Evaluation of the anticonvulsant activities of *Gastrodia elata* Bl.-*Acorus tatarinowii* decoction on experimentally induced seizures in mice

Xirui He (✉ xiruihe6105194@163.com)

Yan Yang

Xufang Yuan

Yin Sun

Yongsheng LI

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Abstract

Acorus tatarinowii

Gastrodia elata

Introduction

Cannabis sativa

Inner Canon of Huangdi

G. elata *A. tatarinowii* *Arisaema heterophyllum*
G. elata *A. tatarinowii*

Polygala tenuifolia

Yi

Xue, Xin Yu,

G. elata

A. tatarinowii
A. tatarinowii

Materials And Methods

G. elata

A.tatarinowii

G. elata

A.tatarinowii

Results

Discussion

tatarinowii

G. elata A.

in vivo

PTZ-kindled

PTZ-kindled
G. elata *A. tatarinowii*

Conclusion

Statements & Declarations

;

References

Withania cogulans

Polygala tenuifolia *Acori tatarinowii*

Melissa officinalis

Table 1 GEAT decoction administered orally to mice for 7 days enhanced the percent protection from HLTE in MES model (n=6).

Group	Dose (mg/kg)	MES (n ₁ /n ₂) ^a			
		0.5 h ^b	1 h ^b	2 h ^b	4 h ^b
Saline	-	0/12	0/12	0/12	0/12
CBZ	50	10/12	10/12	6/12	4/12
GEAT decoction	50	2/12	5/12	3/12	0/12
	100	6/12	8/12	6/12	3/12
	200	10/12	10/12	8/12	6/12

^a No. of mice protected/no. of mice tested. ^b Time after the last drug administration.

Table 2 Effect of *GTAT* decoction *pretreatment* for 7 days on subcutaneous PTZ (85 mg/kg) induced acute seizures in mice (n=12).

Group	Dose (mg/kg)	Latency time of the 1 st seizures (s)	GTCS ^a	CS ^b	Death ^c	Seizure score
Saline	-	138.8 ± 9.01	12/12	12/12	10/12	5.00 ± 0.00
CBZ	50	227.8 ± 20.09**	4/12	12/12	6/12	3.83 ± 0.40*
GTAT decoction	50	182.4 ± 20.85	7/12	12/12	8/12	4.33 ± 0.42
	100	243.5 ± 16.26**	6/12	12/12	4/12	4.00 ± 0.45
	200	254.5 ± 23.54***	2/12	12/12	4/12	3.70 ± 0.33*

Note: Data are presented as Mean ± SEM; *P<0.05, **P < 0.01, ***P < 0.001 compared with model (PTZ+saline). ^a No. of mice occurrence of GTCS /No. of mice tested. ^b No. of mice occurrence of CS/No. of mice tested. ^c No. of mice death/No. of mice tested.

Table 3 Effect of *GTAT* decoction *pretreatment* for 7 days on subcutaneous 3-MP (60 mg/kg) induced acute seizures in mice (n=12).

Group	Dose (mg/kg)	Latency time of the 1 st seizures (s)	Tonic seizures ^a	Clonic seizure ^b	Death ^c
Saline	-	200.4 ± 11.96	6/12	12/12	10/12
CBZ	50	276.7 ± 18.75**	2/12	12/12	0/12
GTAT decoction	50	217.0 ± 13.88	6/12	12/12	6/12
	100	252.7 ± 9.89*	4/12	12/12	4/12
	200	280.2 ± 27.08**	4/12	12/12	2/12

Note: Data are presented as Mean ± SEM; *P<0.05, **P < 0.01 compared with model (PTZ+saline). ^a No. of mice occurrence of tonic seizures /No. of mice tested. ^b No. of mice occurrence of clonic seizure/No. of mice tested.

mice tested. ^c No. of mice death/No. of mice tested.

Figures

Figure 1

Figure 2

Figure 3

Figure 4

Figure 5