

References

S-5085

1. Blue Cross and Blue Shield Association Technology Evaluation Center (TEC). Electrical bone growth stimulation as an adjunct to spinal fusion surgery (invasive method). TEC Evaluations. 1992 324-351.
2. Blue Cross and Blue Shield Association Technology Evaluation Center (TEC). Electrical bone growth stimulation in association with spinal fusion surgery (noninvasive method). TEC Evaluations. 1993:1-12.
3. Kane WJ. Direct current electrical bone growth stimulation for spinal fusion. *Spine (Phila Pa 1976)*. Mar 1988;13(3):363-365. PMID 3291140
4. Mooney V. A randomized double-blind prospective study of the efficacy of pulsed electromagnetic fields for interbody lumbar fusions. *Spine (Phila Pa 1976)*. Jul 1990;15(7):708-712. PMID 2218718
5. Park P, Lau D, Brodt ED, et al. Electrical stimulation to enhance spinal fusion: a systematic review. *Evid Based Spine Care J*. Oct 2014;5(2):87-94. PMID 25278882
6. Kucharzyk DW. A controlled prospective outcome study of implantable electrical stimulation with spinal instrumentation in a high-risk spinal fusion population. *Spine (Phila Pa 1976)*. Mar 1 1999;24(5):465-468; discussion 469. PMID 10084185
7. Rogozinski A, Rogozinski C. Efficacy of implanted bone growth stimulation in instrumented lumbosacral spinal fusion. *Spine (Phila Pa 1976)*. Nov 1 1996;21(21):2479-2483. PMID 8923635
8. Andersen T, Christensen FB, Egund N, et al. The effect of electrical stimulation on lumbar spinal fusion in older patients: a randomized, controlled, multi-center trial: part 2: fusion rates. *Spine (Phila Pa 1976)*. Oct 1 2009;34(21):2248-2253. PMID 19934803
9. Andersen T, Christensen FB, Ernst C, et al. The effect of electrical stimulation on lumbar spinal fusion in older patients: a randomized, controlled, multi-center trial: part 1: functional outcome. *Spine (Phila Pa 1976)*. Oct 1 2009;34(21):2241-2247. PMID 19934802
10. Andersen T, Christensen FB, Langdahl BL, et al. Fusion mass bone quality after uninstrumented spinal fusion in older patients. *Eur Spine J*. Dec 2010;19(12):2200-2208. PMID 20429017
11. Goodwin CB, Brighton CT, Guyer RD, et al. A double-blind study of capacitively coupled electrical stimulation as an adjunct to lumbar spinal fusions. *Spine (Phila Pa 1976)*. Jul 1 1999;24(13):1349-1356; discussion 1357. PMID 10404578
12. Linovitz RJ, Pathria M, Bernhardt M, et al. Combined magnetic fields accelerate and increase spine fusion: a double-blind, randomized, placebo controlled study. *Spine (Phila Pa 1976)*. Jul 1 2002;27(13):1383-1389; discussion 1389. PMID 12131732
13. Gaston MS, Simpson AH. Inhibition of fracture healing. *J Bone Joint Surg Br*. Dec 2007;89(12):1553-1560. PMID 18057352
14. Pountos I, Georgouli T, Blokhuis TJ, et al. Pharmacological agents and impairment of fracture healing: what is the evidence? *Injury*. Apr 2008;39(4):384-394. PMID 18316083
15. Coric D, Bullard DE, Patel VV, et al. Pulsed electromagnetic field stimulation may improve fusion rates in cervical arthrodesis in high-risk populations. *Bone Joint Res*. Feb 2018;7(2):124-130. PMID 29437635

16. Foley KT, Mroz TE, Arnold PM, et al. Randomized, prospective, and controlled clinical trial of pulsed electromagnetic field stimulation for cervical fusion. *Spine J.* May-Jun 2008;8(3):436-442. PMID 17983841
17. U.S. Food and Drug Administration. Summary of Safety and Effectiveness Data: Cervical-Stim Model 505L Cervical Fusion System. 2004; https://www.accessdata.fda.gov/cdrh_docs/pdf3/P030034b.pdf. Accessed March 12, 2018.
18. Mackenzie D, Veninga FD. Reversal of delayed union of anterior cervical fusion treated with pulsed electromagnetic field stimulation: case report. *South Med J.* May 2004;97(5):519-524. PMID 15180031
19. North American Spine Society (NASS). NASS Coverage Policy Recommendations: Electrical Stimulation for Bone Healing. 2016; <https://www.spine.org/PolicyPractice/CoverageRecommendations/AboutCoverageRecommendations.aspx>. Accessed March 12, 2018.
20. Kaiser MG, Eck JC, Groff MW, et al. Guideline update for the performance of fusion procedures for degenerative disease of the lumbar spine. Part 17: bone growth stimulators as an adjunct for lumbar fusion. *J Neurosurg Spine.* Jul 2014;21(1):133-139. PMID 24980594
21. Resnick DK, Choudhri TF, Dailey AT, et al. Guidelines for the performance of fusion procedures for degenerative disease of the lumbar spine. Part 17: bone growth stimulators and lumbar fusion. *J Neurosurg Spine.* Jun 2005;2(6):737-740. PMID 16028745
22. Centers for Medicare & Medicaid Services. National Coverage Determination for Osteogenic Stimulators (150.2). 2005; https://www.cms.gov/medicare-coverage-database/details/nc-details.aspx?NCDId=65&ncdver=2&DocID=150.2&ncd_id=150.2&ncd_version=2&basket=ncd%25253A150%25252E2%25253A2%25253AOsteogenic+Stimulators&bc=gAA AABAAAAAAAAA%3d%3d&. Accessed March 12, 2018.