

# 都可喜治疗老年性痴呆 36 例临床观察

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**摘要:**目的 观察都可喜治疗脑萎缩所致老年性痴呆的临床疗效和不良反应。方法 采用随机开放平行对照观察 49 例, 其中治疗组 36 例, 口服都可喜片; 对照组 13 例, 口服脑复新片 (盐酸吡硫醇)。结果 都可喜治疗组有效率为 77.7%, 而脑复新治疗组仅 38.4%, 两组比较  $P < 0.05$ , 都可喜治疗组临床疗效明显优于对照组。结论 都可喜可作为治疗脑萎缩所致老年性痴呆的首选药物, 对早期患者疗效更佳。

**关键词:**都可喜; 老年性痴呆; 疗效; 不良反应

DUKEXI is a commercial name of Almitrine/Raubasine tablet including both consistents, which original function is used to treat the deficiency of intelligence capacity of elderly with the symptoms of sight and audible injuries original from blood vessel and the sequela of subacute cerebrovascular accident<sup>[1]</sup>. Pyitolin Hydrochloride is used to treat Alzheimer's disease<sup>[1]</sup>, but the effect was said not ideal one. Many physicians have been hoping to have a new medicine to substitute it. According to the function of DUKEXI, it was hypothesis that DUKEXI could be helpful to treat this disease better than the other medicine. Therefore since 1998, we have tried to apply it to treat Alzheimer's disease due to the brain atrophy. In order to observe the effects of DUKEXI while treating this disease, we used the Pyitolin Hydrochloride as a control. This report is for the compared observation of treatment between two medicines.

## MATERIALS AND METHODS

General data: 49 patients were randomly divided into two groups, 36 cases with DUKEXI as a treatment group

and 13 cases with Pyitolin Hydrochloride as a control group. The average ages of men and women (27 and 9 cases in treatment group, 13 and 8 cases in control group) were  $(63.4 \pm 5)$  and  $(62.5 \pm 6)$  years, respectively. There was no significant difference in educated level and occupation before their retirement.

Diagnosis criteria: The diagnosis criteria was used accordance with the one issued by the Health Ministry of P. R. China in 1995, which referred to DSM-III criteria from American psycho Committee in 1983<sup>[1]</sup>; That is, that the society activity is affected due to decreasing intelligence; One of the possible memory disorder, 1. the disturbance of abstract thinking; disability of proverb explanation that similar and different points of words can not be distinguished and words and concepts can not be defined; 2. disorder of judgment; 3. disorder of other higher cerebral cortex functions, such as, anepia, apraxia, agnosia and structure apraxia; 4. the change of personality, for example, change or reinforcement of original characteristics.

Case selection: The patients must be coincidence with the criterions above, and no original disease from lever hep-  
par, kidney and hematopoietic system, as well as non-psy-  
cho. Also, the patients could took with the order from physi-  
cian.

The method of therapy: With the method of parallel  
comparison, the patients in treatment group took DUKEXI  
tablets (including Almitrine 30 mg and Raubasine 10 mg per  
tablet), 1 tablet per time, 3 times per day, 30 days per ther-  
apy; and in control group Pyitinol Hydrochloride (o. 1 g per  
tablet), 2 tablets per time, 3 times per day, 30 days per  
therapy. 2 therapies were given in this study. All the pa-  
tients would not take any pill for one week between 2 thera-  
pies.

The evaluated criteria of treatment effect and observa-  
tion of efficiency: This criterion is taken from the Instruc-  
tional Principle of clinical research in new Chinese traditional  
medicine issued the Health Ministry of P. R. China in  
1995<sup>[2]</sup>. Inefficiency: Main symptoms with no change and  
continually worse. Efficiency: Parts of main symptoms are  
relieved, partly able to take care of shelf life and basically a-  
ble to make correct answer, but response still slow. Obvious  
efficiency: Most of main symptoms have recovered to the

Tab 1 The general clinical efficiency in two groups.

Group	n	Excellency		Obvious efficiency		Efficiency		Inefficiency		General efficiency	
		n	%	n	%	n	%	n	%	n	%
Treatment	36	17	47.2	6	16.6	5	13.8	8	22.2	28	77.7
Control	13	2	15.3	1	7.6	2	15.3	8	61.5	5	38.4

Tab 2 The efficiency comparison of symptom improvement between two groups.

Symptom	Efficiency				<i>P</i>
	Treatment group( <i>n</i> =36)		Control group ( <i>n</i> =13)		
	<i>n</i>	%	<i>n</i>	%	
Intellect decrement	28	77.7	2	15.3	<0.01
Memory retention	28	77.7	5	38.4	<0.01
Inability of abstract thinking	21	58.3	5	38.4	<0.01
Disturbance in judgement	28	77.7	3	23.0	<0.01
Personality change	23	63.8	5	38.4	<0.01

Tab 3 The comparison of consolidated efficiency in 30 days after halted treatment between two groups.

Group	n	Excellency		Obvious efficiency		Efficiency		Inefficiency		General efficiency	
		n	%	n	%	n	%	n	%	n	%
Treatment	34	18	32.9	6	17.6	7	20.5	3	8.8	31	91.2
Control	12	0		2	16.6	2	16.6	8	66.6	4	33.3

The relationships between the effect of DUKEXI with  
age, sex and suffering duration; There was no significant  
difference among the different group of ages and between se-

Tab 4 The relationship between the clinical efficiency and ages.

Obvious						General					
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normal, such as, better orientation and response than be-  
fore, question answered become better.

Excellency: Main symptoms are basically controlled,  
such as, normal orientation, correct answer to the question  
and able to take part in general society activity.

The efficiency of general clinic and symptom improve-  
ment were evaluated. In order to inspect the consolidated ef-  
ficiency after treatment, 46 cases (34 in treatment group and  
12 in control group) were followed-up in 30 days after the  
medicine was halted. Also, the relationships among the gen-  
eral clinical efficiency in treatment group and age, sex and  
disorder duration were evaluated

Statistics:  $\chi^2$  test was used for statistic analysis. The  
level of significance was set at  $P<0.05$ .

RESULTS

Clinical effect: After two therapies, the efficiency in  
treatment group was significantly higher than in the control  
group,  $P<0.05$  (Table 1). The symptoms of patients in the  
treatment group was more significantly improved than in the  
control group,  $P<0.01$  (Table 2). The consolidated effi-  
ciency also showed greater level in treatment group than in  
control group ( $P<0.01$ ) (Table 3). All these

xes in the treatment group ( $P>0.05$ ) (Table 4 and 5).  
They indicated that the action of DUKEXI for treating Alzhe-  
imer's disease was not affected by age and sex, respectively.

Age (years)	n	Excellency		Obvious efficiency		Efficiency		Inefficiency		General efficiency	
		n	%	n	%	n	%	n	%	n	%
50~60	11	7	63.0	1	9.0	1	9.0	2	18.1	9	81.8
61~65	14	5	35.7	3	21.4	3	21.4	3	21.4	11	78.6
66~70	5	2	40.0	1	20.0			2	40.0	3	60.0
70~76	6	3	50.0	1	16.6	1	16.6	1	16.6	5	83.0

**Tab 5** The relationship between the clinical efficiency and sex.

Sex	n	Excellency		Obvious efficiency		Efficiency		Inefficiency		General efficiency	
		n	%	n	%	n	%	n	%	n	%
Male	27	13	48.1	4	14.8	3	11.1	7	25.9	20	74.0
Female	9	4	44.4	2	22.2	2	22.2	1	11.1	8	88.8

However, there was significant difference among the groups of disorder duration, in which there was no significant difference between groups 1 and 2 ( $P>0.05$ ) but there was significant difference between groups 2 and 3 ( $P<0.01$ ) (Table 6). It indicated that the shorter the suffering duration, the better efficiency the clinical treatment of DUKEXI.

**Tab 6** The relationship between the clinical efficiency and suffering duration

Groups	Disorder duration	n	Excellency		Obvious efficiency		Efficiency		Inefficiency		General efficiency	
			n	%	n	%	n	%	n	%	n	%
1	<1	20	15	75.0	3	15.0	1	5.0	1	5.0	19	95.0
2	1~4	9	2	22.2	2	22.2	3	33.3	2	22.2	7	77.8
3	>4	7	0		1	14.3	1	14.3	5	71.4	2	28.6

**Safety observation:** Before medications, all of the patients had to be asked to have their body examination, ECG, function of liver and kidney and the regular tests of their blood, urine and stool. However, there was no significant difference in these tests and examinations between two groups. After 30 days of taking these medications, there was no abnormal phenomenon observed in all of the patients except 4 cases, who had slight urine proteins and leucocytes before starting medications. Then 2 cases had recovered to the normal after

30 days of treatment. After finishing 2 therapies, all these above mentioned would check again. Also, no abnormal change could be found.

**Side-effect of DUKEXI:** 11 of 36 cases of patients in the treatment group of DUKEXI had some side effects (see Table 7), but we did not do any treatment for them except the hard stool in some patients who were given some medicines for easy relieving. There was no significance of side effect between two groups (Table 7).

**Tab 7** The comparison of side-effect incidences between two groups

Group	n	Agrypnia		Anxiety		Nausea		Decreased food appetite		Hard stool		Cutaneous eruption	
		n	%	n	%	n	%	n	%	n	%	n	%
Treatment	36	4	11.1	3	8.3			2	5.6	2	5.6	11	30.56
Control	13	2	15.4			3	12.8	2	15.4	1	7.6	8	61.53

**Discussion**

Brain atrophy causes Alzheimer's disease. There are 48-65% of Alzheimer's diseases, which results from original regression of central nerve system. The clinical characteristics manifest the losses of memory and abstract thinking, the changes of personality and behavior. The CT image of brain shows a widespread atrophy of brain cortices.

48 cases of patients in this study had the atrophy of brain cortices in the CT images. DUKEXI can improve the

blood circulation of whole brain so as to increase PaO2 in artery blood, decrease the desaturation of artery blood oxygen during movement, elevate the level of 2,3 diphosphoric glycerol acidic salt in blood<sup>[3]</sup>. Therefore, it can be apply for improving the above symptom of Alzheimer's disease induced due to the original regression of central nerve system.

Nowadays, Pyitolol Hydrochloride is used to treat Alzheimer's disease induced due to the atrophy of brain cortices. In order to test the effect of DUKEXI treatment to

Alzheimer's disease induced due to the atrophy of brain cortices, we applied Pyitolol Hydrochloride as a control reference for the paralleled comparison. After two therapies, the efficiency of DUKEXI was 77.7% and of Pyitolol Hydrochloride was only 38.4%, which manifested that the action of DUKEXI for treating Alzheimer's disease induced due to the atrophy of brain cortices was more excellent than Pyitolol Hydrochloride. Following up after 30 days of halting therapy, the consolidated efficiency of main symptoms in DUKEXI group was 91.2%, and the symptoms of some patients obtained very obvious improvements.

There was no direct relationship between the clinical efficiency of DUKEXI and age and sex of patients, but there was an intimate relationship in the suffering duration. The significant difference of treatment efficiency was great between the groups of suffering duration  $< 1$  year and  $> 4$  years. It may indicate that the earlier applying this medicine,

the better the effect. The safety observation in the treatment group showed that DUKEXI was no specific side effect, except 11 cases of patients (30.7%) with some side effects which was indicated in the introduction of DUKEXI.

As a result, it was considered that DUKEXI should be an ideal medicine for treating Alzheimer's disease induced due to the atrophy of brain cortices.

## REFERENCE

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