvasive vagus nerve stimulation with gammacore for prevention or treatment of cluster headache*. Lansdale, PA: Hayes, Inc.; 05/12/2020.
7. Goadsby P, DeCoo I, Silver N, et al. Non-invasive vagus nerve stimulation for the acute treatment of episodic and chronic cluster headache: A randomized, double-blind, sham-controlled ACT2 study. 2018;38(5):959–969.
8. Tassorelli C, Grazzi L, de Tommaso M, et al. PRESTO Study Group. Noninvasive vagus nerve stimulation as acute therapy for migraine: The randomized PRESTO study. 2018;91(4):e364-e373.
9. Mekhail NA, Estemalik E, Azer G, Davis K, Tepper SJ. Safety and efficacy of occipital nerves stimulation for the treatment of chronic migraines: Randomized, double-blind, controlled single-center experience. *Pain Pract*. 2017;(5):669-677.
10. Hayes, Inc. Health Technology Assessment. *Occipital Nerve Stimulation for Chronic Migraine Headache*. Lansdale, PA: Hayes, Inc.; 06/30/2020.

11. de Coo IF, Marin JC, Silberstein SD, Friedman DI et al. Differential efficacy of non-invasive vagus nerve stimulation for the acute treatment of episodic and chronic cluster headache: A meta-analysis. *Cephalalgia*. 2019;39(8):967-977.
12. Grazzi L, Tassorelli C, de Tommaso M, Pierangeli G, et al. PRESTO Study Group. Practical and clinical utility of non-invasive vagus nerve stimulation (nVNS) for the acute treatment of migraine: A post hoc analysis of the randomized, sham-controlled, double-blind PRESTO trial. *J Headache Pain*. 2018;19(1):98.
13. Martelletti P, Barbanti P, Grazzi L, Pierangeli G, et al. PRESTO Study Group. Consistent effects of non-invasive vagus nerve stimulation (nVNS) for the acute treatment of migraine: Additional findings from the randomized, sham-controlled, double-blind PRESTO trial. *J Headache Pain*. 2018;19(1):101.
14. Costanzo MR, Ponikowski P, Javaheri S, Augostini R, et al. remedē System pivotal trial study Group. Sustained 12 month benefit of phrenic nerve stimulation for central sleep apnea. *Am J Cardiol*. 2018;121(11):1400-1408.
15. Fox H, Oldenburg O, Javaheri S, Ponikowski P, et al. Long-term efficacy and safety of phrenic nerve stimulation for the treatment of central sleep apnea. 2019;42(11):zsz158.
16. Costanzo MR, Ponikowski P, Coats A, Javaheri S, et al. Remedē® System Pivotal trial study group. Phrenic nerve stimulation to treat patients with central sleep apnea and heart failure. *Eur J Heart Fail*. 2018;20(12):1746-1754.
17. Fox H, Bitter T, Horstkotte D, Oldenburg O, et al. Long-term experience with first-generation implantable neurostimulation device in central sleep apnea treatment. *Pacing Clin Electrophysiol*. 2017;40(5):498-503.
18. Wu LC, Weng PW, Chen CH, Huang YY, et al. Literature review and meta-analysis of transcutaneous electrical nerve stimulation in treating chronic back pain. *Reg Anesth Pain Med*. 2018;43(4):425-433.
19. Leemans L, Elma Ö, Nijs J, Wideman TH, et al. Transcutaneous electrical nerve stimulation and heat to reduce pain in a chronic low back pain population: A randomized controlled clinical trial. *Braz J Phys Ther*. 2021;25(1):86-96.

20. Zhu Y, Feng Y, Peng L. Effect of transcutaneous electrical nerve stimulation for pain control after total knee arthroplasty: A systematic review and meta-analysis. *J Rehabil Med.* 2017;49(9):700-704.
21. Hayes, Inc. Hayes Evidence Analysis Research Brief. *Phrenic Nerve Stimulation (Remedē System) for Central Sleep Apnea.* Lansdale, PA: Hayes, Inc.; 06/12/2018.
22. Hayes, Inc. Hayes Health Technology Assessment. *Vagus Nerve Stimulation for Epilepsy in Pediatric Patients.* Lansdale, PA: Hayes, Inc.; 01/25/2021.
23. Hayes, Inc. Hayes Health Technology Assessment. *Vagus Nerve Stimulation for Treatment-Resistant Depression.* Lansdale, PA: Hayes, Inc.; 02/21/2019.
24. Hayes, Inc. Hayes Health Technology Assessment. *Occipital Nerve Stimulation for Chronic Cluster Headache.* Lansdale, PA: Hayes, Inc.; 09/24/2020.
25. Mwamburi M, Liebler EJ, Tenaglia AT. Review of non-invasive vagus nerve stimulation (gammaCore): Efficacy, safety, potential impact on comorbidities, and economic burden for episodic and chronic cluster headache. *Am J Manag Care.* 2017;23(17 Suppl):S317-S325.
26. Grazzi L, Egeo G, Liebler E, Padovan AM, Barbanti P. Non-invasive vagus nerve stimulation (nVNS) as symptomatic treatment of migraine in young patients: A preliminary safety study. *Neurol Sci.* 2017;38(Suppl 1):197-199.
27. Babygirija R, Sood M, Kannampalli P, Sengupta JN, et al. Percutaneous electrical nerve field stimulation modulates central pain pathways and attenuates post-inflammatory visceral and somatic hyperalgesia in rats. 2017;356:11-21.
28. Kovacic K, Hainsworth K, Sood M, Chelimsky G, et al. Neurostimulation for abdominal pain-related functional gastrointestinal disorders in adolescents: A randomised, double-blind, sham-controlled trial. *Lancet Gastroenterol Hepatol.* 2017;2(10):727-737.
29. Krasaelap A, Sood MR, Li BUK, Unteutsch R, et al. Efficacy of auricular neurostimulation in adolescents with irritable bowel syndrome in a randomized, double-blind trial. *Clin Gastroenterol Hepatol.* 2020;18(9):1987-1994.e2.

30. Kovacic K, Kolacz J, Lewis GF, Porges SW. Impaired vagal efficiency predicts auricular neurostimulation response in adolescent functional abdominal pain disorders. *Am J Gastroenterol*. 2020;115(9):1534-1538.
31. Thapar N, Benninga MA, Crowell MD, Di Lorenzo C, et al. Paediatric functional abdominal pain disorders. *Nat Rev Dis Primers*. 2020 Nov 5;6(1):89.
32. Hayes, Inc. Hayes Evidence Analysis Research Brief. *IB-Stim (Innovative Health Solutions) for Treatment of Pain Associated with Irritable Bowel Syndrome*. Lansdale, PA: Hayes, Inc.; 03/05/2021.
33. Nierenburg H, Stark-Inbar A. Nerivio® remote electrical neuromodulation for acute treatment of chronic migraine. *Pain Manag*. 2022;12(3):267-281.
34. Rapoport AM, Lin T. Device profile of the Nerivio™ for acute migraine treatment: Overview of its efficacy and safety. *Expert Rev Med Devices*. 2019;16(12):1017-1023.
35. Hershey AD, Lin T, Gruper Y, Harris D, Ironi A, Berk T, et al. Remote electrical neuromodulation for acute treatment of migraine in adolescents. 2021;61(2):310-317.
36. Tepper SJ, Lin T, Montal T, Ironi A, Dougherty C. Real-world experience with remote electrical neuromodulation in the acute treatment of migraine. *Pain Med*. 2020;21(12):3522-3529.
37. Grosberg B, Rabany L, Lin T, Harris D, Vizel M, Ironi A, et al. Safety and efficacy of remote electrical neuromodulation for the acute treatment of chronic migraine: An open-label study. *Pain Rep*. 2021;6(4):e966.
38. Nierenburg H, Vieira JR, Lev N, Lin T, Harris D, Vizel M, et al. Remote electrical neuromodulation for the acute treatment of migraine in patients with chronic migraine: An open-label pilot study. *Pain Ther*. 2020;9(2):531-543.
39. Buse DC, Rabany L, Lin T, Ironi A, Connelly MA, Bickel JL. Combining guided intervention of education and relaxation (GIER) with remote electrical neuromodulation (REN) in the acute treatment of migraine. *Pain Med*. 2022:pnac021.

40. Hershey AD, Irwin S, Rabany L, Gruper Y, Ironi A, Harris D, et al. Comparison of remote electrical neuromodulation (REN) and standard-care medications for acute treatment of migraine in adolescents: A post-hoc analysis. *Pain Med.* 2021;pnab197.
41. Nierenburg H, Rabany L, Lin T, Sharon R, Harris D, Ironi A, et al. Remote electrical neuromodulation (REN) for the acute treatment of menstrual migraine: A retrospective survey study of effectiveness and tolerability. *Pain Ther.* 2021;10(2):1245-1253.
42. Hayes, Inc. Hayes Evolving Evidence Review. *Nerivio (Theranica Bio-Electronics Ltd.) for Treatment of Acute Migraine Episodes.* Lansdale, PA: Hayes, Inc.; 07/23/2021.
43. Hayes, Inc. Hayes Evolving Evidence Review. *External Trigeminal Nerve Stimulation (Cefaly Device) for Prevention of Episodic Migraine Headaches.* Lansdale, PA: Hayes, Inc.; 12/10/2021.
44. Hayes, Inc. Hayes Evolving Evidence Review. *Cala Trio (Cala Health, Inc.) for Treatment of Essential Tremor.* Lansdale, PA: Hayes, Inc.; 01/05/2022.
45. Guimarães-Costa R, Niérat MC, Rivals I, Morélot-Panzini C, Romero NB, Menegaux F, et al; RespiStimALS team. Implanted phrenic stimulation impairs local diaphragm myofiber reinnervation in amyotrophic lateral sclerosis. *Am J Respir Crit Care Med.* 2019;200(9):1183-1187.
46. Woo A, Tchoe HJ, Shin HW, Shin CM, Lim CM. Assisted breathing with a diaphragm pacing system: A systematic review. *Yonsei Med J.* 2020;61(12):1024-1033.
47. Gil-López F, Boget T, Manzanares I, Donaire A, Conde-Blanco E, Baillés E, et al. External trigeminal nerve stimulation for drug resistant epilepsy: A randomized controlled trial. *Brain Stimul.* 2020;13(5):1245-1253.
48. Beh SC. External trigeminal nerve stimulation: Potential rescue treatment for acute vestibular migraine. *J Neurol Sci.* 2020;408:116550.
49. Olivie L, Giraldez BG, Sierra-Marcos A, Díaz-Gómez E, Serratos JM. External trigeminal nerve stimulation: A long term follow up study. *Seizure.* 2019;69:218-220.

50. Vecchio E, Gentile E, Franco G, Ricci K, de Tommaso M. Effects of external trigeminal nerve stimulation (eTNS) on laser evoked cortical potentials (LEP): A pilot study in migraine patients and controls. 2018;38(7):1245-1256.
51. Chou DE, Gross GJ, Casadei CH, Yugrakh MS. External trigeminal nerve stimulation for the acute treatment of migraine: Open-label trial on safety and efficacy. 2017;20(7):678-683.
52. Castrillo-Fraile V, Peña EC, Gabriel Y Galán JMT, Delgado-López PD, Collazo C, Cubo E. Tremor control devices for essential tremor: A systematic literature review. *Tremor Other Hyperkinet Mov (N Y)*. 2019;9.
53. Abdi S, Chung M, Marineo G. Scrambler therapy for noncancer neuropathic pain: A focused review. *Curr Opin Anaesthesiol*. 2021;34(6):768-773.
54. Min YG, Baek HS, Lee KM, Hong YH. Differential response to scrambler therapy by neuropathic pain phenotypes. *Sci Rep*. 2021;11(1):10148.
55. Nayback-Beebe A, Panula T, Arzola S, Goff B. Scrambler therapy treatment: The importance of examining clinically meaningful improvements in chronic pain and quality of life. *Mil Med*. 2020;185(Suppl 1):143-147.