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Interventions for preventing and treating pelvic and back pain in pregnancy.

[Pennick V](#), [Liddle SD](#).

Cochrane Editorial Unit, The Cochrane Collaboration, 11-13 Cavendish Square, London, UK, W1G 0AN.

Abstract

BACKGROUND: More than two-thirds of pregnant women experience low-back pain (LBP) and almost one-fifth experience pelvic pain. Pain increases with advancing pregnancy and interferes with work, daily activities and sleep.

OBJECTIVES: To assess the effects of interventions for preventing and treating pelvic and back pain in pregnancy.

SEARCH METHODS: We searched the Cochrane Pregnancy and Childbirth Group's Trials Register (18 July 2012), identified related studies and reviews from the Cochrane Back Review Group search strategy to July 2012, and checked reference lists from identified reviews and studies.

SELECTION CRITERIA: Randomised controlled trials (RCTs) of any treatment to prevent or reduce the incidence or severity of pelvic or back pain in pregnancy.

DATA COLLECTION AND ANALYSIS: Two review authors independently assessed risk of bias and extracted data. Quality of the evidence for outcomes was assessed using the five criteria outlined by the GRADE Working Group.

MAIN RESULTS: We included 26 randomised trials examining 4093 pregnant women in this updated review. Eleven trials examined LBP (N = 1312), four examined pelvic pain (N = 661), and 11 trials examined lumbo-pelvic (LBP and pelvic) pain (N = 2120). Diagnoses ranged from self-reported symptoms to the results of specific tests. All interventions were added to usual prenatal care and unless noted, were compared to usual prenatal care. For LBP, there was low-quality evidence that in general, the addition of exercise significantly reduced pain (standardised mean difference (SMD) -0.80; 95% confidence interval (CI) -1.07 to -0.53; six RCTs, N = 543), and disability (SMD -0.56; 95% CI -0.89 to -0.23; two RCTs, N = 146); and water-based exercise significantly reduced LBP-related sick leave (risk ratio (RR) 0.40; 95% CI 0.17 to 0.92; one RCT, N = 241). Low-quality evidence from single trials suggested no significant difference in pain or function between two types of pelvic support belt, between osteopathic manipulation (OMT) and usual care or sham ultrasound (sham US). Very low-quality evidence suggested that a specially-designed pillow may relieve night pain better than a regular pillow. For pelvic pain, there was moderate-quality evidence that acupuncture significantly reduced evening pain better than exercise; both were better than usual care. Low-quality evidence from single trials suggested that adding a rigid belt to exercise improved average pain but not function; acupuncture was significantly better than sham acupuncture for

improving evening **pain** and function, but not average **pain**; and evening **pain** relief was the same following either deep or superficial acupuncture. For lumbo-pelvic **pain**, there was moderate-quality evidence that an eight- to 20-week exercise program reduced the risk of women reporting lumbo-pelvic **pain** (RR 0.85; 95% CI 0.73 to 1.00; four RCTs, N = 1344); but a 16- to 20-week training program was no more successful than usual care at preventing pelvic **pain** (one RCT, N = 257). Low-quality evidence suggested that exercise significantly reduced lumbo-pelvic-related sick leave (RR 0.76; 95% CI 0.62 to 0.94, two RCTs, N = 1062), and improved function. Low-quality evidence from single trials suggested that OMT significantly reduced **pain** and improved function; either a multi-modal intervention that included manual therapy, exercise and education (MOM) or usual care significantly reduced disability, but only MOM improved **pain** and physical function; acupuncture improved **pain** and function more than usual care or physiotherapy; **pain** and function improved more when acupuncture was started at 26- rather than 20- weeks' gestation; and auricular (ear) acupuncture significantly improved these outcomes more than sham acupuncture. When reported, adverse events were minor and transient.

AUTHORS' CONCLUSIONS: Moderate-quality evidence suggested that acupuncture or exercise, tailored to the stage of **pregnancy**, significantly reduced evening pelvic **pain** or lumbo-pelvic **pain** more than usual care alone, acupuncture was significantly more effective than exercise for reducing evening pelvic **pain**, and a 16- to 20-week training program was no more successful than usual prenatal care at preventing pelvic or LBP. Low-quality evidence suggested that exercise significantly reduced **pain** and disability from LBP. There was low-quality evidence from single trials for other outcomes because of high risk of bias and sparse data; clinical heterogeneity precluded pooling. Publication bias and selective reporting cannot be ruled out. Physiotherapy, OMT, acupuncture, a multi-modal intervention, or the addition of a rigid pelvic belt to exercise seemed to relieve pelvic or **back pain** more than usual care alone. Acupuncture was more effective than physiotherapy at relieving evening lumbo-pelvic **pain** and disability and improving **pain** and function when it was started at 26- rather than 20-weeks' gestation, although the effects were small. There was no significant difference in LBP and function for different support belts, exercise, neuro emotional technique or spinal manipulation (SMT), or in evening pelvic **pain** between deep and superficial acupuncture. Very low-quality evidence suggested a specially-designed pillow may reduce night-time LBP. Further research is very likely to have an important impact on our confidence in the estimates of effect and is likely to change the estimates. Future research would benefit from the introduction of an agreed classification system that can be used to categorise women according to presenting symptoms.

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