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

	Kumada T, Kumada H, Yoshiba M, et al. Effects of Shakuyaku-kanzo-to (Tsumura TJ-68) on musc cramps accompanying cirrhosis in a placebo-controlled double-blined parallel study. <i>Rinsho Iyak</i> (<i>Journal of Clinical Therapeutics and Medicine</i>) 1999; 15: 499-523 (in Japanese with Englis abstract). Ichushi Web ID: 1999184114 MOL, MOL-Lib
	Kumada T, Kiriyama I, Sone Y, et al. EBM-based Kampo therapy for gastrointestinal diseases 3. Efficace of shakuyakukanzoto for "muscle cramps in the calves" associated with hepatic cirrhosis [*] . <i>Nihon Toy Igaku Zasshi (Kampo Medicine)</i> 2003; 54: 536-8 (in Japanese) CiNii
1.	Objectives To evaluate the efficacy and safety of shakuyakukanzoto (芍薬甘草湯) for relief of muscle cramp.
2.	Design Double-blind, randomized controlled trial (DB-RCT).
3.	Setting
	A total of 23 nationwide facilities including university hospitals (departments of internal medicine ar gastroenterology), Japan.
4.	Participants
	One-hundred and twenty-six patients with 2 or more episodes of muscle cramp weekly during the observation period (4 or more bi-weekly), aged ≥ 20 years and ≤ 70 years. These patients were also taking other drugs for a variety of problems including serious hepatic, renal, and cardiac diseases, pregnance hepatic failure, complications of hepatocellular carcinoma, electrolyte abnormality, and hypertension. After excluding 12 ineligible patients and 13 with incomplete data, 101 patients were included for statistical evaluation.
5.	Intervention Arm 1: administration of 7.5 g/day of TSUMURA Shakuyakukanzoto (芍薬甘草湯) Extract Granules in divided doses (before meals) for 2 weeks following a 2-week observation period (n=65). Arm 2: administration of the same dose of placebo granules at the same frequency for 2 weeks following 2-week observation period (n=61).
6.	Main outcome measures
	Frequency of episodes of muscle cramp, duration of each episode, severity of pain (at completion of the
7.	study compared with baseline values determined during the observation period). Main results
8.	The percentage of patients with frequency of muscle cramp episodes rated "improved" or higher w significantly larger in the shakuyakukanzoto group than in the placebo group (67.3% vs 37.5% respectively). The percentage of patients with improved final global rating, which takes duration of eace episode and severity of pain into account, was significantly larger in the shakuyakukanzoto group (69.2 vs 28.6% , respectively). The percentage of patients with a utility rating of "useful" or higher was also significantly larger in the shakuyakukanzoto group (63.3% vs 34.1% , respectively). Conclusions
0.	Shakuyakukanzoto is a clinically useful Kampo formulation with excellent efficacy and safety for musc cramp.
9.	From Kampo medicine perspective
10	None.
ιυ.	Safety assessment in the article Adverse drug reactions occurred in 7 patients (14.3%) receiving shakuyakukanzoto and 2 patients (4.99) receiving placebo. The main adverse drug reaction was pseudoaldosteronism in the shakuyakukanzot
11.	group and gastrointestinal symptoms in the placebo group. No serious adverse drug reactions occurred. Abstractor's comments This original article re-evaluates shakuyakukanzoto. The larger total amount of kanzo, contained
	shakuyakukanzoto, is associated with higher incidence of pseudoaldosteronism. Since in the present stu- incidence of adverse drug reactions tended to be higher in the sahkuyakukanzoto group, although the was no significant between-group difference in incidence, reduction in the dose is recommended in t future.
	Abstractor and date