QUESTION: Is acupuncture effective for the treatment of chronic pain?

Data sources
Studies were identified by searching Medline (1966–99), the Cochrane Complementary Medicine Field trials registry, and the University of Maryland Complementary and Alternative Medicine in Pain (CAMPAIN) databases using the terms acupuncture; alternative medicine; electroacupuncture; moxibustion; injections, intramuscular; medicine, traditional chinese; trigger point therapy; and auriculotherapy. Conference proceedings and bibliographies of relevant articles were also searched.

Study selection
English language randomised trials were selected if they included patients who had had pain for >3 months, used needles rather than surface electrodes, and had a measurement for pain relief.

Data extraction
Data were extracted on acupuncture and control method, study and patient characteristics, methodological quality (low quality was defined as a score <3 on a 5 point scale; high quality was defined as a score ≥3), and outcomes.

Main results
51 studies (2423 patients with chronic pain, median sample size 18 patients per group) met the inclusion criteria. Follow up duration ranged from 1 day to 1 month. Because of clinical heterogeneity, studies were not statistically pooled (meta-analysed). 21 studies showed acupuncture to be more effective than the reference group (a positive outcome), 3 showed acupuncture to be less effective (a negative outcome), and 27 showed no difference (a neutral outcome). 34 studies (67%) had low quality; these studies were associated with positive outcomes. Van Tulder et al did a systematic review of the effectiveness of acupuncture specifically for low back pain. 3 trials comparing acupuncture with no treatment were found, all of low quality, but in this case, conflicting findings. Given the association between low quality studies and positive outcomes, further high quality research is needed to definitively address this question.

The review by Ezzo et al may help nurses who practise pain management to answer patient questions about the effectiveness of acupuncture as a treatment option for their chronic pain.

Conclusions
For patients with chronic pain, limited evidence exists that acupuncture is more effective than no treatment and inconclusive evidence exists that acupuncture is more effective than placebo, sham acupuncture, or standard care.