

CORRESPONDENCE

Efficacy of acupuncture in asthma

To the Editor:

I read with interest the recent meta-analysis by MARTIN *et al.* [1], finding little evidence for an effect of acupuncture as a treatment for asthma, but was not surprised by the result. I spent my 6-week medical student elective in 1988 at the ("Western"-style medicine) Guangzhou Institute of Respiratory Diseases, Guangzhou, China. As part of the elective I reviewed, with the help of the clinic doctors, any treatments currently being used by 58 of 66 asthmatic patients attending the weekly respiratory clinic. While all except a first-time patient were taking Western treatments prescribed at the clinic, 50 (86%) had seen a traditional Chinese medical doctor for their asthma and 32 (55%) were currently using Chinese herbs. Lists of herbs being used were provided by 17 patients and 15 of these included ma huang (*herba ephedra*), the plant from which ephedrine was first isolated. However, only 18 (31%) patients had ever tried acupuncture for their asthma, five of whom volunteered that acupuncture had little effect. Four of the patients had had acupuncture on one of the san fu tian, the three hottest days of the year according to the lunar calendar, to reinforce the body's yang to protect against winter asthma in the yin time of year. I was also told that in some areas, injection with dead tubercle into acupuncture points was used as a treatment for patients with intrinsic asthma. This is interesting in view of the recent discussion relating to the role of bacilli Calmette-Guérin vaccination and mycobacteria in relation to allergic disease development [2].

Asthmatic patients choosing to attend a Western-style hospital may have been a selected group not responding to acupuncture. However, doctors at the Guangzhou Traditional Chinese Medical College, which I also visited during my elective, held the opinion that acupuncture was not the treatment of choice for asthma as it was not particularly effective. MARTIN *et al.* [1] conclude from their meta-analysis that a full-scale randomised clinical trial is needed, but my experiences lead me to suggest that some prior qualitative work with Chinese medical practitioners treating asthmatic patients is needed to define the parameters of such a study, if one is in fact needed.

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References

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Asthma variability

To the Editor:

The article by ZHANG *et al.* [1] demonstrated the ability to reanalyse previously published data and reformulate the conclusions. The analysis describes the heterogeneity of asthma-treatment response among patients treated with inhaled corticosteroids, montelukast or placebo. Although these studies demonstrated that both active therapies are superior to placebo and that beclomethasone is superior to montelukast, appropriately, the authors point out that the response to specific end-points is inconsistent. They illustrate the response to active treatment quite well with distribution curves and conclude that there is no simple haplotype to describe a responder. They propose that response to therapy is dependent on multiple variables. There is a normal unimodal distribution curve for lung function and symptom scores for both active treatments as well as placebo. The active therapies show the distribution curve moving in the direction of improvement, with beclomethasone greater than montelukast. Studying the placebo response illustrates the variable nature of asthma, as some placebo-treated patients exhibit significant improvement, some significant worsening and many remain unchanged. Beyond studying the impact

of the medication is the importance of understanding the variable nature of asthma, which is essential in understanding the true response or lack of improvement following therapy. The logic of finding a genetic response would also suggest that if one builds a model for studying pharmacogenomic haplotypes for active therapies, one must also consider a model to study placebo haplotypes.

The "within-patient variability" probably reflects the unpredictability of the disease. The definition of asthma of the National Heart, Lung and Blood Institute (NHLBI) [2] includes "widespread but variable airflow obstruction that is often reversible either spontaneously or with treatment." This variable nature of the disease may be more important than finding the "surrogate clinical marker of asthma control." Mean data may be relevant and studying multiple outcomes is essential. When the majority of end-points demonstrate that one therapy is better than the other, then the search for the ultimate end-point may be unnecessary. Although there is not a clear relationship between the end-points that are measured, what is unambiguous is that inhaled corticosteroids for all clinical end-points are superior to leukotriene-receptor antagonists. This article is a good intellectual exercise but does not change previous conclusions. The ultimate end-point