Evidence Reports of Kampo Treatment

Task Force for Evidence Reports / Clinical Practice Guideline Committee for EBM, the Japan Society for Oriental Medicine

18. Symptoms and Signs

Reference

Igarashi I. Clinical study of traditional Chinese medicine therapy for post-operative or post-traumatic swelling in lower extremities. *Seikeigeka* (*Orthopedic Surgery*) 1993; 44: 127–31 (in Japanese).

1. Objectives

To evaluate the efficacy and safety of saireito (柴苓湯) for posttraumatic or postoperative swelling in the lower extremities.

2. Design

Randomized controlled trial (RCT).

3. Setting

The department of orthopedic surgery of one hospital, Japan.

4. Participants

Sixty-four inpatients receiving treatment for trauma or edema in the lower extremities.

5. Intervention

Arm 1: oral administration of TSUMURA Saireito (柴苓湯) Extract Granules 3.0 g t.i.d. between or before meals (n=38).

Arm 2: no administration of Kampo medicine (n=26).

Analgesics were used as appropriate, but anti-swelling drugs were not used.

6. Main outcome measures

Swelling ratios calculated using circumferences of bilateral thighs, lower limbs and feet, and the number of days required for swelling disappearance.

7. Main results

Swelling resolution required 13–105 days after surgery or trauma (mean, 59.4 days) in arm 2, and 0–64 days (mean, 15.8 days) in arm 1. Swelling ratio was significantly smaller in arm 1 than in arm 2 at 1–6 weeks postoperatively (postoperative 1–6 weeks, P<0.05; 2–5 weeks, P<0.01). Nineteen patients in arm 1 who started saireito preoperatively required 0–56 days (mean, 9.5 days) for postoperative swelling resolution, and 10 of them did not develop swelling.

8. Conclusions

Saireito is effective for posttraumatic or postoperative swelling in the lower extremities.

9. From Kampo medicine perspective

None.

10. Safety assessment in the article

Saireito administration was not associated with adverse reactions or electrolyte imbalance.

11. Abstractor's comments

This clinically useful, interesting study investigated the efficacy of saireito for swelling in the lower extremities after trauma or surgery. However, some patients in arm 1 had no swelling. Furthermore, 10 of 19 patients who started saireito preoperatively did not develop swelling, indicating that 10 of 38 patients in arm 1 had no swelling at the beginning of the study. In contrast, all patients in Arm 2 had swelling at the beginning of the study. This suggests a considerable between-arm difference in the baseline distribution of patients who had swelling. Preoperative patients without swelling or postoperative patients with swelling should have been allocated appropriately to meet the study objectives. Nevertheless, the focus of this study is excellent, and increasing sample size and dividing subjects into appropriate groups at the start will improve the study.

12. Abstractor and date

Goto H, 13 September 2008, 1 June 2010, 31 December 2013.