

Professor Li Jun's Experience in Treating Apoplexy Sequelae with Insect Drugs

Wenbin Wang^a and Haizhe Zhou^{b,*}

Shaanxi University of Chinese Medicine, Xianyang, Shaanxi 712046, China

^a2650828862@qq.com, ^b595791307@qq.com

**corresponding author*

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Abstract: This paper discusses Professor Li Jun's clinical experience in treating apoplexy sequelae with insect drugs. With the improvement of living standards, the incidence of cardiovascular and cerebrovascular diseases is increasing year by year, which poses new challenges to clinical diagnosis and treatment. The diagnosis and treatment of stroke diseases is particularly complex, but with the help of the unique advantages of traditional Chinese medicine, Professor Li Jun believes that the pathogenesis of stroke sequelae is complex, and the essence is false but the reality is false. Deficiency of primordial qi, phlegm and blood stasis block the brain collaterals, while insect drugs have the effect of dispersing heart and dredging collaterals, and are sentimental products, which can search and eliminate the evil of phlegm and blood stasis in brain collaterals and reach the brain collaterals directly. Professor Li uses insect drugs and their drug pairs actively under the main body of syndrome differentiation and treatment, thus improving the clinical efficacy.

Professor Li Jun is the tutor of academic experience inheritance for the national famous old Chinese medicine experts. Professor Li Jun has been in medicine for more than 40 years, with rich clinical experience and profound attainments of internal diseases, especially stroke. He has deeply inherited and developed the academic view of Professor Zhang Xuewen, the master of Chinese medicine, that "brain should be dirty"[1] Theory that brain disease is caused by phlegm and blood stasis, and the difficult syndrome of brain disease is mainly in purging phlegm and removing blood stasis. Stroke, also known as cerebral apoplexy, ranks first among the four intractable diseases in ancient China, and ranks second among people aged 60 and above worldwide[2] Although the survival rate of Chinese stroke patients is relatively high, about 70%-80% of them will have sequelae, and more than 40% of them will be severely disabled[3], seriously affects the quality of life of patients and their families, and even some patients lose the basic ability to work, which

increases the pain of patients but also brings a great economic burden to the family and society. Patients with apoplexy sequelae generally have a long course of disease, slow recovery, poor prognosis and other characteristics. The treatment cycle of apoplexy sequelae is long, the effect is slow, and the treatment is difficult. Professor Li found in long-term clinical combination with modern medical research results that atherosclerosis is one of the basic causes of apoplexy sequelae. Atherosclerotic plaque can lead to arterial wall thickening, loss of elasticity, cavity narrowing, vascular intima thickening and so on[4] This is quite consistent with the view of traditional Chinese medicine that "chronic diseases enter collaterals" and the disease location is profound. The author has the honor to learn from Professor Li's clinical syndrome, and the experience of Professor Li's treatment of apoplexy sequelae is summarized and analyzed as follows.

1. The Pathogenesis of Apoplexy Sequelae is Complicated, the Deficiency of Phlegm and the Stagnation of Cerebral Collaterals

The cause of stroke has internal injury accumulation loss, too extreme emotion, diet, excessive desire to work, etc., the pathogenesis is Yin and Yang disorder, Qi and blood reverse disorder, straight into the brain, causing brain pulse obstruction or blood overflow outside the brain pulse[5]. Sequelae of stroke refers to sequelae such as limb disorders, speech disorders, cognitive disorders, and sensory disorders still left after treatment 6 months after the onset of stroke. Professor Li Jun believed that the causes of sequelae of apoplexy were qi, blood, wind, fire, phlegm, blood stasis, dampness and deficiency, and the pathogenesis of sequelae of apoplexy was characterized by deficiency of origin and deficiency of substance, which were treated from phlegm and blood stasis, bi, wind and liver and gallbladder.

On the treatment of phlegm-stasis, Ye Tianshi mentioned "stomach collaterals, liver collaterals and lung collaterals" and other records in the Clinical Syndrome Guide Medical Case. The viscera and six organs all have veins, and the brain also has veins. The veins have the functions of connecting the viscera and six organs, infiltrating Qi and blood, and nourishing the zang and six organs[6], the pathogenesis of stroke sequelae Phlegm and blood stasis cemented in the brain, also belongs to the category of collaterals disease (collaterals refers to the lesions caused by the abnormal function or structure of the complexions), the pathological characteristics of collaterals disease: easy stagnation easy stasis, easy accumulation and formation[7]; Qi and blood deficiency as the basis, phlegm and blood stasis consolidation as the standard; Qi deficiency and blood stagnation, blood coagulate into stasis, Qi deficiency stops phlegm, blood accumulates into phlegm, and phlegm and blood stasis intercoagulate with each other for a long time.

Professor Li believes that phlegm and blood stasis cementation carries out the whole process of the occurrence and development of apoplexy sequelae, so the treatment of phlegm and blood stasis is the key to the treatment of apoplexy sequelae. According to the different severity of phlegm and blood stasis, the treatment is slightly different. It is mainly to promote blood circulation and remove blood stasis, and also to remove phlegm;Third, both phlegm and blood stasis should be promoted, and equal emphasis should be placed on removing phlegm and removing blood stasis[8]; Phlegm stasis blocks collaterals of the brain, for a long time the brain is dysplasia, the pulp sea is empty, the brain is the house of the Yuan God, the Yuan God dysplasia, resulting in mental disorders, hemiplegia, fainting and so on.

1.1.From the Perspective of Wind

Before the Tang and Song dynasties, the ancient people mostly discussed the treatment of stroke from the external wind. With the in-depth understanding and discovery that the internal wind can cause stroke, the Tang Dynasty physician Sun Simiao recorded more than 10 first life-extending

decoction prescriptions in Qianjin Yi Fang and Qianjin Fang. Life-extending prescriptions were mostly based on ephedrine decoction and Guizhi decoction, and the first two prescriptions were mainly to dispel wind and dispel cold. It can be seen that the ancient people are flexible in adding or subtracting prescriptions. Even today, life-extending prescriptions still play their role in the treatment of sequelae of stroke [9]. Professor Li Jun believes that for patients with stroke, such prescriptions should be taken in time, which can slow down the occurrence of sequelae of stroke. By virtue of its function of introducing drugs into the meridian.

1.2. Insect Medicine Xin Dispersing Phlegm and Dampness, Searching Wind and Nourishing Liver and Smoothing Brain and Collaterals

The medicinal flavor is salty xin, salty can be soft and firm, Xin can relax collaterals; Xin qi, salty Sheng blood; Qi and blood double tone. Into the blood can break the blood by stasis, blood stasis is spittoon coagulation, phlegm and blood stasis interknot, block and vein; Qi is regulating the sanjiao qi machine, with the help of the liver's purging work, the liver and gallbladder each other outside and inside, gallbladder main sanjiao, sanjiao through the vitality and body fluid, sanjiao disorder, then the upper and lower around the disorder, Yin and Yang chaos, all the diseases, stroke is also in this column.

First, insect drugs can break blood and remove phlegm and stagnation. Gong Xin in the Ming Dynasty wrote in "Ancient and Modern Medical Review" that "stubborn phlegm is soft"; Tang Rongchuan said in his Essay on Materia Medica, "The utility of animals is better than that of plants. It is active and aggressive with its animal nature." Insect medicine belongs to animal medicine, also has the aggressive, can attack the firm and eliminate stagnation. Ran Xuefeng said, "Stasis blood is suitable for peach nuts and red flowers, dry blood is suitable for lipids and dry paint, and dead blood is suitable for blood worms. By its sucking and penetrating power, we can get rid of Zi Santong." Ran also said, "Cure dead blood worms as medicine";

Two, insect drugs have the effect of searching wind and clearing collaterals, insect drugs are good at channeling, can reach the brain, stroke sequelae disease location in the brain, the brain has the characteristics of easy accumulation and stagnation, insect drugs can lead drugs directly to the disease location; Ye Tianshi said: "For a long time the evil is muddy in the middle, grass and trees can not be effective, when insects and ants to clear the evil", the pathogenesis of stroke sequelae is the deficiency of vitality, evil is easy to get in the brain, plus stroke sequelae more disease course is longer, disease into the collaterals, wind cold and dampness and other evil blocking the brain collaterals, the disease position is deeper, need to use insect drugs to go channelling collaterals;

2. Professor Li Jun often uses Insect Drugs and His Experience in Drug Pair Efficacy and Characteristics of Single Insecticide

Leech is flat, salty and bitter, poisonous, enters the liver and bladder meridian, has the effect of breaking blood and eliminating blood stasis, See Table 1. In Compendium of Materia Medica, Li Shizhen wrote, "Expel evil blood stasis and remove lump of blood"; Zhang Xichun Yun: "Leeches taste salty, so good into the blood. "Professor Li Jun believes that leech salty into the blood, can direct to the disease site, and leech has a strong effect of breaking blood and removing blood stasis, because of its strong force of promoting blood circulation and removing blood stasis, careless use of the risk of bleeding, in water decoction generally use 3~6g, pills 1~3g measurement depending on the increase or decrease of the disease. Modern pharmacology proves that hirudin and hirudin are contained in hirudin, hirudin can inhibit thrombin activity and protect vascular endothelium [10].

Table 1. Source, sexual taste and efficacy of leech

Provenance	Sexual Taste	Efficacy
Shennong Materia Medica Classic	Xian and Ping	Main pursuit of evil blood, blood stasis, month closure, blood stasis, lump, accumulation, childless, benefit waterway
Records of Famous Doctors	Bitter and slightly cold	Main abortion
Kaipo Materia Medica	Salty, bitter, flat and slightly cold	Abortion
The Complete Book of Jingyue	Salty, bitter and slightly cold	It can expel evil blood stasis, break blood blood accumulation, pass amenorrhea, and waterways, abortion.Red and white tour rash, ulcer swelling poison, and broken fall, blood stasis does not disperse
The Classics on the Original"	Salty and Bitter	Salty blood, bitter than blood, leech salty bitter in addition to blood storage, is the liver meridian blood drug, so it can pass the liver meridian to gather Blood, attack all bad blood accumulation.

Stinging insects, also known as Tuyexia, Tuyuan, has the effect of breaking blood stasis through menstruation, See Table 2. "The Classics of Materia Medica Ya Zheng" said: "smell salty cold, toxic, the stomach cold and heat washing, blood accumulation, breaking the Jian, the blood closed," salty blood, into the blood soft and strong sanjie; According to the "materia medica true" records: "with a knife broken, in the juice such as pulp, bucket is connected, complex can walk...'", take the image compared class, with the replenishing can effectively inhibit platelet agglutination, dissolve thrombus, prevent the occurrence of blood coagulation[11]. Chitonya contains proteins with plasminogen and plasminogen activator activity, which is the preferred antithrombotic drug[12].

Table 2. Source, sexual taste and efficacy of insects

Provenance	Sexual Taste	Efficacy
Shennong materi a medica classic	Salty and cold	Treating abdomen cold and heat washing, lump of blood accumulation, rupture of hardness, immobility of blood, birth of Dalang
The book of materia medica shu	Salty and cold	Blood accumulation in the principal abdomen, lump blood, blood harmony and unobtrusive, cold and heat removed from the blood, meridian evenness, the month comes, and causes the woman to give birth.It is necessary to treat the malarial mother
Dividing the Classics of Materia Medica	Salty and cold	Search for blood accumulation, broken wounds.Cure wood tongue, milk

Cicada slough, also known as cicada clothes, taste sweet cold, treating children with epilepsy crying at night, epilepsy cold heat. It has the effect of evacuating wind and heat, dispelling wind and antispasmodic, benefiting pharynx and so on. See Table 3. According to "Materia Medica Essentials" recorded: "its sound is clear, so the treatment of stroke aphonia"; Professor Li believed that cicada slough has the ability to calm and relieve spasm, promote pharmonic opening and sound through sound, and has the effect of relieving spasm and so on. It is often used in the sequelae of stroke, such as poor speech or muscle spasm. Modern pharmacological experiments have shown that it mainly contains crustaceins, proteins, amino acids and trace elements, which have the

functions of anticoagulation, anti-inflammatory, cough, expectorant and asthmatic relief, sedation, pain relief and spasmodic relief, anti-tumor, anti-convulsion, protection of cardiovascular and cerebrovascular diseases[13].

Table 3. Sources, sexual taste and efficacy of cicada slough

Provenance	Sexual Taste	Efficacy
Lei Gong processing medicinal solution	Salty, sweet and cold	The Lord promotes the birth of afterbirth, promotes lactation, stops night crying, calms convulsions and epilepsy, drives away pathogenic heat, kills scabies, and also quenches thirst.
Materia Medica is easy to Read	Salty, sweet and cold	In addition to wind and heat, acne rash, retreat eyes, cure dumb disease. Relieve infantile convulsion and epilepsy caused by lung heat, choking wind and hanging from the sky, itchy skin and dizzy head at night, and chronic dysentery and thirst.

Earthworm, also known as earthworm, is salty and cold, which belongs to liver, spleen, lung and bladder channels. See Table 4. It has the functions of eliminating phlegm and clearing collaterals, clearing heat and calming asthmatic diuresis, etc. "Materia medica Fengyuan": "Earthworm in the matter should be soil de.....Benefit to urinate, pass channels and collaterals "; "Materia medica seeking truth" also recorded the dragon into the meridians. Professor Li thinks that the Earth dragon has the function of eliminating phlegm and dredging collaterals, which is mostly used for the disease of stubborn phlegm lingering in the veins. Modern research has found that the Earth dragon contains an active protein, which has anti-coagulant, anti-fibrosis and anti-stroke effects[14]. See Figure 4.

Table 4. Origin, sexual flavor and efficacy of Earthdragon

Provenance	Sexual Taste	Efficacy
Shennong Materia Medica Classic	Salty and Cold	Attending any snake, to three worm, dead, ghosts Zhu, method of poison, kill snake, still turn into water
The doctors don't record	The Great Cold	Signs of typhoid fever, mania, big belly, jaundice. Salt dip for juice, cure deafness
Kaibao Materia Medica	Salty and Big Cold	Cure cold Fu heat, madness, big belly, jaundice
"Mongolian Materia Medica Quan"	Salty and Cold	Treat febrile disease big heat rhapsody, cure cold hot delirium. With mash wring juice, Wells under vertical Chai. Num impassability, also dao juice drink.13. Poison apoplexy, must soak wine to swallow. Master snake lump kill ascaris, manage kidney wind eliminate beriberi. And cure jaundice, wet like god.

Rigidworm, also known as white Rigidworm. See Table 5. First published in Shennong Materia Medica Sutra, salty, pungent, non-toxic. Main child convulsive cry at night; It has the effect of dispelling wind and calming panic, eliminating phlegm and dispersing knot. The ancients cloud: zombie silkworm feel wind and stiff, with gas phase sense, so can cure the wind disease, insect sex channeling, can search the wind Tongluo, "Rihua Zi materia medica": "cure stroke aphonia, and all wind disease"; Professor Li thinks that the silkworm is soft and firm, and has the character of insect medicine, which can dissipate phlegm and disperse knot. "Lingshu" says: "The epiglottis is the household of sound, the mouth, the fan of sound, the tongue, the machine of sound sound."

Qingyang out of the upper orifice, the tongue and pharynx belongs to clear orifice, to Tong for use, wind phlegm block the tongue and pharynx complex, then for aphasia, speech, wind phlegm block foot yangming stomach meridian, crooked mouth, mostly used for stroke sequela aphasia, crooked mouth, etc. According to modern pharmacological research, it has anticoagulation, anticonvulsant, hypoglycemic and anticancer effects.

Table 5. Source, flavor and effect of the silkworm

Provenance	Sexual Taste	Efficacy
Shennong materia medica classic	Xian and Ping	Primary infantile chronic ulcerated, night cries, to three worm, eliminate black, a good complexion, man Yin abscess disease
"Huang on	Xian, Xin, Ping	Attending pediatric chronic ulcerated, night cries, to three worm, eliminate black, good complexion, Yin abscess disease cure men. More than women's collapse in the red and white, postpartum pain, destroyed the boils scar
"The jade chinese catalpa medicine Solution"	Xin, Xian and Ping	Activating collaterals and channeling channels, driving wind and opening bi
Chinese pharmaceutical Science	Xian, Xin, Ping	Soothe wind and relieve spasm, dispel wind and relieve pain, detoxify and disperse knots

3. Professor Li Jun's Common Prescription

Professor Li strictly observed the pathogenesis, and on the basis of syndrome differentiation and treatment, active use of insect drugs to treat the sequelae of apoplexy. Insect drugs are good at dispelling wind and dispelling evil, dispelling dampness and clearing collaterals, removing blood stasis and channeling meridians, and introducing drugs into collaterals to direct lesions. They are often used to enhance the curative effect.

Leeches and insect insects; Both of them have attacking and dispersing knot, promoting blood circulation and removing blood stasis, "blood walking", partial walking blood points, with blood breaking and removing blood stasis; The two phase must be used as the earliest in the "theory of typhoid and mixed diseases" rhubarb insect pill, for the treatment of deficiency and dry blood syndrome, Professor Li Jun is good at the use of classic prescription, in the treatment of stroke sequelae, blood stasis in the peach and red Siwu decoction based on the addition of leeches and insects, because the two attack channels good walk, has the effect of removing long stagnation of the brain, so that the original prescription to break blood stasis force, Clinical used for cardiovascular and cerebrovascular diseases, such as sequelae of stroke and chest BI, insomnia and other diseases[15].

Cicada slua and silkworm sclerosis, both of which can eliminate wind and phlegm and open the sound, are recorded in the Shen Nong Herbal Classics. Huang Yuanyuan, a famous doctor in the Qing Dynasty, said, "When adults have no sound and children cry at night, it means that they sing in the day and rest at night." The silkworm feels the wind and stiff, take the image than class; "The blood is not walking qi", cicada slough and rigidworm deviate qi, search and pick wind evil. Professor Li believes that the cause and pathogenesis of speech disadvantage is nothing more than wind, fire, phlegm, and blood stasis blocking the tongue and collateral vessels, leading to speech disadvantage. In Su Wen Da Qi Theory, "The heart and veins are small and firm. All of them are

withered...Never a long tongue. "Cicada slough and rigidworm have the ability to dispel wind and reduce phlegm, so they are often used to treat the sequelae of apoplectic speech disadvantage

4. Summary

Ye Tianshi, a famous doctor in the Qing Dynasty, recorded the discussion on the compatibility of insect drugs in Biejia Decoction pills in his book "Clinical Guide": "There are four kinds of insects and ants to be used: those who will fly will rise, those who will walk will fall, and those who will move quickly will pursue and remove the evil mixed with Qi and blood. "Pioneered the treatment of collaterals with insect drugs; Professor Li Jun is familiar with the classics, honors the ancient and does not misunderstand the ancient, studies the mechanism and potential, and studies the cause. He is good at the active use of entomological drugs. With the help of the research results of modern traditional Chinese medicine, he has applied them to the treatment of apoplexy sequelae, which can effectively treat and prevent complications and shorten the course of disease, which has important clinical significance for the outcome of the disease.

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Conflict of Interest

The author states that this article has no conflict of interest.

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