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[1] Bonica JJ. Peripheral mechanisms and pathways of parturition pain. Br J Anesth, 1979; 51:53-9.

[2] Augustinsson LE, Bohlin P, Bundsen P, Carlsson CA, Forssman L, Sjoberg P, et al. Pain relief during delivery by transcutaneous electrical nerve stimulation. Pain, 1977; 4(1):59-65.

[3] Pei DE, Huang YL. Use of acupuncture analgesia during childbirth. J Tradit Chin Med, 1985; 5(4):253-5.

[4] Neumark J, Pauser G, Scherzer W. Der wehenschmerz wahrend der aeburt. Zur Analyse der analget ischen wirkung der transkutanen nervenstimulation (TNS) im vergleich mit Pethidin and Plazebos. Prakt Anasth, 1978; 13:13-20.

[5] Melzack R. Prolonged relief of pain by brief, intense transcutaneous somatic stimulation. Pain, 1975; 1(4):357-73.

[14] Martensson L, Wallin G. Labour pain treated with cutaneous injections of sterile water: a randomised controlled trial. *Br J Obstet Gynaecol*, 1999; 106(7):633-7.

[15] Lowdermilk DL, Perry SE. *Maternity & Women's Health Care*. 3<sup>rd</sup> ed. Mosby, 2004.

[ ]

[ ]

[18] Trolle B, Moller M, Kronborg H, Thomsen S. The effect of sterile water blocks on low back labor pain. *Am J Obstet Gynecol*, 1991; 164(5 Pt 1):1277-81.

[19] Spiby H, Slade P, Escott D, Henderson B, Fraser RB. Selected coping strategies in labor: an investigation of women's experiences. *Birth*, 2003; 30(3):189-94.

[20] Stephens MB, Fenton LA, Fields SA. Obstetric analgesia. *Primary Care*, 2000; 27(1):203-20.

[6] Rose D. Local anaesthesia in the first and second stage labor. *New Engl J Med*, 1929; 201:125.

[7] Jouppila R, Nuoranne E, Tervila L, Gustafsson B. Epicutaneous application of A2358 compresses containing ketocaine for pain relief in labor. A multicenter double-blind trial. *Acta Obstet Gynecol Scand*, 1983; 62(4):321-4.

[8] Permin M, Ipsen L, Kern Hansen M. Relief from pain localized to the lower back in early labour. *Geburtsh Perinetal*, 1981; 182:360-3.

[9] Ader L, Hansson B, Wallin G. Parturition pain treated by intracutaneous injections of sterile water. *Pain*, 1990; 41(2):133-8.

[10] Sand T, Bovim G, Helde G. Intracutaneous sterile water injections do not relieve pain in cervicogenic headache. *Acta Neurol Scand*, 1992; 86(5):526-8.

[11] Leeman L, Fontaine P, King V, Klein MC, Ratcliffe S. The nature and management of labor pain: part I. Nonpharmacologic pain relief. *Am Fam Physician*, 2003; 68(6):1109-12.

[12] Balsbaugh TA. Cutaneous injections of sterile water for the relief of labor pain. *J Fam Pract*, 1999; 48(10):746-7.

[13] Labrecque M, Nouwen A, Bergeron M, Rancourt JF. A randomized controlled trial of nonpharmacologic approaches for relief of low back pain during labor. *J Fam Pract*, 1999; 48(4):259-63.

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