

Characteristic Analysis of Toxic Traditional Chinese Medicine Contained in Pharmacopoeia 2015

Ming Bai

Henan University of traditional Chinese Medicine
Henan, China
email:1845491137@qq.com

Yanyan Miao

Henan University of traditional Chinese Medicine
Henan, China
email:13823276201@139.com

Xin Lou

Henan University of traditional Chinese Medicine
Henan, China
email:baiming666@126.com

Mingsan Miao*

Henan University of traditional Chinese Medicine
Henan, China
email:miaomingsan@163.com

Abstract-Toxic Chinese medicine simply refers to the toxic reaction in clinical application of traditional Chinese Medicine, for a long time, The broad masses of the people think in the subconscious is the drug itself has some toxicity, In addition, there are loopholes and misunderstandings in the understanding of traditional Chinese Medicine, In particular, the understanding of toxic traditional Chinese medicine is rare, So far, the concept of toxic traditional Chinese medicine has not been unified, standard, clear provisions, The toxic Chinese medicines were classified in the 2015 edition of the Pharmacopoeia, Among it, “big poison traditional Chinese medicine” has 10 kinds, “toxic traditional Chinese medicine” has 42 kinds, “small poison traditional Chinese medicine” has 31 kinds, However, the pharmacopoeia standard is only the most basic division, With the regularity of drug use and new discovery of disease mechanism, etc., The information of toxic traditional Chinese medicine will be more fully supplemented, Today, this definition of toxic traditional Chinese medicine vague, It has seriously hindered the development of traditional Chinese medicine, the modernization of Chinese medicine, standardization, will also affect the degree of acceptance of Chinese medicine in the world.

Chinese medicine; Pharmacopoeia;

Traditional Chinese medicine has a long history of use in China, In ancient times, it has contributed greatly to the health of mankind, In recent years, with the development of science and technology and the improvement of people's health awareness, the use of traditional Chinese medicine is more extensive, This is a good trend for the development of traditional Chinese Medicine, But what we can not be ignored is that a very important part of Chinese medicine is composed of toxic traditional Chinese Medicine, According to the records of <Huainan Zi Xiu Xiu xun>: Shennong well taste the flavor of herbs, water fountain to seek... And in seventy a day. This reminds us that toxic traditional Chinese medicine goes hand in hand, warns us not only to apply traditional Chinese medicine widely, but also to ignore the application of toxic traditional Chinese Medicine, This reminds us that toxic traditional Chinese medicine goes hand in hand, it warns us not only to apply traditional Chinese medicine widely, but also to ignore the application of toxic traditional Chinese Medicine.

Keywords: Traditional Chinese medicine; Toxic traditional

TABLE 1 BASIC INFORMATION OF LARGE TOXIN TRADITIONAL CHINESE MEDICINE MARKED IN PHARMACOPOEIA

Traditional Chinese Medicine	Dosage	Processing Methods	Main Chinese Patent Medicines	Clinical Application
monkshood	3~9g	squashing	Xiao Huoluo Dan, Tianhe Zhufeng paste	Wind chill, joint pain, cold pain, cold hernia pain, anaesthesia
nucis vomicae	0.3~0.6g	heated with sand or oil	ShuFeng DingTong pill, Shenjin Dan	The throat pain, carbuncle swollen poison, fengbi pain, fracture
Prepared nux vomica	0.3~0.6g	Crushed into fine powder	JiuFen San	Traumatic injury, fracture pain, rheumatoid arthritis, numbness, paralysis, carbuncle sore, sore throat
henbane	0.06~0.6g	insolation	WeiTongning pills, AnChuan pills	Madness, fengbi Jue pain, cough, stomach pain, dysentery, prolapse, carbuncle, malign sore embolism
tiglium	-	Peeling and fetching kernel	Fuketongjingwan, Weichanganwan	Acute abdominal distension pain, blood stasis, phlegm stasis, diarrhea, edema
croton cream	0.1~0.3g	Frost making cream	WeiTongDing, QiZhenwan	Abscess abscess, scabies scab, verruca nevus
calomel	-	Lapping powder	JiuYiSan	All the meat inside, dark purple black, carrion to sinus fistula, pus dripping, durable
Rhododendron molle GDon.	0.6~1.5g	dry in the sun	LiuWeimuxiangjiao Nang,	Rheumatism; headache; swelling or flutter; caries pain; skin tinea scabies
radix aconiti agrestis	-	desiccation	Xiaohuoluodan, SanQishangyao	Cold and dampness, joint pain, cold pain in the heart, cold pain and anesthesia hernia
cantharis	0.03~0.06g	desiccation	FuFangbanmaojiao nang, GanNing Pills	Amenorrhea, tinea, scrofula, wart, ulcer not collapse, dead inside muscle

It is not that toxic Chinese medicine has been gradually forgotten or eliminated because of its own toxicity, it is not true, The use of toxic Chinese medicine has also played an important role in the treatment of diseases, Or it can not be said to be irreplaceable. For example, arsenic, As a familiar toxic traditional Chinese Medicine, According to modern studies, it can treat leukemia; Flos daturae also called Datura stramonium, According to the 2015 edition of Pharmacopoeia records, The clinical dosage was between 0.3g~0.6g, but in the Hua Tuo hemp powder it is the main drug; As far as

aconite is concerned, written in Zhang Zhongjing's < Shanghanzabinglun > is used in 20 multi aconite, and the use of Fuzi Lihong pills has been a good medicine to relieve spleen and stomach deficiency cold. Therefore, it is essential to understand the basic information of toxic traditional Chinese Medicine, Here is a brief from the toxicity of traditional Chinese medicine dosage, processing methods, the main proprietary Chinese medicine and clinical application of four aspects to introduce.

TABLE 2 BASIC INFORMATION OF TOXIC TRADITIONAL CHINESE MEDICINE LABELED IN PHARMACOPOEIA

Traditional Chinese Medicine	Dosage	Processing Methods	Main Chinese patent Medicines	Clinical Application
berberidis	9~15g	Slice, dry	JiangTang jiaonang,XiaoZhi pilula	Dysentery, jaundice, sore throat, red eyes, traumatic injury
lacca sinica exsiccata	2~5g	Setting fire to burn	TiaoJing HuaYu pilula,TongJing GanLu pilula	Blood stasis amenorrhea, abdominal masses, insect abdominal pain
golden larch bark	-	Shred and dry	FuFang TuJingPi spiritus(gelatum)	Scabies itch
subprostrate sophora	3~6g	Cut thick slices, dried	KouYanQing pilula,HouTong tablet	The throat of the moths, sore throat, gingival swelling and sore throat
moleplant seed	1~2g	Break with time	YuShupowder, ZhouShi HuiSheng pills	The two barrier, edema, phlegm, stagnation of blood stasis fullness, amenorrhea; external treatment of tinea
defatted MOLEPLANT SEED	0.5~1g	Peeling and fetching kernel	ZiJin Ding,ShiYi JiuJi Pills	The same as above
preparemonkshd moter root	1.5~3g	Slice, dry	Xiao HuoLuo Dan,MuGua Pills	Arthralgia due to wind cold dampness, breast pain, chest pain and joint pain
rhizoma arisaematis processed Rhizoma Arisaematis	-	Wash and dry	YuZhen Powder	Carbuncle swelling, snake bug bite
semen momordicae	3~9g	Slice and dry	WuHu powder,NiuHuang HuaDu tabelts	Carbuncle swelling, snake bug bite
kanziol	0.9~1.2g	Mash in use	WanLing JinGu mastic,XiaoJin pills	Sores, mastitis, scrofula, Zhilou, stem paralysis, favus of the scalp
rhizoma curculiginis	0.5~1.5g	dry	ZhouChe pills,Meng Zheng pills	the phlegm is accumulated, the air is adverse to cough, and the two are not good, the carbuncle is swollen and sore
rhizoma typhonii	3~10g	Cut section, drying	GengNianAn jiaonang,ShenQi ErXian tabelts	Impotence cold sperm, bones and muscles atrophy soft, waist Lengtong, Yang deficiency cold diarrhea
ginkgo	3~6g	-	ChuangShang powders,ZhongTongAn jiaonnag	Eye and mouth breathing oblique, dysphasia, tetanus, headache, snakebite
Pinellia ternata	5~10g	Mash in use	RuYi DingChuan pills,BaiDai pills	Phlegm cough, leucorrhea cloudiness, frequent micturition
cinnabar	3~9g	Mash in use	ShenSu pills, TongXuan LiFei pills	Cough and phlegm, phlegm throb, wind phlegm dizziness, headache, nausea and vomiting, phlegm syncope
Physochlaina macrophylla scorpio	0.1~0.5g	dry by airing	SuHeXiang pills, AnGong NiuHuang pills	Palpitations easy surprised, insomnia, epilepsy, infantile convulsion, blurred vision, stomatitis, pharyngitis
Wu Hua cocklebur fruit	0.1~0.2g	Mash in use	HuaShanShen tablet	Cold cough insomnia. Mark.
anemones raddeanae	3~6g	Wash and dry	NiuHuang QianJin powder, ZhiJing Powder	Spasms, stroke hemiplegia, mouth worm, tetanus, rheumatoid arthritis, ulcers
monkshood	1.5~3g	-	XinQin granules, BiYuanShu oral liquid	Scabies carbuncle, frostbite favus of the scalp
azedarach multibanded krait	3~10g	-	QianLieTong tablet, ZaiZao pills	Cold headache, stuffy nose runny nose, nasosinusitis
Radix Euphorbiae Pekinensis	1~3g	Wash and dry	TianMa pills, FuZi LiZhong pills	The wind cold dampness, spasm of limbs, joint pain, carbuncle swollen fester
prepared kusnezoff monkshood root	3~15g	Direct human drug	ErTong QingRe DaoZhi pills	Cold vomiting and diarrhea, abdominal cold pain, kidney yang deficiency, Yinhan edema, Yang exogenous, hsb
	3~6g	Shred and dry	TongBi pills, ZhongFeng HuiChun pills	Scabies itch
	2~5g	Ethanol soaking treatment	ShiZao pills	In rheumatoid arthritis, numbness spasm, eye in the air whistle oblique, hemiplegia, convulsive spasm, tetanus, leprosy, scabies
	1.5~3g	Cut thick slices, dried	SanQi ShangYao pills(capsule)	Thoracic and abdominal seep, phlegm accumulation, inverse gas cough, two urination, carbuncle sore
	1.5~3g	Slice and dry		Cold and dampness, joint pain, cold pain in the heart, cold pain and anesthesia hernia

TABLE 2 BASIC INFORMATION OF TOXIC TRADITIONAL CHINESE MEDICINE LABELED IN PHARMACOPOEIA

Semen Pharbitidis	3~6g	Mash in use	YiNianJin capsule, ShanZha HuaZhi Pills	fullness, phlegm accumulation, inverse gas cough
mercurous chloride	-	-	JiuSheng powder, BaDu mastic	Topical treatment of tinea scabies, ulcers, eczema, ecthyma
perilopcae	3~6g	Cut thick slices, dried	Goupi mastic, HuoXue ZhiTong mastic	Lower extremity edema, palpitation, cold and dampness, Yaoxisuanruan
flos daturae	0.3~0.6g	cold drying	ZhuangGu ShenJin capsule, HuaZhi suppository	Asthma, cough, abdominal cold pain, rheumatism, chronic infantile convulsion; surgical anesthesia
Herba Laggerae	9~15g	dry	LingDanCao granules	Wind heat cold, sore throat, lung heat cough
radix euphorbiae lantu	-	Slice and dry	YouFuNing capsule, JieHeLing tablet	Tuberculosis of lymph nodes, ringworm of the skin, and killing maggots
antifebrile dichroa	5~9g	Slice and dry	XinSunNing capsule	Phlegm retention, XiongGe stagnation, malaria
Radix Phytolaccae	3~9g	Cut a thick piece, dry	ZiYun mastic, TanJing tablet	Edema puffiness, urine impassability, carbuncle sore
brim stone; brenstone	1.5~3g	heat melt	BaBao powder, HeiXi dan	Favus of the scalp, scabies, Yin carbuncle inside; pant, constipation
realgar	0.05~0.1g	dry by airing	NiuHuang QingXin pills, QiZhen pills	Abscesses, snake bites, insect abdominal pain, epilepsy, malaria
castor bean	2~5g	stamp breaking	AWei HuaPi mastic, BaDu mastic	Constipation, carbuncle swollen poison, pharyngitis, scrofula
centipede	3~5g	Small fire baked yellow, cut section	ZhongFeng HuiChun tablet, TongXinLuo capsule	Spasms, infantile convulsion, stroke and hemiplegia, hiccup, tetanus, and snake bites
fructus papaveris	3~6g	Shred and dry	KeKe capsule, ErMu AnSou pills	Chronic cough, chronic diarrhea, abdominal pain, prolapse of the anus
long-noded pit viper	3~9g	Cut into inch	FengShi QuTong capsule, HuiTian ZaiZao pills	In rheumatoid arthritis, numbness spasm, stroke, hemiplegia, slant eyes and mouth breathing, tetanus, leprosy
senso	0.015~0.03g	stamp breaking	SheXiang BaoXin pills, RuYi DingChuan pills	Carbuncle furuncle, sore throat, stroke coma, vomiting and abdominal tympany

TABLE 3 BASIC INFORMATION OF “SMALL POISON” CHINESE MEDICINE LABELED IN PHARMACOPOEIA

Traditional Chinese Medicine	Dosage	Processing Methods	Main Chinese Patent Medicines	Clinical Application
obtuaseleaf erylcebe stem	3~6g	Slice, dry	FengLiaoXing FengShi DieDa YaoJiu	Rheumatic pain, hemiplegia, swelling or flutter
kamuning	6~12g	cut up	TongZhongLing, SanJiu WeiTai electuary	Stomach pain, rheumatism, toothache, swelling and pain, snake bite
cockroach	3~10g	Sun dried	DaQiLi powder	Rib fracture, traumatic injury, blood stasis and blood stasis amenorrhea, postpartum abdominal pain
fructus gleditsiae sinensis	1~1.5g	triturate	YunXiang QuFeng ZhiTong tincture, ZhengGu shui	Stroke clenched jaw, remain unconscious, smooth epilepsy phlegm, closed orifices, stubborn phlegm cough, expectoration, dry stool
Chinaberry fruit	5~10g	triturate	YiGanNing granules, SanZi powder	Liver fire, chest pain, abdominal distention, hernia, insect abdominal pain
Fructus Podophylli	3~9g	dry	ShiYiWei NengXiao pills	Blood stasis amenorrhea, dystocia, stillbirth, mazischesis
hairy euphorbia	6~9g	Cut section, drying	LingYuan WanYing cha	Furuncle, dysentery, diarrhea, hematuria, eczema, tinea pedis, skin itching
bdella	1~3g	Cut section, drying	DaHuang ZheChong pills, QingNao JiangYa tablet	Blood stasis due to stroke, traumatic injury
mugwort	3~9g	Remove the stems and sift the ashes	AiFu NuanGong pills	Vomiting blood, nose bleeding, uterine bleeding, menorrhagia, fetal bleeding, cold pain in the lower abdomen, the cold, cold uterus infertility
Rhizoma Menispermi	3~9g	Cut thick slices, dried	BeiDouGen capsule	Sore throat, heat dysentery, rheumatism
anisetree bark	6~9g	Break and dry	ShuJin pills, ShanYao pills	Rheumatism, lumbago by
knoxia root	1.5~3g	Cut thick slices, dried	ZiJin Ding, YuShu powder	Thoracic and abdominal seep, phlegm accumulation, inverse gas cough, two urination, carbuncle sore
Radix zanthoxyli	5~10g	Slice or segment, dry	ZhengGu Shui, GongYanPing tablet	Bruises, stomach pain, toothache, rheumatism, snake bite
evodia rutaecarpa	2~5g	-	AiFu NuanGong pills	Cold damp beriberi, by the line of abdominal pain, abdominal distention, acid regurgitation and vomiting, diarrhoea
Picrasma quassoides	1~4.5g	Slice, dry	XiaoYan LiDan tablet, FuFang KuMu XiaoYan tablet	Cough, sore throat, dysentery, eczema, sore furuncle, snake bites
semen armeniacaee amarae	5~10g	pound to pieces	KuXingRen granules	Cough, asthma, chest full of phlegm, constipation
tuniclike psammosilene root	0.1~0.3g	Peel and dry	BaiBao Dan, DuZhong ZhuangGu pills	Rheumatism, stomach cold pain, traumatic injury, traumatic hemorrhage; external treatment of boils, snake bites
Fohum aconiti kusnezoffii	1~1.2g	Timely drying	SanQiXueShangNing powder	fever, diarrhea, abdominal pain, headache, toothache

TABLE 3 BASIC INFORMATION OF "SMALL POISON" CHINESE MEDICINE LABELED IN PHARMACOPOEIA

fructus dauci carotae	3~9g	dry	HuaChong pills	Ascariasis, pinworms, tapeworm disease, insect abdominal pain, infantile malnutrition
Java brucea	0.5~2g	Husk and impurities	YaDanZiYou Ruan capsule	Dysentery, malaria
Paris polyphylla	3~9g	Slice and dry	SanQiXueShangNing capsule, XiaoEr TuiRe admixture	Furuncle and carbuncle, sore throat, snake bites, pain or flutter, convulsion
JIXingZI	3~5g	Dry and peel	ShuJin ZhiTong tincture, XiaoYu DingTong mastic	In the lump, amenorrhea, dysphagia
fructus cnidii	3~10g	dry	Fu YanPing capsule	Vulvae leucorrhea, pruritus and eczema, dampness lumbago, kidney impotence, palace cold infertility
fructus gleditsiae	1~1.5g	Dry and mash	XiaoEr JieRe pills, KaiXiong ShunQi pills	Stroke clenched jaw, remain unconscious, epilepsy phlegm, closed orifices, throat phlegm, stubborn phlegm cough
thick wood-fern rhizome	4.5~9g	Cut thick slices, dried	KangGan granules	Insect abdominal pain, sore
Dryopteris crassirhizoma charcoal	5~10g	dry by airing	FuFang QingDai pills	Gonorrhea, leucorrhea excessive, rheumatism, joint, waist and knee pain
Purple Kei aspidium	3~15g	Remove the non main roots and dry	-	fever, dysentery, uterine bleeding
Fructus Tribuli	6~10g	-	BuYi JiLi pills, JiuWei GanTai capsule	Headache and dizziness, chest pain, breast milk closed eyes, ocular itching, rubella
Entada phaseoloides	10~15g	Shelled fry, levigation	QiWei KeTengZi pills	Pale, limb weakness, abdominal pain, poor appetite
fructus carpesii abrotanoidis	3~9g	dry	HuaJi KouFuYe	Ascariasis, pinworms, tapeworm disease, insect abdominal pain, infantile malnutrition
hooker winghead root	1~3g	Cut section, drying	ShiErWei YiShou powder	Detoxification, eliminating pathogenic heat, clearing away heat and stopping dysentery, expelling wind and smoothing arthralgia

DISCUSSION

The above is from four aspects of the 15 edition of the Pharmacopoeia of the toxic traditional Chinese medicine overview. It can be seen from the analysis of 83 toxic traditional Chinese medicine. In terms of dosage, 94% of the toxicity of traditional Chinese medicine is no more than 10g, only three needles, aconite, Herba Laggerae, maximum dose of 5 herbs in purple Kei and To Ko can reach 15g aspidium; Another arenobufagin, cantharidin, dosage of realgar etc. 11 toxicity of traditional Chinese medicine does not exceed 1g, The dose of Venenum Bufonis is more in the 0.015g to 0.03g; In the processing of traditional Chinese Medicine, over millennia, Most traditional Chinese medicines should be processed to alleviate some side effects, Ensure medication safety, Give full play to the role of traditional Chinese medicine in the prevention and treatment of diseases, Processing is an indispensable step for the toxicity of traditional Chinese Medicine, For example, containing toxic ingredients Aconitum Caowu, After high temperature treatment, Hydrolysis into small toxic aconitine, To reduce the toxicity of Aconitum Aconitum but does not reduce the efficacy; For the drying of Chinese medicine in this step, dry by airing, dry beside or over a fire, dry in the sun is different.

Toxicity is a basic attribute of traditional Chinese medicine. Therefore, toxic traditional Chinese medicine should be used rationally. It shouldn't be eliminated because it's called a toxic word. It should be treated rationally. We can not overgeneralization. In clinical application, the use of Chinese patent medicines for toxic traditional Chinese medicine is also rare. This shows the importance of toxic traditional Chinese Medicine. With the development of toxic traditional Chinese medicine in

recent years, more and more researches have been done, For example, the main toxic components, the main toxic target organ, etc., Better use and avoidance of these toxicities, It will play a greater role in the clinical treatment of diseases.

ACKNOWLEDGEMENTS

Foundation item: Public welfare industry research projects (201507004-2), National international cooperation base (2016-151)

REFERENCE

- [1] Liang Jiehao. Analysis of the application of poisonous Chinese herbal medicine in Chinese medicine prescription [j]. snake annals, 2016, (02): 154-155 176.
- [2] Liu Ling, Qin Chen. Application of dosage of toxic traditional Chinese medicine in traditional Chinese medicine prescription [j]. Chinese medicine guide, 2014, (12): 266-267.
- [3] Xia Qing, Zhang Xiaoxin, Xu Kexin, Zhang Wenting, Fan Jiaojiao, Zhao Chongjun, Feng Yaru, Ni Yuanyuan, Ma Zhiqiang, Lin Ruichao. "People's Republic of China Pharmacopoeia >2015 collection contains studies of toxic toxicity of traditional Chinese medicine [j]. global Chinese medicine, 2017, (03): 377-384.
- [4] Pan Yaozong. Araceae toxic medicine toxicity mechanism of [d]. Nanjing University of Chinese Medicine, 2016.
- [5] Wu Zhenfeng, Huang Xiaoying, announced Lu, Wang Yaqi, Hu Pengyi, Wang Fang, Zhu Genhua, Song Minxian, Yang Ming. The management of toxic traditional Chinese medicine and the research progress of [j]. quality control of Chinese herbal medicine, 2015, (19): 2974-2978.
- [6] Zhang Xingxing, Li Zegeng. Study on the application and mechanism of toxic traditional Chinese medicine in cancer [j]. Journal of Liaoning University of Traditional Chinese Medicine, 2015, (09): 213-215.
- [7] Liu Ling, Qin Chen. Application of dosage of toxic traditional Chinese medicine in traditional Chinese medicine prescription [j]. Chinese medicine guide, 2014, (12): 266-267.
- [8] WengCehngGuo, Traditional Chinese medicine characteristics of toxic Chinese medicine [d]. Nanjing University of Chinese

Medicine, 2014.

- [9] Tan Yong, Li Jian, Xiao Cheng, Lu Cheng, Lv Aiping. Among the component compatibility is a magazine, with detoxification of toxic Chinese medicine is an important way to control [j]. Chinese of traditional Chinese medicine and Western medicine 2017 (01): 115-118.
- [10] Zhang Guangping, Ye Feng. Toxicity and toxicity classification of toxic traditional Chinese medicine [j]. World Chinese medicine, 2014, (02): 175-177.
- [11] Fan Haizhou. Toxic components and processing principles of commonly used toxic traditional Chinese medicine [j]. Chinese Journal of traditional Chinese medicine, 2014, (09): 1335-1336.