



Subject: Sural Nerve Graft with Or Following Radical Prostatectomy*

Effective Date: October 2, 2003

Department(s): Utilization Management

Policy: Sural nerve graft during radical prostatectomy is **not** reimbursable under Plans administered by QualCare, Inc. Penile re-innervation surgery after radical prostatectomy is **not** reimbursable under Plans administered by QualCare, Inc.

Objective: To assure proper and consistent reimbursement

Procedure:

- A. Sural nerve grafting may be requested as a procedure to be done during radical prostatectomy when the cavernous nerves cannot be spared, or after radical prostatectomy for a somatic-autonomic neurography re-innervation.
- B. When sural nerve grafting as a procedure to be done during radical prostatectomy or penile re-innervation surgery after radical prostatectomy is requested, coverage will be denied because, in the absence of an adequate body of peer-reviewed literature supporting its efficacy, it is deemed experimental, investigational, or unproven.
- C. **CPT** codes that may be submitted to indicate sural nerve graft during prostatectomy are: **64890, 64891,**

64892, 64893, 64895, 64896, 64897, 64898, and 64901.

References:

National Comprehensive Cancer Network Guidelines Version 2.2018, Prostate Cancer, at NCCN.org

Souza Trindade JC, Viterbo F, Petean Trindade A, Fávoro WJ, Trindade-Filho JCS. Long-term follow-up of treatment of erectile dysfunction after radical prostatectomy using nerve grafts and end-to-side somatic-autonomic neurotaphy: a new technique. *BJU Int.* 2017;119(6):948-954(Jun)

National Comprehensive Cancer Network Guidelines Version 3.2016, Prostate Cancer, at NCCN.org

Siddiqui KM1, Billia M, Mazzola CR, Alzahrani A, Brock GB, Scilley C, Chin JL. Three-year outcomes of recovery of erectile function after open radical prostatectomy with sural nerve grafting. *J Sex Med.* 2014 ;11(8):2119-24(Aug)

Davis JW, Chang DW, Chevray P, et al. Randomized phase II trial evaluation of erectile function after attempted unilateral cavernous nerve-sparing retropubic radical prostatectomy with versus without unilateral sural nerve grafting for clinically localized prostate cancer. *Eur Urol.* 2009;55(5):1135-1143.(Sep)

Mancuso P, Rashid P. Nerve grafting at the time of radical prostatectomy: should we be doing it? *ANZ J Surg* 2008;78(10):859-863 (Oct)

Zorn KC, Bernstein AJ, Gofrit ON, *et al.* Long-term functional and oncological outcomes of patients undergoing sural nerve interposition grafting during robot-assisted laparoscopic radical prostatectomy. *J Endourol* 2008;22(4):1005-1012 (May)

Hanson GR, Borden LS Jr, Backous DD, *et al.* Erectile function following unilateral cavernosal nerve replacement. *Can J Urol* 2008;15(2):3990-3993 (May)

Nelson WG, Carter HB, DeWeese TL, *et al.* Erectile Function after Radical Prostatectomy. In Prostate Cancer. Ch 88 in Abeloff MD, Armitage JO, Niederhuber JE, *et al.* *Abeloff's Clinical Oncology* 4th ed. Philadelphia. Churchill Livingstone Elsevier. 2008

Mikhail AA, Song DH, Zorn KC, *et al.* **Sural nerve grafting in robotic laparoscopic radical prostatectomy: interim report.** *J Endourol* 2007;21(12):1547-1551 (Dec)

Fujioka M, Tasaki I, Kitamura R, *et al.* Cavernous nerve graft reconstruction using an autologous nerve guide to restore potency. *BJU Int* 2007;100(5):1107-11109 (Nov)

Namiki S, Saito S, Nakagawa H, *et al.* Impact of unilateral sural nerve graft on recovery of potency and continence following radical prostatectomy: 3-year longitudinal study. *J Urol* 2007;178(1):212-216 (Jul)

Joffe R, Klotz LH. Results of unilateral genitofemoral nerve grafts with contralateral nerve sparing during radical prostatectomy. *Urology* 2007;69(6):1161-1164 (Jun)

Saito S, Namiki S, Numahata K, *et al.* Impact of unilateral interposition sural nerve graft on the recovery of sexual function after radical prostatectomy in Japanese men: a preliminary study. *Int J Urol* 2007;14(2):133-139 (Feb)

Secin FP, Koppie TM, Scardino PT, *et al.* Bilateral cavernous nerve interposition grafting during radical retropubic prostatectomy : Memorial Sloan-Kettering Cancer Center experience. *J Urol* 2007;177(2):664-668 (Feb)

Walsh PC, Partin AW. Anatomic Radical Retropubic Prostatectomy. Ch 97 in Wein AJ ed-in-chief, Kavoussi LR, Novick AC, Partin AW, Peters CA eds. *Campbell-Walsh Urology*, 9th ed. Philadelphia. Saunders Elsevier. 2007

Donatucci CF, Greenfield JM. Recovery of sexual function after prostate cancer treatment. *Curr Opin Urol* 2006;16(6):444-448 (Nov)

Sim HG, Klotz M, Lange PH, *et al.* Two-year outcome of unilateral sural nerve interposition graft after radical prostatectomy. *Urol* 2006;68(6):1290-1294 (Jun)

Raina R, Agarwal A, Zippe CD. Management of erectile dysfunction after radical prostatectomy. *Urol* 2005;66(5):923-929 (Nov)

Singh H, Karakiewicz P, Shariat SF *et al.* Impact of unilateral interposition sural nerve grafting on recovery of urinary function after radical prostatectomy. *Urology* 2004;63(6):1122-1127 (Jun)

Jordan GH [What's new in urology.](#) *J Am Coll Surg* 2003; 197(3): 444-57 (Sep)

Lepor H. Practical considerations in radical retropubic prostatectomy. *Urol Clin N Amer* 2003;30(2):363-368 (May)

Chang DW, Wood CG, Kroll SS *et al.* Cavernous Nerve Reconstruction to Preserve Erectile Function following Non-Nerve-Sparing Radical Retropubic Prostatectomy: A Prospective Study. *Plast Reconstr Surg* 2003;111(3):1174-1181 (Mar)

Jakse G, Brehmer B, Borchers H, *et al.* Potency-sparing radical perineal prostatectomy. *Urologe* 2003;42(3):382-386 (Mar)

Anastiadis AG, Benson MC, Rosenwasser MP, *et al.* Cavernous nerve graft reconstruction during radical prostatectomy or radical cystectomy: safe and technically feasible. *Prostate Cancer Prostatic Dis.* 2003;6(1):56-60 (Jan)

Williams RD. What's new in urology. *J Am Coll Surg* 2002;195(5) 663-674 (Nov)

Kim ED, Nath R, Slawin KM *et al.* Bilateral nerve grafting during radical retropubic prostatectomy: extended follow-up. *Urology* 2001;58(6):983-987 (Dec)

Mccullough AR. Radical Prostatectomy: Prevention and Management of Erectile Dysfunction following Radical Prostatectomy. *Urol Clin N Amer* 2001;28(3):613-627 (Aug)

Kim ED, Nath R, Kadmon D *et al.* Bilateral nerve grafting during radical retropubic prostatectomy: 1-year follow-up. *J Urol* 2001;165(6):1960-1968 (Jun)

Scardino PT, Kim ED. Rationale for and results of nerve grafting during radical prostatectomy. *Urology* 2001;57(6):1016-1019 (Jun)

Walsh PC. Nerve grafts are rarely necessary and are unlikely to improve sexual function in men undergoing anatomic radical prostatectomy. *Urology* 2001;57(6):1020-1024 (Jun)

Kim ED, Scardino PT, Hampel O, *et al.* Interposition sural nerve grafting during radical retropubic prostatectomy. *J Urol* 1999;161(1)188-192 (Jan)

Drafted By: B. Fisher, MD/09/24/03

Approved By/Date: QM Committee 10/28/03

Revised By/ Date: QM Committee 02/22/05

Revised By/Date: B. Fisher, MD 08/26/08

Approved By/Date: QM Committee 09/11/07

Revised By/Date: B. Fisher, MD 07/23/09

Approved By/Date: QM Committee 09/08/09

Revised By/Date: M. McNeil, MD 10/07/11

Approved By/Date: QM Committee 10/25/11

Reviewed w/o Revision By/Date: M. McNeil, MD 10/14/13

Approved By/Date: QM Committee 10/22/13

Reviewed w/o Revision By/Date: M. McNeil, MD 06/01/16

Approved By/Date: QM Committee 6/21/16

Revised By/Date: M. McNeil, MD 03/13/18

Approved By/Date: QM Committee 04/17/18

*Consistent with Summary Plan Description (SPD). When there is discordance between this policy and the SPD, the provisions of the SPD prevail.