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Chinese Herbal Medicine: MATERIA MEDICA

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Preface to 3rd Edition

The first edition of Chinese Herbal Medicine: Materia Medica was published in 1986, and the revised edition in 1993. During the ensuing years there has been a huge increase in the use of Chinese herbal medicine in those Western countries where this book has served as a basic reference text. About six years ago we realized that some important changes had to be made if the book was to remain useful, and we have been working hard ever since to bring this new book to fruition.

To assist with this edition, two new co-authors were invited to contribute their special expertise. Steven Clavey, an author and practitioner from Melbourne, Australia, applied his clinical and scholarly expertise to expand the traditional background and usage of each herb. He was primarily responsible for in-depth discussions of the herbs in the Commentary, Mechanisms of Selected Combinations, Comparisons, Traditional Contraindications, and Nomenclature & preparation sections. Our other new co-author is Erich Stöger, from Austria, trained in both traditional Chinese and modern pharmacology. He has done extensive work in herb identification, which is reflected in this book, as well as his work translating and editing monographs on Chinese materia medica in German. He was primarily responsible for the identification section as well as Quality Criteria, Major known chemical constituents, Alternate species & local variants, Adulterations, Alternate names, and Additional product information.

The principal changes in this edition can be divided into four categories:

- First, our guiding principle has been to provide the type of information that enables the reader to practice Chinese herbal medicine more effectively. To this end, in each entry we added new types of information: commentaries, discussions of key combinations, comparisons of related herbs. This new material provides the reader with a more well-rounded picture of the herbs and how they are used from both contemporary and pre-modern perspectives. In addition, because one of the keys to successful practice is proper preparation of the herbs, we also added a section that describes the different methods of preparing individual herbs, and the advantages of each.

- Second, we address the issue of safety more directly. This has two aspects. The first concerns toxicology research. Much work has been done in this area since the previous editions of this work were published, and we now include a section on toxicity in each entry where it is warranted. The literature on this subject is in its infancy, and often raises more questions than it answers. This information should therefore only be used for cautionary purposes, and not as an excuse to ban herbs or limit their availability.

  The second aspect of safety is proper herb identification. We can’t be sure that the herbs we give our patients are safe if we don’t even know what they are. This is a major issue in contemporary Chinese herbal medicine and is discussed at length in the Introduction. In this edition we have added new sections to each entry dealing with quality criteria, alternate species and local variants, and adulterants. We have also updated the information on the major known chemical constituents of each herb. In doing so, we have tried to balance the competing pulls of tradition, convenience, utility, and scientific taxonomy. It is our belief that a consensus is building around these impor-
tant issues, primarily because of their impact on safety. On the other hand, we have chosen not to directly address the thorny issue of herb-drug interactions, as the information available at this time on the subject is often too unclear to be useful.

- Third, we separated out those materia medica that we consider to be obsolete and put them in their own chapter (19). Some are derived from endangered species, as identified in the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES), Appendix 1. Others have a level of toxicity that far outweighs their usefulness, rendering them unsuitable for use.

- Finally, there are many substances that are new to this edition. These either appear in textbooks from the People’s Republic of China or are in relatively common use outside of China. This now brings the total number of substances discussed in our book to approximately 532, of which 478 are discussed at some length.

One aspect of prior editions that we elected to remove from this one is pharmacological and clinical research. This is a field that has exploded in recent years and deserves a multivolume work of its own. Given our own disposition — that the practice of Chinese herbal medicine must be grounded on traditional approaches — and our limited expertise, we felt that we simply could not do justice here to the vast amount of new research that has been published. Fortunately, however, there are a number of other books on this topic in English to which we can happily refer the reader, among them *The Pharmacology of Chinese Herbs*, 2d ed. (Huang Kee-Chang and W. Michael Williams, 1998), *Pharmacology and Applications of Chinese Materia Medica* (Chang Hson-Mou et al., 2000), and *Chinese Materia Medica: Chemistry, Pharmacology and Applications* (Zhu You-Ping, 1998).

In preparing this book we consulted a wide range of sources. Except where otherwise indicated, all of the information is drawn from the Chinese sources listed in the Translators’ Bibliography. With respect to the Actions & Indications section, we relied primarily on three recent textbooks: *Chinese Herbal Medicine* (Yan Zheng-Hua, 1991), *Clinical Traditional Chinese Herbal Medicine* (Lei Dai-Quan and Zhang Ting-Mo, 1998), and *Chinese Herbal Medicine* (Gao Xue-Min, 2000). There is a high level of agreement on the basic actions of the herbs in modern materia medica texts, and these books were consulted for their relatively comprehensive treatment of the subject.

Our translation methodology remains largely unchanged from the previous edition. As always, our goal has been to translate Chinese medicine into English as clearly and transparently as we can. Yet, as our understanding of the medicine has improved, and the experience of our profession in transmitting information about Chinese herbal medicine into English has grown, we have made certain changes in our terminology, the most important of which are discussed in the Glossary.

Another change is the manner in which we refer to the herbs themselves. We have adopted the new standard in international pharmacognosy that places the genus and species (when relevant) in front of the part of the plant used. For example, what used to be rendered as Herba Ephedrae is now Ephedrae Herba. This change will allow readers to more easily cross reference our work with those of other authors. We continue to combine the pinyin transliteration of the standard name of an herb with its pharmaceutical name, as this is the clearest method of identification. A cross reference to the names used in the previous edition of our work is provided in Appendix 8.

While we use the standard pinyin transliteration system from the People’s Republic of China, we have modified it to better fit the needs of our audience. The standard transliteration system separates each word, while we separate each syllable (character). For example, we write jǐn yīn huā instead of jīn yīn huā. We do this because much of our audience is untutored in Chinese, and separation by syllables is easier to read. We also modified the rendering of Chinese given names. In the standard method of transliteration, the two syllables (characters) of a given name are combined and placed after the surname, as in Zhang Zhongjing. In part to make things less confusing, and in part to emphasize to a Western audience that both parts of a two-syllable given name are important, we separate the two syllables with a hyphen, as in Zhang Zhong-Jing. We believe that this is clearer to our readers than the standard approach, and hope that Sinologists will forgive us this trespass.

Many people generously shared their knowledge and expertise on various aspects of this project. Among them are our colleagues Mazin al-Khafaji, Peter Deadman, Subhuti Dharmananda, Andy Ellis, Johann P. Gruber, Amy Hanks, Andreas Höll, Volker Scheid, and Nigel Wiseman.

Christine Tani provided the bulk of the Japanese transliterations, with some contributions from Atsue Morinaga, Gretchen de Soriano, and Jacqueline Young, Jinwoong Kim, professor of pharmacognosy at Seoul National University, not only brought our transliteration of the Korean names for the herbs up to date, but also participated in our deliberations regarding herb identification. We would like to particularly thank our mentor and friend Yao Da-Mu in Beijing for all his encouragement and assistance with issues of herb identification. Michael Ellis in Australia did much of the basic work on the herb comparison tables.
We wish to express our appreciation to the many Chinese authors whose works form the basis of our text. Given the focus of this book on herb identification, we especially pay tribute to some of the early pioneers of modern pharmacognosy in China who laid the foundations of this field, while laboring under extremely difficult circumstances. In particular, we honor the names of Lou Zhi-Cen (樓之岑), Cheng Jing-Rong (誠靜容), Xu Guo-Jun (徐國鈞), Chen Jun-Hua (陳俊華), Zhao Da-Wen (趙達文), Yao Da-Mu (姚達木), and Xiao Pei-Gen (肖培根).

We also thank John O’Connor for his perspicacious editing, Hans Bleicher for his help with the photos, and Gary Niemeier for his artful book design. All errors are ours alone.

We hope that this new edition will prove useful not only to you, our readers, but more importantly, to your patients.

— Dan BenSky, Steven Clavey, Erich Stöger
Herbs that Release the Exterior

Exterior-releasing herbs are those that release disorders lodged in the very superficial levels of the body. When external pathogenic factors (including wind-heat, wind-cold, wind-dampness, and summerheat) invade the body, they first attack its superficial, exterior aspects. Symptoms associated with the exterior then appear: chills, fever, headache, stiff neck, and general muscle aches. Sometimes sweating will appear, which resolves the condition, in which case no treatment is necessary. At other times, however, there will be an absence of sweating; or, even though there is sweating, it is not be accompanied by any change in the condition. At this juncture, herbs that release the exterior are used.

Most exterior-releasing herbs are diaphoretics, that is, they release or expel the external pathogenic influences through sweating. There is a saying in Chinese medicine, “When [the disease] is in the skin, sweating will bring it out.”

When a disease progresses slightly further into the body it is said to lodge in the muscle layer. The clinical presentation then includes fever, general body aches, and profuse sweating. At this stage, especially when the patient has sweated without any beneficial change in their condition, it is appropriate to use the subset of herbs that release the muscle layer. The most prominent member of this group is Cinnamomi Ramulus (guì zhī).

Some of the herbs that release the exterior have additional functions: stopping coughs and wheezing, controlling pain or spasms, and venting rashes such as measles. In Chinese medicine, the treatment of rashes such as measles consists of bringing the rash (which is a sign of heat) to the surface and venting it, thereby dispersing the disease. This is similar to releasing an exterior disorder through sweating. Herbs that vent the rash of measles and similar diseases are especially useful in cases of relatively long duration, when it is believed that the rash is “trapped” in the body.

Section 1

Warm, Acrid Herbs That Release the Exterior

Herbs that release the exterior can be further divided by character and function into warm, acrid and cool, acrid classes. The warm, acrid herbs dispel wind-cold and are used for exterior disorders when the fever is mild, the chills severe, and there are other signs and symptoms of wind-cold including headache, body and neck pains, and absence of thirst.

麻黃

*má huáng*

Pharmaceutical Name: Ephedrae Herba
Family: Ephedraceae
Standard Species: Ephedra sinica Stapf (草麻黃 cǎo má huáng) Ephedra intermedia Schrenk & C.A. Mey. (中麻黃 zhōng má huáng) Ephedra equisetina Bge. (木賊麻黃 mù zéi má huáng)
English: ephedra stem, ma-huang
Japanese: maō
Korean  mahwang
Text in which first appeared  Divine Husbandman’s Classic of the Materia Medica
Properties  acrid, slightly bitter, warm
Channels entered  Lung, Bladder
Key characteristics  induces sweating, calms wheezing, promotes urination
Dosage  2-9g
Cautions & Contraindications  Because this herb has a rather strong effect of inducing sweating and opening up the Lungs, the dosage should not be too large. Nor should it be prescribed, without some adjustment in the prescription, for those who are debilitated, those with spontaneous sweating from exterior deficiency, those with night sweats from yin deficiency, or those with wheezing associated with the failure of the Kidneys to accept qi. See Toxicity below.

Actions & Indications
• Induces sweating and releases the exterior: for patterns of wind-cold exterior excess (greater yang cold damage) with chills, fever, headache, absence of sweating, and a tight, floating pulse. This herb is very effective in opening the pores and interstices to release the exterior.
  — With Arseniiae Semen amarum (xing rén) for wind-cold cough and wheezing, as in Minor Bluegreen Dragon Decoction (xiǎo qīng lóng tāng) or Three-Unbinding Decoction (sān ào tāng).
  — With Gypsum fibrosum (shí gāo) for cough from heat obstructing the Lungs with wheezing and nasal flaring, as in Ephedra, Apricot Kernel, Gypsum, and Licorice Decoction (má xìng shí gān tāng). Often more effective when used with Scutellariae Radix (huáng qín) and Mori Cortex (sāng bái pí).
  — With Ginseng Radix (rén shēn) for wind-cold where there is underlying primal qi deficiency.
• Disseminates and facilitates the Lung qi, calms wheezing, and stops coughing: for cough and wheezing due to wind-cold obstructing the Lungs. The herb both encourages the Lung qi to flow more easily, and directs it downward. It is important for treating either externally-contracted or internally-generated wheezing.
  — With Armeniacae Semen amarum (xìng rén) for wind-cold cough and wheezing, as in Minor Bluegreen Dragon Decoction (xiǎo qīng lóng tāng).
  — With Gypsum fibrosum (shí gāo) for cough from heat obstructing the Lungs with wheezing and nasal flaring, as in Ephedra, Apricot Kernel, Gypsum, and Licorice Decoction (má xìng shí gān tāng).
  — With Scutellariae Radix (huáng qín) and Mori Cortex (sāng bái pí).
• Promotes urination and reduces edema: especially for edema that accompanies an exterior condition.
  — With Atractylodis macrocephalae Rhizoma (bái zhú) for acute onset edema, often together with Poriae Cutis (fú líng pí) and Mori Cortex (sāng bái pí), as in Maidservant from Yue Decoction plus Atractylodes (yùe bì jiā zhú tāng).
  — With Rehmanniae Radix preparata (shú dì huáng) for deep-rooted toxic sores without a head caused by cold-dampness obstructing the channels. This combination is also used for cough and wheezing associated with Kidney yin deficiency, as in Yang-Heartening Decoction (yáng hé tāng).
  — With Aconiti Radix lateralis preparata (zhì fù zī) for wind-cold painful obstruction, or exterior cold conditions and edema associated with yang deficiency.
  — With Rehmanniae Radix preparata (shú dì huáng) for deep-rooted toxic sores without a head caused by cold-dampness obstructing the channels. This combination is also used for cough and wheezing associated with Kidney yin deficiency, as in Yang-Heartening Decoction (yáng hé tāng).
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• Warms and disperses cold pathogens: useful for wind-damp painful obstruction and deep-rooted toxic sores without a head.
  — With Aconiti Radix lateralis preparata (zhì fù zī) for wind-cold painful obstruction, or exterior cold conditions and edema associated with yang deficiency.
  — With Rehmanniae Radix preparata (shú dì huáng) for deep-rooted toxic sores without a head caused by cold-dampness obstructing the channels. This combination is also used for cough and wheezing associated with Kidney yin deficiency, as in Yang-Heartening Decoction (yáng hé tāng).

Note: If heat is generated from the use of Ephedrae Herba (má huáng), Gypsum fibrosum (shí gāo) and Scutellariae Radix (huáng qín) may be added for their cooling effect.

Commentary
Ephedrae Herba (má huáng) is strongly acrid, dispersing and warm, and enters the channels of the Lungs and Bladder, both of which relate to the exterior of the body. The dispersing action of the herb is thus expressed in the exterior, by opening up the interstices and pores to induce sweating and drive out pathogenic influences. The acrid, dispersing action of Ephedrae Herba (má huáng) opens up the Lungs to disseminate and facilitate the Lung qi, and thus alleviate coughs and calm wheezing. It also enters the greater yang, both the channel and the Organ (Bladder). This is why the herb is able to release the exterior while also promoting urination. As Zhang Xi-Chun observed, “Ephedrae Herba (má huáng) treats the pathogen in the
greater yang channel by inducing sweating, and the pathogen in the greater yang Organ by releasing it through urination."

The acrid, dispersing character of Ephedrae Herba (mà huáng) is also utilized in other ways. Because it is warm as well as strongly dispersing, it can be used to drive out cold pathogens in cases of wind-damp painful obstruction, and combined with other herbs to expel wind-dampness.

It is also used for deep-rooted toxic sores without a head caused by localized accumulation of dampness (or phlegm) and cold, which prevents nourishment from reaching the area, and thereby causing a breakdown in the tissues. Combined with herbs that restore nourishment, the warm, dispersing nature of Ephedrae Herba (mà huáng) can be instrumental in breaking up the congealing of the gathered yin pathogens, thus allowing nourishment to reach the area and repair the tissues. Finally, it can be added to external medications for the specific purpose of opening the pores to allow the medication to be absorbed more quickly.

When used properly, the warming dispersal of Ephedrae Herba (mà huáng) can be a powerful and versatile agent, but its use requires familiarity with the qualities of the local environment and population. A dosage appropriate in one place may be excessive in another. Chinese physicians have been debating the relationship between locality and dosage of this herb for a long time, as reflected in the following passage from Lu Jiu-Zhi, quoted by Zhang Xi-Chun in Essays on Medicine Esteeming the Chinese and Respecting the Western:

[For] Ephedrae Herba (mà huáng) to promote sweating at several tenths of a gram is perhaps possible in southerners, but difficult to achieve in the north. The weather is warm in the south, the people’s skin thin: they sweat easily. Thus, a southern proverb warns, 'Ephedrae Herba (mà huáng), no more than one gram.' In the north, outside the [Great] Wall, the climate is freezing, the people’s skin tough and thick, especially in those who work outside exposed to the wind and frost. When it is also in the middle of winter, then a sweat could only be produced if repeated doses of 20 grams or more are used. Thus, the Way of Herbs values adapting the approach in accordance with the time, place, and people, adroitly changing with the circumstances, and not hobbled by set views [about dosage].

Li Shi-Zhen also provided some advice regarding the management of common, mild reactions to this herb:

If ingestion of Ephedrae Herba (mà huáng) causes continuous spontaneous sweating, use cold water to soak the scalp, then pat Ephedrae Radix (mà huáng qín) powder over the area of sweating and it will stop. After using any medicine containing Ephedrae Herba (mà huáng), drafts must be avoided for one day, otherwise the illness will recur. The problem of red eyes can be avoided by always using Scutellariae Radix (huáng qín) as an accompaniment to Ephedrae Herba (mà huáng).

### Mechanisms of Selected Combinations

#### With Cinnamomi Ramulus (guì zhī)

Both of these herbs are acrid and warm, and both enter the greater yang channel. The combination is used when pathogenic cold has attacked and lodged in the exterior, especially in winter. Ephedrae Herba (mà huáng) travels best at the protective level; it strongly disperses cold by promoting sweating. Cinnamomi Ramulus (guì zhī) moves best at the nutritive level, where it warms the channels and releases the muscle layer, but its sweat-inducing action is much less than that of Ephedrae Herba (mà huáng). The diaphoretic effect of Ephedrae Herba (mà huáng) is enhanced by the addition of Cinnamomi Ramulus (guì zhī), and the latter can lead a pathogen lodged at the nutritive level out to the exterior, where it is dispersed.

When using this combination, caution must be exercised to prevent excessive sweating, which could injure the qi and fluids. However, one must be equally careful not to induce less sweating than needed, since this will have no effect. Generally, pathogenic cold lodged in the exterior requires only a mild sweat to release it, but the intensity of the sweating required depends upon an evaluation of the strength of the patient and the strength of the pathogen.

A strong patient with a strong wind-cold pathogen requires Ephedrae Herba (mà huáng) at twice the dose of Cinnamomi Ramulus (guì zhī), as in Major Bluegreen Dragon Decoction (dà qīng lóng tāng). If the dose is equal, or there is only slightly more Ephedrae Herba (mà huáng), there will be a moderate sweating effect. More Cinnamomi Ramulus (guì zhī) than Ephedrae Herba (mà huáng) induces only a slight sweat, which is often useful in treating older or weaker patients, who may also benefit from combining these herbs in lower dosages, as in Two-parts Cinnamon Twig Decoction and One-part Ephedra Decoction (guì zhī èr mà huáng tāng).

#### With Armeniacae Semen (xīng rěn)

Both herbs enter the Lung channel and excel at alleviating cough and calming wheezing. However, their mechanisms of action differ. Ephedrae Herba (mà huáng) disseminates and facilitates the flow of Lung qi, while Armeniacae Semen (xīng rěn) primarily drains and directs the Lung qi downward. Because these various actions exactly match the Lung’s own movements in disseminating and moving downward, this pair can restore normal Lung function and is frequently found in ancient formulas. For example, in Records of Thoughtful Differentiation of Materia Medica, Zhou Yan offers this explanation:

Armeniacae Semen (xīng rěn) is known as the ‘right hand’ of Ephedrae Herba (mà huáng). Ephedrae Herba (mà
As this passage suggests, regardless of whether a pattern is hot or cold, this combination is still useful, with the appropriate additions. What is more, because Ephedrae Herba (má huáng) and Armeniacae Semen (xing rén) also release the exterior, the pair is strong enough to use as a two-herb formula when a wind-cold exterior pattern is causing cough, sensations of fullness in the chest, and wheezing.

➢ With Rehmanniae Radix preparata (shú dì huáng)

This combination benefits the Kidneys while calming wheezing. It is most suitable when the Kidney qi is not secure and cannot accept qi, which manifests as chronic wheezing characterized by difficult inhalation with prolonged exhalation. The patient is often emaciated and fatigued. The Lungs control the qi, while the Kidneys are its root. Thus, if the Kidneys are weak and have difficulty accepting inhaled qi, the qi will not remain stable at the deeper levels (below the navel) but instead will rebel upward with wheezing. Rehmanniae Radix preparata (shú dì huáng) nourishes the true yin, generates essence, blood, and primal qi, thus enhancing the Kidney’s ability to accept the inhaled qi. Ephedrae Herba (má huáng) helps the Lungs redirect the qi downward instead of accumulating in the upper body, and so settles the wheezing.

Together these herbs also warm and unblock the channels and collaterals. Rehmanniae Radix preparata (shú dì huáng) is tranquil and nourishing, while Ephedrae Herba (má huáng) is mobilizing: it can enter deeply into accumulated phlegm and blood stagnation. This is an illustration of the adage “tranquility requires movement for motivation.” This combination can be used in the treatment of cold from deficiency in the nutritive level blood, where cold, congealed phlegm has stagnated and caused deep-rooted toxic sores without a head, as in Yang-Heartening Decoction (yìng hé tāng).

➢ With Ginseng Radix (rén shēn)

Ephedrae Herba (má huáng) has a strong dispersing action, possibly too strong for those with externally-contracted wind-cold who also have weak primal qi or temporary qi deficiency due to overwork. Ginseng Radix (rén shēn) restores the primal qi so that the dispersing action of Ephedrae Herba (má huáng) will be able to dispel the pathogen without inducing profuse or continuous sweating. Ginseng Radix (rén shēn) is the most fitting of the qi-supplementing herbs to prescribe with Ephedrae Herba (má huáng). Astragali Radix (huáng qì) is less suitable, for although it also tonifies the primal qi, it tends to secure the exterior and work against the action of Ephedrae Herba (má huáng). Codonopsis Radix (dâng shën) tonifies the Spleen qi rather than the primal qi, and would therefore also not be the best choice.

One occasionally hears the statement that “tonifying herbs should not be used with exterior patterns” for fear of strengthening the pathogen. In Precepts for Physicians, Yu Chang discusses this at length. He concludes that this is a problem only if there is no existing deficiency, as there is then nowhere for the tonification to be received other than by the pathogen. However, if there is significant deficiency, tonification is indicated and there is no impediment to its use:

There are situations of cold damage where Ginseng Radix (rén shēn) should be included in the prescription: the primal qi will then flourish and the external pathogen will be carried outward by its power. If the person’s primal qi is weak, even though the [force of the] herbs themselves move toward the exterior, the qi remains passively in the middle. In mild cases, a pathogen will be half expelled, leaving half to remain and cause difficulties; a severe pathogen will follow the primal qi as it withdraws inward, causing endless fevers. Thus, weak deficient people must have Ginseng Radix (rén shēn) in with their exterior [releasing] herbs: it makes the herbs powerful so that, with a single gush, the pathogen is thrust out. This is definitely not a matter of ‘tonification’.

➢ With Gypsum fibrosum (shí gāo)

Both are acrid, dispersing and enter the Lungs, but Ephedrae Herba (má huáng) is warm and works on the exterior while Gypsum fibrosum (shí gāo) is very cold and works more deeply at the muscle layer and interior. Together they act strongly to disseminate the Lung qi, cool the heat, and calm the wheezing, and are particularly appropriate for exterior pathogens which have moved internally, transformed into heat, and clogged the Lungs. This pattern presents with such symptoms as prolonged fever, cough, and wheezing. This pair of herbs is the basis for the formula Ephedra, Apricot Kernel, Gypsum, and Licorice Decoction (mù xìng shí gāo tāng).

Beyond this, Gypsum fibrosum (shí gāo) can lead Ephedrae Herba (má huáng) to the interior while moderating its sweat-inducing effect; the Gypsum fibrosum (shí gāo) itself clears heat which is trapped within pathogenic water and dampness. The pair is thus highly effective in treating wind-edema. However, the dosage of Ephedrae Herba (má huáng) must be greater than normal in this case, between 10 to 15g, in order to move fluids, while the dosage...
of Gypsum fibrosum (石膏) is somewhat smaller than normal, 20-30g being sufficient.

➢ With Ginkgo Semen (白果); see page 892

Traditional Contraindications

Its nature is light, lifting, and very dispersing, and is most rapid at releasing the exterior … excessive sweating devastates yang and can endanger a person’s life—be on guard! From the end of spring through summer until the beginning of autumn, the standard approach is to forbid it; only in the winter when symptoms appear, showing that a truly cold pathogen has injured the nutritive [level], is it of benefit. If not during the winter months, or the symptoms are not those of a cold pathogen, or are those of a cold pathogen in the interior, or those of pathogenic wind injuring the protective [level], then Ephedrae Herba (麻黄) is not suitable, even though there may be fever and chills; there will not be aching and stiffness of the head and body, and no floating and tightness in the six pulse positions.

When the condition is right for sweating, it must not be excessive. Sweat is the fluid of the Heart, excessive sweating will agitate the Heart blood, or cause great loss of yang, or cause bleeding—and this then becomes a major affliction. (Harm and Benefit in the Materia Medica)

Toxicity

This herb contains central nervous system stimulants and may cause high blood pressure, restlessness, and insomnia. It should be used with caution in treating patients with high blood pressure. Do not use in conjunction with cardiac glycosides, as cardiac arrhythmias may occur. Allergic reactions in the form of cutaneous eruptions combined with slightly elevated temperature and measles-like erythema have been reported. Because ephedrine stimulates the sphincter muscle of the bladder, long-term administration may cause oliguria or anuresis.

The toxic dose is approximately 30-45g. Symptoms of acute toxic reaction include palpitations, insomnia, restlessness, diaphoresis, chest pain, elevated temperature, and tremor. Extreme overdoses can lead to blurred vision, dilated pupils, coma, dyspnea, dysuria, convulsions, respiratory arrest, cardiac failure, bradycardia, and ventricular fibrillation.

Nomenclature & Preparation

Literal English translation: “hemp yellow”

➢ Cleaned Ephedra (净麻黄 jìng má huáng)

This has the nodes on the stalks removed, as well as the roots, as both are generally considered to reduce the herb’s diaphoretic effect. The nodes can be left if the herb is not to be used to induce sweating. For example, the formula Three-Unbinding Decoction (三拗汤) specifically calls for Ephedrae Herba (麻黄) without the nodes removed, since the desired effect is to disseminate the Lung qi and calm wheezing, rather than sweating.

➢ Ephedra Cotton (麻黄绒 má huáng róng)

Cleaned ephedra is brought to a boil until it ‘rolls over’ in the water ten times, or simply infused in boiling water until froth rises; it is then removed and dried. Once dried, it is ground until the fibers become soft. It is then called ephedra cotton.

Usually, when cleaned ephedra is used to promote sweating, the patient first boils it, then removes the froth, as it can cause agitation. Ephedra cotton saves this trouble. The diaphoretic effect, however, is slightly less than cleaned ephedra, while stronger than prepared ephedra.

➢ Prepared Ephedra (炙麻黄 zhì má huáng)

Cleaned ephedra is stir-fried with water. This method of preparation reduces the herb’s diaphoretic action, but strengthens its effect in calming the Lungs. Discussion of Cold Damage says to remove the froth after boiling. According to Materia Medica of Combinations, this is because the froth “makes one irritable”; however, “frying with honey before use will also work.”

➢ Honey-prepared Ephedra (蜜炙麻黄 mì zhì má huáng)

Honey is first brought to a boil slowly, and the froth and any residual wax or extraneous material scraped from the surface. The honey is then poured through a filter. It is returned to the wok, and again brought to a boil, which is maintained at 116-118°C until the whole wok bubbles and the honey no longer stretches between the fingers.

Boiling water is then added to thin the honey, which is then poured slowly over cleaned ephedra and left covered briefly. The amount of cooked honey should be approximately one-fifth the amount of herb, while the amount of water should be approximately one-third the quantity of honey; too much water and the herb will become overly damp and difficult to dry after preparation. The herb is then dry-fried at a low temperature until deep yellow and no longer sticky to the touch.

When ephedra is prepared with honey, the diaphoresis is modified by the sweetness of the honey. Not only is the intensity of its acrid, dispersing qualities moderated, but the duration of its action is lengthened in a kind of ‘time-release’ manner. Sweetness pertains to the earth phase and thus brings harmony. Honey preparation also moistens the Lungs and protects this tender Organ from the drying effects of the acrid, warm qualities of the unprepared herb.
**Herbs that Clear Heat**

**2. Chinese Materia Medica**

**Sichuan Chinese Materia Medica**

**PROPERTIES**
- bitter, salty, cold

**CHANNELS ENTERED**
- Lung, Stomach, Heart, Liver

**KEY CHARACTERISTICS**
- clears heat, resolves fire toxicity, cools the blood

**DOSAGE**
- 9-15g

**CAUTIONS & CONTRAINDICATIONS**
- Contraindicated in cases of cold from deficiency of the Spleen and Stomach.

**Actions & Indications**

- Clears heat, resolves toxicity, cools the blood, and stops bleeding: particularly useful for damp-heat diseases, warm pathogen diseases that have entered the blood, or cases with toxicity.
  - With Lonicerae Flos *(jín yín huā)* and Forsythiae Fructus *(lián qiào)* for damp-heat diseases with high fever, headache, and maculæ.
  - With Mori Cortex *(sàng bái pí)* and Armeniacae Semen *(xìng rén)* for coughs from Lung heat.
  - With Arnebiae Radix/Lithospermi Radix *(zî câo)*, Paeoniae Radix rubra *(chì sháo)*, and Lonicerae Flos *(jín yín huā)* for erysipelas, rheumatic fever, and measles.
  - With Coptidis Rhizoma *(huáng lián)*, Fraxini Cortex *(qín pí)*, and Phellodendri Cortex *(huáng bâi)* for damp-heat dysenteric disorders.
  - With Prunellae Spica *(xià kü câo)*, Forsythiae Fructus *(lián qiào)*, and Scrophulariae Radix *(xuán shën)* for mumps or lymphadenitis.
  - With Rehmanni Radix *(shēng dì huáng)*, Imperatae Rhizoma *(bài mào gën)*, and Platycladi Cacumen *(cè bâi yè)* for vomiting of blood, nosebleeds, or bleeding from the gums.

**Commentary**

When used for serious diseases such as erysipelas, the dosages must be large, in the range of 30g. In southern China this is used fresh in dosages of 30-60g to treat snake bite.

**Quality Criteria**

Good quality consists of large, unfragmented, blackish green leaves.

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**Major known chemical constituents**
- Alkaloids: indirubin, indigo, isoindigo, tryptanthrine

**Alternate species & local variants**
- *Strobilanthes pentstemonoides* (球花馬藍 qiú huā mǎ lán)
- *Strobilanthes guangxiensis* (廣西馬藍 guâng xī mǎ lán)
- *Strobilanthes divaricatus* (疏花馬藍 shū huā mǎ lán)

**Alternate names**
- 大葉冬藍 dà yè dòng lán
- 廣東大青葉 guâng döng dà qïng yè
- 马蓝葉 mà lán yè

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**板蓝根 (板蓝根)**

*bân lán gën*

**PHARMACEUTICAL NAME**
- Isatidis/Baphicacanthis Radix

**JAPANESE**
- banrankon

**KOREAN**
- panramgeun

**NOTE**
- There are many plants called 板蓝根 bân lán gën in China with complex issues of identification and use. At this point, the standard plant is *Isatis indigotica*, which follows as the main entry. The other most common herb comes from *Baphicacanthus cusia* and is known as southern 板蓝根 (南板蓝根 nán bân lán gën); see the ADDENDUM to the following entry. When the precise identification of the herb is unclear, we use the term Isatidis/Baphicacanthis Radix (bân lán gën).

**北板蓝根 (北板蓝根)**

*bêi bân lán gën*

**PHARMACEUTICAL NAME**
- Isatidis Radix

**FAMILY**
- Apiaceae

**STANDARD SPECIES**
- *Isatis indigotica* Furt.

**ENGLISH**
- isatis root, woad root
**Key Characteristics**
- drains heat, resolves fire toxicity, cools the blood, benefits the throat

**Dosage**
- 9-15g

**Cautions & Contraindications**
- Contraindicated in cases with cold from deficiency of the Spleen and Stomach. See Toxicity below.

**Actions & Indications**
- Drains heat, resolves fire toxicity, cools the blood, and benefits the throat: for warm-heat pathogen diseases, warm epidemic disorders, mumps, and painful, swollen throat conditions. Also for damp-heat jaundice.
- With Loniceræ Flos (jīn yīn huā), Forsysthiae Fructus (líān qiào), and Schizonepetae Herba (qǐng jiè) for the early stages of externally-contracted wind-heat.
- With Scrophulariae Radix (xuān shēn) and Anemarrhenæ Rhizoma (zhī mù) for pain and swelling of the throat, acute tonsillitis, and diphtheria.
- With Lonicerae Flos (jīn yīn huā), Forsysthiae Fructus (líān qiào), and Gypsum fibrosum (shī gāo) for fever, irritability, dry throat, and thirst due to heat.
- With Sophoræ tonkinensis Radix (shān dòu gēn) for severe swelling and redness of the throat from internal accumulation of intense heat.
- With Arctii Fructus (niù bàng zī) and Patriniae Herba (bài jiàng cáo) for mumps with pain and swelling in the throat.
- With Notopterygii Rhizoma seu Radix (qiāng huó) for heat toxin affecting the head and neck, as in Notopterygium and Isatis Root Decoction (qiāng lán tǎng).
- With Lasiosphaera/Calvatia (mâ bó), Platycodi Radix (jīé gēng), and Scrophulariae Radix (xuān shēn) for throat pain as part of a massive head febrile disorder with strong fever and chills, along with redness, swelling, and burning pain of the face. See Universal Benefit Decoction to Eliminate Toxin (pù jì xiǎo dà yín).
- With Artemisiae scopariae Herba (yīn chén) for damp-heat jaundice or symptoms of damp-heat in the Liver and Gallbladder.

**Mechanisms of Selected Combinations**

- **With Sophoræ tonkinensis Radix (shān dòu gēn)**; see page 208

**Comparisons**

- **Vs. Isatidis Folium (dà qīng yè) and Indigo naturalis (qīng dài)**

  All three herbs originate from the same plants and are effective in cooling heat in the blood and reducing skin blotches. The first two herbs both cool heat toxin in the Heart and Stomach, but Isatidis Folium (dà qīng yè) is generally used for rashes associated with warm toxin, and swollen sore throat, while Isatidis Radix (bêi bân lán gēn) is used for massive head febrile disorder and throat obstruction due to mumps. Indigo naturalis (qīng dài) also cools the Liver and drains fire and is thus best for toxic sores due to fire and heat, rashes from warm toxin, coughing or spitting up blood, and childhood convulsions.

**Toxicity**

There is one case report of this substance being implicated in bleeding from the upper gastrointestinal tract.

**Nomenclature & Preparation**

The situation regarding identification of this herb is quite complex, as can be seen in the Alternate Species & Local Variants and Adulterants sections below. While there are many plants called 板蓝根 (bân lán gēn) in China, the one described here is the standard plant according to the Chinese Pharmacopoeia and is known as northern 板蓝根 (bân lán gēn) 称 (北板蓝根 bêi bân lán gēn). The other most common herb comes from Baphicacanthus cusia and is known as southern 板蓝根 (南板蓝根 nán bân lán gēn); see the Addendum which follows this entry and photo on page 1145. When the precise identification is unclear, we use the term Isatidis/Baphicacanthis Radix (bân lán gēn).
Quality Criteria

Good quality consists of thick and long, yellowish white roots with a powdery cross section.

Major known chemical constituents

Alkaloids: indigotin (indigo), indirubin
Amino acids: arginin, glutamic acid, tyrosine, proline, valine, γ-aminobutyric acid
Glycosides: sinigrin, indoxyl-β-glucoside
Other constituents: epigoitrin, tryptanthrine, thiocyano-2-hydroxy-3-butene, adenosine, palmitic acid, sucrose, proteins

Alternate species & local variants

Baphicacanthus (Strobilathes) cusia (馬藍根 mâ lán gën): See ‘Addendum’ below.

Adulterants

Clerodendron cyrtophyllum (大青 dà qïng, 路邊青 lù biän qïng): This is an indistinct rhizome with cylindrical, twisted, and nodous roots, a yellowish brown cross section, yellowish white and narrow cortex, and large xylem.

Strobilanthes pentstemonoides (球花馬藍 qiú huä mâ lán), Strobilanthes divaricatus (疏花馬藍 shü huä mâ lán), Strobilanthes guangxiensis (廣西馬藍 guâng xï mâ lán): These are cylindrical, greyish brown, and nodous rhizomes, with a yellowish or greyish white cross section, and white pith in the center.

A more precise differentiation of these adulterants is only possible by thin layer chromatography.

Alternate names

板藍根 bân lán gën

Addendum

南板藍根 (南板蓝根)

nán bân lán gën

PHARMACEUTICAL NAME Baphicacanthis cusiae Rhizoma et Radix
FAMILY Acanthaceae
STANDARD SPECIES Baphicacanthus cusia (Nees.) Bremek (馬藍 mä lán)
ENGLISH baphicacanthus root
JAPANESE hokubanrankon
KOREAN bukpanramgeun

TEXT IN WHICH FIRST APPEARED Chinese Materia Medica
PROPERTIES bitter, cold
CHANNELS ENTERED Heart, Liver, Stomach
KEY CHARACTERISTICS cools heat and resolves toxicity, primarily in the treatment of epidemic disorders

DOSEAGE 15-30g: 60-120g when a large dosage is required

CAUTIONS & CONTRAINDICATIONS Use with caution in those with deficiency of the Spleen and Stomach, or those lacking heat toxicity.

Actions & Indications

- Clears heat, resolves toxicity, cools the blood and reduces swellings: for macular diseases from warm toxin, high fevers with headaches, massive-head febrile disorder, erysipelas, mumps, and a variety of significant viral diseases.
  — With Isatidis Folium (大青葉 dà qïng yè), Gypsum fibrosum (石膏 shí gäo), and Scutellariae Radix (黃芩 huáng qín) for macular diseases from warm toxin.
  — With Coptidis Rhizoma (黃連 huáng lián), Scrophulariae Radix (仙薔 xiān shēn), and Bombyx batryticatus (白僵 can) for acute warm-toxin disorders such as massive head febrile disorder, erysipelas, and mumps.
  — With Gentianae Radix (紅花曹 lîng dān cáo), Arnebiae Radix/ Lithospermi Radix (紫草 zhï cáo), and Gardeniae Fructus (重曹 zhï zî) for herpes zoster.
  — With Artemisiae scopariae Herba (豨莶 yï chïn), Gardeniae Fructus (重曹 zhï zî), and Rhei Radix et Rhizoma (大黃 dà huáng) for acute hepatitis.
  — With Loniceræ Flos (忍冬 huân) Schizonepetae Herba (梬茟 jiǒng jiè), and Bupleuri Radix (柴胡 chái hú) for influenza.

Commentary

This bitter, cold herb is used very similarly to Isatidis Radix (柴胡 bêi bân lán gën), but is considered to be of inferior quality.

Quality Criteria

Good quality consists of rhizomes with many roots and few stems. Its color is slightly bluish brown.

Major known chemical constituents

anthraquinones, β-sitosterol

Alternate names

馬藍根 mä lán gën

青黛

qing dài

PHARMACEUTICAL NAME Indigo naturalis
FAMILY Apiaceae
STANDARD SPECIES Baphicacanthus cusia (Nees) Bremek (馬藍 mä lán)

Polygnumum tinctorium Art. (繡薔 liâo lán)
Isatis indigotica Fort. (菘薔 söng lán)
Indigofera tinctoria L. (木薔 mù lán)

ENGLISH indigo
JAPANESE seitai
KOREAN cheongdae

TEXT IN WHICH FIRST APPEARED Discussion of Medicinal Properties

PROPERTIES salty, cold
Toxicity

Despite many references in the historical literature to Houttuyniae Herba (魚腥草) as a toxic herb, today there is no evidence of toxic side effects when ingested. The fresh plant is even used as an edible vegetable. However, some reports have indicated that injections of preparations of the herb led to allergic reactions, anaphylactic shock and death, atrophic epidermolysis bullosa, and peripheral neuritis. These reports suggest that the herb should be used with great caution when injected.

Nomenclature & Preparation

Literal English translation: “fishy-smelling herb”

The name of this herb refers to the smell of the fresh stalk when harvested, which is quite putrid. However, this odor disappears completely when the herb is dried, and its taste when decocted is not at all unpleasant, but rather like weak black tea.

Quality Criteria

Good quality consists of the aerial parts without roots. The stems are soft, and the stems and leaves are neat and unfragmented, with a light reddish brown color and intense fragrance.

Major known chemical constituents

Volatile oil: decanoylacetaldehyde, lauric laldehyde, myrcene, α-pinene, linalool, 2-methylheptenone, methyl-n-nonylketone, dodecanaldehyde, capraldehyde, camphene, linalool, caryophyllene, cineol, borneol, bornyl acetate, thymol, p-cymene, humulene, geraniol
Flavonoids: quercetin, quercitrin, isoquercitrin, afzelin, hyperin, rutin
Organic acids: chlorogenic acid, palmitic acid, linoleic acid, stearic acid, capric acid, decanoic acid, aspartic acid, aristolochic acid
Amino acids: glutamic acid, isoleucine, valine, proline
Phytosterols: stigmasterol, brassicasterol, β-sitosterol, spinasterol
Other constituents: cordarine, cis-N-(4-hydroxystyryl)benzamide, trans-N-(4-hydroxy-3-styryl)benzamide

Actions & Indications

- Clears heat, resolves toxicity, reduces swellings, and stops pain: for toxic abscesses and sores, snakebite, bleeding due to trauma, and pain from stasis and swelling. Can be used externally for these problems by itself, or made into a paste with vinegar.
  — With Lonicerae Flos (忍冬花) and Coptidis Rhizoma (黃連) for toxic swellings such as breast abscesses or throat painful obstruction.
  — With Hedyotis diffusae Herba (白花蛇舌草) and Scutellariae barbatae Herba (板藍根) for snakebite.
- Extinguishes wind and settles tremors: for wind due to
Liver heat such as childhood convulsions and seizures.

— With Uncariae Ramulus cum Uncis (góu tén) and Cicadae Periostracum (chán tui) for problems due to wind generated by Liver heat such as childhood convulsions, tremors, or seizures.

Commentary

Bitter and cold, Paridis Rhizoma (chóng lóu) enters the blood level of the Liver channel, strongly cools heat and resolves toxicity, resolves heat from constraint, and directs qi downward. It is best at treating sores and reducing boils. It is also good for swollen sore throat, snakebite, and high fever with childhood convulsions, and many kinds of cancers.

Rectification of the Meaning of Materia Medica notes that it is bitter-draining and can resolve toxicity; Li Shi-Zhen says that it is an herb of the leg terminal yin channel, which therefore can cool and resolve heat from constraint in the Liver and Gallbladder, extinguish wind, and direct rebellious qi downward. It can also reduce swellings, dissolve phlegm, promote water metabolism, and expel dampness. When the Divine Husbandman says that it treats fright seizures, wagging of the head, and moving of the tongue, all of these are Liver yang wreaking havoc, and symptoms of wood fire generating wind.

Zhang Shan-Lei, the book’s author, proceeds to explain that the effects of this herb on seizures and convulsions is a result of its ability to drain heat, and that the seizures must be due to heat:

The ability of Paridis Rhizoma (chóng lóu) to treat these symptoms is based directly on its bitter, cold, draining, and downward-directing actions, so that it can extinguish wind yang and clear fire qi. Thereafter, the qi and blood no longer gush upward, the channels of the brain are not disturbed, and all withdrawal disorders, seizures, head wagging, and tongue moving cease.

Encountering the Sources of the Classic of Materia Medica confirms this view:

The primary indications in the Divine Husbandman are fright seizures, wagging the head and moving the tongue, and hot qi within the abdomen. To clarify, Paridis Rhizoma (chóng lóu) is a leg terminal yin medicinal which can treat fright seizures, malarial disorders, scrofula, and swollen sores. Detailing the Divine Husbandman indications, all involve opening clumps and guiding out heat, so that the heat pathogen which causes each indication is naturally expelled. It should not be used for yang qi deficiency, but is effective for swollen sores and snake venom when mixed with vinegar and applied externally.

An interesting note from Jiao Shu-De, a modern physician skilled in its application, informs several aspects of its use:

The ability of this herb to resolve toxicity and expel toxicity is greater than that of such herbs as Taraxaci Herba (pú gōng yíng), Violae Herba (zï huá dì dïng), or Lonicerae Flos (jïn yín huá), and therefore whenever there is a highly toxic disease, I often use it to resolve toxicity and protect the Heart [i.e., prevent the toxic qi from invading the interior]. Its dose is usually 6-9g; when greater than this patients may have such side effects as nausea or vomiting, but in general these are not signs of danger. According to ancient experience, patients with internal toxicity easily become nauseous and vomit, but after vomiting the internal toxicity has been resolved. Of course, the individual situation of each patient must be determined.

Recently, the ability of this herb to stop bleeding has been used in treating such problems as functional uterine bleeding.

Comparisons

Vs. Taraxaci Herba (pú gōng yíng)

Both herbs cool heat, resolve toxicity, reduce swelling, and alleviate pain. Separately, Taraxaci Herba (pú gōng yíng) also promotes urination, unblocks painful urinary dribbling, and treats jaundice. Paridis Rhizoma (chóng lóu), by contrast, settles fright while cooling the Liver, and can thus also be used in treating childhood convulsions. It is also ideal for resolving snakebite toxin.

Traditional Contraindications

Cold and cooling medicinals such as this are only appropriate for yang-natured painful, red, swollen sores; it is strictly forbidden for the stubborn hard lumps characteristic of yin-natured sores. So it cannot be said that it treats all external disorders without exception! (Rectification of the Meaning of Materia Medica)

Toxicity

Slightly toxic, within the normal dosage range no severe side effects are to be expected. In high doses (60-90g) the following toxic reactions have been reported 1-3 hours after application: nausea, vomiting, diarrhea, dizziness, headache, facial pallor, blurred vision; in severe cases, spasms, dyspnea, heart arrhythmia, and cyanosis.

Allergic reactions, following contact with the powdered herb, have also been reported: irritation of the nose and conjunctiva, numbness, and facial edema.

Nomenclature & Preparation

Literal English translation: “layered stories”

This is the rhizome of two medicinally equivalent species: Paris yunnanensis, which is called layered-stories (重樓 chóng lóu), and Paris chinensis, which is called seven leaves one flower (七葉一枝花 qï yè yï zhï huá).
The original name given this herb in the *Divine Husbandman’s Classic of the Materia Medica* was flea relief (蚤休 zāo xiū), or gold filigree layered-stories (金線重樓 jīn xiàn chóng lóu). It is also known as grass purple river vehicle (草紫河車 cǎo zǐ hé chē).

**Quality Criteria**

Good quality consists of thick, solid, and heavy roots with a white, powdery cross section.

**Major known chemical constituents**

- *Paris polyphylla var. chinensis*:

- *Paris polyphylla var. yunnanensis*:

Other constituents: ecdysone, β-sitosterol, daucosterol

**Alternate species & local variants**

- *Paris polyphylla* (七葉一枝花 qī yè yī zhī huā) - Sichuan, Yunnan, Guizhou
- *Paris polyphylla var. stenophylla* (狹葉重樓 xiá yè chóng lóu) - Shaanxi, Gansu, Jiangsu, Anhui, Zhejiang, Hubei, Hunan, Fujian
- *Paris polyphylla var. pseudothibetica* (長藥隔重樓 cháng yào gé chóng lóu), *Paris delavayi* (金線重樓 jīn xiàn chóng lóu) - Hubei, Guizhou, Sichuan, Yunnan
- *Paris cronguistii* (淩雲重樓 líng yún chóng lóu) - Yunnan, Sichuan, Guangxi, Guizhou
- *Paris dunniana* (海南重樓 hǎi nán chóng lóu) - Hainan
- *Paris vietnamensis* (南重樓 nán chóng lóu) - S China

**Adulterants**

- *Rohdea japonica* (萬年青 wàn nián qīng): This has long, cylindrical, and slightly curved roots, 5-15cm long, and 1-2cm in diameter. It has a yellowish white surface, with small, yellow dots on cross section, and a bitter and acrid taste. By contrast, the standard herb consists of conical roots, 1.3-3cm in diameter, 3-10cm long, with a yellow or yellowish brown surface, white or horny on cross section, and a bitter, astringent taste. See next entry and photo on page 1146.

**Alternate names**

- 白河車 bái hé chē - Zhejiang
- 草河車 cǎo hé chē
- 重樓 chóng lóu

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**Additional product information**

*Paris polyphylla var. chinensis* (華重樓 huá chóng lóu) is said to be of better quality than *Paris polyphylla var. yunnanensis* (雲南重樓 yún nán chóng lóu, 滇重樓 diàn chóng lóu).
Actions & Indications

- Clears heat, resolves toxicity, reduces abscesses, and disperses clumps: for swellings, abscesses, scrofula, and hemorrhoids as well as febrile seizures. Also used for snakebite. Often used topically either as a wash or as a paste.
  
  — With Chrysanthemi indici Flos (yê jú huä) and Loniceræ Flos (jîn yín huä) for abscesses and sores.

— With Uncariae Ramulus cum Uncis (gŏu téng), Scorpio (quán xië), and Bombyx batryticatus (bái jiäng cán) for febrile seizures.

- Cools the blood and stops bleeding: for heat leading to vomiting of blood, nosebleeds, bleeding hemorrhoids, or red dysenteric disorder.
  
  — With Coptidis Rhizoma (huáng lián), Fraxini Cortex (qín pí), and Pulsatillae Radix (bái tóu wëng) for red dysenteric disorder.

Commentary

Bitter, cooling, and slightly toxic, Bistortae Rhizoma (quán shën) enters the Liver, Stomach, and Large Intestine channels to clear internal heat, restrain fright, facilitate the removal of dampness, reduce swelling, and stop bleeding. It is used in the treatment of febrile convulsions, muscular tetany, damp-heat dysenteric disorders with or without bleeding, sores and rashes, and can be applied externally for toxic swellings, scrofula, hemorrhoids, snakebite, and other sores.

Comparisons

➢ Vs. Paridis Rhizoma (chóng lóu)

The modern physician and author Zhu Liang-Chun says of these two herbs:

Although of similar nature and flavor, and despite the fact that both of them clear heat and resolve toxicity, they are different: Bistortae Rhizoma (quán shën) more specifically treats dysenteric disorder and enteritis due to internal heat, while Paridis Rhizoma (chóng lóu) (called here by its alternate name of seven leaves one flower’ (七葉一隻花 qī yè yī zhī huā)) is better at clearing the Lungs and draining heat to treat sores, boils, and furuncles. Hence, because of this difference, it is to be hoped that they are understood and used properly.

Toxicity

Mild side effects have been reported, including abdominal pain and diarrhea, probably due to irritation of the intestinal mucosa.

Nomenclature & Preparation

Literal English translation: “fist root”

There is some confusion in the marketplace between this herb and Paridis Rhizoma (chóng lóu). Both are also known as herbal river vehicle (草河車 cáo hé chë), and while Paridis Rhizoma is frequently called flea relief (蚤休 zâo xiü), Bistortae Rhizoma (quán shën) is also known as red flea relief (紅蚤休 hóng zâo xiü). To avoid confusion, the name 蚤休 zâo xiü is no longer recommended when prescribing Paridis Rhizoma (chóng lóu).

Quality Criteria

Good quality consists of large and thick, solid, and hard rhizomes with a purplish black surface and a reddish brown surface on cross section. The fine lateral roots should be removed.

Major known chemical constituents

Phenolic compounds, tannins: gallic acid, ellagic acid, caffeic acid, protocatechuic acid, chlorogenic acid, catechol, epicatechol, 6-galloyl glucose, 3,6-digalloyl glucose

Flavonoids: hyperin

Alternate species & local variants

Polygonum viviparum L. (珠芽蓼 zhü yá liâo) - NE, NW China

Polygonum manshuriense (石生蓼 shí shëng liâo) - NE China

Polygonum paleaceum (草血竭 câo xûe jié) - Yunnan, Guizhou

Adulterants

Due to the use of the alternate name 重樓 chóng lóu in Jiangsu, this herb is often used as an adulterant of Paridis Rhizoma (see previous entry).

Alternate names

草河車 cáo hé chë
重樓 chóng lóu - Jiangsu
山蝦 shän xiä
紫參 zî shën

穿心蓮 (穿心蓮)

chuän xïn lián

PHARMACEUTICAL NAME Andrographitis Herba

FAMILY Acanthaceae

STANDARD SPECIES Andrographis paniculata (Burm. f.) Nees (穿心蓮 chuän xïn lián)

ENGLISH andrographis, green chiretta, kariyat

JAPANESE senshinren

KOREAN cheonsimyeon

TEXT IN WHICH FIRST APPEARED Records of Picking Herbs in Guangdong

PROPERTIES bitter, cold

CHANNELS ENTERED Large Intestine, Lung, Small Intestine, Stomach
Herbs that Drain Dampness

薏苡仁

**yì yî rén**

**Pharmaceutical Name**  Coicis Semen

**Family**  Gramineae

**Standard Species**  
- Coix lacryma-jobi L. var. ma-yuen (Roman.) Stapf

**English**  coix seeds, Job’s tears

**Japanese**  yokuinin

**Korean**  wuiin

**Text in which first appeared**  Divine Husbandman’s Classic of the Materia Medica

**Properties**  sweet, bland, slightly cold

**Channels Entered**  Lungs, Spleen, Stomach, Kidney

**Key Characteristics**  tonifies the Spleen and augments the Lungs; leaches out dampness from the bones, sinews, and muscles to treat painful obstruction disorder; cools heat and expels pus to treat sores and abscesses

**Dosage**  9-30g

**Cautions and Contraindications**  none noted

**Actions & Indications**

- Facilitates the resolution of dampness and strengthens the Spleen: for edema, diarrhea, leg qi, painful urinary dribbling, and damp-warmth. It treats both the root and manifestations of these disorders.
  
  — With Chaenomelis Fructus (mù guā) for painful heavy legs, and for summerheat-dampness.
  
  — With Benincasae Exocarpium (dōng guā pí) for scanty urine and edema due to obstruction by dampness.
  
  … Add Phaseoli Semen (chì xiào dòu), Talcum (huá shî), and Akebiae Caulis (mù töng) for fever with scanty, dark urine due to dampness obstructing the channels.

- With Poria (fǔ líng) and Atractylodis macrocephalae Rhizoma (bái zhú) for diarrhea due to Spleen deficiency, as in Ginseng, Poria, and White Atractylodes Powder (shēn líng bái zhú sàn).

- Facilitates the resolution of dampness and eliminates painful obstruction: for wind-damp painful obstruction. Especially effective for increasing joint mobility and reducing spasms in chronic cases.

  — Powdered and cooked with rice congee as a daily food for those with damp-predominant painful obstruction marked by swelling and hypertonicity.

  — With Ephedrae Herba (má huáng), Armeniacae Semen (xìng rén), and Glycyrrhizae Radix (găn cáo) for wind-dampness induced generalized body aches.

- Clears heat and expels pus: for soft, pustulated carbuncles as well as Lung or Intestinal abscess.

  — With Phragmites Rhizoma (lù gën), Benincasae Semen (dōng guā zǐ), and Persicaceae Semen (táo rén) for Lung abscess, as in Reed Decoction (wéi jïng täng).

  — With Patriniae Herba (bài jiàng câo) and Moutan Cortex (mû dän pí) for Intestinal abscess.

  — With Trichosanthis Semen (guā lóu rén) and Persicae Semen (táo rén) for early-stage Intestinal abscess due to dampness and blood stasis.

- Clears damp-heat: for any damp-heat disorder at any level characterized by a greasy tongue coating and digestive problems.

  — With Armeniacae Semen (xìng rén) and Amomi Fructus rotundus (bái dòu kòu) for early stage damp-warmth when dampness predominates, as in Three-Nut Decoction (sän rën täng).

  — With Atractylodis Rhizoma (căng zhú), Phellodendri Cortex (huáng bâi), and Achyranthis bidentatae Radix (niú xi) for downward pouring of damp-heat leading to atrophy and weakness of the lower extremities, as in Four-Marvel Pill (sì miào wán).

**Commentary**

Sweet, bland, and slightly cold, with a nature that drains and directs downward, Coicis Semen (yì yî rén) enters the Lung, Spleen, Stomach, and Kidney channels. The Spleen is averse to dampness and prefers dryness; excessive dampness encumbers the Spleen and impairs its transportive and transformative functions. The bland flavor of Coicis Semen (yì yî rén) leaches out dampness, and its sweetiness augments the Spleen; thus, it both eliminates dampness and strengthens the Spleen. It is primarily used for symptoms...
associated with an overabundance of dampness coupled with a weak Spleen. This would include diarrhea, loss of appetite, edema, abdominal distention, leg qi edema, vaginal discharge, and urinary difficulty.

The Spleen governs the flesh and Coicis Semen (yì yì rén) is especially valued for its ability to eliminate pathogenic dampness from the flesh, muscles, sinews, and bones. It is commonly used to treat wind-damp painful obstruction and spasms of the sinews, especially if associated with heat. Because the Spleen is the source of generative transformation, if the Spleen and Stomach are strong, the Lung qi will be sufficient. Coicis Semen (yì yì rén) enters the Lung channel where it augments the Lungs, clears heat, and expels pus. It is thus useful in the treatment of Lung abscess, Lung atrophy, and Intestinal abscess.

The Grand Materia Medica observes that this is a yang brightness herb, strengthening the Spleen and augmenting the Stomach. For deficiency, tonify the mother, so it is used for Lung atrophy and Lung abscess. Disorders of the sinews and bones are addressed at the root by treating yang brightness, and thus it is used for cramps, spasms, and wind painful obstruction. Earth generates water and eliminates dampness, thus it is used for diarrhea, dysenteric disorders, and edema.

Description of the Materia Medica notes that it expels dampness, but is not as drying as either type of atractylodes; it clears heat, but does not injure the yin like Scutellariae Radix (huáng qín) or Coptidis Rhizoma (huáng lián); it augments the qi, but does not increase damp-heat like Ginseng Radix (rén shën) or Atractylodis macrocephalae Rhizoma (bái zhú)—it is truly a notable herb for augmenting the middle qi!

Taken together, its harmonious nature allows it to tonify without being cloying, and to leach out dampness without harming the yin. It can be used whenever dampness results from Spleen deficiency, or when the fluid pathways are not flowing smoothly. However, in Convenient Reader of Materia Medica, Zhang Bing-Cheng notes that while it strengthens the Spleen and augments the Stomach, its tonification is not as powerful as that of Dioscoreae Rhizoma (shān yāo); cooling heat and facilitating the removal of pathogenic dampness—these are its strong points.

Mechanisms of Selected Combinations

➢ With Chaenomelis Fructus (mù guā)

Sweet, bland, and slightly cold, Coicis Semen (yì yì rén) strengthens the Spleen, facilitates the removal of pathogenic dampness, soothes the sinews, and expels painful obstruction. Chaenomelis Fructus (mù guā) is sour and warm, facilitates the removal of pathogenic dampness, regulates the Spleen, soothes the sinews, and invigorates

the collaterals. It is primarily used to treat the vomiting and diarrhea of sudden turmoil disorder, cramping, and leg qi due to pathogenic dampness.

Because one herb is warm and the other is slightly cold, when combined they can be used in treating either hot or cold disorders. This combination is often used for summerheat-dampness leading to vomiting, diarrhea, abdominal pain and cramping, or for leg pain with heavy, numb sensations and softened sinews due to pathogenic dampness blocking the channels and collaterals, as well as leg qi edema and damp painful obstruction.

➢ With Benincasae Semen (dōng guā zǐ); see page 296

Comparisons

➢ Vs. Poria (fú líng)

Both herbs are of a similar nature, strengthening the Spleen and facilitating the removal of dampness. They are often used together in the treatment of Spleen deficiency with overabundant dampness or edema. However, Coicis Semen (yì yì rén) is cold and can clear heat, so that it is often used for abscess of the Lung or Intestines, and Lung atrophy; it also removes dampness at the level of the bones, muscles, and sinews. By contrast, Poria (fú líng) is neutral; it augments the Heart and Spleen, and calms the spirit.

➢ Vs. Benincasae Semen (dōng guā zǐ); see page 296

Traditional Contraindications

“Its nature is that of descending autumn, so it is inappropriate for deficiency with sinking tendencies. Long-term consumption during pregnancy can lead to miscarriage.”

(Detailed Materia Medica)

Nomenclature & Preparation

In its unprepared form, it is better for promoting urination to eliminate dampness, clear heat, and expel pus. It is thus most effective for edema, dampness, wind-damp painful obstruction, or abscesses.

➢ Dry-fried Coix (炒薏苡仁 chǎo yì yì rén)

Cleaned Coicis Semen (yì yì rén) are dry-fried or baked at a moderate temperature, sometimes with bran, until they are slightly yellow, then they are cooled. If dry-fried until brown burned spots appear, it is called scorched coix (焦薏苡仁 jiāo yì yì rén). Dry-frying reduces its cold nature, improving its ability to strengthen the Spleen and harmonize the middle. When bran is added in the processing, it enhances the tonification of the middle burner; this allows it to stop diarrhea while still facilitating the removal of dampness. Scorched coix reduces food stagnation and harmonizes the Stomach.
➢ Raw and Cooked Coix  
  (生熟薏苡仁 shēng shú yì yǐ rén)

This is a term used in prescriptions to indicate that both unprepared and prepared coix are to be dispensed. This is often prescribed for diarrhea due to Spleen deficiency with overabundant dampness. It ensures that, while the Spleen is sufficiently augmented, pathogenic dampness will also be adequately leached out.

➢ Coix Root (薏苡根 yì yǐ gēn) –
  pharmaceutical name: Coicis Radix

The root is bitter, sweet, and cold. It clears heat and facilitates the resolution of dampness and is used for damp-heat painful urinary dribbling, painful bloody urinary dribbling, edema, and Lung abscess. It also expels parasites. The customary dosage is 10-15g. As noted in Omissions from the [Classic of the] Materia Medica, it should not be used during pregnancy: “Boiled and consumed, it aborts the fetus.”

### Quality Criteria

Good quality consists of big, full, white grains.

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### Major known chemical constituents

- Fatty acids and esters: palmitic acid, ethylpalmitate, stearic acid, cis-8-octadecenoic acid, myristic acid, oleic acid, linoleic acid, methyl linoleate
- Volatile oil: hexanal, hexanoic acid, 2-ethyl-3-hydroxyhexylbutyrate, γ-nonalactone, nonanoic acid, octanoic acid
- Polysaccharides: coixan A, B, C, polysaccharides CA-1, CA-2
- Triterpenes: cis-feroylstigmastenol, trans-feroylstigmastenol, cis-feroylcampestenol, trans-feroylcampestenol, β-sitosterol
- Other constituents: coixol, coixenolide, 4-ketopinoresinol, amino acids, proteins, α-monoolein, erythro-/ threo-C-syringylglycerol, alkaloids

### Alternate species & local variants

Coix lachryma-jobi (草珠子 cāo zhū zǐ)

### Adulterants

- Sorghum vulgare (高粱 gāo liáng): Almost globular in shape, these are 4mm in diameter, with no deep longitudinal channel, but with a hollow, ventral, yellowish brown scar, about 2mm in length.
- Hordeum vulgare (大麦 dà mài): These have an elongated, elliptical shape. They are 3-6mm long, and 3mm wide, with a narrow, pale brown, longitudinal channel.

### Alternate names

- 草珠子 cāo zhū zǐ
- 綠谷 lù gǔ
- 永仁 yǒng rén
- 水珠米 niào dāng zhù - Sichuan
- 水珠米 shuǐ zhū mǐ

### Additional product information

The best quality comes from Fujian and Hebei provinces.
### HERBS THAT TONIFY THE YANG

#### Cervi Cornu pantotrichum (呂茸) 764
- Tonifies the Kidneys, fortifies the yang
- Kidney yang deficiency with fatigue, impotence, cold extremities, tinnitus, sore lumbar and knees, frequent and copious urination
- Tonifies the Governing vessel, augments the essence and blood, strengthens the sinews and bones
- Physical or mental development disorders with deficient essence and blood
- Regulates the Penetrating and Conception vessels, stabilizes the Girdle vessel
- Cold from deficiency in the uterus leading to infertility, watery vaginal discharge, or uterine bleeding
- Nourishes the qi and blood
- Chronic ulcers or yin-type boils

#### Gecko ( gé jiè ) 768
- Fortifies the Kidney yang, tonifies the Lungs
- Kidneys unable to grasp qi; consumptive cough or cough with blood-streaked sputum
- Assists the Kidney yang, augments the essence and blood
- Impotence, daybreak diarrhea, or urinary frequency from Kidney yang deficiency

#### Cordyceps (dong chóng xià cáo) 770
- Gently tonifies the Kidney yang, augments the essence
- Impotence, sore and weak lower back and legs due to Kidney yang deficiency
- Tonifies the Lung yin, settles coughs and wheezing, stops sweating and bleeding
- Chronic cough, or consumptive cough with blood-streaked sputum; wheezing from deficiency

#### Cistanches Herba (ròu cōng róng) 773
- Tonifies the Kidney yang, enriches the essence and blood, warms the Womb
- Impotence, urinary incontinence, post-urinary dripping, cold pain in the lower back and knees; infertility
- Moists the Intestines
- Constipation due to fluid deficiency

#### Cynomorii Herba (suō yáng) 775
- Warms the Kidney yang, nourishes the Liver blood and Kidney essence, strengthens the sinews to treat atrophy
- Impotence, urinary frequency and spermatorrhea; weak sinews, motor impairment, or paralysis resulting from deficient essence and blood
- Moists the Intestines
- Constipation from qi or blood deficiency

#### Epimedi Herba (yín yáng huò) 776
- Tonifies the gate of vitality fire and Kidney yang
- Kidney yang deficiency causing impotence, infertility, urinary frequency, forgetfulness, and painful, cold lower back and knees
- Disperses wind-cold-dampness
- Wind-cold-damp painful obstruction with spasms or cramps in hands and feet, joint pain, or numbness in extremities

#### Morindae officinalis Radix (bā jī tiān) 778
- Tonifies the Kidney yang without overly drying, augments the essence
- Lumbar pain and weakness, impotence, infertility, premature ejaculation, and urinary frequency due to yang deficiency
- Disperses wind-dampness, strengthens the sinews and bones
- Cold-damp painful obstruction and leg qi pain; atrophy of sinews and bones

#### Trigonellae Semen (hú lú bà) 781
- Fortifies the Kidney yang, drives out lower burner cold qi
- Kidney yang deficiency patterns with accumulation of cold or stagnant qi; cold-damp leg qi pain due to cold-type bulging disorder
### Juglandis Semen *(hé táo rén)* · 782

<table>
<thead>
<tr>
<th>Actions</th>
<th>Indications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tonifies the Kidneys,</td>
<td>Kidney yang deficiency pattern with cold and painful back and knees, and</td>
</tr>
<tr>
<td>strengthens the lower back</td>
<td>urinary frequency</td>
</tr>
<tr>
<td>Warms the Lungs, helps the</td>
<td>Chronic cough and wheezing from Lung deficiency</td>
</tr>
<tr>
<td>Kidneys to grasp qi</td>
<td></td>
</tr>
<tr>
<td>Moistens the Intestines,</td>
<td>Constipation due to injured fluids following a febrile disease, or in the</td>
</tr>
<tr>
<td>unblocks the bowels</td>
<td>elderly</td>
</tr>
</tbody>
</table>

### Psoraleae Fructus *(bû gû zhï)* · 784

<table>
<thead>
<tr>
<th>Actions</th>
<th>Indications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warmly tonifies the Kidney</td>
<td>Kidney yang deficiency, diarrhea due to cold from deficiency of the Spleen</td>
</tr>
<tr>
<td>and Spleen yang</td>
<td></td>
</tr>
<tr>
<td>Stabilizes the essence and</td>
<td>Enuresis, incontinence of urine, urinary frequency, or premature ejaculation</td>
</tr>
<tr>
<td>secures the urine</td>
<td></td>
</tr>
<tr>
<td>Aids the Kidneys to grasp</td>
<td>Wheezing when the Kidneys fail to grasp the Lung qi</td>
</tr>
<tr>
<td>qi</td>
<td></td>
</tr>
</tbody>
</table>

### Alpiniae oxyphyllae Fructus *(yì zhì rén)* · 787

<table>
<thead>
<tr>
<th>Actions</th>
<th>Indications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warms the Kidney yang</td>
<td>Frequent, copious urination, spermatorrhoea and urinary dribbling, or</td>
</tr>
<tr>
<td>retains the essence,</td>
<td>incontinence due to Kidney yang deficiency</td>
</tr>
<tr>
<td>secures the urine</td>
<td></td>
</tr>
<tr>
<td>Warms the Spleen yang, stops</td>
<td>Cold from deficiency of the Spleen or Stomach with diarrhea, abdominal pain,</td>
</tr>
<tr>
<td>diarrhea, holds in saliva</td>
<td>or excess salivation</td>
</tr>
</tbody>
</table>

### Curculiginis Rhizoma *(xiăn máo)* · 788

<table>
<thead>
<tr>
<th>Actions</th>
<th>Indications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harshly warms the fire at</td>
<td>Kidney yang deficiency, infertility due to cold Womb or cold essence</td>
</tr>
<tr>
<td>the gate of vitality and</td>
<td></td>
</tr>
<tr>
<td>the Kidney yang</td>
<td></td>
</tr>
<tr>
<td>Expels cold-dampness</td>
<td>Stubborn cold-damp painful obstruction</td>
</tr>
</tbody>
</table>

### Eucommiae Cortex *(dù zhòng)* · 790

<table>
<thead>
<tr>
<th>Actions</th>
<th>Indications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tonifies the Liver and</td>
<td>Liver and Kidney deficiency with weak, sore lower back and knees, fatigue,</td>
</tr>
<tr>
<td>Kidneys, strengthens the</td>
<td>urinary frequency</td>
</tr>
<tr>
<td>sinews and bones</td>
<td></td>
</tr>
<tr>
<td>Quiets the fetus</td>
<td>Kidney yang deficiency patterns with bleeding during pregnancy; threatened</td>
</tr>
<tr>
<td></td>
<td>miscarriage with significant back pain or underlying deficiency</td>
</tr>
<tr>
<td>Calms rising Liver yang</td>
<td>Dizziness due to rising Liver yang</td>
</tr>
</tbody>
</table>

### Cibotii Rhizoma *(gôu jî)* · 793

<table>
<thead>
<tr>
<th>Actions</th>
<th>Indications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tonifies the Kidneys and</td>
<td>Stiffness, soreness, or weakness of lower back, spine, and legs</td>
</tr>
<tr>
<td>Liver, strengthens the</td>
<td></td>
</tr>
<tr>
<td>bones and sinews</td>
<td></td>
</tr>
<tr>
<td>Expels wind and dampness</td>
<td>Wind-damp painful obstruction; swelling of legs following illness</td>
</tr>
<tr>
<td>Warms and stabilizes the</td>
<td>Urinary incontinence; vaginal discharge</td>
</tr>
<tr>
<td>Kidneys</td>
<td></td>
</tr>
</tbody>
</table>

### Dipsaci Radix *(xù duàn)* · 795

<table>
<thead>
<tr>
<th>Actions</th>
<th>Indications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tonifies the Kidneys and</td>
<td>Sore lower back and knees, stiff joints, weakness of legs</td>
</tr>
<tr>
<td>Liver, strengthens the</td>
<td></td>
</tr>
<tr>
<td>bones and sinews</td>
<td></td>
</tr>
<tr>
<td>Expels uterine bleeding,</td>
<td>Restless fetus or bleeding during pregnancy; threatened miscarriage</td>
</tr>
<tr>
<td>calms the fetus</td>
<td></td>
</tr>
<tr>
<td>Warms and stabilizes the</td>
<td>Trauma, esp. to back and limbs; painful obstruction</td>
</tr>
<tr>
<td>Kidneys</td>
<td></td>
</tr>
</tbody>
</table>

### Drynariae Rhizoma *(gû suî bû)* · 798

<table>
<thead>
<tr>
<th>Actions</th>
<th>Indications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tonifies the Kidneys,</td>
<td>Weak lower back and knees, tinnitus, diminished hearing, toothache, and</td>
</tr>
<tr>
<td>directs floating yang</td>
<td>bleeding gums from Kidney deficiency</td>
</tr>
<tr>
<td>downward</td>
<td></td>
</tr>
<tr>
<td>Strengthens and repairs</td>
<td>Injuries such as falls, fractures, sprains, esp. with ligament or bone</td>
</tr>
<tr>
<td>bones</td>
<td>damage</td>
</tr>
</tbody>
</table>
Sample Photographs: Adulterants & Quality Issues

牛膝 niú xī

LEFT: Achyranthis bidentatae Radix (牛膝 niú xī or 淮牛膝 huái niú xī) – standard herb

MIDDLE: Cyathulae Radix (川牛膝 chuàn niú xī) – standard herb

RIGHT: Strobilanthis nemorosi Radix et Rhizoma (牛膝馬藍 niú xī mā lán) – adulterant for Cyathulae Radix

confusion of herbs called shān cí gǔ

LEFT: Cremastrae seu Pleiones Pseudobulbus (山慈菇 shān cí gǔ) – standard herb

RIGHT: Asari sagittaroidis Herba (山茨菇 shān cí gǔ, 土細辛 tù xì xīn) – erroneous usage because of Chinese character confusion