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

21. Others	
References	
	Niitsuma T. Fukuda T. Yamamoto S. et al. Effects of saibokuto and other saiko-zai (saiko-drugs) on
	prednisolone metabolism Kanno to Meneki-Arerugi (Kanno and Immuno-allerov) 1993: 7: 43–52 (in
	Japanese)
	Japanese). Homma M. Oka K. Ikashima K. at al. Different effects of traditional Chinese medicines containing
	similar herbol constituents on produced on phormonolizations for the second of the sec
	similar nerotal constituents on preumsoione pharmacokinetics. Journal of rharmacy and pharmacy line pharmacokinetics. Journal of Pharmacy and pharmacy line pharmacokinetics. Journal of Pharmacy and Ph
-	Pharmacology 1995; 47: 687–92. CENTRAL ID: CN-001206/1, Pubmed ID: 8585574
1	. Objectives
	To evaluate the effects of shosaikoto (小柴胡湯), saibokuto (柴个湯), and saireito (柴个湯) on
	prednisolone metabolism.
2	. Design
	Randomized cross-over controlled trial (RCT-cross over).
3	. Setting
	Department of Clinical Pharmacology, Tokyo University of Pharmacy and Life Science, 3rd Department of
	Internal Medicine, Tokyo Medical University, Japan.
4	. Participants
	Twenty-two nonsmoking healthy males who took no drug that could affect glucocorticoid metabolism.
5	Intervention
•	Since allocation of patients by administration pattern to these treatment arms is not known, the treatment
	arms are described in terms of treatment ranimen
	Study 1
	Study 1 Arm 1:TSUMIDA Shoopikata (小些却温) Extract Granulas 2.5 g t i d for 2 days. On the third study day
	And 1. ISOMOKA Shosakolo $(1, +, +)$ (3) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
	To mg predmisoione was administered orany in combination with the test preparation (n=6).
	Arm 2: predmissione to mg (n=6).
	Age, 21.8±1.2 years; body weight, 63.8±6.8 kg
	Study 2
	Arm 1: TSUMURA Saibokuto (架朴湯) Extract Granules 2.5 g t.i.d. for 3 days. On the third study day, 10
	mg prednisolone was administered orally in combination with the test preparation $(n=9)$.
	Arm 2: prednisolone 10 mg (n=9).
	age, 23.5 ± 1.5 years; body weight, 61.3 ± 4.5 kg
	Study 3
	Arm 1: TSUMURA Saireito (柴苓湯) Extract Granules 3.0 g t.i.d. for 3 days (n=7)
	Arm 2: prednisolone 10 mg (n=7)
	Age, 22.4 ± 1.9 years; body weight, 62.0 ± 7.1 kg
	Following a 2-week washout period, subjects were crossed over to the opposit arm.
6	. Main outcome measures
	Areas under the time-blood concentration curve (AUC) of prednisolone and prednisone, measured before
	and 1, 2, 4, and 6 h after treatment.
7	Main results
'	After the intervention, the AUC of prednisolone was significantly decreased to $0.94-0.78$ mghl ⁻¹ in the
	showing a roun $(P_{\mathcal{L}}(0,5))$ similar the increased to $(0,2,1)$ to make the science of the
	unchanged in the service group. After the intervention, the AUC ratio of prednisolone to prednisolone to prednisolone to $\frac{1}{2}$
	which reflects the activity of 110 hydroxysteroid debudrogenese (11 USD) on in vivo steroid metabolic
	which reflects the activity of 11p-hydroxysteroid denydrogenase (11-hSD), an m vivo steroid metabolic
	enzyme, was increased in the shosarkoto group ($P<0.01$), decreased in the shokuto group ($P<0.01$), and
	unchanged in the salreito group.
δ	. Conclusions
	Different types of saiko drugs affect steroid pharmacokinetics differently. 11-HSD activity is decreased,
	unaffected, and increased by salbokuto, salreito, and shosalkoto, respectively.
9	. From Kampo medicine perspective
	None.
1	0. Safety assessment in the article
	Not mentioned.
1	1. Abstractor's comments
	Kampo formulations have been used to stabilize medical conditions treated with steroids, with the aim of
	decreasing the use of steroids. This valuable study examined the effect of each saiko drug on steroid
	pharmacokinetics. An RCT in steroid-treated patients, but not healthy subjects as in the present study
	would clarify the meaning of the present results
1	2. Abstractor and date
1	Tauruala V 26 April 2008 1 Juna 2010 21 December 2012

Tsuruoka K, 26 April 2008, 1 June 2010, 31 December 2013.