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heartburn in pregnancy

Pyrosis de la grossesse : évaluation de l'acupuncture

Related condition: Pyrosis

1. Systematic Reviews and Meta-Analysis

☆☆☆	Evidence for effectiveness and a specific effect of acupuncture
☆☆	Evidence for effectiveness of acupuncture
☆	Limited evidence for effectiveness of acupuncture
Ø	No evidence or insufficient evidence

1.1. Phupong 2015 Ø

Phupong V, Hanprasertpong T. Interventions for heartburn in pregnancy. Cochrane Database Syst Rev. 2015. [183313].

Background	Heartburn is one of the most common gastrointestinal symptoms in pregnant women. It can occur in all trimesters of pregnancy. The symptoms of heartburn in pregnancy may be frequent, severe and distressing, but serious complications are rare. Many interventions have been used for the treatment of heartburn in pregnancy. These interventions include advice on diet, lifestyle modification and medications. However, there has been no evidence-based recommendation for the treatment of heartburn in pregnancy.
Objectives	To assess the effects of interventions for relieving heartburn in pregnancy.
Methods	Search Methods: We searched the Cochrane Pregnancy and Childbirth Group's Trials Register (30 June 2015), ClinicalTrials.gov (2 March 2015), Asian & Oceanic Congress of Obstetrics & Gynaecology (AOCOG) conference proceedings (20-23 October 2013, Centara Grand & Bangkok Convention Centre, Bangkok, Thailand), and reference lists of retrieved studies. Selection Criteria: Randomised controlled trials (RCTs) and quasi-RCTS of interventions for heartburn in pregnancy compared with another intervention, or placebo, or no intervention. Cluster-RCTs would have been eligible for inclusion but none were identified. We excluded studies available as abstracts only and those using a cross-over design. Interventions could include advice on diet, lifestyle modification and medications (such as antacids, sucralfate, histamine 2-receptor antagonists, promotility drugs and proton pump inhibitors (PPIs)). Data Collection and Analysis: Two review authors independently assessed trials for inclusion and risk of bias, extracted data and checked them for accuracy.

Main Results	We included nine RCTs involving 725 women. However, five trials did not contribute data. Four trials involving 358 women contributed data. Trials were generally at mixed risk of bias. We only identified data for three comparisons: pharmaceutical treatment versus placebo or no treatment; acupuncture versus no treatment and pharmacological intervention versus advice on dietary and lifestyle changes. Pharmaceutical treatment compared with placebo or no treatment Two trials evaluated any pharmaceutical treatment compared with placebo or no treatment. One trial examined a treatment rarely used nowadays (intramuscular prostigmine 0.5 mg versus placebo). One trial evaluated the effect of magnesium and aluminium hydroxide plus simethicone liquid and tablet compared with placebo. For the primary outcome of this review (relief of heartburn), women who received pharmaceutical treatment reported complete heartburn relief more often than women receiving no treatment or placebo (risk ratio (RR) 1.85, 95% confidence interval (CI) 1.36 to 2.50 in two RCTs of 256 women, I(2) = 0%, moderate-quality evidence). Data on partial relief of heartburn were heterogenous and showed no clear difference (average RR 1.35, 95% CI 0.38 to 4.76 in two RCTs of 256 women, very low-quality evidence). In terms of secondary outcomes, there was no clear difference in the rate of side effects between the pharmaceutical treatment group and the placebo/no treatment group (RR 0.63, 95% CI 0.21 to 1.89 in two RCTs of 256 women, very low-quality evidence). Pharmacological intervention versus advice on dietary and lifestyle choicesOne study compared 1 g of sucralfate with advice on dietary and lifestyle choices in treating heartburn. More women in the sucralfate group experienced complete relief of heartburn compared to women who received advice on diet and lifestyle choices (RR 2.41, 95% CI 1.42 to 4.07; participants = 65; studies = one). The only secondary outcome of interest addressed by this trial was side effects. The evidence was not clear on intervention side effects rate between the two groups (RR 1.74, 95% CI 0.07 to 41.21; participants = 66; studies = one). There was only one instance of side effects in the pharmacological group. **Acupuncture compared with no treatment, One trial evaluated acupuncture compared with no treatment but did not report data relating to this review's primary outcome (relief of heartburn). In terms of secondary outcomes, there was no difference in the rate of side effects between women who had acupuncture and women who had no treatment (RR 2.43, 95% CI 0.11 to 55.89 in one RCT of 36 women). With regard to quality of life, women who had acupuncture reported improved ability to sleep (RR 2.80, 95% CI 1.14 to 6.86) and eat (RR 2.40, 95% CI 1.11 to 5.18 in one RCT of 36 women).**The following secondary outcomes were not reported upon in any of the trials included in the review: miscarriage, preterm labour, maternal satisfaction, fetal anomalies, intrauterine growth restriction, low birthweight.

Authors' Conclusions	There are no large-scale RCTs to assess heartburn relief in pregnancy. This review of nine small studies (which involved data from only four small studies) indicates that there are limited data suggesting that heartburn in pregnancy could be completely relieved by pharmaceutical treatment. Three outcomes were assessed and assigned a quality rating using the GRADE methods. Evidence from two trials for the outcome of complete relief of heartburn was assessed as of moderate quality. Evidence for the outcomes of partial heartburn relief and side effects was graded to be of very low quality. Downgrading decisions were based in part on the small size of the trials and on heterogenous and imprecise results. There are insufficient data to assess acupuncture versus no treatment and no data to assess other comparisons (miscarriage, preterm labour, maternal satisfaction, fetal anomalies, intrauterine growth restriction, low birthweight).Further RCTs are needed to fully evaluate the effectiveness of interventions for heartburn in pregnancy. Future research should also address other medications such as histamine 2-receptor antagonists, promotility drugs, proton pump inhibitors, and a raft-forming alginate reflux suppressant in treatment of heartburn in pregnancy. **More research is needed on acupuncture** and other complimentary therapies as treatments for heartburn in pregnancy. Future research should also evaluate any adverse outcomes, maternal satisfaction with treatment and measure pregnant women's quality of life in relation to the intervention.

2. Clinical Practice Guidelines

⊕ positive recommendation (regardless of the level of evidence reported)
Ø negative recommendation (or lack of evidence)

2.1. National Institute for Health and Care Excellence (NICE, UK) 2021 Ø

NICE guideline NG201 : Antenatal care [S] Management of heartburn in pregnancy. National Institute for Health and Care Excellence (NICE). 2021:59P. [219369]. URL

The committee did not make any recommendations about acupuncture or proton pump inhibitors (PPIs) because, although there was some evidence that acupuncture is effective in alleviating heartburn and that PPI use in the first trimester is not harmful to the baby, it was of very low quality and not good enough to support recommending them to be used routinely. In addition, there was no evidence on H2 receptor antagonist (H2RA) therapy to treat heartburn in pregnancy.
Although there was some evidence that acupuncture was effective compared to no acupuncture, and that exposure to PPIs is not harmful to the baby, the committee decided that it was not sufficient to merit recommending their use. For the use of acupuncture to treat heartburn during pregnancy, one small RCT of 36 pregnant women with symptoms of dyspepsia conducted in Brazil, an upper-middle income country, was identified.
However overall the committee agreed that the single small study with very low quality evidence was insufficient evidence on which to base a recommendation which would reflect a change in practice.